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Manifest-Version: 1.0

Archiver-Version: Plexus Archiver

Created-By: Apache Maven Bundle Plugin

Built-By: joakim

Build-Jdk: 1.7.0_75

Implementation-Vendor: Eclipse.org - Jetty

Implementation-Version: 9.2.20.v20161216

url: <http://www.eclipse.org/jetty>

Export-Package: org.eclipse.jetty.websocket.client;version="9.2.20",org.eclipse.jetty.websocket.client.masks;version="9.2.20",org.eclipse.jetty.websocket.client.io;version="9.2.20"

Bundle-Classpath: .

Tool: Bnd-1.15.0

Bundle-Name: Jetty :: WebSocket :: Client

Bundle-RequiredExecutionEnvironment: JavaSE-1.7

Bundle-Copyright: Copyright (c) 2008-2016 Mort Bay Consulting Pty. Ltd.

Bundle-Vendor: Eclipse Jetty Project

Bundle-Version: 9.2.20.v20161216

Bnd-LastModified: 1481929339298

Bundle-ManifestVersion: 2

Bundle-Description: Administrative parent pom for Jetty modules

Bundle-License: <http://www.apache.org/licenses/LICENSE-2.0>, <http://www.eclipse.org/org/documents/epl-v10.php>

Import-Package: javax.net.ssl,org.eclipse.jetty.io;version="[9.0,10.0)",org.eclipse.jetty.io.ssl;version="[9.0,10.0)",org.eclipse.jetty.util;version="[9.0,10.0)",org.eclipse.jetty.util.component;version="[9.0,10.0)",org.eclipse.jetty.util.log;version="[9.0,10.0)",org.eclipse.jetty.util.ssl;version="[9.0,10.0)",org.eclipse.jetty.util.thread;version="[9.0,10.0)",org.eclipse.jetty.websocket.api;version="[9.0,10.0)",org.eclipse.jetty.websocket.api.extensions;version="[9.0,10.0)",org.eclipse.jetty.websocket.common;version="[9.0,10.0)",org.eclipse.jetty

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Bundle-SymbolicName: org.eclipse.jetty.websocket.client

Bundle-DocURL: <http://www.eclipse.org/jetty>

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1.2 struts 1.3.8

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1.3 jetty-orbit-servlet-api 3.0.0.v201112011016

1.3.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
<tt>TransportGuarantee.CONFIDENTIAL</tt>.</TD>
```

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Found in path(s):

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* /opt/cola/permits/1018976702_1609888498.14/0/javax-servlet-3-0-0-v201112011016-javadoc-jar/javax/servlet/annotation/class-use/ServletSecurity.TransportGuarantee.html
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No license file was found, but licenses were detected in source scan.

-classpath

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'/Users/jesse/src/projects/jetty/org.eclipse.jetty.orbit/javax.servlet/3.0.0.v201112011016/target/classes'
```

-encoding

```
'UTF-8'
```

-protected

-sourcepath

```
'/Users/jesse/src/projects/jetty/org.eclipse.jetty.orbit/javax.servlet/3.0.0.v201112011016/src/main/java'
```

-author

-bottom

```
'Copyright &#169; 1995-2011 <a href="http://www.mortbay.com">Mort Bay Consulting</a>. All Rights Reserved.'
```

-charset

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'UTF-8'
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-d

```
'/Users/jesse/src/projects/jetty/org.eclipse.jetty.orbit/javax.servlet/3.0.0.v201112011016/target/site/apidocs'
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-docencoding

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'UTF-8'
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-doctitle

```
'Jetty Orbit :: Servlet API 3.0.0.v201112011016 API'
```

-linkoffline

```
'http://download.oracle.com/javase/6/docs/api'
```

```
'/Users/jesse/src/projects/jetty/org.eclipse.jetty.orbit/javax.servlet/3.0.0.v201112011016/target/javadoc-bundle-options'
```

-use

-version

-windowtitle

```
'Jetty Orbit :: Servlet API 3.0.0.v201112011016 API'
```

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<tt>TransportGuarantee.CONFIDENTIAL</tt>.</TD>

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<tt>TransportGuarantee.CONFIDENTIAL</tt><DD><CODE>roleNames</CODE> - the names of the roles that are to be

<tt>TransportGuarantee.CONFIDENTIAL<tt><DD><CODE>roleNames</CODE> - the names of the roles that are to be allowed

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Found in path(s):

* /opt/cola/permits/1018976702_1609888498.14/0/javax-servlet-3-0-0-v201112011016-javadoc-

jar/javax/servlet/HttpConstraintElement.html

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<TD><CODE>CONFIDENTIAL</CODE>

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CONFIDENTIAL</H3>

public static final ServletSecurity.TransportGuarantee CONFIDENTIAL</PRE>

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Found in path(s):

* /opt/cola/permits/1018976702_1609888498.14/0/javax-servlet-3-0-0-v201112011016-javadoc-

jar/javax/servlet/annotation/ServletSecurity.TransportGuarantee.html

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* /opt/cola/permits/1018976702_1609888498.14/0/javax-servlet-3-0-0-v201112011016-javadoc-jar/index-all.html

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* /opt/cola/permits/1018976702_1609888498.14/0/javax-servlet-3-0-0-v201112011016-javadoc-jar/javax/servlet/http/package-tree.html

* /opt/cola/permits/1018976702_1609888498.14/0/javax-servlet-3-0-0-v201112011016-javadoc-

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* /opt/cola/permits/1018976702_1609888498.14/0/javax-servlet-3-0-0-v201112011016-javadoc-
jar/javax/servlet/annotation/HttpConstraint.html
* /opt/cola/permits/1018976702_1609888498.14/0/javax-servlet-3-0-0-v201112011016-javadoc-
jar/javax/servlet/ServletException.html
* /opt/cola/permits/1018976702_1609888498.14/0/javax-servlet-3-0-0-v201112011016-javadoc-
jar/javax/servlet/http/class-use/Cookie.html
* /opt/cola/permits/1018976702_1609888498.14/0/javax-servlet-3-0-0-v201112011016-javadoc-
jar/javax/servlet/ServletOutputStream.html
* /opt/cola/permits/1018976702_1609888498.14/0/javax-servlet-3-0-0-v201112011016-javadoc-
jar/javax/servlet/class-use/ServletResponseWrapper.html
* /opt/cola/permits/1018976702_1609888498.14/0/javax-servlet-3-0-0-v201112011016-javadoc-
jar/javax/servlet/ServletResponse.html
* /opt/cola/permits/1018976702_1609888498.14/0/javax-servlet-3-0-0-v201112011016-javadoc-
jar/javax/servlet/AsyncListener.html
* /opt/cola/permits/1018976702_1609888498.14/0/javax-servlet-3-0-0-v201112011016-javadoc-
jar/javax/servlet/http/class-use/HttpSessionBindingEvent.html
* /opt/cola/permits/1018976702_1609888498.14/0/javax-servlet-3-0-0-v201112011016-javadoc-
jar/javax/servlet/DispatcherType.html
* /opt/cola/permits/1018976702_1609888498.14/0/javax-servlet-3-0-0-v201112011016-javadoc-
jar/javax/servlet/annotation/package-summary.html
* /opt/cola/permits/1018976702_1609888498.14/0/javax-servlet-3-0-0-v201112011016-javadoc-
jar/javax/servlet/annotation/class-use/HttpMethodConstraint.html
* /opt/cola/permits/1018976702_1609888498.14/0/javax-servlet-3-0-0-v201112011016-javadoc-
jar/javax/servlet/class-use/AsyncListener.html
* /opt/cola/permits/1018976702_1609888498.14/0/javax-servlet-3-0-0-v201112011016-javadoc-
jar/javax/servlet/package-use.html
* /opt/cola/permits/1018976702_1609888498.14/0/javax-servlet-3-0-0-v201112011016-javadoc-
jar/javax/servlet/Registration.html
* /opt/cola/permits/1018976702_1609888498.14/0/javax-servlet-3-0-0-v201112011016-javadoc-
jar/javax/servlet/class-use/SingleThreadModel.html
* /opt/cola/permits/1018976702_1609888498.14/0/javax-servlet-3-0-0-v201112011016-javadoc-
jar/javax/servlet/descriptor/TaglibDescriptor.html
* /opt/cola/permits/1018976702_1609888498.14/0/javax-servlet-3-0-0-v201112011016-javadoc-
jar/javax/servlet/descriptor/package-tree.html
* /opt/cola/permits/1018976702_1609888498.14/0/javax-servlet-3-0-0-v201112011016-javadoc-
jar/javax/servlet/SingleThreadModel.html
* /opt/cola/permits/1018976702_1609888498.14/0/javax-servlet-3-0-0-v201112011016-javadoc-
jar/javax/servlet/ServletResponseWrapper.html
* /opt/cola/permits/1018976702_1609888498.14/0/javax-servlet-3-0-0-v201112011016-javadoc-
jar/javax/servlet/http/class-use/HttpSessionActivationListener.html
* /opt/cola/permits/1018976702_1609888498.14/0/javax-servlet-3-0-0-v201112011016-javadoc-
jar/javax/servlet/class-use/GenericServlet.html
* /opt/cola/permits/1018976702_1609888498.14/0/javax-servlet-3-0-0-v201112011016-javadoc-
jar/javax/servlet/ServletConfig.html
* /opt/cola/permits/1018976702_1609888498.14/0/javax-servlet-3-0-0-v201112011016-javadoc-

jar/javax/servlet/AsyncContext.html
* /opt/cola/permits/1018976702_1609888498.14/0/javax-servlet-3-0-0-v201112011016-javadoc-jar/help-doc.html
* /opt/cola/permits/1018976702_1609888498.14/0/javax-servlet-3-0-0-v201112011016-javadoc-jar/javax/servlet/http/class-use/HttpSessionListener.html
* /opt/cola/permits/1018976702_1609888498.14/0/javax-servlet-3-0-0-v201112011016-javadoc-jar/javax/servlet/descriptor/JspConfigDescriptor.html
* /opt/cola/permits/1018976702_1609888498.14/0/javax-servlet-3-0-0-v201112011016-javadoc-jar/javax/servlet/RequestDispatcher.html
* /opt/cola/permits/1018976702_1609888498.14/0/javax-servlet-3-0-0-v201112011016-javadoc-jar/javax/servlet/MultipartConfigElement.html
* /opt/cola/permits/1018976702_1609888498.14/0/javax-servlet-3-0-0-v201112011016-javadoc-jar/javax/servlet/class-use/SessionTrackingMode.html
* /opt/cola/permits/1018976702_1609888498.14/0/javax-servlet-3-0-0-v201112011016-javadoc-jar/javax/servlet/annotation/class-use/ServletSecurity.html
* /opt/cola/permits/1018976702_1609888498.14/0/javax-servlet-3-0-0-v201112011016-javadoc-jar/javax/servlet/class-use/AsyncEvent.html
* /opt/cola/permits/1018976702_1609888498.14/0/javax-servlet-3-0-0-v201112011016-javadoc-jar/javax/servlet/class-use/RequestDispatcher.html
* /opt/cola/permits/1018976702_1609888498.14/0/javax-servlet-3-0-0-v201112011016-javadoc-jar/javax/servlet/class-use/ServletSecurityElement.html
* /opt/cola/permits/1018976702_1609888498.14/0/javax-servlet-3-0-0-v201112011016-javadoc-jar/javax/servlet/ServletRequestWrapper.html
* /opt/cola/permits/1018976702_1609888498.14/0/javax-servlet-3-0-0-v201112011016-javadoc-jar/javax/servlet/ServletRequestAttributeListener.html
* /opt/cola/permits/1018976702_1609888498.14/0/javax-servlet-3-0-0-v201112011016-javadoc-jar/javax/servlet/http/class-use/HttpSessionBindingListener.html
* /opt/cola/permits/1018976702_1609888498.14/0/javax-servlet-3-0-0-v201112011016-javadoc-jar/overview-summary.html
* /opt/cola/permits/1018976702_1609888498.14/0/javax-servlet-3-0-0-v201112011016-javadoc-jar/javax/servlet/class-use/ServletRequest.html
* /opt/cola/permits/1018976702_1609888498.14/0/javax-servlet-3-0-0-v201112011016-javadoc-jar/javax/servlet/ServletInputStream.html
* /opt/cola/permits/1018976702_1609888498.14/0/javax-servlet-3-0-0-v201112011016-javadoc-jar/javax/servlet/descriptor/class-use/TaglibDescriptor.html
* /opt/cola/permits/1018976702_1609888498.14/0/javax-servlet-3-0-0-v201112011016-javadoc-jar/javax/servlet/class-use/ServletOutputStream.html
* /opt/cola/permits/1018976702_1609888498.14/0/javax-servlet-3-0-0-v201112011016-javadoc-jar/javax/servlet/Servlet.html
* /opt/cola/permits/1018976702_1609888498.14/0/javax-servlet-3-0-0-v201112011016-javadoc-jar/javax/servlet/class-use/MultipartConfigElement.html
* /opt/cola/permits/1018976702_1609888498.14/0/javax-servlet-3-0-0-v201112011016-javadoc-jar/javax/servlet/package-summary.html
* /opt/cola/permits/1018976702_1609888498.14/0/javax-servlet-3-0-0-v201112011016-javadoc-jar/javax/servlet/class-use/ServletContextEvent.html
* /opt/cola/permits/1018976702_1609888498.14/0/javax-servlet-3-0-0-v201112011016-javadoc-jar/javax/servlet/descriptor/JspPropertyGroupDescriptor.html
* /opt/cola/permits/1018976702_1609888498.14/0/javax-servlet-3-0-0-v201112011016-javadoc-jar/javax/servlet/annotation/class-use/WebListener.html

- * /opt/cola/permits/1018976702_1609888498.14/0/javax-servlet-3-0-0-v201112011016-javadoc-jar/javax/servlet/class-use/FilterChain.html
- * /opt/cola/permits/1018976702_1609888498.14/0/javax-servlet-3-0-0-v201112011016-javadoc-jar/javax/servlet/class-use/ServletContext.html
- * /opt/cola/permits/1018976702_1609888498.14/0/javax-servlet-3-0-0-v201112011016-javadoc-jar/javax/servlet/annotation/class-use/MultipartConfig.html
- * /opt/cola/permits/1018976702_1609888498.14/0/javax-servlet-3-0-0-v201112011016-javadoc-jar/javax/servlet/descriptor/class-use/JspPropertyGroupDescriptor.html
- * /opt/cola/permits/1018976702_1609888498.14/0/javax-servlet-3-0-0-v201112011016-javadoc-jar/javax/servlet/annotation/ServletSecurity.EmptyRoleSemantic.html
- * /opt/cola/permits/1018976702_1609888498.14/0/javax-servlet-3-0-0-v201112011016-javadoc-jar/javax/servlet/http/HttpServletRequestWrapper.html
- * /opt/cola/permits/1018976702_1609888498.14/0/javax-servlet-3-0-0-v201112011016-javadoc-jar/javax/servlet/class-use/ServletRequestAttributeEvent.html
- * /opt/cola/permits/1018976702_1609888498.14/0/javax-servlet-3-0-0-v201112011016-javadoc-jar/deprecated-list.html
- * /opt/cola/permits/1018976702_1609888498.14/0/javax-servlet-3-0-0-v201112011016-javadoc-jar/javax/servlet/class-use/DispatcherType.html
- * /opt/cola/permits/1018976702_1609888498.14/0/javax-servlet-3-0-0-v201112011016-javadoc-jar/javax/servlet/http/Part.html
- * /opt/cola/permits/1018976702_1609888498.14/0/javax-servlet-3-0-0-v201112011016-javadoc-jar/javax/servlet/annotation/HandlesTypes.html

1.4 byte-buddy 1.7.9

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* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-
jar/net/bytebuddy/jar/asm/xml/SAXAdapter.java
* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-
jar/net/bytebuddy/jar/asm/xml/SAXClassAdapter.java
* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-
jar/net/bytebuddy/jar/asm/xml/SAXModuleAdapter.java
* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-
jar/net/bytebuddy/jar/asm/xml/ASMContentHandler.java
* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-
jar/net/bytebuddy/jar/asm/xml/SAXFieldAdapter.java
* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-
jar/net/bytebuddy/jar/asm/xml/SAXAnnotationAdapter.java
* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-
jar/net/bytebuddy/jar/asm/xml/Processor.java
* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-
jar/net/bytebuddy/jar/asm/xml/SAXCodeAdapter.java

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* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-jar/net/bytebuddy/jar/asm/xml/asm-xml.dtd

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/**

* Creates a new JSRInliner. <i>Subclasses must not use this

* constructor</i>. Instead, they must use the

* {@link #JSRInlinerAdapter(int, MethodVisitor, int, String, String, String, String[])}

* version.

```

*
* @param mv
*     the <code>MethodVisitor</code> to send the resulting inlined
*     method code to (use <code>null</code> for none).
* @param access
*     the method's access flags (see { @link Opcodes}). This
*     parameter also indicates if the method is synthetic and/or
*     deprecated.
* @param name
*     the method's name.
* @param desc
*     the method's descriptor (see { @link Type}).
* @param signature
*     the method's signature. May be <tt>null</tt>.
* @param exceptions
*     the internal names of the method's exception classes (see
*     { @link Type#getInternalName() getInternalName}). May be
*     <tt>null</tt>.
* @throws IllegalStateException
*     If a subclass calls this constructor.
*/

```

Found in path(s):

```

* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-
jar/net/bytebuddy/jar/asm/commons/JSRInlinerAdapter.java

```

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* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-
jar/net/bytebuddy/jar/asm/TypePath.java
* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-
jar/net/bytebuddy/jar/asm/TypeReference.java

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/**

* Creates a new { @link GeneratorAdapter}. *Subclasses must not use this
* constructor*. Instead, they must use the

```

* {@link #GeneratorAdapter(int, MethodVisitor, int, String, String)}
* version.
*
* @param mv
*     the method visitor to which this adapter delegates calls.
* @param access
*     the method's access flags (see {@link Opcodes}).
* @param name
*     the method's name.
* @param desc
*     the method's descriptor (see {@link Type Type}).
* @throws IllegalStateException
*     If a subclass calls this constructor.
*/

```

Found in path(s):

```

* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-
jar/net/bytebuddy/jar/asm/commons/GeneratorAdapter.java

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* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-jar/net/bytebuddy/jar/asm/util/package.html
* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-jar/net/bytebuddy/jar/asm/commons/package.html
* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-jar/net/bytebuddy/jar/asm/tree/package.html
* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-jar/net/bytebuddy/jar/asm/tree/analysis/package.html
* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-jar/net/bytebuddy/jar/asm/package.html
* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-jar/net/bytebuddy/jar/asm/signature/package.html

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* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-

jar/net/bytebuddy/jar/asm/FieldVisitor.java
* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-
jar/net/bytebuddy/jar/asm/tree/InnerClassNode.java
* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-
jar/net/bytebuddy/jar/asm/util/TraceFieldVisitor.java
* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-
jar/net/bytebuddy/jar/asm/CurrentFrame.java
* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-
jar/net/bytebuddy/jar/asm/signature/SignatureVisitor.java
* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-
jar/net/bytebuddy/jar/asm/tree/TryCatchBlockNode.java
* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-
jar/net/bytebuddy/jar/asm/ClassVisitor.java
* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-
jar/net/bytebuddy/jar/asm/util/CheckAnnotationAdapter.java
* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-
jar/net/bytebuddy/jar/asm/util/ASMifier.java
* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-
jar/net/bytebuddy/jar/asm/tree/analysis/SimpleVerifier.java
* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-
jar/net/bytebuddy/jar/asm/tree/analysis/Interpreter.java
* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-
jar/net/bytebuddy/jar/asm/ModuleVisitor.java
* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-
jar/net/bytebuddy/jar/asm/commons/AnnotationRemapper.java
* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-
jar/net/bytebuddy/jar/asm/tree/InvokeDynamicInsnNode.java
* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-
jar/net/bytebuddy/jar/asm/util/CheckModuleAdapter.java
* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-jar/net/bytebuddy/jar/asm/Label.java
* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-
jar/net/bytebuddy/jar/asm/commons/ModuleRemapper.java
* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-
jar/net/bytebuddy/jar/asm/tools/Retrofitter.java
* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-
jar/net/bytebuddy/jar/asm/commons/Remapper.java
* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-
jar/net/bytebuddy/jar/asm/tree/analysis/Frame.java
* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-
jar/net/bytebuddy/jar/asm/MethodWriter.java
* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-
jar/net/bytebuddy/jar/asm/tree/MethodNode.java
* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-
jar/net/bytebuddy/jar/asm/Opcodes.java
* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-
jar/net/bytebuddy/jar/asm/tree/ModuleRequireNode.java
* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-
jar/net/bytebuddy/jar/asm/tree/TypeInsnNode.java

* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-jar/net/bytebuddy/jar/asm/tree/LocalVariableNode.java
* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-jar/net/bytebuddy/jar/asm/tree/analysis/SmallSet.java
* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-jar/net/bytebuddy/jar/asm/tree/ModuleOpenNode.java
* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-jar/net/bytebuddy/jar/asm/tree/JumpInsnNode.java
* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-jar/net/bytebuddy/jar/asm/util/TraceSignatureVisitor.java
* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-jar/net/bytebuddy/jar/asm/util/CheckFieldAdapter.java
* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-jar/net/bytebuddy/jar/asm/tree/analysis/BasicVerifier.java
* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-jar/net/bytebuddy/jar/asm/Handler.java
* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-jar/net/bytebuddy/jar/asm/tree/FieldInsnNode.java
* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-jar/net/bytebuddy/jar/asm/commons/ModuleResolutionAttribute.java
* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-jar/net/bytebuddy/jar/asm/tree/MethodInsnNode.java
* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-jar/net/bytebuddy/jar/asm/util/TraceModuleVisitor.java
* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-jar/net/bytebuddy/jar/asm/tree/MultiANewArrayInsnNode.java
* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-jar/net/bytebuddy/jar/asm/commons/LocalVariablesSorter.java
* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-jar/net/bytebuddy/jar/asm/util/CheckClassAdapter.java
* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-jar/net/bytebuddy/jar/asm/tree/ParameterNode.java
* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-jar/net/bytebuddy/jar/asm/commons/MethodRemapper.java
* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-jar/net/bytebuddy/jar/asm/util/TraceAnnotationVisitor.java
* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-jar/net/bytebuddy/jar/asm/tree/LineNumberNode.java
* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-jar/net/bytebuddy/jar/asm/commons/ModuleTargetAttribute.java
* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-jar/net/bytebuddy/jar/asm/commons/RemappingClassAdapter.java
* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-jar/net/bytebuddy/jar/asm/tree/analysis/Subroutine.java
* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-jar/net/bytebuddy/jar/asm/ClassWriter.java
* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-jar/net/bytebuddy/jar/asm/commons/FieldRemapper.java

* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-jar/net/bytebuddy/jar/asm/commons/SignatureRemapper.java
* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-jar/net/bytebuddy/jar/asm/tree/analysis/AnalyzerException.java
* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-jar/net/bytebuddy/jar/asm/commons/TryCatchBlockSorter.java
* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-jar/net/bytebuddy/jar/asm/tree/analysis/SourceValue.java
* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-jar/net/bytebuddy/jar/asm/ClassReader.java
* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-jar/net/bytebuddy/jar/asm/commons/InstructionAdapter.java
* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-jar/net/bytebuddy/jar/asm/signature/SignatureReader.java
* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-jar/net/bytebuddy/jar/asm/commons/RemappingAnnotationAdapter.java
* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-jar/net/bytebuddy/jar/asm/signature/SignatureWriter.java
* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-jar/net/bytebuddy/jar/asm/util/CheckMethodAdapter.java
* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-jar/net/bytebuddy/jar/asm/tree/FieldNode.java
* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-jar/net/bytebuddy/jar/asm/commons/RemappingSignatureAdapter.java
* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-jar/net/bytebuddy/jar/asm/Item.java
* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-jar/net/bytebuddy/jar/asm/commons/SerialVersionUIDAdder.java
* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-jar/net/bytebuddy/jar/asm/util/TraceMethodVisitor.java
* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-jar/net/bytebuddy/jar/asm/tree/ModuleNode.java
* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-jar/net/bytebuddy/jar/asm/Context.java
* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-jar/net/bytebuddy/jar/asm/commons/TableSwitchGenerator.java
* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-jar/net/bytebuddy/jar/asm/FieldWriter.java
* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-jar/net/bytebuddy/jar/asm/Attribute.java
* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-jar/net/bytebuddy/jar/asm/tree/AnnotationNode.java
* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-jar/net/bytebuddy/jar/asm/commons/Method.java
* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-jar/net/bytebuddy/jar/asm/commons/RemappingMethodAdapter.java
* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-jar/net/bytebuddy/jar/asm/tools/ModuleInfoBndPlugin.java
* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-

jar/net/bytebuddy/jar/asm/tree/ModuleProvideNode.java
* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-
jar/net/bytebuddy/jar/asm/tree/InsnNode.java
* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-
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* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-
jar/net/bytebuddy/jar/asm/tree/ModuleExportNode.java
* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-
jar/net/bytebuddy/jar/asm/util/Printer.java
* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-
jar/net/bytebuddy/jar/asm/tree/InsnList.java
* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-
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* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-
jar/net/bytebuddy/jar/asm/tree/TypeAnnotationNode.java
* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-
jar/net/bytebuddy/jar/asm/tree/TableSwitchInsnNode.java
* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-
jar/net/bytebuddy/jar/asm/tree/VarInsnNode.java
* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-jar/net/bytebuddy/jar/asm/Type.java
* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-jar/net/bytebuddy/jar/asm/Edge.java
* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-
jar/net/bytebuddy/jar/asm/commons/ModuleHashesAttribute.java
* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-
jar/net/bytebuddy/jar/asm/tree/IincInsnNode.java
* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-
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* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-
jar/net/bytebuddy/jar/asm/tree/analysis/Analyzer.java
* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-
jar/net/bytebuddy/jar/asm/AnnotationWriter.java
* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-
jar/net/bytebuddy/jar/asm/tree/analysis/BasicValue.java
* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-
jar/net/bytebuddy/jar/asm/ByteVector.java
* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-
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* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-
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* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-
jar/net/bytebuddy/jar/asm/commons/CodeSizeEvaluator.java
* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-
jar/net/bytebuddy/jar/asm/util/CheckSignatureAdapter.java
* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-
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* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-
jar/net/bytebuddy/jar/asm/util/TraceClassVisitor.java
* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-

jar/net/bytebuddy/jar/asm/commons/AdviceAdapter.java
* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-
jar/net/bytebuddy/jar/asm/AnnotationVisitor.java
* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-
jar/net/bytebuddy/jar/asm/tree/AbstractInsnNode.java
* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-
jar/net/bytebuddy/jar/asm/Handle.java
* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-
jar/net/bytebuddy/jar/asm/commons/SimpleRemapper.java
* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-jar/net/bytebuddy/jar/asm/Frame.java
* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-
jar/net/bytebuddy/jar/asm/MethodVisitor.java
* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-
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* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-
jar/net/bytebuddy/jar/asm/commons/StaticInitMerger.java
* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-
jar/net/bytebuddy/jar/asm/tree/analysis/Value.java
* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-
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* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-
jar/net/bytebuddy/jar/asm/ModuleWriter.java

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*/

/**

* Creates a new { @link AnalyzerAdapter}. *Subclasses must not use this*
* constructor*.* Instead, they must use the
* { @link #AnalyzerAdapter(int, String, int, String, String, MethodVisitor)}
* version.
*
* @param owner
* the owner's class name.
* @param access
* the method's access flags (see { @link Opcodes}).
* @param name
* the method's name.
* @param desc
* the method's descriptor (see { @link Type Type}).
* @param mv
* the method visitor to which this adapter delegates calls. May
* be `null`.
* @throws IllegalStateException
* If a subclass calls this constructor.
*/

Found in path(s):

* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-
jar/net/bytebuddy/jar/asm/commons/AnalyzerAdapter.java

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* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-
jar/net/bytebuddy/jar/asm/xml/package.html

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*/

/**

* Constructs a new {@link LocalVariableAnnotationNode}. <i>Subclasses must

* not use this constructor</i>. Instead, they must use the

* {@link #LocalVariableAnnotationNode(int, TypePath, LabelNode[], LabelNode[], int[], String)}

```

* version.
*
* @param typeRef
*     a reference to the annotated type. See { @link TypeReference }.
* @param typePath
*     the path to the annotated type argument, wildcard bound, array
*     element type, or static inner type within 'typeRef'. May be
*     <tt>null</tt> if the annotation targets 'typeRef' as a whole.
* @param start
*     the first instructions corresponding to the continuous ranges
*     that make the scope of this local variable (inclusive).
* @param end
*     the last instructions corresponding to the continuous ranges
*     that make the scope of this local variable (exclusive). This
*     array must have the same size as the 'start' array.
* @param index
*     the local variable's index in each range. This array must have
*     the same size as the 'start' array.
* @param desc
*     the class descriptor of the annotation class.
*/

```

Found in path(s):

```

* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-
jar/net/bytebuddy/jar/asm/tree/LocalVariableAnnotationNode.java

```

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```

/**

```

```

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* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-
jar/net/bytebuddy/jar/asm/util/Textifiable.java

* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-
jar/net/bytebuddy/jar/asm/util/ASMifiable.java

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*/

/**

* Constructs a new {@link ClassNode}. *<i>Subclasses must not use this*

* constructor*</i>. Instead, they must use the {@link #ClassNode(int)}*

```
* version.  
*  
* @throws IllegalStateException  
*     If a subclass calls this constructor.  
*/
```

Found in path(s):

```
* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-  
jar/net/bytebuddy/jar/asm/tree/ClassNode.java
```

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```
/**
```

```
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```

```
*/
```

```
/**
```

```
* Constructs a new {@link Textifier}. <i>Subclasses must not use this  
* constructor</i>. Instead, they must use the {@link #Textifier(int)}  
* version.  
*  
* @throws IllegalStateException  
*     If a subclass calls this constructor.  
*/
```

Found in path(s):

* /opt/cola/permits/1143010021_1615506896.9/0/byte-buddy-1-7-9-sources-1-jar/net/bytebuddy/jar/asm/util/Textifier.java

1.5 objenesis 2.2

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1.7 apache-commons-beanutils 1.8.3

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1.8 sac 1.3

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  "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
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```

```
<meta http-equiv="Content-Type" content="text/html; charset=iso-8859-1" />
<style type='text/css'>
  body { background: white; color: black; }
</style>
</head>

<body>
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</html>

1.9 google-guava 16.0.1

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* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
jar/io/netty/example/http/snoop/HttpSnoopServerInitializer.java
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* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
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* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
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* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
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* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
jar/io/netty/example/proxy/HexDumpProxy.java
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
jar/io/netty/channel/SingleThreadEventLoop.java
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
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* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
jar/io/netty/example/udt/echo/message/MsgEchoServerHandler.java
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
jar/io/netty/handler/codec/http/HttpContentEncoder.java
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
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* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
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* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
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jar/io/netty/util/HashedWheelTimer.java
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* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
jar/io/netty/example/echo/EchoClient.java
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
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* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-jar/io/netty/util/internal/Cleaner.java

* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-jar/io/netty/util/internal/CleanerJava9.java

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jar/io/netty/util/internal/logging/JdkLogger.java
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
jar/io/netty/util/internal/logging/CommonsLogger.java
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
jar/io/netty/util/internal/logging/InternalLogger.java
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
jar/io/netty/util/internal/logging/Log4JLogger.java

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- * /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-jar/io/netty/handler/codec/http/cookie/Cookie.java
- * /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-jar/io/netty/handler/codec/http/cookie/CookieDecoder.java
- * /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-jar/io/netty/channel/pool/ChannelPoolHandler.java
- * /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-jar/io/netty/channel/unix/DomainSocketReadMode.java
- * /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-jar/io/netty/buffer/UnsafeByteBufUtil.java
- * /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-jar/io/netty/channel/pool/SimpleChannelPool.java
- * /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-jar/io/netty/example/sctp/multihoming/SctpMultiHomingEchoClient.java
- * /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-jar/io/netty/handler/codec/ProtocolDetectionResult.java
- * /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-jar/io/netty/buffer/PooledUnsafeHeapByteBuf.java
- * /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-jar/io/netty/handler/codec/http/cookie/CookieEncoder.java
- * /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-jar/io/netty/buffer/PoolChunkListMetric.java
- * /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-jar/io/netty/util/DomainMappingBuilder.java
- * /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-jar/io/netty/channel/epoll/EpollDomainSocketChannelConfig.java
- * /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-jar/io/netty/channel/unix/NativeInetAddress.java
- * /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-jar/io/netty/handler/ssl/OpenSslJavaxX509Certificate.java
- * /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-jar/io/netty/buffer/PoolSubpageMetric.java
- * /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-jar/io/netty/channel/unix/DatagramSocketAddress.java
- * /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-jar/io/netty/handler/codec/http/cookie/package-info.java
- * /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-jar/io/netty/handler/ssl/ClientAuth.java
- * /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-jar/io/netty/handler/codec/http/cookie/ServerCookieDecoder.java
- * /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-jar/io/netty/channel/epoll/EpollChannelConfig.java
- * /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-jar/io/netty/channel/epoll/EpollServerChannelConfig.java
- * /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-

jar/io/netty/handler/codec/rtsp/RtspDecoder.java
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
jar/io/netty/channel/unix/UnixChannel.java
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
jar/io/netty/handler/codec/http/cookie/DefaultCookie.java
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
jar/io/netty/channel/unix/ServerDomainSocketChannel.java
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
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* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
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* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
jar/io/netty/channel/epoll/EpollEventArray.java
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
jar/io/netty/util/concurrent/ThreadProperties.java
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
jar/io/netty/channel/epoll/AbstractEpollServerChannel.java
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
jar/io/netty/channel/unix/DomainSocketAddress.java
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
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* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
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* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
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jar/io/netty/handler/ssl/ApplicationProtocolAccessor.java
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
jar/io/netty/buffer/PoolArenaMetric.java
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
jar/io/netty/util/concurrent/AbstractScheduledEventExecutor.java
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
jar/io/netty/channel/pool/ChannelPool.java
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
jar/io/netty/handler/codec/http/cookie/ClientCookieEncoder.java
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
jar/io/netty/buffer/DuplicatedAbstractByteBuf.java
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
jar/io/netty/handler/codec/http/CookieUtil.java
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
jar/io/netty/handler/codec/rtsp/RtspEncoder.java
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jar/io/netty/example/sctp/multihoming/SctpMultiHomingEchoServer.java
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
jar/io/netty/handler/codec/http/cookie/ClientCookieDecoder.java
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
jar/io/netty/channel/unix/DomainSocketChannel.java
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
jar/io/netty/channel/epoll/EpollDomainSocketChannel.java
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
jar/io/netty/handler/codec/http/cookie/ServerCookieEncoder.java
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
jar/io/netty/buffer/HeapByteBufUtil.java
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
jar/io/netty/handler/ssl/ApplicationProtocolNames.java
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
jar/io/netty/channel/pool/package-info.java
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
jar/io/netty/util/internal/LongCounter.java
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
jar/io/netty/buffer/PoolChunkMetric.java
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
jar/io/netty/channel/pool/ChannelHealthChecker.java
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
jar/io/netty/channel/pool/AbstractChannelPoolMap.java
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
jar/io/netty/handler/ssl/OpenSslSessionTicketKey.java
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
jar/io/netty/buffer/AbstractUnsafeSwappedByteBuf.java
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
jar/io/netty/channel/pool/ChannelPoolMap.java
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
jar/io/netty/buffer/SlicedAbstractByteBuf.java
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
jar/io/netty/channel/unix/DomainSocketChannelConfig.java
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
jar/io/netty/channel/unix/FileDescriptor.java
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
jar/io/netty/handler/codec/http/cookie/CookieHeaderNames.java
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
jar/io/netty/buffer/UnpooledUnsafeHeapByteBuf.java
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
jar/io/netty/handler/codec/http/cookie/CookieUtil.java
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
jar/io/netty/channel/epoll/EpollMode.java
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
jar/io/netty/handler/ssl/ApplicationProtocolNegotiationHandler.java
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
jar/io/netty/channel/unix/Errors.java
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-

jar/io/netty/channel/pool/FixedChannelPool.java

* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-

jar/io/netty/handler/codec/http/HttpExpectationFailedEvent.java

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jar/io/netty/internal/tcnative/SSLContext.java

* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-

jar/io/netty/internal/tcnative/Buffer.java

* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-

jar/io/netty/internal/tcnative/SSL.java

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 * /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
jar/io/netty/channel/sctp/SctpChannelOption.java
 * /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
jar/io/netty/channel/rxtx/DefaultRxtxChannelConfig.java
 * /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
jar/io/netty/channel/rxtx/RxtxChannelConfig.java
 * /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
jar/io/netty/channel/rxtx/RxtxChannel.java
 * /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
jar/io/netty/channel/rxtx/RxtxDeviceAddress.java
 * /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
jar/io/netty/channel/oio/OioByteStreamChannel.java
 * /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
jar/io/netty/channel/rxtx/RxtxChannelOption.java
 * /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
jar/io/netty/channel/udt/UdtServerChannel.java
 * /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
jar/io/netty/channel/rxtx/package-info.java
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- * /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-jar/io/netty/handler/ssl/PemValue.java
- * /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-jar/io/netty/handler/ssl/DelegatingSslContext.java
- * /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-jar/io/netty/util/concurrent/RejectedExecutionHandlers.java
- * /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-jar/io/netty/util/internal/logging/Log4J2LoggerFactory.java
- * /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-jar/io/netty/handler/codec/CodecOutputList.java
- * /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-jar/io/netty/util/internal/logging/Log4J2Logger.java
- * /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-jar/io/netty/handler/codec/haproxy/HAProxySSLTLV.java
- * /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-jar/io/netty/handler/ssl/ReferenceCountedOpenSslContext.java
- * /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-jar/io/netty/util/ResourceLeakDetectorFactory.java
- * /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-jar/io/netty/util/internal/PromiseNotificationUtil.java
- * /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-jar/io/netty/handler/ssl/PemEncoded.java
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- * /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-jar/io/netty/handler/ssl/ReferenceCountedOpenSslClientContext.java
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* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
jar/io/netty/handler/codec/haproxy/HAProxyMessageDecoder.java
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
jar/io/netty/util/internal/InternalThreadLocalMap.java
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
jar/io/netty/handler/ssl/util/InsecureTrustManagerFactory.java
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
jar/io/netty/example/http/websocketx/benchmarkserver/package-info.java
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
jar/io/netty/example/http/websocketx/benchmarkserver/WebSocketServer.java
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
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* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
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* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
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* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
jar/io/netty/handler/codec/spdy/SpdyFrameDecoderDelegate.java
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* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
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* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
jar/io/netty/util/internal/UnpaddedInternalThreadLocalMap.java
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-

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* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
jar/io/netty/example/spdy/client/SpdyClient.java
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jar/io/netty/handler/ssl/IdentityCipherSuiteFilter.java
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
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jar/io/netty/channel/epoll/EpollServerSocketChannel.java
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* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
jar/io/netty/util/collection/package-info.java
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
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jar/io/netty/handler/ssl/CipherSuiteFilter.java
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jar/io/netty/channel/PendingWriteQueue.java
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jar/io/netty/handler/ssl/OpenSslClientContext.java
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
jar/io/netty/handler/codec/haproxy/HAProxyProxiedProtocol.java
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jar/io/netty/example/spdy/server/SpdyServer.java
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
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jar/io/netty/handler/ssl/OpenSslX509Certificate.java
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 * under the License.
 */
/*
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 */
/**
 * Utility class for { @link ByteBuf } that encodes and decodes to and from
 * <a href="http://en.wikipedia.org/wiki/Base64">Base64</a> notation.
 * <p>
 * The encoding and decoding algorithm in this class has been derived from
 * <a href="http://iharder.sourceforge.net/current/java/base64/">Robert Harder's Public Domain
 * Base64 Encoder/Decoder</a>.
 */
```

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* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-jar/io/netty/handler/codec/sctp/package-info.java
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-jar/io/netty/handler/traffic/ChannelTrafficShapingHandler.java
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-jar/io/netty/handler/codec/sctp/SctpMessageToMessageDecoder.java
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-jar/io/netty/channel/udt/nio/NioUdtAcceptorChannel.java
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-jar/io/netty/channel/udt/nio/NioUdtByteConnectorChannel.java
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* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-jar/io/netty/channel/udt/nio/NioUdtMessageConnectorChannel.java
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-jar/io/netty/channel/udt/nio/NioUdtByteAcceptorChannel.java
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-jar/io/netty/channel/udt/nio/NioUdtByteRendezvousChannel.java
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-jar/io/netty/handler/codec/sctp/SctpInboundByteStreamHandler.java
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-jar/io/netty/handler/codec/sctp/SctpMessageCompletionHandler.java
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-jar/io/netty/handler/traffic/GlobalTrafficShapingHandler.java
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-jar/io/netty/channel/udt/nio/NioUdtMessageRendezvousChannel.java
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-jar/io/netty/channel/udt/nio/NioUdtProvider.java
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-jar/io/netty/handler/traffic/package-info.java

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*/
/**
 * Set the {@code TCP_MD5SIG} option on the socket. See {@code linux/tcp.h} for more details.
 * Keys can only be set on, not read to prevent a potential leak, as they are confidential.
 * Allowing them being read would mean anyone with access to the channel could get them.
 */
/**
 * Set the {@code TCP_QUICKACK} option on the socket. See <a
href="http://linux.die.net/man/7/tcp">TCP_QUICKACK</a>
 * for more details.
 */

```

Found in path(s):

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* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
jar/io/netty/channel/epoll/EpollSocketChannelConfig.java

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jar/io/netty/handler/codec/spdy/DefaultSpdyGoAwayFrame.java
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
jar/io/netty/util/concurrent/DefaultFutureListeners.java
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
jar/io/netty/handler/codec/http/DefaultFullHttpResponse.java
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
jar/io/netty/util/concurrent/AbstractFuture.java
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-

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jar/io/netty/handler/codec/spdy/SpdyStreamFrame.java
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
jar/io/netty/util/concurrent/DefaultThreadFactory.java
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jar/io/netty/channel/epoll/Native.java
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
jar/io/netty/buffer/ByteBufProcessor.java
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
jar/io/netty/handler/codec/spdy/SpdyHeadersFrame.java
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jar/io/netty/util/AbstractReferenceCounted.java
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jar/io/netty/channel/ConnectTimeoutException.java
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jar/io/netty/util/Recycler.java
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jar/io/netty/channel/socket/oio/OioServerSocketChannelConfig.java
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jar/io/netty/example/http/helloworld/HttpHelloWorldServerHandler.java
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jar/io/netty/util/concurrent/PromiseTask.java
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jar/io/netty/util/concurrent/AbstractEventExecutorGroup.java
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
jar/io/netty/channel/udt/UdtChannelOption.java
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* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
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* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-jar/io/netty/handler/codec/spdy/DefaultSpdyPingFrame.java
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-jar/io/netty/handler/codec/spdy/SpdySynStreamFrame.java
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-jar/io/netty/util/internal/PendingWrite.java

* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-jar/io/netty/buffer/AbstractDerivedByteBuf.java

* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-jar/io/netty/handler/codec/http/FullHttpRequest.java

* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-jar/io/netty/channel/AddressedEnvelope.java

* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-jar/io/netty/util/internal/EmptyArrays.java

* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-jar/io/netty/buffer/EmptyByteBuf.java

* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-jar/io/netty/util/concurrent/Future.java

* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-jar/io/netty/buffer/FixedCompositeByteBuf.java

* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-jar/io/netty/handler/codec/socks/SocksProtocolVersion.java

* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-jar/io/netty/util/internal/RecyclableArrayList.java

* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-jar/io/netty/channel/DefaultChannelProgressivePromise.java

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* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-jar/io/netty/handler/codec/socks/SocksSubnegotiationVersion.java

* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-jar/io/netty/util/internal/TypeParameterMatcher.java

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* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-jar/io/netty/channel/DefaultAddressedEnvelope.java

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* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-jar/io/netty/handler/codec/spdy/SpdyStreamStatus.java

* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-jar/io/netty/handler/codec/http/FullHttpResponse.java

* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-jar/io/netty/handler/codec/spdy/DefaultSpdyRstStreamFrame.java

* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-jar/io/netty/channel/ChannelProgressivePromise.java

* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-jar/io/netty/handler/codec/spdy/DefaultSpdyWindowUpdateFrame.java

* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-jar/io/netty/handler/codec/spdy/SpdySessionStatus.java

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* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-jar/io/netty/channel/ChannelProgressiveFutureListener.java
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-jar/io/netty/util/concurrent/package-info.java
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* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-jar/io/netty/channel/ChannelHandlerAdapter.java
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* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-jar/io/netty/handler/codec/spdy/SpdyHeaderBlockJZlibEncoder.java
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-jar/io/netty/buffer/ReadOnlyUnsafeDirectByteBuf.java
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-jar/io/netty/buffer/SimpleLeakAwareByteBuf.java
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-jar/io/netty/channel/socket/oio/DefaultOioSocketChannelConfig.java
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-jar/io/netty/channel/udt/UdtServerChannelConfig.java
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* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-jar/io/netty/handler/codec/spdy/SpdyHttpCodec.java

* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-jar/io/netty/util/concurrent/FutureListener.java

* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-jar/io/netty/buffer/UnreleasableByteBuf.java

* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-jar/io/netty/handler/codec/socks/SocksMessageType.java

* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-jar/io/netty/util/internal/logging/package-info.java

* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-jar/io/netty/util/concurrent/ImmediateEventExecutor.java

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* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketFrameEncoder.java

* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-jar/io/netty/handler/codec/spdy/SpdyVersion.java

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* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-jar/io/netty/util/concurrent/GenericFutureListener.java

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* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-jar/io/netty/handler/codec/spdy/SpdyHeaderBlockEncoder.java

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* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-jar/io/netty/handler/codec/spdy/SpdyGoAwayFrame.java

* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-jar/io/netty/handler/codec/spdy/DefaultSpdyHeaders.java

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* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-jar/io/netty/util/ResourceLeakException.java
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-jar/io/netty/handler/codec/spdy/SpdyRstStreamFrame.java
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketProtocolHandler.java
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* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-jar/io/netty/util/ResourceLeak.java
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* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-jar/io/netty/channel/SimpleChannelInboundHandler.java
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-jar/io/netty/buffer/PooledUnsafeDirectByteBuf.java
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* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-jar/io/netty/handler/codec/socks/SocksCmdStatus.java
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-jar/io/netty/handler/codec/spdy/SpdySettingsFrame.java
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jar/io/netty/util/collection/IntObjectHashMap.java
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* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
jar/io/netty/buffer/UnsafeDirectSwappedByteBuf.java
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
jar/io/netty/channel/DefaultChannelHandlerContext.java
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
jar/io/netty/util/concurrent/FastThreadLocalThread.java
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
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jar/io/netty/example/ocsp/OcspUtils.java
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
jar/io/netty/example/ocsp/OcspRequestBuilder.java
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jar/io/netty/example/ocsp/OcspServerExample.java
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
jar/io/netty/example/ocsp/Digester.java
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* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
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jar/io/netty/example/worldclock/WorldClockProtocol.proto
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
jar/io/netty/channel/sctp/SctpChannelConfig.java
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
jar/io/netty/channel/sctp/SctpNotificationHandler.java
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
jar/io/netty/channel/sctp/DefaultSctpChannelConfig.java
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
jar/io/netty/channel/sctp/nio/NioSctpChannel.java
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
jar/io/netty/channel/sctp/SctpServerChannel.java
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
jar/io/netty/channel/sctp/SctpServerChannelConfig.java
```

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*/
/**
 * Set the { @code TCP_MD5SIG } option on the socket. See { @code linux/tcp.h } for more details.
 * Keys can only be set on, not read to prevent a potential leak, as they are confidential.
 * Allowing them being read would mean anyone with access to the channel could get them.
 */
```

Found in path(s):

```
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
jar/io/netty/channel/epoll/EpollServerSocketChannelConfig.java
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*/
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 * http://creativecommons.org/licenses/publicdomain
 */
/**
 * Enumeration of supported Base64 dialects.
 * <p>
 * The internal lookup tables in this class has been derived from
 * <a href="http://iharder.sourceforge.net/current/java/base64/">Robert Harder's Public Domain
 * Base64 Encoder/Decoder</a>.
 */
```

Found in path(s):

* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-jar/io/netty/handler/codec/base64/Base64Dialect.java

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* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-jar/io/netty/handler/traffic/TrafficCounter.java

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* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
jar/io/netty/util/internal/logging/FormattingTuple.java
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
jar/io/netty/util/internal/logging/MessageFormatter.java

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*/
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* Adaptation of <http://bjoern.hoehrmann.de/utf-8/decoder/dfa/>
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* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-jar/io/netty/handler/codec/http/websocketx/Utf8Validator.java
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*/opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
jar/io/netty/buffer/PooledHeapByteBuf.java

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*/

/**

* Handles or intercepts a {@link ChannelInboundInvoker} or {@link ChannelOutboundInvoker} operation, and forwards it

* to the next handler in a {@link ChannelPipeline}.

*

* <h3>Sub-types</h3>

* <p>

* {@link ChannelHandler} itself does not provide many methods. To handle a
* a {@link ChannelInboundInvoker} or {@link ChannelOutboundInvoker} operation
* you need to implement its sub-interfaces. There are many different sub-interfaces
* which handles inbound and outbound operations.

*

* But the most useful for developers may be:

*

* {@link ChannelInboundHandlerAdapter} handles and intercepts inbound operations

* {@link ChannelOutboundHandlerAdapter} handles and intercepts outbound operations

*

*

* You will also find more detailed explanation from the documentation of
* each sub-interface on how an event is interpreted when it goes upstream and
* downstream respectively.

*

* <h3>The context object</h3>

* <p>

* A { @link ChannelHandler } is provided with a { @link ChannelHandlerContext } object. A { @link ChannelHandler } is supposed to interact with the { @link ChannelPipeline } it belongs to via a context object. Using the context object, the { @link ChannelHandler } can pass events upstream or downstream, modify the pipeline dynamically, or store the information (using { @link AttributeKey }s) which is specific to the handler.

*

* <h3>State management</h3>

*

* A { @link ChannelHandler } often needs to store some stateful information. The simplest and recommended approach is to use member variables:

* <pre>

* public interface Message {

* // your methods here

* }

*

* public class DataServerHandler extends { @link SimpleChannelInboundHandler }<Message> {

*

* private boolean loggedIn;

*

* { @code @Override }

* public void channelRead0({ @link ChannelHandlerContext } ctx, Message message) {

* { @link Channel } ch = e.getChannel();

* if (message instanceof LoginMessage) {

* authenticate((LoginMessage) message);

* loggedIn = true;

* } else (message instanceof GetDataMessage) {

* if (loggedIn) {

* ch.write(fetchSecret((GetDataMessage) message));

* } else {

* fail();

* }

* }

*

* ...

*

* </pre>

* Because the handler instance has a state variable which is dedicated to one connection, you have to create a new handler instance for each new channel to avoid a race condition where a unauthenticated client can get the confidential information:

* <pre>

* // Create a new handler instance per channel.

* // See { @link ChannelInitializer#initChannel(Channel)}.

* public class DataServerInitializer extends { @link ChannelInitializer }<{ @link Channel }> {

* { @code @Override }

```

* public void initChannel({ @link Channel} channel) {
*     channel.pipeline().addLast("handler", <b>new DataServerHandler()</b>);
* }
* }
*
* </pre>
*
* <h4>Using { @link AttributeKey}</h4>
*
* Although it's recommended to use member variables to store the state of a
* handler, for some reason you might not want to create many handler instances.
* In such a case, you can use { @link AttributeKey}s which is provided by
* { @link ChannelHandlerContext}:
* <pre>
* public interface Message {
*     // your methods here
* }
*
* { @code @Sharable}
* public class DataServerHandler extends { @link SimpleChannelInboundHandler}&lt;Message&gt; {
*     private final { @link AttributeKey}&lt;Boolean&gt; auth =
*         { @link AttributeKey#valueOf(String) AttributeKey.valueOf("auth")};
*
*     { @code @Override}
*     public void channelRead({ @link ChannelHandlerContext} ctx, Message message) {
*         { @link Attribute}&lt;Boolean&gt; attr = ctx.attr(auth);
*         { @link Channel} ch = ctx.channel();
*         if (message instanceof LoginMessage) {
*             authenticate((LoginMessage) o);
*             <b>attr.set(true)</b>;
*         } else (message instanceof GetDataMessage) {
*             if (<b>Boolean.TRUE.equals(attr.get())</b>) {
*                 ch.write(fetchSecret((GetDataMessage) o));
*             } else {
*                 fail();
*             }
*         }
*     }
* }
* ...
* }
* </pre>
*
* Now that the state of the handler is attached to the { @link ChannelHandlerContext}, you can add the
* same handler instance to different pipelines:
* <pre>
* public class DataServerInitializer extends { @link ChannelInitializer}&lt;Channel&gt; {
*
*     private static final DataServerHandler <b>SHARED</b> = new DataServerHandler();
*
* }

```

```

*   { @code @Override }
*   public void initChannel({ @link Channel } channel) {
*       channel.pipeline().addLast("handler", <b>SHARED</b>);
*   }
* }
* </pre>
*
*
* <h4>The { @code @Sharable } annotation</h4>
* <p>
* In the example above which used an { @link AttributeKey },
* you might have noticed the { @code @Sharable } annotation.
* <p>
* If a { @link ChannelHandler } is annotated with the { @code @Sharable }
* annotation, it means you can create an instance of the handler just once and
* add it to one or more { @link ChannelPipeline }s multiple times without
* a race condition.
* <p>
* If this annotation is not specified, you have to create a new handler
* instance every time you add it to a pipeline because it has unshared state
* such as member variables.
* <p>
* This annotation is provided for documentation purpose, just like
* <a href="http://www.javaconcurrencyinpractice.com/annotations/doc/">the JCIP annotations</a>.
*
* <h3>Additional resources worth reading</h3>
* <p>
* Please refer to the { @link ChannelHandler }, and
* { @link ChannelPipeline } to find out more about inbound and outbound operations,
* what fundamental differences they have, how they flow in a pipeline, and how to handle
* the operation in your application.
*/

```

Found in path(s):

* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-jar/io/netty/channel/ChannelHandler.java

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*/
 /**

* A decoder that splits the received {@link ByteBuf}s dynamically by the
 * value of the length field in the message. It is particularly useful when you
 * decode a binary message which has an integer header field that represents the
 * length of the message body or the whole message.

* <p>

* {@link LengthFieldBasedFrameDecoder} has many configuration parameters so
 * that it can decode any message with a length field, which is often seen in
 * proprietary client-server protocols. Here are some example that will give
 * you the basic idea on which option does what.

*

* <h3>2 bytes length field at offset 0, do not strip header</h3>

*

* The value of the length field in this example is <tt>12 (0x0C)</tt> which
 * represents the length of "HELLO, WORLD". By default, the decoder assumes
 * that the length field represents the number of the bytes that follows the
 * length field. Therefore, it can be decoded with the simplistic parameter
 * combination.

* <pre>

```
* <b>lengthFieldOffset</b> = <b>0</b>
* <b>lengthFieldLength</b> = <b>2</b>
* lengthAdjustment = 0
* initialBytesToStrip = 0 (= do not strip header)
```

*

* BEFORE DECODE (14 bytes) AFTER DECODE (14 bytes)

```
* +-----+-----+      +-----+-----+
* | Length | Actual Content |-----| Length | Actual Content |
* | 0x000C | "HELLO, WORLD" |      | 0x000C | "HELLO, WORLD" |
```

* </pre>

*

* <h3>2 bytes length field at offset 0, strip header</h3>

*

* Because we can get the length of the content by calling
 * {@link ByteBuf#readableBytes()}, you might want to strip the length
 * field by specifying <tt>initialBytesToStrip</tt>. In this example, we
 * specified <tt>2</tt>, that is same with the length of the length field, to
 * strip the first two bytes.

* <pre>

```
* lengthFieldOffset = 0
* lengthFieldLength = 2
* lengthAdjustment = 0
* <b>initialBytesToStrip</b> = <b>2</b> (= the length of the Length field)
```

```

*
* BEFORE DECODE (14 bytes)      AFTER DECODE (12 bytes)
* +-----+-----+-----+ +-----+
* | Length | Actual Content |---->| Actual Content |
* | 0x000C | "HELLO, WORLD" |   | "HELLO, WORLD" |
* +-----+-----+-----+ +-----+
* </pre>
*
* <h3>2 bytes length field at offset 0, do not strip header, the length field
*   represents the length of the whole message</h3>
*
* In most cases, the length field represents the length of the message body
* only, as shown in the previous examples. However, in some protocols, the
* length field represents the length of the whole message, including the
* message header. In such a case, we specify a non-zero
* <tt>lengthAdjustment</tt>. Because the length value in this example message
* is always greater than the body length by <tt>2</tt>, we specify <tt>-2</tt>
* as <tt>lengthAdjustment</tt> for compensation.

```

```

* <pre>
* lengthFieldOffset = 0
* lengthFieldLength = 2
* <b>lengthAdjustment</b> = <b>-2</b> (= the length of the Length field)
* initialBytesToStrip = 0

```

```

*
* BEFORE DECODE (14 bytes)      AFTER DECODE (14 bytes)
* +-----+-----+-----+ +-----+-----+
* | Length | Actual Content |---->| Length | Actual Content |
* | 0x000E | "HELLO, WORLD" |   | 0x000E | "HELLO, WORLD" |
* +-----+-----+-----+ +-----+-----+
* </pre>
*
* <h3>3 bytes length field at the end of 5 bytes header, do not strip header</h3>

```

```

*
* The following message is a simple variation of the first example. An extra
* header value is prepended to the message. <tt>lengthAdjustment</tt> is zero
* again because the decoder always takes the length of the prepended data into
* account during frame length calculation.

```

```

* <pre>
* <b>lengthFieldOffset</b> = <b>2</b> (= the length of Header 1)
* <b>lengthFieldLength</b> = <b>3</b>
* lengthAdjustment = 0
* initialBytesToStrip = 0

```

```

*
* BEFORE DECODE (17 bytes)      AFTER DECODE (17 bytes)
* +-----+-----+-----+ +-----+-----+
* | Header 1 | Length | Actual Content |---->| Header 1 | Length | Actual Content |
* | 0xCAFE | 0x00000C | "HELLO, WORLD" |   | 0xCAFE | 0x00000C | "HELLO, WORLD" |
* +-----+-----+-----+ +-----+-----+

```

```

* </pre>
*
* <h3>3 bytes length field at the beginning of 5 bytes header, do not strip header</h3>
*
* This is an advanced example that shows the case where there is an extra
* header between the length field and the message body. You have to specify a
* positive <tt>lengthAdjustment</tt> so that the decoder counts the extra
* header into the frame length calculation.
* <pre>
* lengthFieldOffset = 0
* lengthFieldLength = 3
* <b>lengthAdjustment</b> = <b>2</b> (= the length of Header 1)
* initialBytesToStrip = 0
*
* BEFORE DECODE (17 bytes)          AFTER DECODE (17 bytes)
* +-----+-----+-----+-----+ +-----+-----+-----+-----+
* | Length | Header 1 | Actual Content |---->| Length | Header 1 | Actual Content |
* | 0x00000C | 0xCAFE | "HELLO, WORLD" |   | 0x00000C | 0xCAFE | "HELLO, WORLD" |
* +-----+-----+-----+-----+ +-----+-----+-----+-----+
* </pre>
*
* <h3>2 bytes length field at offset 1 in the middle of 4 bytes header,
* strip the first header field and the length field</h3>
*
* This is a combination of all the examples above. There are the prepended
* header before the length field and the extra header after the length field.
* The prepended header affects the <tt>lengthFieldOffset</tt> and the extra
* header affects the <tt>lengthAdjustment</tt>. We also specified a non-zero
* <tt>initialBytesToStrip</tt> to strip the length field and the prepended
* header from the frame. If you don't want to strip the prepended header, you
* could specify <tt>0</tt> for <tt>initialBytesToSkip</tt>.
* <pre>
* lengthFieldOffset = 1 (= the length of HDR1)
* lengthFieldLength = 2
* <b>lengthAdjustment</b> = <b>1</b> (= the length of HDR2)
* <b>initialBytesToStrip</b> = <b>3</b> (= the length of HDR1 + LEN)
*
* BEFORE DECODE (16 bytes)          AFTER DECODE (13 bytes)
* +-----+-----+-----+-----+ +-----+-----+-----+-----+
* | HDR1 | Length | HDR2 | Actual Content |---->| HDR2 | Actual Content |
* | 0xCA | 0x000C | 0xFE | "HELLO, WORLD" |   | 0xFE | "HELLO, WORLD" |
* +-----+-----+-----+-----+ +-----+-----+-----+-----+
* </pre>
*
* <h3>2 bytes length field at offset 1 in the middle of 4 bytes header,
* strip the first header field and the length field, the length field
* represents the length of the whole message</h3>
*

```

- * Let's give another twist to the previous example. The only difference from
- * the previous example is that the length field represents the length of the
- * whole message instead of the message body, just like the third example.
- * We have to count the length of HDR1 and Length into `<tt>lengthAdjustment</tt>`.
- * Please note that we don't need to take the length of HDR2 into account
- * because the length field already includes the whole header length.

```

* <pre>
* lengthFieldOffset = 1
* lengthFieldLength = 2
* <b>lengthAdjustment</b> = <b>-3</b> (= the length of HDR1 + LEN, negative)
* <b>initialBytesToStrip</b> = <b>3</b>
*
* BEFORE DECODE (16 bytes)          AFTER DECODE (13 bytes)
* +-----+-----+-----+-----+ +-----+-----+
* | HDR1 | Length | HDR2 | Actual Content |---->| HDR2 | Actual Content |
* | 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" |   | 0xFE | "HELLO, WORLD" |
* +-----+-----+-----+-----+ +-----+-----+
* </pre>
* @see LengthFieldPrepender
*/

```

Found in path(s):

* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-jar/io/netty/handler/codec/LengthFieldBasedFrameDecoder.java

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* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-jar/io/netty/handler/codec/http/cors/CorsHandler.java

* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-

jar/io/netty/example/http/cors/OkResponseHandler.java

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* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-jar/META-INF/maven/io.netty/netty-all/pom.xml

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* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-jar/io/netty/handler/ssl/ConscryptAlpnSslEngine.java

* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-jar/io/netty/internal/tcnative/SniHostNameMatcher.java

* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-jar/io/netty/handler/ssl/SslCloseCompletionEvent.java

* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-

jar/io/netty/handler/ssl/OptionalSslHandler.java
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
jar/io/netty/util/SuppressForbidden.java
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
jar/io/netty/buffer/ByteBufAllocatorMetric.java
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
jar/io/netty/handler/ssl/SslCompletionEvent.java
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
jar/io/netty/util/internal/ReflectionUtil.java
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
jar/io/netty/buffer/PooledByteBufAllocatorMetric.java
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
jar/io/netty/buffer/ByteBufAllocatorMetricProvider.java
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
jar/io/netty/channel/socket/oio/DefaultOioDatagramChannelConfig.java
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
jar/io/netty/channel/epoll/UnixChannelUtil.java
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
jar/io/netty/example/uptime/UptimeServerHandler.java
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
jar/io/netty/handler/ssl/ocsp/OcspClientHandler.java
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
jar/io/netty/channel/socket/ChannelOutputShutdownEvent.java
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
jar/io/netty/handler/ssl/Java9SslEngine.java
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
jar/io/netty/util/NettyRuntime.java
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
jar/io/netty/handler/ssl/ocsp/package-info.java
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
jar/io/netty/internal/tcnative/NativeStaticallyReferencedJniMethods.java
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
jar/io/netty/channel/socket/oio/OioDatagramChannelConfig.java
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
jar/io/netty/handler/ssl/Conscrypt.java
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
jar/io/netty/util/internal/LongAdderCounter.java
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
jar/io/netty/channel/socket/ChannelOutputShutdownException.java
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
jar/io/netty/handler/ssl/Java9SslUtils.java
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
jar/io/netty/channel/nio/SelectedSelectionKeySetSelector.java
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
jar/io/netty/example/uptime/UptimeServer.java

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* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
jar/io/netty/example/http/websocketx/client/WebSocketClientHandler.java
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jar/io/netty/handler/codec/http/websocketx/WebSocket13FrameDecoder.java
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocket08FrameEncoder.java
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocket07FrameEncoder.java
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocket13FrameEncoder.java
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocket08FrameDecoder.java
* /opt/cola/permits/1685982679_1684946680.2505348/0/netty-all-4-0-51-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocket07FrameDecoder.java
```

1.11 tomcat 6.0.47

1.11.1 Available under license :

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1.12 findbugs-jsr305 1.3.9

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* /opt/ws_local/PERMITS_SQL/1010092589_1591857556.34/0/jsr305-1-3-9-jar/javax/annotation/concurrent/GuardedBy.java

* /opt/ws_local/PERMITS_SQL/1010092589_1591857556.34/0/jsr305-1-3-9-jar/javax/annotation/concurrent/NotThreadSafe.java

* /opt/ws_local/PERMITS_SQL/1010092589_1591857556.34/0/jsr305-1-3-9-jar/javax/annotation/concurrent/Immutable.java

1.13 jackson-core 2.9.5

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1.14 selenium-chromium-driver 4.0.0-alpha-5

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Found in path(s):

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* /opt/cola/permits/1685982601_1684869187.270248/0/selenium-chromium-driver-4-0-0-alpha-5-sources-
jar/org/openqa/selenium/chromium/ChromiumDriver.java
* /opt/cola/permits/1685982601_1684869187.270248/0/selenium-chromium-driver-4-0-0-alpha-5-sources-
jar/org/openqa/selenium/chromium/ChromiumOptions.java
* /opt/cola/permits/1685982601_1684869187.270248/0/selenium-chromium-driver-4-0-0-alpha-5-sources-
jar/org/openqa/selenium/chromium/ChromiumDevToolsLocator.java
* /opt/cola/permits/1685982601_1684869187.270248/0/selenium-chromium-driver-4-0-0-alpha-5-sources-
jar/org/openqa/selenium/chromium/ChromiumDriverCommandExecutor.java
* /opt/cola/permits/1685982601_1684869187.270248/0/selenium-chromium-driver-4-0-0-alpha-5-sources-
jar/org/openqa/selenium/chromium/ChromiumDriverInfo.java
* /opt/cola/permits/1685982601_1684869187.270248/0/selenium-chromium-driver-4-0-0-alpha-5-sources-
jar/org/openqa/selenium/chromium/ChromiumDriverCommand.java
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1.15 scalautils 3.0.0

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* /opt/cola/permits/1685982301_1684950608.4029415/0/scalactic-2-11-3-0-0-sources-
jar/org/scalactic/UnquotedString.scala
```

* /opt/cola/permits/1685982301_1684950608.4029415/0/scalactic-2-11-3-0-0-sources-jar/org/scalactic/exceptions/NullArgumentException.scala

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* /opt/cola/permits/1685982301_1684950608.4029415/0/scalactic-2-11-3-0-0-sources-jar/org/scalactic/anyvals/DigitString.scala

* /opt/cola/permits/1685982301_1684950608.4029415/0/scalactic-2-11-3-0-0-sources-jar/org/scalactic/anyvals/GuessANumber.scala

* /opt/cola/permits/1685982301_1684950608.4029415/0/scalactic-2-11-3-0-0-sources-jar/org/scalactic/anyvals/CompileTimeAssertions.scala

* /opt/cola/permits/1685982301_1684950608.4029415/0/scalactic-2-11-3-0-0-sources-jar/org/scalactic/anyvals/GuessANumberMacros.scala

* /opt/cola/permits/1685982301_1684950608.4029415/0/scalactic-2-11-3-0-0-sources-jar/org/scalactic/anyvals/DigitStringMacro.scala

* /opt/cola/permits/1685982301_1684950608.4029415/0/scalactic-2-11-3-0-0-sources-jar/org/scalactic/anyvals/Percent.scala

* /opt/cola/permits/1685982301_1684950608.4029415/0/scalactic-2-11-3-0-0-sources-jar/org/scalactic/anyvals/DigitChar.scala

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- * /opt/cola/permits/1685982301_1684950608.4029415/0/scalactic-2-11-3-0-0-sources-jar/org/scalactic/anyvals/PosDouble.scala
- * /opt/cola/permits/1685982301_1684950608.4029415/0/scalactic-2-11-3-0-0-sources-jar/org/scalactic/anyvals/PosZLongMacro.scala
- * /opt/cola/permits/1685982301_1684950608.4029415/0/scalactic-2-11-3-0-0-sources-jar/org/scalactic/NumericEqualityConstraints.scala
- * /opt/cola/permits/1685982301_1684950608.4029415/0/scalactic-2-11-3-0-0-sources-jar/org/scalactic/anyvals/PosZIntMacro.scala
- * /opt/cola/permits/1685982301_1684950608.4029415/0/scalactic-2-11-3-0-0-sources-jar/org/scalactic/anyvals/PosFloat.scala
- * /opt/cola/permits/1685982301_1684950608.4029415/0/scalactic-2-11-3-0-0-sources-jar/org/scalactic/anyvals/PosLongMacro.scala
- * /opt/cola/permits/1685982301_1684950608.4029415/0/scalactic-2-11-3-0-0-sources-jar/org/scalactic/anyvals/PosInt.scala
- * /opt/cola/permits/1685982301_1684950608.4029415/0/scalactic-2-11-3-0-0-sources-jar/org/scalactic/anyvals/PosDoubleMacro.scala
- * /opt/cola/permits/1685982301_1684950608.4029415/0/scalactic-2-11-3-0-0-sources-jar/org/scalactic/Snapshots.scala
- * /opt/cola/permits/1685982301_1684950608.4029415/0/scalactic-2-11-3-0-0-sources-jar/org/scalactic/anyvals/PosLong.scala
- * /opt/cola/permits/1685982301_1684950608.4029415/0/scalactic-2-11-3-0-0-sources-jar/org/scalactic/anyvals/PosZDouble.scala
- * /opt/cola/permits/1685982301_1684950608.4029415/0/scalactic-2-11-3-0-0-sources-jar/org/scalactic/anyvals/PosZDoubleMacro.scala
- * /opt/cola/permits/1685982301_1684950608.4029415/0/scalactic-2-11-3-0-0-sources-jar/org/scalactic/anyvals/PosZFloat.scala
- * /opt/cola/permits/1685982301_1684950608.4029415/0/scalactic-2-11-3-0-0-sources-jar/org/scalactic/anyvals/PosIntMacro.scala
- * /opt/cola/permits/1685982301_1684950608.4029415/0/scalactic-2-11-3-0-0-sources-jar/org/scalactic/anyvals/PosZLong.scala
- * /opt/cola/permits/1685982301_1684950608.4029415/0/scalactic-2-11-3-0-0-sources-jar/org/scalactic/anyvals/PosFloatMacro.scala
- * /opt/cola/permits/1685982301_1684950608.4029415/0/scalactic-2-11-3-0-0-sources-jar/org/scalactic/anyvals/PosZFloatMacro.scala

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Found in path(s):

* /opt/cola/permits/1685982301_1684950608.4029415/0/scalactic-2-11-3-0-0-sources-jar/org/scalactic/source/PositionMacro.scala

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* /opt/cola/permits/1685982301_1684950608.4029415/0/scalactic-2-11-3-0-0-sources-jar/org/scalactic/BooleanMacro.scala

* /opt/cola/permits/1685982301_1684950608.4029415/0/scalactic-2-11-3-0-0-sources-jar/org/scalactic/MacroOwnerRepair.scala

* /opt/cola/permits/1685982301_1684950608.4029415/0/scalactic-2-11-3-0-0-sources-jar/org/scalactic/Requirements.scala

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- * /opt/cola/permits/1685982301_1684950608.4029415/0/scalactic-2-11-3-0-0-sources-jar/org/scalactic/Normalization.scala
- * /opt/cola/permits/1685982301_1684950608.4029415/0/scalactic-2-11-3-0-0-sources-jar/org/scalactic/Tolerance.scala
- * /opt/cola/permits/1685982301_1684950608.4029415/0/scalactic-2-11-3-0-0-sources-jar/org/scalactic/TrySugar.scala
- * /opt/cola/permits/1685982301_1684950608.4029415/0/scalactic-2-11-3-0-0-sources-jar/org/scalactic/LowPriorityConversionCheckedConstraint.scala
- * /opt/cola/permits/1685982301_1684950608.4029415/0/scalactic-2-11-3-0-0-sources-jar/org/scalactic/Explicitly.scala
- * /opt/cola/permits/1685982301_1684950608.4029415/0/scalactic-2-11-3-0-0-sources-jar/org/scalactic/Equivalence.scala
- * /opt/cola/permits/1685982301_1684950608.4029415/0/scalactic-2-11-3-0-0-sources-jar/org/scalactic/MapEqualityConstraints.scala
- * /opt/cola/permits/1685982301_1684950608.4029415/0/scalactic-2-11-3-0-0-sources-jar/org/scalactic/OptionSugar.scala
- * /opt/cola/permits/1685982301_1684950608.4029415/0/scalactic-2-11-3-0-0-sources-jar/org/scalactic/exceptions/ValidationFailedException.scala
- * /opt/cola/permits/1685982301_1684950608.4029415/0/scalactic-2-11-3-0-0-sources-jar/org/scalactic/Accumulation.scala
- * /opt/cola/permits/1685982301_1684950608.4029415/0/scalactic-2-11-3-0-0-sources-jar/org/scalactic/TolerantNumerics.scala
- * /opt/cola/permits/1685982301_1684950608.4029415/0/scalactic-2-11-3-0-0-sources-jar/org/scalactic/AbstractStringUniformity.scala
- * /opt/cola/permits/1685982301_1684950608.4029415/0/scalactic-2-11-3-0-0-sources-jar/org/scalactic/ComposedNormalizingEquality.scala
- * /opt/cola/permits/1685982301_1684950608.4029415/0/scalactic-2-11-3-0-0-sources-jar/org/scalactic/SeqEqualityConstraints.scala
- * /opt/cola/permits/1685982301_1684950608.4029415/0/scalactic-2-11-3-0-0-sources-jar/org/scalactic/Validation.scala
- * /opt/cola/permits/1685982301_1684950608.4029415/0/scalactic-2-11-3-0-0-sources-jar/org/scalactic/ComposedNormalizingEquivalence.scala
- * /opt/cola/permits/1685982301_1684950608.4029415/0/scalactic-2-11-3-0-0-sources-jar/org/scalactic/NormalizingEquivalence.scala
- * /opt/cola/permits/1685982301_1684950608.4029415/0/scalactic-2-11-3-0-0-sources-

jar/org/scalactic/package.scala
* /opt/cola/permits/1685982301_1684950608.4029415/0/scalactic-2-11-3-0-0-sources-
jar/org/scalactic/Prettifier.scala
* /opt/cola/permits/1685982301_1684950608.4029415/0/scalactic-2-11-3-0-0-sources-
jar/org/scalactic/FutureSugar.scala
* /opt/cola/permits/1685982301_1684950608.4029415/0/scalactic-2-11-3-0-0-sources-
jar/org/scalactic/TripleEqualsSupport.scala
* /opt/cola/permits/1685982301_1684950608.4029415/0/scalactic-2-11-3-0-0-sources-
jar/org/scalactic/EitherSugar.scala
* /opt/cola/permits/1685982301_1684950608.4029415/0/scalactic-2-11-3-0-0-sources-
jar/org/scalactic/StringNormalizations.scala
* /opt/cola/permits/1685982301_1684950608.4029415/0/scalactic-2-11-3-0-0-sources-
jar/org/scalactic/TripleEquals.scala
* /opt/cola/permits/1685982301_1684950608.4029415/0/scalactic-2-11-3-0-0-sources-
jar/org/scalactic/source/Position.scala
* /opt/cola/permits/1685982301_1684950608.4029415/0/scalactic-2-11-3-0-0-sources-
jar/org/scalactic/TimesOnInt.scala
* /opt/cola/permits/1685982301_1684950608.4029415/0/scalactic-2-11-3-0-0-sources-
jar/org/scalactic/DeprecatedPrettyMethods.scala
* /opt/cola/permits/1685982301_1684950608.4029415/0/scalactic-2-11-3-0-0-sources-
jar/org/scalactic/Equality.scala
* /opt/cola/permits/1685982301_1684950608.4029415/0/scalactic-2-11-3-0-0-sources-
jar/org/scalactic/CanEqual.scala
* /opt/cola/permits/1685982301_1684950608.4029415/0/scalactic-2-11-3-0-0-sources-
jar/org/scalactic/Uniformity.scala
* /opt/cola/permits/1685982301_1684950608.4029415/0/scalactic-2-11-3-0-0-sources-jar/org/scalactic/Chain.scala
* /opt/cola/permits/1685982301_1684950608.4029415/0/scalactic-2-11-3-0-0-sources-jar/org/scalactic/Every.scala
* /opt/cola/permits/1685982301_1684950608.4029415/0/scalactic-2-11-3-0-0-sources-
jar/org/scalactic/Catcher.scala
* /opt/cola/permits/1685982301_1684950608.4029415/0/scalactic-2-11-3-0-0-sources-
jar/org/scalactic/LowPriorityTypeCheckedConstraint.scala
* /opt/cola/permits/1685982301_1684950608.4029415/0/scalactic-2-11-3-0-0-sources-
jar/org/scalactic/SetEqualityConstraints.scala
* /opt/cola/permits/1685982301_1684950608.4029415/0/scalactic-2-11-3-0-0-sources-
jar/org/scalactic/DefaultEquality.scala
* /opt/cola/permits/1685982301_1684950608.4029415/0/scalactic-2-11-3-0-0-sources-jar/org/scalactic/Or.scala
* /opt/cola/permits/1685982301_1684950608.4029415/0/scalactic-2-11-3-0-0-sources-
jar/org/scalactic/TraversableEqualityConstraints.scala
* /opt/cola/permits/1685982301_1684950608.4029415/0/scalactic-2-11-3-0-0-sources-
jar/org/scalactic/NormalizingEquality.scala
* /opt/cola/permits/1685982301_1684950608.4029415/0/scalactic-2-11-3-0-0-sources-
jar/org/scalactic/NormMethods.scala
* /opt/cola/permits/1685982301_1684950608.4029415/0/scalactic-2-11-3-0-0-sources-
jar/org/scalactic/ConversionCheckedTripleEquals.scala
* /opt/cola/permits/1685982301_1684950608.4029415/0/scalactic-2-11-3-0-0-sources-
jar/org/scalactic/TypeCheckedTripleEquals.scala
* /opt/cola/permits/1685982301_1684950608.4029415/0/scalactic-2-11-3-0-0-sources-
jar/org/scalactic/PrettyMethods.scala

1.16 jaxen 1.1.6

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/*

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1.17 apache-httpcomponents-core 4.4.6

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1.18 eclipse-ecj 4.5.1

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```
* /opt/cola/permits/1004914085_1684883982.10958/0/ecj-4-5-1-4-  
jar/org/eclipse/jdt/internal/compiler/messages.properties  
* /opt/cola/permits/1004914085_1684883982.10958/0/ecj-4-5-1-4-  
jar/org/eclipse/jdt/internal/compiler/batch/messages.properties  
* /opt/cola/permits/1004914085_1684883982.10958/0/ecj-4-5-1-4-  
jar/org/eclipse/jdt/internal/compiler/problem/messages.properties  
* /opt/cola/permits/1004914085_1684883982.10958/0/ecj-4-5-1-4-  
jar/org/eclipse/jdt/internal/antadapter/messages.properties
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```
* /opt/cola/permits/1004914085_1684883982.10958/0/ecj-4-5-1-4-jar/about.html
```

1.19 jetty-websocket-api 9.2.20.v20161216

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Manifest-Version: 1.0

Archiver-Version: Plexus Archiver

Created-By: Apache Maven Bundle Plugin

Built-By: joakim

Build-Jdk: 1.7.0_75
Implementation-Vendor: Eclipse.org - Jetty
Implementation-Version: 9.2.20.v20161216
url: http://www.eclipse.org/jetty
Export-Package: org.eclipse.jetty.websocket.api.extensions;version="9.2.20",org.eclipse.jetty.websocket.api;version="9.2.20",org.eclipse.jetty.websocket.api.annotations;version="9.2.20",org.eclipse.websocket.api.util;version="9.2.20"
Bundle-Classpath: .
Tool: Bnd-1.15.0
Bundle-Name: Jetty :: Websocket :: API
Bundle-RequiredExecutionEnvironment: JavaSE-1.7
Bundle-Copyright: Copyright (c) 2008-2016 Mort Bay Consulting Pty. Ltd.
Bundle-Vendor: Eclipse Jetty Project
Bundle-Version: 9.2.20.v20161216
Bnd-LastModified: 1481929230309
Bundle-ManifestVersion: 2
Bundle-Description: Administrative parent pom for Jetty modules
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0, http://www.eclipse.org/org/documents/epl-v10.php
Bundle-SymbolicName: org.eclipse.jetty.websocket.api
Bundle-DocURL: http://www.eclipse.org/jetty

Found in path(s):

* /opt/cola/permits/1685982711_1684945486.6008346/0/websocket-api-9-2-20-v20161216-jar/META-INF/MANIFEST.MF

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* /opt/cola/permits/1685982711_1684945486.6008346/0/websocket-api-9-2-20-v20161216-jar/about.html

1.20 default-plexus-container 1.7.1

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* /opt/cola/permits/1082870071_1684882800.4474192/0/plexus-container-default-1-7-1-sources-1-
jar/org/codehaus/plexus/component/manager/SingletonComponentManager.java
* /opt/cola/permits/1082870071_1684882800.4474192/0/plexus-container-default-1-7-1-sources-1-
jar/org/codehaus/plexus/component/discovery/PlexusXmlComponentDiscoverer.java

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* /opt/cola/permits/1082870071_1684882800.4474192/0/plexus-container-default-1-7-1-sources-1-
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* /opt/cola/permits/1082870071_1684882800.4474192/0/plexus-container-default-1-7-1-sources-1-jar/org/codehaus/plexus/component/repository/ComponentRequirement.java
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* /opt/cola/permits/1082870071_1684882800.4474192/0/plexus-container-default-1-7-1-sources-1-
jar/org/codehaus/plexus/component/repository/exception/ComponentLookupException.java
* /opt/cola/permits/1082870071_1684882800.4474192/0/plexus-container-default-1-7-1-sources-1-
jar/org/codehaus/plexus/container/initialization/InitializeSystemPropertiesPhase.java
* /opt/cola/permits/1082870071_1684882800.4474192/0/plexus-container-default-1-7-1-sources-1-
jar/org/codehaus/plexus/component/factory/ComponentFactory.java
* /opt/cola/permits/1082870071_1684882800.4474192/0/plexus-container-default-1-7-1-sources-1-
jar/org/codehaus/plexus/configuration/PlexusConfigurationException.java
* /opt/cola/permits/1082870071_1684882800.4474192/0/plexus-container-default-1-7-1-sources-1-
jar/org/codehaus/plexus/component/factory/ComponentFactoryManager.java
* /opt/cola/permits/1082870071_1684882800.4474192/0/plexus-container-default-1-7-1-sources-1-
jar/org/codehaus/plexus/personality/plexus/lifecycle/phase/PhaseExecutionException.java
* /opt/cola/permits/1082870071_1684882800.4474192/0/plexus-container-default-1-7-1-sources-1-
jar/org/codehaus/plexus/personality/plexus/lifecycle/phase/Startable.java
* /opt/cola/permits/1082870071_1684882800.4474192/0/plexus-container-default-1-7-1-sources-1-
jar/org/codehaus/plexus/component/configurator/expression/DefaultExpressionEvaluator.java
* /opt/cola/permits/1082870071_1684882800.4474192/0/plexus-container-default-1-7-1-sources-1-
jar/org/codehaus/plexus/PlexusContainerException.java
* /opt/cola/permits/1082870071_1684882800.4474192/0/plexus-container-default-1-7-1-sources-1-
jar/org/codehaus/plexus/logging/BaseLoggerManager.java
* /opt/cola/permits/1082870071_1684882800.4474192/0/plexus-container-default-1-7-1-sources-1-

jar/org/codehaus/plexus/component/repository/exception/ComponentProfileException.java
* /opt/cola/permits/1082870071_1684882800.4474192/0/plexus-container-default-1-7-1-sources-1-
jar/org/codehaus/plexus/configuration/xml/XmlPlexusConfiguration.java
* /opt/cola/permits/1082870071_1684882800.4474192/0/plexus-container-default-1-7-1-sources-1-
jar/org/codehaus/plexus/personality/plexus/lifecycle/phase/StartPhase.java
* /opt/cola/permits/1082870071_1684882800.4474192/0/plexus-container-default-1-7-1-sources-1-
jar/org/codehaus/plexus/component/repository/exception/ComponentImplementationNotFoundException.java
* /opt/cola/permits/1082870071_1684882800.4474192/0/plexus-container-default-1-7-1-sources-1-
jar/org/codehaus/plexus/component/configurator/expression/TypeAwareExpressionEvaluator.java
* /opt/cola/permits/1082870071_1684882800.4474192/0/plexus-container-default-1-7-1-sources-1-
jar/org/codehaus/plexus/component/repository/io/PlexusTools.java
* /opt/cola/permits/1082870071_1684882800.4474192/0/plexus-container-default-1-7-1-sources-1-
jar/org/codehaus/plexus/container/initialization/ContainerInitializationException.java
* /opt/cola/permits/1082870071_1684882800.4474192/0/plexus-container-default-1-7-1-sources-1-
jar/org/codehaus/plexus/DefaultPlexusContainer.java
* /opt/cola/permits/1082870071_1684882800.4474192/0/plexus-container-default-1-7-1-sources-1-
jar/org/codehaus/plexus/component/manager/PerLookupComponentManager.java
* /opt/cola/permits/1082870071_1684882800.4474192/0/plexus-container-default-1-7-1-sources-1-
jar/org/codehaus/plexus/container/initialization/ContainerInitializationPhase.java
* /opt/cola/permits/1082870071_1684882800.4474192/0/plexus-container-default-1-7-1-sources-1-
jar/org/codehaus/plexus/configuration/PlexusConfigurationMerger.java
* /opt/cola/permits/1082870071_1684882800.4474192/0/plexus-container-default-1-7-1-sources-1-
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* /opt/cola/permits/1082870071_1684882800.4474192/0/plexus-container-default-1-7-1-sources-1-
jar/org/codehaus/plexus/component/collections/ComponentMap.java
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jar/org/codehaus/plexus/logging/AbstractLogEnabled.java
* /opt/cola/permits/1082870071_1684882800.4474192/0/plexus-container-default-1-7-1-sources-1-
jar/org/codehaus/plexus/component/discovery/DiscoveryListenerDescriptor.java
* /opt/cola/permits/1082870071_1684882800.4474192/0/plexus-container-default-1-7-1-sources-1-
jar/org/codehaus/plexus/container/initialization/AbstractCoreComponentInitializationPhase.java
* /opt/cola/permits/1082870071_1684882800.4474192/0/plexus-container-default-1-7-1-sources-1-
jar/org/codehaus/plexus/personality/plexus/lifecycle/phase/SuspendPhase.java
* /opt/cola/permits/1082870071_1684882800.4474192/0/plexus-container-default-1-7-1-sources-1-
jar/org/codehaus/plexus/logging/console/ConsoleLogger.java
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* /opt/cola/permits/1082870071_1684882800.4474192/0/plexus-container-default-1-7-1-sources-1-jar/org/codehaus/plexus/component/configurator/converters/AbstractConfigurationConverter.java

* /opt/cola/permits/1082870071_1684882800.4474192/0/plexus-container-default-1-7-1-sources-1-jar/org/codehaus/plexus/component/configurator/converters/basic/Converter.java

* /opt/cola/permits/1082870071_1684882800.4474192/0/plexus-container-default-1-7-1-sources-1-jar/org/codehaus/plexus/component/configurator/converters/basic/DoubleConverter.java

* /opt/cola/permits/1082870071_1684882800.4474192/0/plexus-container-default-1-7-1-sources-1-jar/org/codehaus/plexus/component/configurator/AbstractComponentConfigurator.java

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jar/org/codehaus/plexus/component/configurator/converters/lookup/ConverterLookup.java
* /opt/cola/permits/1082870071_1684882800.4474192/0/plexus-container-default-1-7-1-sources-1-
jar/org/codehaus/plexus/component/configurator/converters/basic/CharConverter.java
* /opt/cola/permits/1082870071_1684882800.4474192/0/plexus-container-default-1-7-1-sources-1-
jar/org/codehaus/plexus/component/configurator/converters/basic/UrlConverter.java
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jar/org/codehaus/plexus/component/configurator/converters/basic/StringBufferConverter.java
* /opt/cola/permits/1082870071_1684882800.4474192/0/plexus-container-default-1-7-1-sources-1-
jar/org/codehaus/plexus/component/configurator/converters/basic/BooleanConverter.java
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* /opt/cola/permits/1082870071_1684882800.4474192/0/plexus-container-default-1-7-1-sources-1-
jar/org/codehaus/plexus/component/configurator/converters/basic/AbstractBasicConverter.java
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* /opt/cola/permits/1082870071_1684882800.4474192/0/plexus-container-default-1-7-1-sources-1-
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* /opt/cola/permits/1082870071_1684882800.4474192/0/plexus-container-default-1-7-1-sources-1-
jar/org/codehaus/plexus/component/configurator/converters/composite/ObjectWithFieldsConverter.java
* /opt/cola/permits/1082870071_1684882800.4474192/0/plexus-container-default-1-7-1-sources-1-
jar/org/codehaus/plexus/component/configurator/converters/basic/ByteConverter.java
* /opt/cola/permits/1082870071_1684882800.4474192/0/plexus-container-default-1-7-1-sources-1-
jar/org/codehaus/plexus/component/configurator/converters/composite/CollectionConverter.java
* /opt/cola/permits/1082870071_1684882800.4474192/0/plexus-container-default-1-7-1-sources-1-
jar/org/codehaus/plexus/component/configurator/converters/basic/IntConverter.java
* /opt/cola/permits/1082870071_1684882800.4474192/0/plexus-container-default-1-7-1-sources-1-
jar/org/codehaus/plexus/component/configurator/converters/basic/LongConverter.java
* /opt/cola/permits/1082870071_1684882800.4474192/0/plexus-container-default-1-7-1-sources-1-
jar/org/codehaus/plexus/component/configurator/converters/composite/PropertiesConverter.java
* /opt/cola/permits/1082870071_1684882800.4474192/0/plexus-container-default-1-7-1-sources-1-
jar/org/codehaus/plexus/component/configurator/converters/basic/EnumConverter.java

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* /opt/ws_local/PERMITS_SQL/1019255954_1594204863.08/0/logging-1-1-sources-jar/eu/freme/bServices/filters/logging/TeePrintWriter.java
* /opt/ws_local/PERMITS_SQL/1019255954_1594204863.08/0/logging-1-1-sources-jar/eu/freme/bServices/filters/logging/ResponseWrapper.java
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1.25 hamcrest 1.3

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1.26 htmlunit 2.24

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* /opt/cola/permits/1685982247_1684869408.9274647/0/htmlunit-2-24-sources-
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* /opt/cola/permits/1685982247_1684869408.9274647/0/htmlunit-2-24-sources-

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* /opt/cola/permits/1685982247_1684869408.9274647/0/htmlunit-2-24-sources-
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* /opt/cola/permits/1685982247_1684869408.9274647/0/htmlunit-2-24-sources-
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* /opt/cola/permits/1685982247_1684869408.9274647/0/htmlunit-2-24-sources-
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* /opt/cola/permits/1685982247_1684869408.9274647/0/htmlunit-2-24-sources-
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* /opt/cola/permits/1685982247_1684869408.9274647/0/htmlunit-2-24-sources-
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* /opt/cola/permits/1685982247_1684869408.9274647/0/htmlunit-2-24-sources-
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* /opt/cola/permits/1685982247_1684869408.9274647/0/htmlunit-2-24-sources-
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* /opt/cola/permits/1685982247_1684869408.9274647/0/htmlunit-2-24-sources-
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* /opt/cola/permits/1685982247_1684869408.9274647/0/htmlunit-2-24-sources-
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* /opt/cola/permits/1685982247_1684869408.9274647/0/htmlunit-2-24-sources-
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* /opt/cola/permits/1685982247_1684869408.9274647/0/htmlunit-2-24-sources-
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* /opt/cola/permits/1685982247_1684869408.9274647/0/htmlunit-2-24-sources-
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* /opt/cola/permits/1685982247_1684869408.9274647/0/htmlunit-2-24-sources-
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* /opt/cola/permits/1685982247_1684869408.9274647/0/htmlunit-2-24-sources-
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* /opt/cola/permits/1685982247_1684869408.9274647/0/htmlunit-2-24-sources-
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* /opt/cola/permits/1685982247_1684869408.9274647/0/htmlunit-2-24-sources-
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* /opt/cola/permits/1685982247_1684869408.9274647/0/htmlunit-2-24-sources-
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* /opt/cola/permits/1685982247_1684869408.9274647/0/htmlunit-2-24-sources-
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* /opt/cola/permits/1685982247_1684869408.9274647/0/htmlunit-2-24-sources-
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* /opt/cola/permits/1685982247_1684869408.9274647/0/htmlunit-2-24-sources-
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* /opt/cola/permits/1685982247_1684869408.9274647/0/htmlunit-2-24-sources-
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* /opt/cola/permits/1685982247_1684869408.9274647/0/htmlunit-2-24-sources-
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* /opt/cola/permits/1685982247_1684869408.9274647/0/htmlunit-2-24-sources-
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* /opt/cola/permits/1685982247_1684869408.9274647/0/htmlunit-2-24-sources-
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* /opt/cola/permits/1685982247_1684869408.9274647/0/htmlunit-2-24-sources-
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* /opt/cola/permits/1685982247_1684869408.9274647/0/htmlunit-2-24-sources-
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* /opt/cola/permits/1685982247_1684869408.9274647/0/htmlunit-2-24-sources-
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* /opt/cola/permits/1685982247_1684869408.9274647/0/htmlunit-2-24-sources-
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* /opt/cola/permits/1685982247_1684869408.9274647/0/htmlunit-2-24-sources-
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* /opt/cola/permits/1685982247_1684869408.9274647/0/htmlunit-2-24-sources-
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* /opt/cola/permits/1685982247_1684869408.9274647/0/htmlunit-2-24-sources-
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* /opt/cola/permits/1685982247_1684869408.9274647/0/htmlunit-2-24-sources-
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* /opt/cola/permits/1685982247_1684869408.9274647/0/htmlunit-2-24-sources-
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* /opt/cola/permits/1685982247_1684869408.9274647/0/htmlunit-2-24-sources-

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* /opt/cola/permits/1685982247_1684869408.9274647/0/htmlunit-2-24-sources-
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* /opt/cola/permits/1685982247_1684869408.9274647/0/htmlunit-2-24-sources-
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* /opt/cola/permits/1685982247_1684869408.9274647/0/htmlunit-2-24-sources-
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* /opt/cola/permits/1685982247_1684869408.9274647/0/htmlunit-2-24-sources-
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* /opt/cola/permits/1685982247_1684869408.9274647/0/htmlunit-2-24-sources-
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* /opt/cola/permits/1685982247_1684869408.9274647/0/htmlunit-2-24-sources-
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* /opt/cola/permits/1685982247_1684869408.9274647/0/htmlunit-2-24-sources-
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* /opt/cola/permits/1685982247_1684869408.9274647/0/htmlunit-2-24-sources-
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* /opt/cola/permits/1685982247_1684869408.9274647/0/htmlunit-2-24-sources-
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* /opt/cola/permits/1685982247_1684869408.9274647/0/htmlunit-2-24-sources-
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* /opt/cola/permits/1685982247_1684869408.9274647/0/htmlunit-2-24-sources-
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* /opt/cola/permits/1685982247_1684869408.9274647/0/htmlunit-2-24-sources-
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* /opt/cola/permits/1685982247_1684869408.9274647/0/htmlunit-2-24-sources-
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* /opt/cola/permits/1685982247_1684869408.9274647/0/htmlunit-2-24-sources-
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* /opt/cola/permits/1685982247_1684869408.9274647/0/htmlunit-2-24-sources-
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* /opt/cola/permits/1685982247_1684869408.9274647/0/htmlunit-2-24-sources-
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* /opt/cola/permits/1685982247_1684869408.9274647/0/htmlunit-2-24-sources-
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* /opt/cola/permits/1685982247_1684869408.9274647/0/htmlunit-2-24-sources-
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* /opt/cola/permits/1685982247_1684869408.9274647/0/htmlunit-2-24-sources-
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* /opt/cola/permits/1685982247_1684869408.9274647/0/htmlunit-2-24-sources-
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* /opt/cola/permits/1685982247_1684869408.9274647/0/htmlunit-2-24-sources-
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* /opt/cola/permits/1685982247_1684869408.9274647/0/htmlunit-2-24-sources-
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* /opt/cola/permits/1685982247_1684869408.9274647/0/htmlunit-2-24-sources-
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* /opt/cola/permits/1685982247_1684869408.9274647/0/htmlunit-2-24-sources-
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* /opt/cola/permits/1685982247_1684869408.9274647/0/htmlunit-2-24-sources-
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* /opt/cola/permits/1685982247_1684869408.9274647/0/htmlunit-2-24-sources-
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* /opt/cola/permits/1685982247_1684869408.9274647/0/htmlunit-2-24-sources-
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* /opt/cola/permits/1685982247_1684869408.9274647/0/htmlunit-2-24-sources-
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* /opt/cola/permits/1685982247_1684869408.9274647/0/htmlunit-2-24-sources-
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* /opt/cola/permits/1685982247_1684869408.9274647/0/htmlunit-2-24-sources-
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* /opt/cola/permits/1685982247_1684869408.9274647/0/htmlunit-2-24-sources-
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* /opt/cola/permits/1685982247_1684869408.9274647/0/htmlunit-2-24-sources-
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* /opt/cola/permits/1685982247_1684869408.9274647/0/htmlunit-2-24-sources-
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* /opt/cola/permits/1685982247_1684869408.9274647/0/htmlunit-2-24-sources-
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* /opt/cola/permits/1685982247_1684869408.9274647/0/htmlunit-2-24-sources-
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* /opt/cola/permits/1685982247_1684869408.9274647/0/htmlunit-2-24-sources-
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* /opt/cola/permits/1685982247_1684869408.9274647/0/htmlunit-2-24-sources-
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* /opt/cola/permits/1685982247_1684869408.9274647/0/htmlunit-2-24-sources-
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* /opt/cola/permits/1685982247_1684869408.9274647/0/htmlunit-2-24-sources-
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* /opt/cola/permits/1685982247_1684869408.9274647/0/htmlunit-2-24-sources-
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* /opt/cola/permits/1685982247_1684869408.9274647/0/htmlunit-2-24-sources-
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* /opt/cola/permits/1685982247_1684869408.9274647/0/htmlunit-2-24-sources-
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* /opt/cola/permits/1685982247_1684869408.9274647/0/htmlunit-2-24-sources-
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* /opt/cola/permits/1685982247_1684869408.9274647/0/htmlunit-2-24-sources-
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jar/com/gargoylesoftware/htmlunit/javascript/host/arrays/ArrayBufferViewBase.java
* /opt/cola/permits/1685982247_1684869408.9274647/0/htmlunit-2-24-sources-
jar/com/gargoylesoftware/htmlunit/activex/javascript/msxml/XMLDOMText.java
* /opt/cola/permits/1685982247_1684869408.9274647/0/htmlunit-2-24-sources-
jar/com/gargoylesoftware/htmlunit/javascript/host/GamepadButton.java
* /opt/cola/permits/1685982247_1684869408.9274647/0/htmlunit-2-24-sources-
jar/com/gargoylesoftware/htmlunit/activex/javascript/msxml/MSXMLActiveXObjectFactory.java
* /opt/cola/permits/1685982247_1684869408.9274647/0/htmlunit-2-24-sources-
jar/com/gargoylesoftware/htmlunit/javascript/host/canvas/ext/OES_texture_float.java
* /opt/cola/permits/1685982247_1684869408.9274647/0/htmlunit-2-24-sources-
jar/com/gargoylesoftware/htmlunit/javascript/host/html/HTMLLegendElement.java
* /opt/cola/permits/1685982247_1684869408.9274647/0/htmlunit-2-24-sources-
jar/com/gargoylesoftware/htmlunit/javascript/host/media/MediaKeyStatusMap.java
* /opt/cola/permits/1685982247_1684869408.9274647/0/htmlunit-2-24-sources-
jar/com/gargoylesoftware/htmlunit/javascript/host/event/MediaQueryListEvent.java
* /opt/cola/permits/1685982247_1684869408.9274647/0/htmlunit-2-24-sources-
jar/com/gargoylesoftware/htmlunit/html/HtmlAcronym.java
* /opt/cola/permits/1685982247_1684869408.9274647/0/htmlunit-2-24-sources-

jar/com/gargoylesoftware/htmlunit/activex/javascript/msxml/XMLSerializer.java
* /opt/cola/permits/1685982247_1684869408.9274647/0/htmlunit-2-24-sources-
jar/com/gargoylesoftware/htmlunit/html/HtmlBreak.java
* /opt/cola/permits/1685982247_1684869408.9274647/0/htmlunit-2-24-sources-
jar/com/gargoylesoftware/htmlunit/html/HtmlHeading5.java
* /opt/cola/permits/1685982247_1684869408.9274647/0/htmlunit-2-24-sources-
jar/com/gargoylesoftware/htmlunit/javascript/host/performance/PerformanceNavigationTiming.java
* /opt/cola/permits/1685982247_1684869408.9274647/0/htmlunit-2-24-sources-
jar/com/gargoylesoftware/htmlunit/javascript/host/Iterator.java
* /opt/cola/permits/1685982247_1684869408.9274647/0/htmlunit-2-24-sources-
jar/com/gargoylesoftware/htmlunit/javascript/host/dom/DOMMatrix.java
* /opt/cola/permits/1685982247_1684869408.9274647/0/htmlunit-2-24-sources-
jar/com/gargoylesoftware/htmlunit/html/HtmlHeading4.java
* /opt/cola/permits/1685982247_1684869408.9274647/0/htmlunit-2-24-sources-
jar/com/gargoylesoftware/htmlunit/javascript/host/svg/SVGPathSegLinetoHorizontalRel.java
* /opt/cola/permits/1685982247_1684869408.9274647/0/htmlunit-2-24-sources-
jar/com/gargoylesoftware/htmlunit/javascript/host/svg/SVGPathSegLinetoVerticalRel.java
* /opt/cola/permits/1685982247_1684869408.9274647/0/htmlunit-2-24-sources-
jar/com/gargoylesoftware/htmlunit/javascript/host/css/CSSConditionRule.java
* /opt/cola/permits/1685982247_1684869408.9274647/0/htmlunit-2-24-sources-
jar/com/gargoylesoftware/htmlunit/html/SubmittableElement.java
* /opt/cola/permits/1685982247_1684869408.9274647/0/htmlunit-2-24-sources-
jar/com/gargoylesoftware/htmlunit/activex/javascript/msxml/XMLHttpRequest.java
* /opt/cola/permits/1685982247_1684869408.9274647/0/htmlunit-2-24-sources-
jar/com/gargoylesoftware/htmlunit/javascript/host/html/HTMLBlockElement.java
* /opt/cola/permits/1685982247_1684869408.9274647/0/htmlunit-2-24-sources-
jar/com/gargoylesoftware/htmlunit/javascript/host/svg/SVGLineElement.java
* /opt/cola/permits/1685982247_1684869408.9274647/0/htmlunit-2-24-sources-
jar/com/gargoylesoftware/htmlunit/javascript/host/html/DataTransfer.java
* /opt/cola/permits/1685982247_1684869408.9274647/0/htmlunit-2-24-sources-
jar/com/gargoylesoftware/htmlunit/javascript/host/idb/webkitIDBTransaction.java
* /opt/cola/permits/1685982247_1684869408.9274647/0/htmlunit-2-24-sources-
jar/com/gargoylesoftware/htmlunit/javascript/host/svg/SVGFEFloodElement.java
* /opt/cola/permits/1685982247_1684869408.9274647/0/htmlunit-2-24-sources-
jar/com/gargoylesoftware/htmlunit/javascript/host/svg/SVGTextContentElement.java
* /opt/cola/permits/1685982247_1684869408.9274647/0/htmlunit-2-24-sources-
jar/com/gargoylesoftware/htmlunit/javascript/host/event/PopStateEvent.java
* /opt/cola/permits/1685982247_1684869408.9274647/0/htmlunit-2-24-sources-
jar/com/gargoylesoftware/htmlunit/html/CharacterDataChangeListener.java
* /opt/cola/permits/1685982247_1684869408.9274647/0/htmlunit-2-24-sources-
jar/com/gargoylesoftware/htmlunit/javascript/host/svg/SVGPathSegCurvetoCubicRel.java
* /opt/cola/permits/1685982247_1684869408.9274647/0/htmlunit-2-24-sources-
jar/com/gargoylesoftware/htmlunit/javascript/host/svg/SVGPathSegArcRel.java
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* /opt/cola/permits/1685982247_1684869408.9274647/0/htmlunit-2-24-sources-jar/META-INF/maven/net.sourceforge.htmlunit/htmlunit/pom.xml

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/**

* Returns this element's `<tt>offsetLeft</tt>`, which is the calculated left position of this

* element relative to the `<tt>offsetParent</tt>`.

*

* @return this element's `<tt>offsetLeft</tt>`

* @see <http://msdn2.microsoft.com/en-us/library/ms534200.aspx>>MSDN Documentation

* @see <http://www.quirksmode.org/js/elementdimensions.html>>Element Dimensions

* @see <http://dump.testsuite.org/2006/dom/style/offset/spec>>Reverse Engineering by Anne van Kesteren

*/

Found in path(s):

* /opt/cola/permits/1685982247_1684869408.9274647/0/htmlunit-2-24-sources-jar/com/gargoylesoftware/htmlunit/javascript/host/html/HTMLElement.java

1.27 google-guava 14.0.1-rc1

1.27.1 Available under license :

Doug Lea

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1.28 ui-router 0.2.13

1.28.1 Available under license :

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1.29 json-java 20160212

1.29.1 Available under license :

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1.30 org.seleniumhq.selenium:selenium-json 4.0.0-alpha-5

1.30.1 Available under license :

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Found in path(s):

```
* /opt/cola/permits/1685982735_1684946879.0474112/0/selenium-json-4-0-0-alpha-5-sources-
jar/org/openqa/selenium/json/TokenType.java
* /opt/cola/permits/1685982735_1684946879.0474112/0/selenium-json-4-0-0-alpha-5-sources-
jar/org/openqa/selenium/json/JsonOutput.java
* /opt/cola/permits/1685982735_1684946879.0474112/0/selenium-json-4-0-0-alpha-5-sources-
jar/org/openqa/selenium/json/InstanceCoercer.java
* /opt/cola/permits/1685982735_1684946879.0474112/0/selenium-json-4-0-0-alpha-5-sources-
jar/org/openqa/selenium/json/StaticInitializerCoercer.java
* /opt/cola/permits/1685982735_1684946879.0474112/0/selenium-json-4-0-0-alpha-5-sources-
jar/org/openqa/selenium/json/BooleanCoercer.java
* /opt/cola/permits/1685982735_1684946879.0474112/0/selenium-json-4-0-0-alpha-5-sources-
jar/org/openqa/selenium/json/JsonTypeCoercer.java
* /opt/cola/permits/1685982735_1684946879.0474112/0/selenium-json-4-0-0-alpha-5-sources-
jar/org/openqa/selenium/json/UrlCoercer.java
* /opt/cola/permits/1685982735_1684946879.0474112/0/selenium-json-4-0-0-alpha-5-sources-
jar/org/openqa/selenium/json/JsonType.java
* /opt/cola/permits/1685982735_1684946879.0474112/0/selenium-json-4-0-0-alpha-5-sources-
jar/org/openqa/selenium/json/Json.java
* /opt/cola/permits/1685982735_1684946879.0474112/0/selenium-json-4-0-0-alpha-5-sources-
jar/org/openqa/selenium/json/Input.java
* /opt/cola/permits/1685982735_1684946879.0474112/0/selenium-json-4-0-0-alpha-5-sources-
jar/org/openqa/selenium/json/NumberCoercer.java
* /opt/cola/permits/1685982735_1684946879.0474112/0/selenium-json-4-0-0-alpha-5-sources-
jar/org/openqa/selenium/json/SimplePropertyDescriptor.java
* /opt/cola/permits/1685982735_1684946879.0474112/0/selenium-json-4-0-0-alpha-5-sources-
```

```

jar/org/openqa/selenium/json/MapCoercer.java
* /opt/cola/permits/1685982735_1684946879.0474112/0/selenium-json-4-0-0-alpha-5-sources-
jar/org/openqa/selenium/json/StringCoercer.java
* /opt/cola/permits/1685982735_1684946879.0474112/0/selenium-json-4-0-0-alpha-5-sources-
jar/org/openqa/selenium/json/Types.java
* /opt/cola/permits/1685982735_1684946879.0474112/0/selenium-json-4-0-0-alpha-5-sources-
jar/org/openqa/selenium/json/JsonException.java
* /opt/cola/permits/1685982735_1684946879.0474112/0/selenium-json-4-0-0-alpha-5-sources-
jar/org/openqa/selenium/json/ObjectCoercer.java
* /opt/cola/permits/1685982735_1684946879.0474112/0/selenium-json-4-0-0-alpha-5-sources-
jar/org/openqa/selenium/json/CollectionCoercer.java
* /opt/cola/permits/1685982735_1684946879.0474112/0/selenium-json-4-0-0-alpha-5-sources-
jar/org/openqa/selenium/json/TypeCoercer.java
* /opt/cola/permits/1685982735_1684946879.0474112/0/selenium-json-4-0-0-alpha-5-sources-
jar/org/openqa/selenium/json/UuidCoercer.java
* /opt/cola/permits/1685982735_1684946879.0474112/0/selenium-json-4-0-0-alpha-5-sources-
jar/org/openqa/selenium/json/UriCoercer.java
* /opt/cola/permits/1685982735_1684946879.0474112/0/selenium-json-4-0-0-alpha-5-sources-
jar/org/openqa/selenium/json/EnumCoercer.java
* /opt/cola/permits/1685982735_1684946879.0474112/0/selenium-json-4-0-0-alpha-5-sources-
jar/org/openqa/selenium/json/JsonInputIterator.java
* /opt/cola/permits/1685982735_1684946879.0474112/0/selenium-json-4-0-0-alpha-5-sources-
jar/org/openqa/selenium/json/JsonInput.java
* /opt/cola/permits/1685982735_1684946879.0474112/0/selenium-json-4-0-0-alpha-5-sources-
jar/org/openqa/selenium/json/PropertySetting.java

```

1.31 scala-test 3.0.0

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```


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- * /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/tagobjects/FirefoxBrowser.scala
- * /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/concurrent/Timeouts.scala
- * /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/tools/XmlReporter.scala
- * /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/words/JavaCollectionWrapper.scala
- * /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/concurrent/DoNotInterrupt.scala
- * /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/words/ResultOfContainWord.scala
- * /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/words/ResultOfTheSameElementsAsApplication.scala
- * /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/tools/DistributedTestRunnerSuite.scala
- * /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/tools/JUnitXmlReporter.scala
- * /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/exceptions/TimeoutField.scala
- * /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/exceptions/TableDrivenPropertyCheckFailedException.scala
- * /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/events/Ordinal.scala
- * /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/tools/ReporterFactory.scala
- * /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/matchers/LazyArg.scala
- * /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/words/ResultOfAtMostOneElementOfApplication.scala
- * /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/jmock/JMockExpectations.scala
- * /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/words/ResultOfAWordToAMatcherApplication.scala
- * /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/words/BeWord.scala
- * /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/matchers/HavePropertyMatchResult.scala
- * /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/matchers/Matcher.scala
- * /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/words/ResultOfAnTypeInvocation.scala
- * /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/enablers/Readability.scala
- * /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/BeforeAndAfterAllConfigMap.scala
- * /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-

jar/org/scalatest/ParallelTestExecution.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/FunSuiteLike.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/Doc.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/easymock/EasyMockSugar.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/concurrent/TimeoutTask.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/words/ResultOfInOrderApplication.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/words/ResultOfSizeWordApplication.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/tools/XmlSocketReporter.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/words/ShouldVerb.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/fixture/FunSpec.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/words/ResultOfOneElementOfApplication.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/junit/JUnitSuite.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/words/ResultOfTheSameElementsInOrderAsApplication.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/fixture/Transformer.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/tools/EventToPresent.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/run.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/StreamlinedXmlEquality.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/words/ResultOfTheTypeInvocation.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/concurrent/ScalaFutures.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/FreeSpec.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/NonImplicitAssertions.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/path/FunSpecLike.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/concurrent/JavaFutures.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/exceptions/DiscardedEvaluationException.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/tagobjects/Slow.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-

jar/org/scalatest/DoNotDiscover.java
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/enablers/CheckerAsserting.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/fixture/AsyncFunSpecLike.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/fixture/FunSuite.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/LoneElement.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/FunSpecLike.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/exceptions/TestFailedException.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/words/PleaseUseNoExceptionShouldSyntaxInstead.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/tools/DashboardReporter.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/Sequential.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/tools/EventHandler.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/words/MustVerb.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/path/FunSpec.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/TestRegistration.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/SuiteMixin.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/testng/TestNGSuiteLike.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/fixture/Spec.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/tools/StandardErrReporter.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/concurrent/SignalerTimeoutTask.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/BeforeAndAfterEachTestData.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/enablers/Slicing.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/tagobjects/Retryable.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/fixture/AsyncFunSuiteLike.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/fixture/FreeSpec.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-

jar/org/scalatest/time/Units.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/words/StringVerbBlockRegistration.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/Alerting.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/words/ResultOfRegexWordApplication.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/enablers/Size.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/JSuite.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/words/ResultOfLengthWordApplication.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/tagobjects/SafariBrowser.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/tools/ReporterConfiguration.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/words/ResultOfOnlyApplication.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/BeforeAndAfterAll.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/exceptions/NotAllowedException.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/fixture/AsyncPendingTransformer.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/fixture/ConfigMapFixture.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/events/Event.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/junit/JUnit3Suite.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/concurrent/DoNotSignal.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/tagobjects/ChromeBrowser.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/words/ResultOfInOrderOnlyApplication.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/words/RegexWithGroups.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/DynaTags.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/SequentialNestedSuiteExecution.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/words/ResultOfAnWordToSymbolApplication.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/Documenter.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-

jar/org/scalatest/enablers/KeyMapping.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/tools/SuiteResult.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/StopOnFailure.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/tools/SuiteResultHolder.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/enablers/Collecting.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/words/ResultOfBeThrownBy.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/AsyncEngine.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/SlowpokeDetector.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/tools/StatusJPanel.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/FlatSpec.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/Fact.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/words/NoExceptionWord.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/selenium/WebBrowser.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/AsyncTestRegistration.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/enablers/ValueMapping.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/words/ResultOfBeWordForAnType.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/words/ResultOfGreaterThanComparison.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/fixture/SpecLike.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/words/ResultOfBeWordForNoException.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/GivenWhenThen.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/tools/HtmlReporter.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/Entry.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/words/ContainWord.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/Notifying.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/words/ResultOfGreaterThanOrEqualToComparison.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-

jar/org/scalatest/words/WritableWord.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/matchers/MatcherProducers.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/MatchersHelper.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/words/FullyMatchWord.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/concurrent/TimeLimits.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/concurrent/Waiters.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/fixture/TestDataFixture.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/BeforeAndAfter.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/Matchers.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/tools/SbtCommandParser.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/Tag.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/words/CompileWord.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/concurrent/IntegrationPatience.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/PrivateMethodTester.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/fixture/AsyncTestRegistration.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
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* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/OutcomeOf.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/jmock/JMockCycle.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/matchers/AMatcher.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/DiagrammedAssertions.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/enablers/InspectorAsserting.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/concurrent/ThreadInterruptor.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/fixture/TestRegistration.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/testng/TestNGSuite.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/PropSpec.scala

* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/tools/FriendlyParamsTranslator.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/words/StartWithWord.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/fixture/AsyncFlatSpecLike.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/words/ReadableWord.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/tools/Fragment.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/OneInstancePerTest.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/Filter.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/exceptions/GeneratorDrivenPropertyCheckFailedException.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/words/ResultOfAtLeastOneOfApplication.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/words/HaveWord.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/matchers/MatchSucceeded.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/EncodedOrdering.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/fixture/WordSpec.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/concurrent/TestThreadsStartingCounter.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/mockito/MockitoSugar.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/Stopper.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/AsyncTestSuiteMixin.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/tags/CPU.java
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/words/ResultOfAWordToBePropertyMatcherApplication.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/tagobjects/HtmlUnitBrowser.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/Retries.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/concurrent/PimpedReadWriteLock.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/enablers/Sequencing.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/fixture/AsyncFeatureSpecLike.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-

jar/org/scalatest/CancelAfterFailure.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/words/ResultOfAfterWordApplication.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/RunningTest.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/concurrent/PatienceConfiguration.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/tagobjects/CPU.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/exceptions/TestPendingException.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/Suites.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/Checkpoints.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/concurrent/ThreadSignaler.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/junit/JUnitFailedError.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/RandomTestOrder.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/matchers/BePropertyMatcher.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/Reporter.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/matchers/AnMatcher.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/tagobjects/Disk.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/words/StringVerbBehaveLikeInvocation.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/fixture/FeatureSpec.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/concurrent/PimpedThreadGroup.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/AsyncFreeSpecLike.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/tools/Framework.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/tools/MemoryReporter.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/DocSpec.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/ConfigMap.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/tools/ConcurrentDistributor.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-

jar/org/scalatest/Payloads.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/FeatureSpecLike.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/words/ResultOfNotExist.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/words/NotWord.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/WordSpec.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/junit/MyRunListener.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/tools/Runner.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/tools/SuiteDiscoveryHelper.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/words/EmptyWord.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/words/ResultOfKeyWordApplication.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/enablers/Length.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/words/ResultOfLessThanComparison.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/junit/JUnitRunner.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/Transformer.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/words/SubjectWithAfterWordRegistration.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/Slowpoke.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/WordSpecLike.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/events/Formatter.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/words/ResultOfNoneOfApplication.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/WillMatchersHelper.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/ConfigMapWrapperSuite.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/Suite.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/tools/StringReporter.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/DispatchReporter.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/Ignore.java
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-

jar/org/scalatest/CatchReporter.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/time/Span.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/tools/ColorBar.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/events/Summary.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/matchers/BePropertyMatchResult.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/words/ResultOfOfTypeInvocation.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/words/StringVerbStringInvocation.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/words/ExistWord.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/fixture/AsyncPropSpecLike.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/words/ResultOfStringPassedToVerb.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/tools/SuiteRunner.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/words/JavaMapWrapper.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/tags/Slow.java
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/exceptions/StackDepthException.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/DistributedSuiteSorter.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/DiagrammedExpr.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/AsyncFunSuiteLike.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/Outcome.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/concurrent/SocketInterruptor.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
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* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/FlatSpecLike.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
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* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
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* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/TestRerunner.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-

jar/org/scalatest/words/ResultOfAtLeastOneElementOfApplication.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
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* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/ScreenshotCapturer.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/tools/ReporterConfigParam.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
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* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
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* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/tools/AboutJDialog.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/exceptions/PayloadField.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/Distributor.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/PropSpecLike.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/StepwiseNestedSuiteExecution.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/Assertions.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/StopOnFailureReporter.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/words/ResultOfNotWordForAny.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
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* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/words/TypeCheckWord.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/Finders.java
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/concurrent/SocketSignaler.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
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* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/Status.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/BeforeAndAfterEach.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
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* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
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* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/prop/Configuration.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-

jar/org/scalatest/Inspectors.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/concurrent/Interruptor.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/enablers/Emptiness.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/DocSpecLike.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/tools/ProgressBarPanel.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/exceptions/StackDepth.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/Alerter.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/words/ResultOfLessThanOrEqualToComparison.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/concurrent/TimeLimitedTests.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/prop/PropertyChecks.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/Documenting.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/tools/RunnerGUI.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/AppendedClues.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/fixture/FixtureNodeFamily.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/words/ResultOfBeWordForAType.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/AsyncPropSpecLike.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/concurrent/AbstractPatienceConfiguration.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/concurrent/ConductorMethods.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/AsyncWordSpecLike.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/enablers/Aggregating.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/matchers/LazyMessage.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/tags/Network.java
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/words/MatcherWords.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/exceptions/ModifiableMessage.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-

jar/org/scalatest/tools/DiscoverySuite.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/words/SortedWord.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/Stepwise.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/junit/JUnitWrapperSuite.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/tools/ScalaTestAntTask.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/concurrent/Conductors.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/PartialFunctionValues.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/tagobjects/InternetExplorerBrowser.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/Informer.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/DiagrammedAssertionsMacro.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/fixture/UnitFixture.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/RecoverMethods.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/FactInspectors.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/AsyncFeatureSpecLike.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/events/NameInfo.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/words/ResultOfATypeInvocation.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/AsyncFunSpecLike.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/tools/StandardOutReporter.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/FreeSpecLike.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/tools/PrintReporter.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/words/ResultOfAWordToSymbolApplication.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/TagAnnotation.java
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/words/LengthWord.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/words/ResultOfTheSameInstanceAsApplication.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-

jar/org/scalatest/words/IncludeWord.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/ConcurrentInformer.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/SeveredStackTraces.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/TestSuite.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/words/MatchPatternWord.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/words/CanVerb.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/AsyncFlatSpecLike.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/fixture/AsyncFreeSpecLike.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/tools/AnsiColor.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/tools/SocketReporter.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/words/BehaveWord.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/exceptions/TestRegistrationClosedException.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/concurrent/DeprecatedTimeLimitedTests.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/words/EndWithWord.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/tools/SuiteSortingReporter.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/concurrent/SelectorInterruptor.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/enablers/Existence.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/words/DefinedWord.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/ResourcefulReporter.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/words/ResultOfValueWordApplication.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/SuiteRerunner.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/FeatureSpec.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/testng/TestNGWrapperSuite.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/junit/AssertionsForJUnit.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-

jar/org/scalatest/refspec/RefSpecLike.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/enablers/Definition.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/matchers/BeMatcher.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/enablers/Messaging.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/FunSpec.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/concurrent/SelectorSignaler.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/Informing.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/TryValues.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/exceptions/TestFailedDueToTimeoutException.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
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* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/fixture/NoArg.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/words/ResultOfAllElementsOfApplication.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/fixture/AsyncWordSpecLike.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
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* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/words/ResultOfMessageWordApplication.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/tools/ParsedArgs.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/ScreenshotOnFailure.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/concurrent/Eventually.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
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* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
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* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
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* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/words/ResultOfAnWordToAnMatcherApplication.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
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* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
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* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-

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* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
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* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
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* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
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* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
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* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
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* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
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* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
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* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/words/ResultOfDefinedAt.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
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* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
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* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
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* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
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* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
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* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/Engine.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/TestData.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
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* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
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* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/tools/NarrowJOptionPane.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/Args.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/prop/Whenever.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/tools/RunnerGUIState.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
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* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
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* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/OptionValues.scala

* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/words/SizeWord.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/exceptions/DuplicateTestNameException.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/fixture/Suite.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/time/Now.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/prop/Checkers.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/events/Location.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/matchers/MatchFailed.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/testng/SingleTestAnnotationTransformer.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/SuiteHelpers.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/time/SpanSugar.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/fixture/AsyncTestDataFixture.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/Shell.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/FunSuite.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/tools/TestSpecificReporter.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/package.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/words/ResultOfTaggedAsInvocation.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/EitherValues.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/Tracker.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/Rerunner.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/tools/SbtDispatchReporter.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/DistributedTestSorter.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/concurrent/Futures.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/words/ResultOfAllOfApplication.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/tools/RunDoneListener.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-

jar/org/scalatest/tagobjects/Network.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/Notifier.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/tags/Disk.java
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/fixture/PropSpec.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/enablers/WheneverAsserting.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/refspec/RefSpec.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/words/ResultOfInOrderElementsOfApplication.scala
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jar/org/scalatest/concurrent/package.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/InsertionOrderSet.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/FixtureContext.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/enablers/Timed.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/FutureOutcome.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/tools/AnnotationHelper.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/concurrent/AsyncTimeLimitedTests.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/compatible/Assertion.scala

* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/CompleteLastly.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/concurrent/AsyncCancelAfterFailure.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/enablers/Futuristic.scala

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* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/jmock/JMockCycleFixture.scala

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* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/concurrent/SerialExecutionContext.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/prop/Edges.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/tools/SuiteParam.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/PendingStatement.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/concurrent/SleepHelper.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/mock/package.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/UnquotedString.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/Expectations.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/JavaClassesWrappers.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/prop/Randomizer.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/prop/GeneratorChecks.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/tools/NestedSuiteParam.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/tools/TestSpec.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/prop/Generator.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/tools/ArgsParser.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/DeferredAbortedSuite.scala

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- * /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/fixture/FreeSpecLike.scala
- * /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/fixture/FeatureSpecLike.scala
- * /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/AsyncFeatureSpec.scala
- * /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/AsyncPropSpec.scala
- * /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/AsyncFlatSpec.scala
- * /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/AsyncFreeSpec.scala
- * /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/fixture/AsyncTestSuite.scala
- * /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/fixture/AsyncFunSuite.scala
- * /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/fixture/FunSpecLike.scala
- * /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/fixture/AsyncPropSpec.scala
- * /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/matchers/MatchPatternHelper.scala
- * /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/fixture/AsyncFunSpec.scala
- * /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/AsyncTestSuite.scala
- * /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/fixture/FunSuiteLike.scala
- * /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/selenium/Page.scala
- * /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/fixture/WordSpecLike.scala
- * /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/AsyncFunSuite.scala
- * /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/tags/InternetExplorerBrowser.java
- * /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/AsyncFunSpec.scala
- * /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/fixture/AsyncConfigMapFixture.scala
- * /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-

jar/org/scalatest/matchers/MatchPatternMacro.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/StreamlinedXml.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/matchers/TypeMatcherMacro.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/tags/HtmlUnitBrowser.java
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/fixture/AsyncFeatureSpec.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/StreamlinedXmlNormMethods.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/fixture/AsyncFreeSpec.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/fixture/FlatSpecLike.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/tags/FirefoxBrowser.java
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/fixture/PropSpecLike.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/tags/SafariBrowser.java
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/AsyncWordSpec.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/matchers/TypeMatcherHelper.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/fixture/AsyncFlatSpec.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/words/ResultOfNoElementsOfApplication.scala
* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-
jar/org/scalatest/tags/ChromeBrowser.java

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- * /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/CompileMacro.scala
- * /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/AssertionsMacro.scala
- * /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/DiagrammedExprMacro.scala

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factExceptionWasThrown=Exception {0} was thrown
 factNoExceptionWasThrown=No exception was thrown
 midSentenceFactExceptionWasThrown=exception {0} was thrown
 midSentenceFactNoExceptionWasThrown=no exception was thrown
 exceptionExpected=Expected exception {0} to be thrown, but no exception was thrown
 expectedExceptionWasThrown=Did not expect exception {0} to be thrown, but it was thrown
 midSentenceExceptionExpected=expected exception {0} to be thrown, but no exception was thrown
 midSentenceExpectedExceptionWasThrown=did not expect exception {0} to be thrown, but it was thrown
 noExceptionWasThrown=No exception was thrown.
 resultWas=No exception was thrown. Instead, result was: {0}
 exceptionThrown={0} was thrown.
 didNotEqual={0} did not equal {1}
 wrongException=Expected exception {0} to be thrown, but {1} was thrown
 midSentenceWrongException=expected exception {0} to be thrown, but {1} was thrown
 anException=Expected no exception to be thrown, but {0} was thrown.
 exceptionNotExpected=An unexpected {0} was thrown.
 expectedButGot=Expected {0}, but got {1}
 expectedAndGot=Expected {0}, and got {1}
 midSentenceExpectedButGot=expected {0}, but got {1}
 midSentenceExpectedAndGot=expected {0}, and got {1}
 conditionFalse=A boolean condition should have been true.
 refNotNull=A reference should have been null.
 refNull=A reference should have been non-null.
 floatInfinite=A float value was infinite. Expected: {0} Actual: {1}. Delta: {2}.
 floatNaN=A float value was NaN. Expected: {0} Actual: {1}. Delta: {2}.
 doubleInfinite=A double value was infinite. Expected: {0} Actual: {1}. Delta: {2}.
 doubleNaN=A double value was NaN. Expected: {0} Actual: {1}. Delta: {2}.
 testEvent=Test Event: {0}: {1}

expressionFailed={0} failed

testFailed=TEST FAILED - {0}
 testStarting=Test Starting - {0}

testSucceeded=Test Succeeded - {0}
 testIgnored=Test Ignored - {0}
 testPending=Test Pending - {0}
 testCanceled=Test Canceled - {0}
 suiteStarting=Suite Starting - {0}
 suiteCompleted=Suite Completed - {0}
 suiteAborted=SUITE ABORTED - {0}
 runAborted=*** RUN ABORTED ***
 infoProvided=Info Provided - {0}
 alertProvided=Alert Provided - {0}
 noteProvided=Note Provided - {0}
 markupProvided=Markup Provided - {0}
 scopeOpened=Scope Opened - {0}
 scopeClosed=Scope Closed - {0}
 scopePending=Scope Pending - {0}
 payloadToString=payload.get.toString: {0}

noNameSpecified=(No name specified)

runStarting=Run starting. Expected test count is: {0}
 rerunStarting=Rerun starting. Expected test count is: {0}
 rerunCompleted=Rerun completed. Total number of tests run was: {0}
 rerunStopped=Rerun stopped. Total number of tests run was: {0}
 friendlyFailure=Invalid option given to Runner.\njava org.suiterunner.Runner [option1 [option2..]] [suite1
 [suite2...]]\n Valid options are:\n -g display graphical user interface\n -o print results to standard output\n -e
 print results to standard error\n -f <filename> print results to file\n -r <reporter class name> pass test events to
 reporter
 showStackTraceOption=Show Stack Traces
 suitebeforeclass=Suite class names must appear after reporters.
 reportTestsStarting=Report Tests Starting
 reportTestsSucceeded=Report Test Success
 reportTestsFailed=Report Test Failed
 reportAlerts=Report Alerts
 reportInfo=Report Miscellaneous Information Messages
 reportStackTraces=Include Stack Traces in Reports
 reportRunStarting=Report Run Starting
 reportRunCompleted=Report Run Completed
 reportSummary=Show A Summary of Results
 probarg=Problem arg: {0}
 errBuildingDispatchReporter=Error preparing reporters.
 missingFileName=A -f option must be followed by an output file name.
 missingReporterClassName=A -r option must be followed by a Reporter class name.
 errParsingArgs=Error parsing command line arguments.
 invalidConfigOption=Invalid configuration option: {0}
 cantOpenFile=Unable to create a PrintReporter that prints reports to a file.
 reporterThrew=Reporter completed abruptly with an exception after receiving event: {0}.
 reporterDisposeThrew=Reporter completed abruptly with an exception on invocation of the dispose method.
 slowpokeDetectorEventNotFound=The "Slowpoke" detector received a test-finished event for which it had not seen

a matching test-starting event: suiteName = {0}, suiteId = {1}, testName = {2}.

suiteExecutionStarting=The run method of a nested suite is about to be invoked.

executeException=Exception encountered when invoking run on a nested suite.

executeExceptionWithMessage=Exception encountered when invoking run on a nested suite - {0}

runOnSuiteException=Exception encountered when invoking run on a suite.

runOnSuiteExceptionWithMessage=Exception encountered when invoking run on a suite - {0}

suiteCompletedNormally=The run method of a nested suite returned normally.

notOneOfTheChosenStyles={0} is not one of the chosen styles, which are: {1}. For information on chosen styles, see the Scaladoc documentation for org.scalatest.tools.Runner.

notTheChosenStyle={0} is not the chosen style, which is: {1}. For information on chosen styles, see the Scaladoc documentation for org.scalatest.tools.Runner.

Rerun=Rerun

executeStopping=The run method of a Suite is returning because a stop was requested.

illegalReporterArg=An illegal reporter argument was specified on the command line: "{0}".

cantLoadReporterClass=Couldn't load a Reporter class: "{0}".

cantInstantiateReporter=Couldn't instantiate a Reporter class: "{0}". Is the class public with a public no-arg constructor?

overwriteExistingFile=The file "{0}" already exists in this directory. Replace it?

cannotLoadSuite=Unable to load a Suite class. This could be due to an error in your runpath. Missing class: {0}

cannotLoadDiscoveredSuite=Unable to load a Suite class that was discovered in the runpath: {0}

nonSuite=One or more requested classes are not Suites:

cannotInstantiateSuite=Unable to instantiate a Suite class. Is each Suite class you specified public, with a public no-arg constructor? Suite class name: {0}

cannotLoadClass=A needed class was not found. This could be due to an error in your runpath. Missing class: {0}

bigProblems=An exception or error caused a run to abort.

bigProblemsWithMessage=An exception or error caused a run to abort: {0}

bigProblemsMaybeCustomReporter=An exception or error caused a run to abort. This may have been caused by a problematic custom reporter.

cannotFindMethod=The Suite to rerun does not contain the method to rerun. Method name: {0}

securityWhenRerunning=A SecurityException was thrown when attempting a rerun: {0}

overwriteDialogTitle=Save

openPrefs=Open Recipe

savePrefs=Save Recipe

runsFailures=Runs and Failures

allEvents=All Events

needFileNameTitle=Edit Reporter Configuration

needFileNameMessage=A file name is required to create a File Reporter. Please supply a valid file name.

needClassNameTitle=Edit Reporter Configuration

needClassNameMessage=A Reporter class name is required to create a Custom Reporter. Please supply a fully qualified name of a class that implements org.suiterunner.Reporter.

NoSuitesFoundText=No Suites found in the runpath

cantInvokeExceptionText=Can't invoke method

multipleTestsFailed=*** {0} TESTS FAILED ***

oneTestFailed=*** 1 TEST FAILED ***

oneSuiteAborted=*** 1 SUITE ABORTED ***

multipleSuitesAborted=*** {0} SUITES ABORTED ***

allTestsPassed=All tests passed.

noTestsWereExecuted=No tests were executed.

eventsLabel=Events:
detailsLabel=Details:
testsRun=Tests Run:
testsFailed=Failed:
testsExpected=Expected:
testsIgnored=Ignored:
testsPending=Pending:
testsCanceled=Canceled:

ScalaTestTitle=ScalaTest
ScalaTestMenu=ScalaTest
Run=Run
Stop=Stop
Exit=Exit
About=About...
AboutBoxTitle=About ScalaTest

AppName=ScalaTest
AppCopyright=Copyright (C) 2001-2014 Artima, Inc. All rights reserved.
AppURL=www.scalatest.org
Reason=A tool for testing Scala and Java software
Trademarks=ScalaTest is a trademark of Artima, Inc.
ArtimaInc=Artima, Inc.
MoreInfo=For more information, visit:

ViewMenu=View

JavaSuiteRunnerFile=srj
JavaSuiteRunnerFileDescription=Recipe Files (*.srj)

defaultConfiguration=default

reporterTypeLabel=Reporter Type:
graphicReporterType=Graphic Reporter
customReporterType=Custom Reporter
stdoutReporterType=Standard Output Reporter
stderrReporterType=Standard Error Reporter
fileReporterType=File Reporter
reporterConfigLabel=Reporter Configuration: {0}
unusedField=Field for Custom and File Reporters:

couldntRun=Couldn't Run
couldntRerun=Couldn't Rerun

MENU_PRESENT_DISCOVERY_STARTING=Discovery Starting Reports
MENU_PRESENT_DISCOVERY_COMPLETED=Discovery Completed Reports
MENU_PRESENT_RUN_STARTING=Run Starting Reports

MENU_PRESENT_TEST_STARTING=Test Starting Reports
MENU_PRESENT_TEST_FAILED=Test Failed Reports
MENU_PRESENT_TEST_SUCCEEDED=Test Succeeded Reports
MENU_PRESENT_TEST_IGNORED=Test Ignored Reports
MENU_PRESENT_TEST_PENDING=Test Pending Reports
MENU_PRESENT_TEST_CANCELED=Test Canceled Reports
MENU_PRESENT_SUITE_STARTING=Suite Starting reports
MENU_PRESENT_SUITE_ABORTED=Suite Aborted Reports
MENU_PRESENT_SUITE_COMPLETED=Suite Completed Reports
MENU_PRESENT_INFO_PROVIDED=Information Provided Reports
MENU_PRESENT_ALERT_PROVIDED=Alert Reports
MENU_PRESENT_NOTE_PROVIDED=Note Reports
MENU_PRESENT_SCOPE_OPENED=Scope Opened Reports
MENU_PRESENT_SCOPE_CLOSED=Scope Closed Reports
MENU_PRESENT_SCOPE_PENDING=Scope Pending Reports
MENU_PRESENT_MARKUP_PROVIDED=Markup Provided Reports
MENU_PRESENT_RUN_STOPPED=Run Stopped Reports
MENU_PRESENT_RUN_ABORTED=Run Aborted Reports
MENU_PRESENT_RUN_COMPLETED=Run Completed Reports

RUN_STARTING=Run Starting
TEST_STARTING=Test Starting
TEST_FAILED=Test Failed
TEST_SUCCEEDED=Test Succeeded
TEST_IGNORED=Test Ignored
TEST_PENDING=Test Pending
TEST_CANCELED=Test Canceled
SUITE_STARTING=Suite Starting
SUITE_ABORTED=Suite Aborted
SUITE_COMPLETED=Suite Completed
INFO_PROVIDED=Info Provided
ALERT_PROVIDED=Alert Provided
NOTE_PROVIDED=Note Provided
SCOPE_OPENED=Scope Opened
SCOPE_CLOSED=Scope Closed
SCOPE_PENDING=Scope Pending
MARKUP_PROVIDED=Markup Provided
RUN_STOPPED=Run Stopped
RUN_ABORTED=Run Aborted
RUN_COMPLETED=Run Completed

DISCOVERY_STARTING=Discovery Starting
DISCOVERY_COMPLETED=Discovery Completed
RERUN_DISCOVERY_STARTING=Rerun Discovery Starting
RERUN_DISCOVERY_COMPLETED=Rerun Discovery Completed
RERUN_RUN_STARTING=Rerun Starting
RERUN_TEST_STARTING=Rerun Test Starting
RERUN_TEST_FAILED=Rerun Test Failed

RERUN_TEST_SUCCEEDED=Rerun Test Succeeded
RERUN_TEST_IGNORED=Rerun Test Ignored
RERUN_TEST_PENDING=Rerun Test Pending
RERUN_TEST_CANCELED=Rerun Test Canceled
RERUN_SUITE_STARTING=Rerun Suite Starting
RERUN_SUITE_ABORTED=Rerun Suite Aborted
RERUN_SUITE_COMPLETED=Rerun Suite Completed
RERUN_INFO_PROVIDED=Rerun Info Provided
RERUN_ALERT_PROVIDED=Rerun Alert Provided
RERUN_NOTE_PROVIDED=Rerun Note Provided
RERUN_MARKUP_PROVIDED=Rerun Markup Provided
RERUN_RUN_STOPPED=Rerun Stopped
RERUN_RUN_ABORTED=Rerun Aborted
RERUN_RUN_COMPLETED=Rerun Completed
RERUN_SCOPE_OPENED=Rerun Scope Opened
RERUN_SCOPE_CLOSED=Rerun Scope Closed
RERUN_SCOPE_PENDING=Rerun Scope Pending

DetailsEvent=Event
DetailsSuiteId=Suite ID
DetailsName=Name
DetailsMessage=Message
LineNumber=Line
DetailsDate=Date
DetailsThread=Thread
DetailsThrowable=Exception
DetailsCause=Cause
None=None
DetailsDuration=Duration
DetailsSummary=Summary

should=should {0}
itShould=it should {0}
prefixSuffix={0} {1}
prefixShouldSuffix={0} should {1}

testSucceededIconChar=-
testFailedIconChar=-
iconPlusShortName={0} {1}
iconPlusShortNameAndNote={0} {1} {2}
infoProvidedIconChar=+
markupProvidedIconChar=+
failedNote=*** FAILED ***
abortedNote=*** ABORTED ***
specTextAndNote={0} {1}
ignoredNote=!!! IGNORED !!!
pendingNote=(pending)
canceledNote=!!! CANCELED !!!

infoProvidedNote=
alertProvidedNote=
noteProvidedNote=
scopeOpenedNote=
scopeClosedNote=

givenMessage=Given {0}
whenMessage=When {0}
thenMessage=Then {0}
andMessage=And {0}

scenario=Scenario: {0}
commaBut={0}, but {1}
commaAnd={0}, and {1}
commaDoubleAmpersand={({0}) && ({1})}
commaDoublePipe={({0}) || ({1})}
unaryBang=!({0})
equaled={0} equaled {1}
was={0} was {1}
wasNot={0} was not {1}
wasA={0} was a {1}
wasNotA={0} was not a {1}
wasAn={0} was an {1}
wasNotAn={0} was not an {1}
wasDefinedAt={0} was defined at {1}
wasNotDefinedAt={0} was not defined at {1}
equaledPlusOrMinus={0} equaled {1} plus or minus {2}
didNotEqualPlusOrMinus={0} did not equal {1} plus or minus {2}
wasPlusOrMinus={0} was {1} plus or minus {2}
wasNotPlusOrMinus={0} was not {1} plus or minus {2}
wasLessThan={0} was less than {1}
wasNotLessThan={0} was not less than {1}
wasGreaterThan={0} was greater than {1}
wasNotGreaterThan={0} was not greater than {1}
wasLessThanOrEqualTo={0} was less than or equal to {1}
wasNotLessThanOrEqualTo={0} was not less than or equal to {1}
wasGreaterThanOrEqualTo={0} was greater than or equal to {1}
wasNotGreaterThanOrEqualTo={0} was not greater than or equal to {1}
wasSameInstanceAs={0} was the same instance as {1}
wasNotSameInstanceAs={0} was not the same instance as {1}
booleanExpressionWas=the boolean expression was {0}
booleanExpressionWasNot=the boolean expression was not {0}
wasAnInstanceOf={0} was an instance of {1}
wasNotAnInstanceOf={0} was not an instance of {1}, but an instance of {2}
wasEmpty={0} was empty
wasNotEmpty={0} was not empty
wasNull=The reference was null
midSentenceWasNull=the reference was null

wasNotNull={0} was not null
equaledNull=The reference equaled null
midSentenceEqualedNull=the reference equaled null
didNotEqualNull={0} did not equal null
wasNone={0} was None
wasNotNone={0} was not None
wasNil={0} was Nil
wasNotNil={0} was not Nil
wasSome={0} was equal to Some({1})
wasNotSome={0} was not equal to Some({1})
hasNeitherAOrAnMethod={0} has neither a {1} nor an {2} method
hasNeitherAnOrAnMethod={0} has neither an {1} nor an {2} method
hasBothAAndAnMethod={0} has both a {1} and an {2} method
hasBothAnAndAnMethod={0} has both an {1} and an {2} method
didNotEndWith={0} did not end with substring {1}
endedWith={0} ended with substring {1}
didNotStartWith={0} did not start with substring {1}
startedWith={0} started with substring {1}
didNotStartWithRegex={0} did not start with a substring that matched the regular expression {1}
startedWithRegex={0} started with a substring that matched the regular expression {1}
startedWithRegexButNotGroup={0} started with a substring that matched the regular expression {1}, but {2} did not match group {3}
startedWithRegexButNotGroupAtIndex={0} started with a substring that matched the regular expression {1}, but {2} did not match group {3} at index {4}
startedWithRegexAndGroup={0} started with a substring that matched the regular expression {1} and group {2}
didNotEndWithRegex={0} did not end with a substring that matched the regular expression {1}
endedWithRegex={0} ended with a substring that matched the regular expression {1}
endedWithRegexButNotGroup={0} ended with a substring that matched the regular expression {1}, but {2} did not match group {3}
endedWithRegexButNotGroupAtIndex={0} ended with a substring that matched the regular expression {1}, but {2} did not match group {3} at index {4}
endedWithRegexAndGroup={0} ended with a substring that matched the regular expression {1} and group {2}
didNotContainNull={0} did not contain null
containedNull={0} contained null
didNotContainKey={0} did not contain key {1}
containedKey={0} contained key {1}
didNotContainValue={0} did not contain value {1}
containedValue={0} contained value {1}
hadSizeInsteadOfExpectedSize={0} had size {1} instead of expected size {2}
hadSize={0} had size {1}
hadMessageInsteadOfExpectedMessage={0} had message {1} instead of expected message {2}
hadExpectedMessage={0} had message {1}
didNotContainExpectedElement={0} did not contain element {1}
containedExpectedElement={0} contained element {1}
didNotIncludeSubstring={0} did not include substring {1}
includedSubstring={0} included substring {1}
didNotIncludeRegex={0} did not include substring that matched regex {1}
includedRegex={0} included substring that matched regex {1}

includedRegexButNotGroup={0} included substring that matched regex {1}, but {2} did not match group {3}

includedRegexButNotGroupAtIndex={0} included substring that matched regex {1}, but {2} did not match group {3} at index {4}

includedRegexAndGroup={0} included substring that matched regex {1} and group {2}

hadLengthInsteadOfExpectedLength={0} had length {1} instead of expected length {2}

hadLength={0} had length {1}

didNotFullyMatchRegex={0} did not fully match the regular expression {1}

fullyMatchedRegex={0} fully matched the regular expression {1}

fullyMatchedRegexButNotGroup={0} fully matched the regular expression {1}, but {2} did not match group {3}

fullyMatchedRegexButNotGroupAtIndex={0} fully matched the regular expression {1}, but {2} did not match group {3} at index {4}

fullyMatchedRegexAndGroup={0} fully matched the regular expression {1} and group {2}

matchResultedInFalse=The value {0} matched a case in the specified partial function, but the result was false

didNotMatch=The value {0} did not match any case in the specified partial function

matchResultedInTrue=The value {0} matched a case in the specified partial function, and the result was true

noLengthStructure=have length ({0}) used with an object that had no public field or method named 'length' or 'getLength'

noSizeStructure=have size ({0}) used with an object that had no public field or method named 'size' or 'getSize'

sizeAndGetSize=have size ({0}) used with an object that has multiple fields and/or methods named 'size' and 'getSize'

negativeOrZeroRange=Range ({0}) passed to +- was zero or negative. Must be a positive non-zero number.

didNotContainSameElements={0} did not contain the same elements as {1}

containedSameElements={0} contained the same elements as {1}

didNotContainSameElementsInOrder={0} did not contain the same elements in the same (iterated) order as {1}

containedSameElementsInOrder={0} contained the same elements in the same (iterated) order as {1}

didNotContainAllOfElements={0} did not contain all of ({1})

containedAllOfElements={0} contained all of ({1})

allOfDuplicate=allOf must not contain any duplicated values

didNotContainAllElementsOf={0} did not contain all elements of {1}

containedAllElementsOf={0} contained all elements of {1}

didNotContainAllOfElementsInOrder={0} did not contain all of ({1}) in order

containedAllOfElementsInOrder={0} contained all of ({1}) in order

didNotContainAllElementsOfInOrder={0} did not contain all elements of {1} in order

containedAllElementsOfInOrder={0} contained all elements of {1} in order

inOrderDuplicate=inOrder must not contain any duplicated values

didNotContainOneOfElements={0} did not contain one (and only one) of ({1})

containedOneOfElements={0} contained one (and only one) of ({1})

didNotContainOneElementOf={0} did not contain one (and only one) element of {1}

containedOneElementOf={0} contained one (and only one) element of {1}

didNotContainAtLeastOneOf={0} did not contain at least one of ({1})

containedAtLeastOneOf={0} contained at least one of ({1})

atLeastOneOfDuplicate=atLeastOneOf must not contain any duplicated values

didNotContainAtLeastOneElementOf={0} did not contain at least one element of {1}

containedAtLeastOneElementOf={0} contained at least one element of {1}

oneOfDuplicate=oneOf must not contain any duplicated values

didNotContainOnlyElements={0} did not contain only ({1})

containedOnlyElements={0} contained only ({1})

didNotContainOnlyElementsWithFriendlyReminder={0} did not contain only ({1}), did you forget to say : _*

containedOnlyElementsWithFriendlyReminder={0} contained only ({1}), did you forget to say : _*
onlyDuplicate=only must not contain any duplicated values
onlyEmpty=only must be given at least one element
didNotContainInOrderOnlyElements={0} did not contain only ({1}) in order
containedInOrderOnlyElements={0} contained only ({1}) in order
inOrderOnlyDuplicate=inOrderOnly must not contain any duplicated values
atMostOneOfDuplicate=atMostOneOf must not contain any duplicated values
didNotContainAtMostOneOf={0} did not contain at most one of ({1})
containedAtMostOneOf={0} contained at most one of ({1})
atMostOneElementOfDuplicate=atMostOneElementOf must not contain any duplicated values
didNotContainAtMostOneElementOf={0} did not contain at most one element of {1}
containedAtMostOneElementOf={0} contained at most one element of {1}
noneOfDuplicate=noneOf must not contain any duplicated values
didNotContainA={0} did not contain a {1}
containedA={0} contained a {1}: {2}
didNotContainAn={0} did not contain an {1}
containedAn={0} contained an {1}: {2}
wasNotSorted={0} was not sorted
wasSorted={0} was sorted
wasNotDefined={0} was not defined
wasDefined={0} was defined
doesNotExist={0} does not exist
exists={0} exists
wasNotReadable={0} was not readable
wasReadable={0} was readable
wasNotWritable={0} was not writable
wasWritable={0} was writable
didNotMatchTheGivenPattern={0} did not match the given pattern
matchedTheGivenPattern={0} matched the given pattern
duplicateTestName=Duplicate test name: {0}
cantNestFeatureClauses=Feature clauses cannot be nested.
itCannotAppearInsideAnotherIt=An it clause may not appear inside another it clause.
itCannotAppearInsideAnotherItOrThey=An it clause may not appear inside another it or they clause.
theyCannotAppearInsideAnotherItOrThey=A they clause may not appear inside another it or they clause.
describeCannotAppearInsideAnIt=A describe clause may not appear inside an it clause.
ignoreCannotAppearInsideAnIt=An ignore clause may not appear inside an it clause.
ignoreCannotAppearInsideAnItOrAThey=An ignore clause may not appear inside an it or a they clause.
scenarioCannotAppearInsideAnotherScenario=A scenario clause may not appear inside another scenario clause.
featureCannotAppearInsideAScenario=A feature clause may not appear inside a scenario clause.
ignoreCannotAppearInsideAScenario=An ignore clause may not appear inside a scenario clause.
testCannotAppearInsideAnotherTest=A test clause may not appear inside another test clause.
propertyCannotAppearInsideAnotherProperty=A property clause may not appear inside another property clause.
ignoreCannotAppearInsideATest=An ignore clause may not appear inside a test clause.
ignoreCannotAppearInsideAProperty=An ignore clause may not appear inside a property clause.
shouldCannotAppearInsideAnIn=a "should" clause may not appear inside an "in" clause
mustCannotAppearInsideAnIn=a "must" clause may not appear inside an "in" clause
whenCannotAppearInsideAnIn=a "when" clause may not appear inside an "in" clause
thatCannotAppearInsideAnIn=a "that" clause may not appear inside an "in" clause

whichCannotAppearInsideAnIn=a "which" clause may not appear inside an "in" clause
canCannotAppearInsideAnIn=a "can" clause may not appear inside an "in" clause
behaviorOfCannotAppearInsideAnIn=a "behavior of" clause may not appear inside an "in" clause
dashCannotAppearInsideAnIn=a "-" clause may not appear inside an "in" clause
inCannotAppearInsideAnotherIn=An in clause may not appear inside another in clause.
inCannotAppearInsideAnotherInOrIs=An in clause may not appear inside another in or is clause.
isCannotAppearInsideAnotherInOrIs=An is clause may not appear inside another in or is clause.
ignoreCannotAppearInsideAnIn=An ignore clause may not appear inside an in clause.
ignoreCannotAppearInsideAnInOrAnIs=An ignore clause may not appear inside an in or an is clause.
registrationAlreadyClosed=Test Registration is already closed.
itMustAppearAfterTopLevelSubject=An it clause must only appear after a top level subject clause.
theyMustAppearAfterTopLevelSubject=A they clause must only appear after a top level subject clause.
allPropertiesHadExpectedValues=All properties had their expected values, respectively, on object {0}
midSentenceAllPropertiesHadExpectedValues=all properties had their expected values, respectively, on object {0}
propertyHadExpectedValue=The {0} property had its expected value {1}, on object {2}
midSentencePropertyHadExpectedValue=the {0} property had its expected value {1}, on object {2}
propertyDidNotHaveExpectedValue=The {0} property had value {2}, instead of its expected value {1}, on object {3}
midSentencePropertyDidNotHaveExpectedValue=the {0} property had value {2}, instead of its expected value {1}, on object {3}
propertyNotFound=have {0} ({1}) used with an object that had no public field or method named {0} or {2}
propertyCheckSucceeded=Property check succeeded
lengthPropertyNotAnInteger=The length property was none of Byte, Short, Int, or Long.
sizePropertyNotAnInteger=The size property was none of Byte, Short, Int, or Long.
wasEqualTo={0} was equal to {1}
wasNotEqualTo={0} was not equal to {1}
printedReportPlusLineNumber={0} ({1})
printedReportPlusPath={0}\n** {1} **
propertyFailed=Falsified after {0} successful property evaluations.
propertyExhausted=Gave up after {0} successful property evaluations. {1} evaluations were discarded.
undecoratedPropertyCheckFailureMessage=Property check failed.
propertyException={0} was thrown during property evaluation.
generatorException={0} was thrown during argument generation.
thrownExceptionsMessage=Message: {0}
thrownExceptionsLocation=Location: ({0})
propCheckExhausted=Gave up after {0} successful property evaluations. {1} evaluations were discarded.
propCheckExhaustedAfterOne=Gave up after 1 successful property evaluation. {0} evaluations were discarded.
occurredAtRow=Occurred at table row {0} (zero based, not counting headings), which had values (
occurredOnValues=Occurred when passed generated values (
propCheckLabel=Label of failing property:
propCheckLabels=Labels of failing property:
suiteAndTestNamesFormattedForDisplay={0}, {1}
notLoneElement=Expected {0} to contain exactly 1 element, but it has size {1}
testNGConfigFailed=TestNG configuration failed
jUnitTestFailed=A JUnit test failed
testSummary=Tests: succeeded {0}, failed {1}, canceled {2}, ignored {3}, pending {4}
suiteSummary=Suites: completed {0}, aborted {1}
suiteScopeSummary=Suites: completed {0}, aborted {1} Scopes: pending {2}

runCompletedIn=Run completed in {0}.

runCompleted=Run completed.

runAbortedIn=Run aborted after {0}.

runStoppedIn=Run stopped after {0}.

runStopped=Run aborted.

totalNumberOfTestsRun=Total number of tests run: {0}

oneMillisecond=1 millisecond

milliseconds={0} milliseconds

oneSecond=1 second

oneSecondOneMillisecond=1 second, 1 millisecond

oneSecondMilliseconds=1 second, {0} milliseconds

seconds={0} seconds

secondsMilliseconds={0} seconds, {1} milliseconds

oneMinute=1 minute

oneMinuteOneSecond=1 minute, 1 second

oneMinuteSeconds=1 minute, {0} seconds

minutes={0} minutes

minutesOneSecond={0} minutes, 1 second

minutesSeconds={0} minutes, {1} seconds

oneHour=1 hour

oneHourOneSecond=1 hour, 1 second

oneHourSeconds=1 hour, {0} seconds

oneHourOneMinute=1 hour, 1 minute

oneHourOneMinuteOneSecond=1 hour, 1 minute, 1 second

oneHourOneMinuteSeconds=1 hour, 1 minute, {0} seconds

oneHourMinutes=1 hour, {0} minutes

oneHourMinutesOneSecond=1 hour, {0} minutes, 1 second

oneHourMinutesSeconds=1 hour, {0} minutes, {1} seconds

hours={0} hours

hoursOneSecond={0} hours, 1 second

hoursSeconds={0} hours, {1} seconds

hoursOneMinute={0} hours, 1 minute

hoursOneMinuteOneSecond={0} hours, 1 minute, 1 second

hoursOneMinuteSeconds={0} hours, 1 minute, {1} seconds

hoursMinutes={0} hours, {1} minutes

hoursMinutesOneSecond={0} hours, {1} minutes, 1 second

hoursMinutesSeconds={0} hours, {1} minutes, {2} seconds

withDuration={0} ({1})

feature=Feature: {0}

needFixtureInTestName=No test found with the name {0}, because in an org.scalatest.fixture.Suite test names end in either "(Fixture)" or "(Fixture, Informer)"

testNotFound=Test not found: {0}

pendingUntilFixed=A block of code that was marked pendingUntilFixed did not throw an exception. Remove "pendingUntilFixed" and the curly braces to eliminate this failure.

dashXDeprecated=-x has been deprecated and will select an XML reporter in a future version of ScalaTest. Please use -l instead of -x to specify tagsToExclude.

threadCalledAfterConductingHasCompleted=Cannot invoke the thread method on Conductor after its multi-threaded test has completed.

cannotInvokeWhenFinishedAfterConduct=Cannot invoke whenFinished after conduct (which is called by whenFinished) has been invoked.

cantRegisterThreadsWithSameName=Cannot register two threads with the same name. Duplicate name: {0}.

cannotCallConductTwice=A Conductor's conduct method can only be invoked once.

cannotWaitForBeatZero=A Conductor starts at beat zero, so you can't wait for beat zero.

cannotWaitForNegativeBeat=A Conductor starts at beat zero, so you can only wait for a beat greater than zero.

cannotPassNonPositiveClockPeriod=The clockPeriod passed to conduct must be greater than zero. Value passed was: {0}.

cannotPassNonPositiveTimeout=The timeout passed to conduct must be greater than zero. Value passed was: {0}.

whenFinishedCanOnlyBeCalledByMainThread=whenFinished can only be called by the thread that created Conductor.

suspectedDeadlock=Test aborted because of suspected deadlock. No progress has been made (the beat did not advance) for {0} clock periods ({1}).

testTimedOut=Test timed out because threads existed that were runnable while no progress was made (the beat did not advance) for {0}.

suspectedDeadlockDEPRECATED=Test aborted because of suspected deadlock. No progress has been made (the beat did not advance) for {0} clock periods ({1} ms).

testTimedOutDEPRECATED=Test timed out because threads existed that were runnable while no progress was made (the beat did not advance) for {0} seconds.

concurrentInformerMod=Two threads have apparently attempted to run a suite at the same time. This has resulted in both threads attempting to concurrently change the current Informer. Suite class name: {0}

concurrentNotifierMod=Two threads have apparently attempted to run a suite at the same time. This has resulted in both threads attempting to concurrently change the current Notifier. Suite class name: {0}

concurrentAlerterMod=Two threads have apparently attempted to run a suite at the same time. This has resulted in both threads attempting to concurrently change the current Alerter. Suite class name: {0}

concurrentDocumenterMod=Two threads have apparently attempted to run a suite at the same time. This has resulted in both threads attempting to concurrently change the current Documenter. Suite class name: {0}

cantCallInfoNow="Sorry, you can only call the info method during the registration and running phases (i.e., when constructing or executing this {0})."

cantCallMarkupNow="Sorry, you can only call the markup method during the registration and running phases (i.e., when constructing or executing this {0})."

concurrentFunSuiteMod=Two threads attempted to modify FunSuite's internal data, which should only be modified by the thread that constructs the object. This likely means that a subclass has allowed the this reference to escape during construction, and some other thread attempted to invoke the "testsFor" or "test" methods on the object before the first thread completed its construction.

concurrentPropSpecMod=Two threads attempted to modify PropSpec's internal data, which should only be modified by the thread that constructs the object. This likely means that a subclass has allowed the this reference to escape during construction, and some other thread attempted to invoke the "testsFor" or "test" methods on the object before the first thread completed its construction.

concurrentFixtureFunSuiteMod=Two threads attempted to modify FixtureFunSuite's internal data, which should only be modified by the thread that constructs the object. This likely means that a subclass has allowed the this reference to escape during construction, and some other thread attempted to invoke the "testsFor" or "test" methods on the object before the first thread completed its construction.

concurrentFixturePropSpecMod=Two threads attempted to modify FixturePropSpec's internal data, which should only be modified by the thread that constructs the object. This likely means that a subclass has allowed the this reference to escape during construction, and some other thread attempted to invoke the "testsFor" or "test" methods on the object before the first thread completed its construction.

concurrentSpecMod=Two threads attempted to modify Spec's internal data, which should only be modified by the

thread that constructs the object. This likely means that a subclass has allowed the this reference to escape during construction, and some other thread attempted to invoke the "describe" or "it" methods on the object before the first thread completed its construction.

concurrentFreeSpecMod=Two threads attempted to modify FreeSpec's internal data, which should only be modified by the thread that constructs the object. This likely means that a subclass has allowed the this reference to escape during construction, and some other thread attempted to invoke the "describe" or "it" methods on the object before the first thread completed its construction.

concurrentFixtureSpecMod=Two threads attempted to modify FixtureSpec's internal data, which should only be modified by the thread that constructs the object. This likely means that a subclass has allowed the this reference to escape during construction, and some other thread attempted to invoke the "describe" or "it" methods on the object before the first thread completed its construction.

concurrentFlatSpecMod=Two threads attempted to modify FlatSpec's internal data, which should only be modified by the thread that constructs the object. This likely means that a subclass has allowed the this reference to escape during construction, and some other thread attempted to register tests (such as with "it should") on the object before the first thread completed its construction.

concurrentFixtureFlatSpecMod=Two threads attempted to modify FixtureFlatSpec's internal data, which should only be modified by the thread that constructs the object. This likely means that a subclass has allowed the this reference to escape during construction, and some other thread attempted to register tests (such as with "it should") on the object before the first thread completed its construction.

concurrentWordSpecMod=Two threads attempted to modify WordSpec's internal data, which should only be modified by the thread that constructs the object. This likely means that a subclass has allowed the this reference to escape during construction, and some other thread attempted to register tests (such as with "do something" in) on the object before the first thread completed its construction.

concurrentFixtureWordSpecMod=Two threads attempted to modify FixtureWordSpec's internal data, which should only be modified by the thread that constructs the object. This likely means that a subclass has allowed the this reference to escape during construction, and some other thread attempted to register tests (such as with "do something" in) on the object before the first thread completed its construction.

concurrentFixtureFreeSpecMod=Two threads attempted to modify FixtureFreeSpec's internal data, which should only be modified by the thread that constructs the object. This likely means that a subclass has allowed the this reference to escape during construction, and some other thread attempted to register tests (such as with "do something" in) on the object before the first thread completed its construction.

concurrentFeatureSpecMod=Two threads attempted to modify FeatureSpec's internal data, which should only be modified by the thread that constructs the object. This likely means that a subclass has allowed the this reference to escape during construction, and some other thread attempted to invoke the "feature" or "scenario" methods on the object before the first thread completed its construction.

concurrentFixtureFeatureSpecMod=Two threads attempted to modify FixtureFeatureSpec's internal data, which should only be modified by the thread that constructs the object. This likely means that a subclass has allowed the this reference to escape during construction, and some other thread attempted to invoke the "feature" or "scenario" methods on the object before the first thread completed its construction.

concurrentDocSpecMod=Two threads attempted to modify Doc's internal data, which should only be modified by the thread that constructs the object. This likely means that a subclass has allowed the this reference to escape during construction, and some other thread attempted to invoke the "body" method on the object before the first thread completed its construction.

tryNotAFailure=The Try on which failure was invoked was not a Failure.

tryNotASuccess=The Try on which success was invoked was not a Success.

optionValueNotDefined=The Option on which value was invoked was not defined.

eitherLeftValueNotDefined=The Either on which left.value was invoked was not defined as a Left.

eitherRightValueNotDefined=The Either on which right.value was invoked was not defined as a Right.
partialFunctionValueNotDefined=The PartialFunction on which valueAt({0}) was invoked was not defined.

insidePartialFunctionNotDefined=The partial function passed as the second parameter to inside was not defined at the value passed as the first parameter to inside, which was: {0}

insidePartialFunctionAppendSomeMsg={0},\n{1}inside {2}

insidePartialFunctionAppendNone=An exception was thrown,\n{0}inside {1}

didNotEventuallySucceed=The code passed to eventually never returned normally. Attempted {0} times over {1}.

didNotEventuallySucceedBecause=The code passed to eventually never returned normally. Attempted {0} times over {1}. Last failure message: {2}.

wasNeverReady=A timeout occurred waiting for a future to complete. Queried {0} times, sleeping {1} between each query.

awaitMustBeCalledOnCreatingThread=The await method on Waiter may only be called from the same thread that constructed the Waiter.

awaitTimedOut=The await method on Waiter timed out.

futureReturnedAnException=The future returned an exception of type: {0}.

futureReturnedAnExceptionWithMessage=The future returned an exception of type: {0}, with message: {1}.

futureWasCanceled=The future was canceled.

futureExpired=The future expired. Queried {0} times, sleeping {1} milliseconds between each query.

timeoutFailedAfter=The code passed to failAfter did not complete within {0}.

timeoutFailingAfter=The code passed to failingAfter did not complete within {0}.

timeoutCanceledAfter=The code passed to cancelAfter did not complete within {0}.

timeoutCancelingAfter=The code passed to cancelingAfter did not complete within {0}.

testTimeLimitExceeded=The test did not complete within the specified {0} time limit.

singularNanosecondUnits={0} nanosecond

pluralNanosecondUnits={0} nanoseconds

singularMicrosecondUnits={0} microsecond

pluralMicrosecondUnits={0} microseconds

singularMillisecondUnits={0} millisecond

pluralMillisecondUnits={0} milliseconds

singularSecondUnits={0} second

pluralSecondUnits={0} seconds

singularMinuteUnits={0} minute

pluralMinuteUnits={0} minutes

singularHourUnits={0} hour

pluralHourUnits={0} hours

singularDayUnits={0} day

pluralDayUnits={0} days

leftAndRight={0} and {1}

leftCommaAndRight={0}, and {1}

configMapEntryNotFound=The config map did not contain required entry with key "{0}".

configMapEntryHadUnexpectedType=The config map entry with key "{0}" had an unexpected (runtime) type: {1}. The expected (runtime) type was: {2}. The value was: {3}.

forAssertionsMoreThanZero={0} argument must be more than 0

forAssertionsMoreThanEqualZero={0} argument must be more than or equal 0
 forAssertionsMoreThan={0} argument must be more than {1} argument
 forAssertionsGenTraversableMessageWithStackDepth=at index {0}, {1} ({2})
 forAssertionsGenTraversableMessageWithoutStackDepth=at index {0}, {1}
 forAssertionsGenMapMessageWithStackDepth=at key {0}, {1} ({2})
 forAssertionsGenMapMessageWithoutStackDepth=at key {0}, {1}
 forAssertionsNoElement=no element
 forAssertionsElement={0} element
 forAssertionsElements={0} elements
 forAssertionsIndexLabel=index {0}
 forAssertionsIndexAndLabel=index {0} and {1}
 forAssertionsKeyLabel=key {0}
 forAssertionsKeyAndLabel=key {0} and {1}
 forAllFailed=forAll failed, because: \n{0} \nin {1}
 allShorthandFailed="all" inspection failed, because: \n{0} \nin {1}
 forAtLeastFailedNoElement=forAtLeast({0}) failed, because no element satisfied the assertion block: \n{1} \nin {2}
 forAtLeastFailed=forAtLeast({0}) failed, because only {1} satisfied the assertion block: \n{2} \nin {3}
 atLeastShorthandFailedNoElement="atLeast({0})" inspection failed, because no element satisfied the assertion block: \n{1} \nin {2}
 atLeastShorthandFailed="atLeast({0})" inspection failed, because only {1} satisfied the assertion block: \n{2} \nin {3}
 forAtMostFailed=forAtMost({0}) failed, because {1} elements satisfied the assertion block at {2} in {3}
 atMostShorthandFailed="atMost({0})" inspection failed, because {1} elements satisfied the assertion block at {2} in {3}
 forExactlyFailedNoElement=forExactly({0}) failed, because no element satisfied the assertion block: \n{1} \nin {2}
 forExactlyFailedLess=forExactly({0}) failed, because only {1} satisfied the assertion block at {2}: \n{3} \nin {4}
 forExactlyFailedMore=forExactly({0}) failed, because {1} satisfied the assertion block at {2} in {3}
 exactlyShorthandFailedNoElement="exactly({0})" inspection failed, because no element satisfied the assertion block: \n{1} \nin {2}
 exactlyShorthandFailedLess="exactly({0})" inspection failed, because only {1} satisfied the assertion block at {2}: \n{3} \nin {4}
 exactlyShorthandFailedMore="exactly({0})" inspection failed, because {1} satisfied the assertion block at {2} in {3}
 forNoFailed=forNo failed, because 1 element satisfied the assertion block at {0} in {1}
 noShorthandFailed="no" inspection failed, because 1 element satisfied the assertion block at {0} in {1}
 forBetweenFailedNoElement=forBetween({0}, {1}) failed, because no element satisfied the assertion block: \n{2} \nin {3}
 forBetweenFailedLess=forBetween({0}, {1}) failed, because only {2} satisfied the assertion block at {3}: \n{4} \nin {5}
 forBetweenFailedMore=forBetween({0}, {1}) failed, because {2} satisfied the assertion block at {3} in {4}
 betweenShorthandFailedNoElement="between({0}, {1})" inspection failed, because no element satisfied the assertion block: \n{2} \nin {3}
 betweenShorthandFailedLess="between({0}, {1})" inspection failed, because only {2} satisfied the assertion block at {3}: \n{4} \nin {5}
 betweenShorthandFailedMore="between({0}, {1})" inspection failed, because {2} satisfied the assertion block at {3} in {4}
 forEveryFailed=forEvery failed, because: \n{0} \nin {1}

everyShorthandFailed="every" inspection failed, because: \n{0} \nin {1}
discoveryStarting=Discovery starting.
discoveryCompleted=Discovery completed.
discoveryCompletedIn=Discovery completed in {0}.
doingDiscovery=Discovering Suites to run...
atCheckpointAt=(in Checkpoint) at
slowpokeDetected=Test still running after {0}: suite name: {1}, test name: {2}.
alertFormattedText=*** {0}
noteFormattedText=*** {0}
testFlickered=Test canceled because flickered: initially failed, but succeeded on retry
cannotRerun=Test in memory file is not rerunnable: rerun event = {0}, suiteId = {1}, testName = {2}.

testCannotBeNestedInsideAnotherTest=Test cannot be nested inside another test.

moreThanOneAnnotationFound=More than one "{0}" Annotation found on class hierarchy of class "{1}"
notExactlyOneAnnotationFound=Not exactly one "{0}" Annotation found on class hierarchy of class "{1}"

nonEmptyMatchPatternCase=No code is allowed to the right of rocket symbols (=>) in a partial function passed to matchPattern, because matchPattern is intended only for ensuring that an expression matches a pattern. If you want to make further assertions after a successful pattern match, use org.scalatest.Inside instead.

expectedTypeErrorButGotNone=Expected a type error, but got none for code: {0}
gotTypeErrorAsExpected=Got a type error as expected for code: {0}
expectedCompileErrorButGotNone=Expected a compiler error, but got none for code: {0}
didNotCompile={0} did not compile
compiledSuccessfully={0} compiled successfully
expectedTypeErrorButGotParseError=Expected a type error, but got the following parse error: "{0}", for code: {1}
expectedNoErrorButGotTypeError=Expected no compiler error, but got the following type error: "{0}", for code: {1}
expectedNoErrorButGotParseError=Expected no compiler error, but got the following parse error: "{0}", for code: {1}

beTripleEqualsNotAllowed=The deprecation cycle for 'be ===' has finished and the syntax is no longer supported. Please use equal, be, or === syntax instead.

assertionShouldBePutInsideItOrTheyClauseNotDescribeClause=Assertion should be put inside it or they clause, not describe clause.

exceptionWasThrownInDescribeClause={0} was thrown inside describe({1}), construction cannot continue: {2}

assertionShouldBePutInsideInClauseNotDashClause=Assertion should be put inside in clause, not - clause.

exceptionWasThrownInDashClause={0} was thrown inside {1} -, construction cannot continue: {2}

assertionShouldBePutInsideScenarioClauseNotFeatureClause=Assertion should be put inside scenario clause, not feature clause.

exceptionWasThrownInFeatureClause={0} was thrown scenario({1}) -, construction cannot continue: {2}

assertionShouldBePutInsideItOrTheyClauseNotShouldMustWhenThatWhichOrCanClause=Assertion should be put inside it or they clause, not should, must, when, that, which or can clause.

exceptionWasThrownInShouldClause={0} was thrown inside {1} should, construction cannot continue: {2}
exceptionWasThrownInMustClause={0} was thrown inside {1} must, construction cannot continue: {2}
exceptionWasThrownInWhenClause={0} was thrown inside {1} when, construction cannot continue: {2}
exceptionWasThrownInThatClause={0} was thrown inside {1} that, construction cannot continue: {2}
exceptionWasThrownInWhichClause={0} was thrown inside {1} which, construction cannot continue: {2}
exceptionWasThrownInCanClause={0} was thrown inside {1} can, construction cannot continue: {2}

assertionShouldBePutInsideDefNotObject=Assertion should be put inside def, not object.

exceptionWasThrownInObject={0} was thrown inside object `{1}`, construction cannot continue.

tableDrivenForEveryFailed=tableDrivenForEveryFailed: {0}

tableDrivenExistsFailed=tableDrivenExistsFailed: {0}

withFixtureNotAllowedInAsyncFixtures=withFixture is not allowed in AsyncFixtures

leftParensCommaBut=({0}), but {1}

rightParensCommaBut={0}, but ({1})

bothParensCommaBut=({0}), but ({1})

leftParensCommaAnd=({0}), and {1}

rightParensCommaAnd={0}, and ({1})

bothParensCommaAnd=({0}), and ({1})

assertionWasTrue=Assertion was true

Found in path(s):

* /opt/cola/permits/1685982723_1684869192.7680812/0/scalatest-2-10-3-0-0-sources-2-jar/org/scalatest/ScalaTestBundle.properties

1.32 plexus-archiver 3.4

1.32.1 Available under license :

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- * /opt/cola/permits/1685982373_1684869142.5397258/0/plexus-archiver-3-4-sources-2-jar/org/codehaus/plexus/archiver/xz/XZUnArchiver.java
- * /opt/cola/permits/1685982373_1684869142.5397258/0/plexus-archiver-3-4-sources-2-jar/org/codehaus/plexus/archiver/xz/XZArchiver.java
- * /opt/cola/permits/1685982373_1684869142.5397258/0/plexus-archiver-3-4-sources-2-jar/org/codehaus/plexus/archiver/xz/XZCompressor.java
- * /opt/cola/permits/1685982373_1684869142.5397258/0/plexus-archiver-3-4-sources-2-jar/org/codehaus/plexus/archiver/tar/PlexusIoTarXZFileResourceCollection.java
- * /opt/cola/permits/1685982373_1684869142.5397258/0/plexus-archiver-3-4-sources-2-jar/org/codehaus/plexus/archiver/tar/XZTarFile.java
- * /opt/cola/permits/1685982373_1684869142.5397258/0/plexus-archiver-3-4-sources-2-jar/org/codehaus/plexus/archiver/xz/PlexusIoXZResourceCollection.java
- * /opt/cola/permits/1685982373_1684869142.5397258/0/plexus-archiver-3-4-sources-2-jar/org/codehaus/plexus/archiver/tar/TarXZUnArchiver.java

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- * /opt/cola/permits/1685982373_1684869142.5397258/0/plexus-archiver-3-4-sources-2-jar/org/codehaus/plexus/archiver/diags/DelgatingArchiver.java
- * /opt/cola/permits/1685982373_1684869142.5397258/0/plexus-archiver-3-4-sources-2-jar/org/codehaus/plexus/archiver/resources/PlexusIoVirtualSymlinkResource.java
- * /opt/cola/permits/1685982373_1684869142.5397258/0/plexus-archiver-3-4-sources-2-jar/org/codehaus/plexus/archiver/diags/NoOpArchiver.java
- * /opt/cola/permits/1685982373_1684869142.5397258/0/plexus-archiver-3-4-sources-2-jar/org/codehaus/plexus/archiver/util/AbstractFileSet.java
- * /opt/cola/permits/1685982373_1684869142.5397258/0/plexus-archiver-3-4-sources-2-jar/org/codehaus/plexus/archiver/resources/PlexusIoVirtualFileResource.java

* /opt/cola/permits/1685982373_1684869142.5397258/0/plexus-archiver-3-4-sources-2-jar/org/codehaus/plexus/archiver/util/ArchiveEntryUtils.java

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* /opt/cola/permits/1685982373_1684869142.5397258/0/plexus-archiver-3-4-sources-2-jar/org/codehaus/plexus/archiver/AbstractUnArchiver.java

* /opt/cola/permits/1685982373_1684869142.5397258/0/plexus-archiver-3-4-sources-2-jar/org/codehaus/plexus/archiver/UnArchiver.java

* /opt/cola/permits/1685982373_1684869142.5397258/0/plexus-archiver-3-4-sources-2-jar/org/codehaus/plexus/archiver/snappy/SnappyArchiver.java

* /opt/cola/permits/1685982373_1684869142.5397258/0/plexus-archiver-3-4-sources-2-jar/org/codehaus/plexus/archiver/ArchiveEntry.java

* /opt/cola/permits/1685982373_1684869142.5397258/0/plexus-archiver-3-4-sources-2-jar/org/codehaus/plexus/archiver/jar/Manifest.java

* /opt/cola/permits/1685982373_1684869142.5397258/0/plexus-archiver-3-4-sources-2-jar/org/codehaus/plexus/archiver/zip/AbstractZipArchiver.java

* /opt/cola/permits/1685982373_1684869142.5397258/0/plexus-archiver-3-4-sources-2-jar/org/codehaus/plexus/archiver/bzip2/BZip2Archiver.java

* /opt/cola/permits/1685982373_1684869142.5397258/0/plexus-archiver-3-4-sources-2-jar/org/codehaus/plexus/archiver/bzip2/BZip2Compressor.java

* /opt/cola/permits/1685982373_1684869142.5397258/0/plexus-archiver-3-4-sources-2-jar/org/codehaus/plexus/archiver/AbstractArchiver.java

* /opt/cola/permits/1685982373_1684869142.5397258/0/plexus-archiver-3-4-sources-2-jar/org/codehaus/plexus/archiver/gzip/GZipCompressor.java

* /opt/cola/permits/1685982373_1684869142.5397258/0/plexus-archiver-3-4-sources-2-jar/org/codehaus/plexus/archiver/jar/ManifestException.java

* /opt/cola/permits/1685982373_1684869142.5397258/0/plexus-archiver-3-4-sources-2-jar/org/codehaus/plexus/archiver/tar/TarGZipUnArchiver.java

* /opt/cola/permits/1685982373_1684869142.5397258/0/plexus-archiver-3-4-sources-2-jar/org/codehaus/plexus/archiver/tar/TarUnArchiver.java

* /opt/cola/permits/1685982373_1684869142.5397258/0/plexus-archiver-3-4-sources-2-jar/org/codehaus/plexus/archiver/snappy/SnappyUnArchiver.java
* /opt/cola/permits/1685982373_1684869142.5397258/0/plexus-archiver-3-4-sources-2-jar/org/codehaus/plexus/archiver/bzip2/BZip2UnArchiver.java
* /opt/cola/permits/1685982373_1684869142.5397258/0/plexus-archiver-3-4-sources-2-jar/org/codehaus/plexus/archiver/tar/TarBZip2UnArchiver.java
* /opt/cola/permits/1685982373_1684869142.5397258/0/plexus-archiver-3-4-sources-2-jar/org/codehaus/plexus/archiver/zip/AbstractZipUnArchiver.java
* /opt/cola/permits/1685982373_1684869142.5397258/0/plexus-archiver-3-4-sources-2-jar/org/codehaus/plexus/archiver/tar/TarArchiver.java
* /opt/cola/permits/1685982373_1684869142.5397258/0/plexus-archiver-3-4-sources-2-jar/org/codehaus/plexus/archiver/snappy/SnappyCompressor.java
* /opt/cola/permits/1685982373_1684869142.5397258/0/plexus-archiver-3-4-sources-2-jar/org/codehaus/plexus/archiver/jar/JdkManifestFactory.java
* /opt/cola/permits/1685982373_1684869142.5397258/0/plexus-archiver-3-4-sources-2-jar/org/codehaus/plexus/archiver/util/Compressor.java
* /opt/cola/permits/1685982373_1684869142.5397258/0/plexus-archiver-3-4-sources-2-jar/org/codehaus/plexus/archiver/gzip/GZipUnArchiver.java
* /opt/cola/permits/1685982373_1684869142.5397258/0/plexus-archiver-3-4-sources-2-jar/org/codehaus/plexus/archiver/Archiver.java
* /opt/cola/permits/1685982373_1684869142.5397258/0/plexus-archiver-3-4-sources-2-jar/org/codehaus/plexus/archiver/zip/ZipArchiver.java
* /opt/cola/permits/1685982373_1684869142.5397258/0/plexus-archiver-3-4-sources-2-jar/org/codehaus/plexus/archiver/tar/TarSnappyUnArchiver.java
* /opt/cola/permits/1685982373_1684869142.5397258/0/plexus-archiver-3-4-sources-2-jar/org/codehaus/plexus/archiver/zip/ZipUnArchiver.java
* /opt/cola/permits/1685982373_1684869142.5397258/0/plexus-archiver-3-4-sources-2-jar/org/codehaus/plexus/archiver/jar/JarArchiver.java
* /opt/cola/permits/1685982373_1684869142.5397258/0/plexus-archiver-3-4-sources-2-jar/org/codehaus/plexus/archiver/jar/ManifestConstants.java
* /opt/cola/permits/1685982373_1684869142.5397258/0/plexus-archiver-3-4-sources-2-jar/org/codehaus/plexus/archiver/gzip/GZipArchiver.java

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* /opt/cola/permits/1685982373_1684869142.5397258/0/plexus-archiver-3-4-sources-2-jar/org/codehaus/plexus/archiver/tar/PlexusIoTarFileResourceCollection.java

* /opt/cola/permits/1685982373_1684869142.5397258/0/plexus-archiver-3-4-sources-2-jar/org/codehaus/plexus/archiver/zip/ZipSymlinkResource.java

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* /opt/cola/permits/1685982373_1684869142.5397258/0/plexus-archiver-3-4-sources-2-jar/org/codehaus/plexus/archiver/diags/DryRunArchiver.java
* /opt/cola/permits/1685982373_1684869142.5397258/0/plexus-archiver-3-4-sources-2-jar/org/codehaus/plexus/archiver/util/FilePermissionUtils.java
* /opt/cola/permits/1685982373_1684869142.5397258/0/plexus-archiver-3-4-sources-2-jar/org/codehaus/plexus/archiver/diags/TrackingArchiver.java

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* /opt/cola/permits/1685982373_1684869142.5397258/0/plexus-archiver-3-4-sources-2-jar/org/codehaus/plexus/archiver/zip/ConcurrentJarCreator.java
* /opt/cola/permits/1685982373_1684869142.5397258/0/plexus-archiver-3-4-sources-2-jar/org/codehaus/plexus/archiver/zip/OffloadingOutputStream.java

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* /opt/cola/permits/1685982373_1684869142.5397258/0/plexus-archiver-3-4-sources-2-jar/org/codehaus/plexus/archiver/manager/NoSuchArchiverException.java

* /opt/cola/permits/1685982373_1684869142.5397258/0/plexus-archiver-3-4-sources-2-jar/org/codehaus/plexus/archiver/UnixStat.java

* /opt/cola/permits/1685982373_1684869142.5397258/0/plexus-archiver-3-4-sources-2-jar/org/codehaus/plexus/archiver/manager/DefaultArchiverManager.java

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* /opt/cola/permits/1685982373_1684869142.5397258/0/plexus-archiver-3-4-sources-2-jar/org/codehaus/plexus/archiver/zip/PlexusIoZipFileResourceCollection.java

1.33 jackson-module-scala 2.9.5

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1.34 selenium 4.0.0-alpha.5

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1.35 checker-qual 2.10.0

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1.36 saucerest 1.0.33

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1.37 jackson-module-paranamer 2.9.5

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1.38 logkit 1.0.1

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1.39 bouncy-castle 1.58

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</p>

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Markus Niedermann <markus.niedermann@softwired-inc.com> - porting information and restrictions when using the lightweight library with the MIDP environment.

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- Mike Bremford <mike@big.faceless.org> - contributing the initial PKCS7 implementation.
- Shankar Srinivasan <ssr002@yahoo.com> - S/Mime interoperability testing and debugging.
- Stef Hoeben <ilsestef@skynet.be> - adding Montgomery multiplication to the BigInteger class.
- Klaudiusz Ciosk <kciosk@max.com.pl> - improving the compatibility of the SMIME package with the Sun JCE.
- Thomas Houtekier <Thomas.Houtekier@tctrade.net> - S/Mime testing and debugging. Interoperability with Biztalk.
- Don Hillsberry <hillsber@dialcorp.com> - S/Mime testing and debugging.
- Kazuo Furuya <kfuruya@infoteria.co.jp> - fixing root certificate chaining bug in PKCS12 key store.
- Jason Novotny <jdnovotny@lbl.gov> - initial work on the openSSL PEM processing.
- Joel Hockey <joel.hockey@qsipayments.com> - initial work on the openSSL PEM processing.
- John Steenbruggen <JohnS@geotrust.com> - fixing CertificationRequestInfo to handle cert request info objects without attribute blocks.
- Justin Chapweske <justin@chapweske.com> - ordering patch for Tiger message digest.
- John Serock <jserock@hotmail.com> - fixing null pointer exception in constructor for ExtendedKeyUsage. Fixing of base OID bug in KeyPurposeId. Compliance of KeyUsage extension return value with security API.
- Sascha Weinreuter <Sascha.Weinreuter@cit.de> - fixed SMIME saveChanges() bug.
- Andre Wehnert <aw5@mail.inf.tu-dresden.de> - fixing key schedule problem in RC5-64, fixing buffer cleaning issue in buffered block cipher.
- Luigi Lo Iacono <lo_iacono@nue.et-inf.uni-siegen.de> - adding SIC mode to the blockciphers in the provider.
- Tim Sakach <tsakach@certivo.net> - SMIME v2 compatibility patches.
- Marcus Povey <mpovey@brookes.ac.uk> - adding the PGP mode to the lightweight API and the provider.
- Sebastian Clau <sc2@inf.tu-dresden.de> - adding randomness setting to the certificate and CRL generators.
- Nicolas Bielza <nicolas.bielza@alligacom.com> - isolating the tagging bug in the ASN.1 library that was misrepresenting some ASN.1 constructed data types. Contributions to the streaming S/MIME classes.
- Casey Marshall <rsdio@metastatic.org> - fixing the clone problem with Macs in the clean room JCE.
- Rick Zeldes <rick.zeldes@eds.com> - initial code for CMS/SMIME CompressedData.
- Jarek Gawor <gawor@mcs.anl.gov> - fixing ASN.1 sequence unpacking in BasicConstraints constructor.
- Brett Neumeier <random@rnd.cx> - patch to OriginatorIdentifierOrKey object, improvements to encoders package, introduction of UrlBase64.
- Graham Coles <graham.coles@retail-logic.com> - patch to isParityAdjusted in DESKeySpec.

Jörn von Kattchée <J.Kattchee@seeburger.de> - patch to SMIMEGenerator for preventing class cast exceptions with BodyParts containing Multipart objects.

Matteo Artuso <matartuso@libero.it> - picking up the possible overread in ASN1InputStream.

Julian Morrison <julian@extropy.demon.co.uk> - spotting the slow down in Diffie-Hellman key generation.

Elmar Sonnenschein <eso@esomail.de> - fix to long conversion in clean room SecureRandom.

Jörn Schwarze <JSchwarze@ulc.de> - Locale fix for the clean room JCE.

Bryan Lovquist <bkl@cps.com.au> - Other provider compatibility fixes for CMS signing.

Artem Portnoy <Artem_Portnoy@ibi.com> - generalisations for CMSProcessableBodyPart in S/MIME. Header fix for mime messages.

Michael Häusler <haeusler@ponton-consulting.de> - missing OID update for SHA1 with RSA Signature.

Johan Seland <johans@netfonds.no> - general toString for BigInteger class.

Johannes Nicolai <johannes.nicolai@novosec.com> - further enhancements to OCSP response generation, fix to CertificateID issuer.

Marc Doberva <marc.doberva@ilex-si.com> - help in isolating the JSSE/BC RSA key issue.

Jan Dvorak <jan.dvorak@mathan.cz> - initial implementation of the light weight Null block cipher.

Joe Cohen <jcohen@forumsys.com> - converting the ArrayOutOfBoundsException in DERInputStream into what it should have been.

Chris Long<aolong@ece.cmu.edu> - adding public key decoding to PEMReader.

Hes Siemelink<hes@izecom.com> - findIssuer fix for CertPathBuilder, toMimeMessage converter for Mail API, getSize() fix for zero length messages in SMIMEMessage.

Stefan Puiu<stefanpuiu@yahoo.com> - initial implementation V3 policy mapping, policy qualifier objects in ASN.1 X.509 package.

Kaiser Yang <kaiseryang@yahoo.com> - Finding BigInteger loop problem in prime generation.

Jiri Urbanec <jiri.urbanec@logicacmg.com> - patch to fix defect in DERBMPString.equals().

Justin Kolb <jkolb@pristx.com> - patch to DSA signature generation in OpenPGP. Fix for the unexpected "Unexpected end of ZLIB input stream" exception.

Ralf Hauser <ralfhauser@gmx.ch> - patch to exception handling in PublicKeyRing, PEMReader, 1.4 build script, X509 Certificate Factory, CertPathValidatorUtilities, fromAddress null check in SignedMailValidator.

Michal Dvorak <M_Dvorak@kb.cz> - getNextUpdate patch for OCSP SingleResp.

Klaus Greve Fiorentini <Klaus@cpqd.com.br> - array fix in PGP PublickKeyEncSessionPacket.

Olivier Refalo <Olivier_Refalo@fpl.com> - null pointer exception fix for JDK 1.3 CMSSignedData objects.

Mariusz Bandola <mariusz.bandola@cryptotech.com.pl> - patch to DERGeneralizedTime. Compliance patch for OCSP TBSRequest class. Patch to X509Name for delaing with general objects in sequences.

Brien Oberstein <brien.oberstein@transacttools.net> - patch to S2K algorithm in OpenPGP, initial PGP version 3 secret key support, initial PGP version 3 signature generation, RIPEMD160 addition to PGPUtil.

Ian Haywood <ian@haywood.bpa.nu> - addition of getSignatureType to PGPSignature.

Jonathan Edwards <s34gull@mac.com> - initial support for reading multiple rings from a PGP key file.

Andrew Thornton <andrew@caret.cam.ac.uk> - patch for RSA PUBLIC KEY in PEMReader.

Gregor Leander <gl@bos-bremen.de> - initial parsing of multiple sequence entries in an X.500 Name.

Antoon Bosselaers <Antoon.Bosselaers@esat.kuleuven.ac.be> - help with RipeMD320 implementation.

Peter Sylvester <Peter.Sylvester@edelweb.fr> - improvements to the ASN.1 BasicConstraints object.

Doug <ummmmm@myrealbox.com> - addition of isEncryptionKey method to OpenPGP public keys.

- Francois Staes <fstaes@netconsult.be> - improvements to DEBitString, DERGeneralizedTime and initial implimentation of DERGeneralString, addition of settable signed content info to CMSSignedDataGenerator, patch to DH key agreement.
- W.R. Dittmer <wdittmer@cs.vu.nl> - patch to decoding of SignatureCreationTime in BCPG. Patch to PGPPublicKey to fix nullpointer exception.
- Perez Paz Luis Alberto <laperez@banxico.org.mx> - patch to use of BitString in X.500 name.
- James Wright <James_Wright@harte-hanks.com> - patches for dealing with "odd" ArmoredInputStreams.
- Jim Ford <jim@muirford.com> - patch to PGPSecretKey to avoid null pointer exception on encoding secret keys, comments on KeyExpirationTime, getBitStrength for ElGamal keys. Signature creation time patch for newly created v4 signatures.
- Michael Hausler <haeusler@ponton-consulting.de> - extra aliases for provider.
- Sai Pullabhotla <psai@linoma.com> - fix to PGP compressed data generator to improve compression levels. Performance improvements for KeyBasedLargeFileProcessor.
- Joseph Miller <joseph@digiweb.net.nz> - addition of ZeroBytePadding.
- Lars <xyz@sagemdenmark.dk> - patch to explicit padded mode for CBC block cipher MAC.
- Jeroen van Vianen <jeroen@vanvianen.nl> - the Signed and Encrypted mail example.
- Jun Sun <JSun@diversinet.com> - patch to SecureRandom to work around problem in wtk 1.0.4 and wtk 2.1.
- Petr Dukem <pdukem@email.cz> - patch to CMSSignedDataGenerator to allow it to work with PKCS11 providers.
- Filipe Silva <filipe.silva@wedoconsulting.com> - patch to fix overread issue in BCPGInputStream.
- Alpesh Parmar <alps@linuxmail.org> - patch for class cast problem in PGPPublicKey.getSignatures().
- Jay Gengelbach <jgengelbach@webmethods.com> - patch to fix isSigningKey in PGPSecretKey class, patch to hashedPackets in PGP signatureGenerator, initial cut for indefinite length output.
- Doug <doug@tigerprivacy.com> - public key ring patches for ElGamal Signatures, problem key ring data.
- Matthew Mundy <mmundy1@umbc.edu> - infinite loop prevention patch to PKCS5S2ParametersGenerator.
- Tom Cargill <cargill@profcon.com> - spelling patch in provider.
- Breitenstrom Christian <C.Breitenstrom@t-systems.com> - compatibility patch to SignaturePacket, DetachedSignatureProcessor.
- Zanotti Mirko <zanotti@cad.it> - patch to ordered equality test for X509Name.
- Nicola Scendoni <nscendoni@babelps.it> - patch to add sorting to CertPath validation.
- Ville Skytt@uml; <ville.skytta@iki.fi> - patch to CRLDistPoint for cRLIssuer field. KeyStore compliance on add patches. DiffieHellman patch for provider compliance. Support for PEM object "TRUSTED CERTIFICATE". Exception handling patch in PEMReader. JavaDoc clean up.
- Bruce Gordon <bruce.gordon@savvis.net> - patch to secret key creation encoding NullPointerException in OpenPGP, speed up for BCPGInputStream.
- Miles Whiteley <Miles.Whiteley@savvis.net> - "223" fix for BCPGInputStream new packets.
- Albert Moliner <amoliner@evintia.com> - initial TSP implementation.
- Carlos Lozano <carlos@evintia.com> - initial TSP implementation, patch to SignerInformation for supporting repeated signers, initial updates for supporting repeated attributes in CMS.
- Javier Delgadillo <javi@javi.codewarp.org> - initial Mozilla PublicKeyAndChallenge classes.
- Joni Hahkala <joni.hahkala@cern.ch> - initial implementations of VOMS Attribute Certificate Validation, IetfAttrSyntax, and ObjectDigestInfo. We also wish to thank the EGEE project for making the work available.
- Rolf Schillinger<rolf@sir-wum.de> - initial implementation of Attribute Certificate generation.

- Sergey Bahtin <Sergey_Bahtin@#064yahoo.com> - fix for recovering certificate aliases in BKS and UBER key stores. Initial implementations of GOST-28147, GOST-3410, EC GOST-3410, GOST OFB mode (GOFB) and GOST-3411.
- Franck Leroy <Franck.Leroy@#064keynectis.com> - ANS.1 set sorting. Contributions to TSP implementation. Test vectors for Bleichenbacher's forgery attack.
- Atsuhiko Yamanaka <ymnk@#064jcraft.com> - patch for improving use of Montgomery numbers in BigInteger library. Patch to use size of private exponent in DH parameters.
- Nickolay Bolshackov <tyrex@#064reksoft.ru> - patch for class cast exception in AuthorityInformationAccess class.
- Soren Hilmer <soren.hilmer@#064tietoenator.com> - patches for CertID with issuerSerial set in TSP implementation, additional compliance testing.
- Steve Mitchell <mitchell@#064intertrust.com> - patch for stateful path validator fix. Patch to allow BigInteger class to create negative numbers from byte arrays. Additions to allow different providers to be used for asymmetric/symmetric encryption in OpenPGP. Optimisation to avoid redundant verification in path validator. Suggestion to use PKIXParameters.getSigProvider() correctly.
- Dirk Eisner <D.Eisner@#064seeburger.de> - initial implementation of ISO 78164-4 padding.
- Julien Pasquier <julienpasquier@#064free.fr> - initial implementation of attribute classes from RFC 3126. Fix to KEKIdentifier, OtherKeyAttribute parsing. Initial ContentHints class.
- Matteo <matartuso@#064libero.it> - sequence patch to ASN1Dump.
- Andrew Paterson <andrew.paterson@#064burnsecs.com> - patches to PGP tools, isRevoked method on PGPPublicKey.
- Vladimir Molotkov <vladimir.n.molotkov@#064intel.com> - extensive provider exception handling compliance testing.
- Florin Kollan <adlocflo@#064web.de> - fix to ElGamalKeyParameters equality testing.
- Pavel Vassiliev <paulvas@#064gmail.com> - Initial GOST28147Mac implementation.
- Tom Pesman <tom@#064tnux.net> - addition of DES-EDE encryption for RSAPrivate keys to PEMWriter.
- Lukasz Kowalczyk <lukasz.b.kowalczyk@#064gmail.com> - patch to fix parsing issue with OpenSSL PEM based certificate requests.
- Arndt Hasch <Arndt.Hasch@#064maxence.de> - additional fix for partial reading with new style PGP packets.
- Fix Bernd (KCDP 11) <bernd.fix@#064credit-suisse.com> - fix for 31 byte issue and exception throwing by Whirlpool.
- David M. Lee <dmlee@#064Crossroads.com> - code for add and remove secret key in the PGPSecretKeyRing class. Additions to S/MIME and CMS unit tests.
- Mike Dillon <md5@#064embody.org> - additional checks for PGP secret and public key construction, patches to copyWithNewPassword.
- tu-vi cung <t2cung@#064hotmail.com> - patch for out of bounds problem in getDecoderStream method.
- Chris Schultz <cschultz@#064gmail.com> - fix for InputStream constructor for X509V2AttributeCertificate.
- David M. Lee <dmlee@#064Crossroads.com> - implementation assistance with streaming CMS classes.
- Joel Rees <rees@#064ddcom.co.jp> - fix to correct getOID methods from returning same set on X.509 attribute certificates.
- Francesc Sau <francesc.sau@#064partners.netfocus.es> - micro fix for tsp Accuracy class.
- Larry Bugbee <bugbee@#064mac.com> - initial ECNR implementation.
- Remi Blancher <Remi.Blancher@#064keynectis.com> - Contributions to TSP implementation. Initial implementation of RFC 3739 and ICAO ASN.1 classes.
- Brian O'Rourke <brianorourke@#064gmail.com> - patch for signature creation time override in OpenPGP.

- Andreas Schwier <andreas.schwier@cardcontact.de> - initial implementation of ISO9797 MAC Algorithm 3, addition of DES-EDE 64 MAC to the provider, fix to EC point encoding, addition of EC and RSA-PSS OIDs to CMS, addition of AES-CMAC and DESede-CMAC to JCE provider.
- David Josse <david.josse@transacttools.net> - Patch for trailer function in version 2 signature packets.
- Kishimoto Kazuhiko <kazu-k@hi-ho.ne.jp> - RFC 3280 updates to policy processing in the CertPath validator. Additional test data not covered by NIST.
- Lawrence Tan <lwrnctan@gmail.com> - Large field OID sample test data. Missing key types in JDKKeyFactory.
- Carlos Valiente <superdupont@gmail.com> - Addition of CRL writing to the PEMWriter class.
- Keyon AG, Martin Christinat, http://www.keyon.ch - fixing incorrect ASN.1 encoding of field elements in X9FieldElement class.
- Olaf Keller, <olaf.keller@bluewin.ch> - initial implementation of the elliptic curves over binary fields F2m. Additional tests and modifications to elliptic curve support for both F2m and Fp. Performance improvements to F2m multiplication. Initial implementation of WNAF/WTNAF point multiplication. Improvement to k value generation in ECDSA.
- Jörg Eichhorn <eichhorn@ponton-consulting.de> - patch to fix EOF read on SharedFileInputStream, support for F2m compression.
- Karsten Ohme <widerstand@t-online.de> - initial check against for out of range data on non byte aligned RSA keys. Addition of equals/hashCode on ECCurve.Fp. Additional curve type support for Fp, contributions to F2m compression. F2m decoding for ECPointUtil. Infinity fix and prime192v2 fix for Fp. Extra validation for RSA key creation. Fix to name typos for some OpenSSL key generators. RFC-1779 table, improved RFC 2253 compliance for X509Name. Additional constructor validation for X.509/ESS ASN.1 classes. Validation for Printable, IA5, and Numeric Strings. Support for surrogate pairs in DERUTF8String, DER UTF8 test. Additional X.509 name attributes for ISIS-MTT, RFC 3039, addition of indirect CRL support, initial X509 LDAP CertStore implementation, CertificatePair class, and X509CertificatePair class. Contributions to X509Store/Parser infrastructure and design. CertPath support for implicit DSA parameters and a range of NameConstraints. Addition of support for V1 attribute certificates and attribute certificate path validation. Initial classes for ASN.1 ISIS-MTT support. Enhancements for improving compliance with the NIST CertPath tests.
- Carlos Lozano Ruiz <carlos@tradise.com> - patch for <ctrl><m> only handling in CRLFOutputStream.
- John Alfred Prufrock <j.a.prufrock@gmail.com> - mods to GOST-3411 and MD2 to support ExtendedDigest.
- Stefan Neusatz Guillen <sneusatz@gmail.com> - initial version of RoleSyntax, improvements to AttributeCertificateHolder and AttributeCertificateIssuer.
- Marzio Lo Giudice <marzio.logiudice@gmail.com> - fix to endianness in KDF2BytesGenerator, additional KDF2 tests.
- Georg Lippold <georg.lippold@gmx.de> - initial implementation of NaccacheStern cipher.
- Chris Viles <chris_viles@yahoo.com> - fix to SignatureSubpacket critical bit setting.
- Pasi Eronen <Pasi.Eronen@nokia.com> - extra toString() support for ASN.1 library. Initial patch for large OID components.
- Lijun Liao <lijun.liao@rub.de> - performance enhancements for SHA family of digests. Bug report and patch for blank line handling in ArmoredInputStream.
- Maria Ivanova <maria.ivanova@gmail.com> - support for tags > 30 in ASN.1 parsing.
- Armin Hämberling <arminha@student.ethz.ch> - first cut of internationalisation, initial PKIX validation classes.
- Marius Schilder <mschilder@google.com> - main set of test vectors for Bleichenbacher's forgery attack.

- Xavier Le Vouch <xavier@brittanysoftware.com> - general code clean ups.
- Erik Tews <e_tews@cdc.informatik.tu-darmstadt.de> - initial threaded random seed generator, constant-time PKCS#1.5 decoding
- Thomas Dixon <reikomusha@gmail.com> - initial implementations of TEA/XTEA, Salsa20, ISAAC, and Noekeon. XTEA enhancements.
- Frank Cornelis <info@frankcornelis.be>- addition of crlAccessMethod in X509ObjectIdentifiers.
- Rui Joaquim <rjoaquim@cc.isel.ipl.pt> - initial implementation of RSA blinding for signatures.
- David Stacey <DStacey@allantgroup.com> - addition of trust packet checking on revocation signatures in PGPSecretKeyRing.
- Martijn Brinkers <list@mitm.nl> - better exception handling in CMS enveloping, "just in time" modifications for CRL and Sequence evaluation.
- Julius Davies <juliusdavies@gmail.com> - additional modes and algorithm support in PEMReader
- Matthias <g@rtner.de> - GnuPG compatibility changes for PBEFileProcessor.
- Olga Kaethler <olga.kaethler@hjp consulting.com> - initial implementation of TeleTrusT EC curves, additional ISO 9797 MACs, contributions to EAC OIDs, addition of EAC algorithms to CMS Signing.
- Germano Rizzo <germano.rizzo@gmail.com> - initial implementation of CMac, EAX, HC-128, and HC-256, optimisations for Salsa20.
- Núria Maríate; <numaa@hotmail.com> - patch for alternate data type recognition in CMSSignedDataParser.
- Janis Schuller <js@tzi.de> - addition of NotationData packets for OpenPGP.
- Michael Samblanet <mike@samblanet.com> - patches towards improved Sun/default provider support in CMS.
- Mike StJohns <mstjohns@comcast.net> - patches for supporting empty subject in X.509 certificate generation, noneWithECDSA.
- Ramon Keller <ramon.keller@gmx.ch> - patch to deal with null revocations return from other CRL in X509V2CRLGenerator.
- Mark Nelson <mark@nbr.com> - correction to excluded DN in name constraints processing for PKIX processing.
- Eugene Golushkov <eugene_gff@ukr.net> - mask fix to single byte read in TlsInputStream.
- Julien Pasquier <julienpasquier@free.fr> - additional classes for supporting signature policy and signer certificates in the ASN.1 esf and ess libraries.
- Peter Knopp <pknopp@mtg.de> - fix for named curve recognition in ECGOST key generation.
- Jakub Gwozdz <gwozdziu@rpg.pl> - addition of getTsa() to TimeStampTokenInfo.
- Bartosz Malkowski <bmalkow@tigase.org> - initial implementation of VMPC cipher, VMPCRandomGenerator, VMPCMac.
- Tal Yacobi <tal.yacobi@octavian-tech.com> - fix for issue in OpenPGP examples [#BJA-55].
- Massimiliano Ziccardi <massimiliano.ziccardi@gmail.com> - support for counter signature reading in CMS API, update for multiple counter signature attributes.
- Andrey Pavlenko <andrey.a.pavlenko@gmail.com> - security manager patch for PKCS1Encoding property check.
- Mike StJohns <mstjohns@comcast.net> - updates to KeyPurposeId
- J Ross Nicoll <jrn@jrn.me.uk> - improved exception handling for getInstance() in ASN.1 library.
- Matthew Stevenson <mavricknz@yahoo.com> - patch to constructor for CRMF CertSequence.
- Gabriele Contini <gcontini@hotpop.com> - identified a bug in ASN.1 library with handling of unterminated NDEF's.
- Roelof Naude <roelof.naude@epiuse.com> - patch for TLS client to send empty client certs in response to HP_CERTIFICATE_REQUEST.
- Patrick Peck <peck@signaturen.at> - identified problem with DERApplicationSpecific and high tag

numbers in ASN.1 library.
Michael LeMay <lemaymd@lemaymd.com> - identified problem with EAX [#BJA-93].
Alex Dupre <ale@FreeBSD.org> - fix to use of Signature rather than SignatureSpi in provider [#BJA-90].
Addition of null provider use to SignedPublicKeyAndChallenge and PKCS10CertificationRequest [#BJA-102]
Michael Schoene <michael@sigrid-und-michael.de> - fix of improper handling of null in
ExtendedPKIXParameters.setTrustedACIssuers(), check for V2 signingCertificate attribute in
TimeStampResponse.validate().
Ion Larrañaga <ilarra@s21sec.com> fix to default partial packet generation in
BCPGOutputStream.
Bob Kerns <bob.kerns@positscience.com> fix to hashCode for X509CertificateObject.
Stefan Meyer <stefan.meyer@ewe.de> backport for PKIXCertPathValidator and
SMIMESignedMailReviewer.
Robert J. Moore <Robert.J.Moore@allanbank.com> speedups for OpenPGPCFB mode, clean room JCE
patches.
Rui Hodai <rui@po.ntts.co.jp> speed ups for Camellia implementation, CamelliaLightEngine.
Emir Bucalovic <emir.bucalovic@mail.com> initial implementation of Grain-v1 and Grain-128.
Torbjorn Svensson <tobbe79@gmail.com> initial implementation of Grain-v1 and Grain-128.
Paul FitzPatrick <bouncycastle_pfitz@fitzpatrick.cc> error message fix to X509LDAPCertStoreSpi,
comparison fix to BCStrictStyle.
Henrik Andersson <k.henrik.andersson@gmail.com> addition of UniqueIssuerID to certificate
generation.
Cagdas Cirit <cagdasirit@gmail.com> subjectAlternativeName fix for x509CertStoreSelector.
Harakiri <harakiri_23@yahoo.com> datahandler patch for attached parts in SMIME signatures.
Pedro Henriques <pmahenriques@gmail.com> explicit bounds checking for DESKeyGenerator, code
simplification for OAPEncoding.
Lothar Kimmeringer <job@kimmeringer.de> verbose mode for ASN1Dump, support for
DERExternal.
Richard Farr <rfarr.se@gmail.com> initial SRP-6a implementation.
Thomas Castiglione <castiglione@au.ibm.com> patch to encoding for CRMF OptionalValidity.
Elisabetta Romani <eromani@sogei.it> patch for recognising multiple counter signatures.
Robin Lundgren <r737lundgren@gmail.com> CMPCertificate constructor from X509CertificateStructure
fix.
Petr Kadlec <mormegil@centrum.cz> fix to sign extension key and IV problem in HC-128, HC-256.
Andreas Antener <antener_a@gmx.ch> fix to buffer reset in AsymmetricBufferedBlockCipher.
Harendra Rawat <hsrawat@yahoo.com> fix for BERConstructedOctetString.
Rolf Lindemann <lindemann@trustcenter.de> patch for PKCS12 key store to support more flexible
attribute specifications [#BMA-42].
Alex Artamonov <alexart.home@gmail.com> name look up patch for GOST-2001 parameters.
Mike Lyons <mlyons@layer7tech.com> work arounds for EC JDK bug 6738532 and JSSE EC naming
conventions.
Chris Cole <chris_h_cole@yahoo.com> identified a problem handling null passwords when loading a BKS
keystore.
Tomas Krivanek <tom@atack.cz> added checking of Sender header to SignedMailValidator.
Michael <emfau@t-online.de> correction of field error in getResponse method in CertRepMessage.
Trevor Perrin <trevor@cryptography.com> addition of constant time equals to avoid possible timing
attacks.
Markus Kilås <markus@primekey.se> several enhancements to TimeStampResponseGenerator.
Dario Novakovic <darionis@yahoo.com> fix for NPE when checking revocation reason on CRL without

extensions.

Michael Smith <msmith@cbnco.com> bug fixes and enhancements to the CMP and CRMF classes, initial Master List classes.

Andrea Zilio <andrea.zilio@gmail.com> fix for PEM password encryption of private keys.

Alex Birkett <alex@birkett.co.uk> added support for EC cipher suites in TLS client (RFC 4492) [#BJA-291].

Wayne Grant <waynedgrant@gmail.com> additional OIDs for PKCS10 and certificate generation support.

Frank Cornelis <info@frankcornelis.be> additional support classes for CAeS, enhancements to OCSP classes.

Jan Dittberner <jan@dittberner.info> addHeader patch for SMIME generator.

Bob McGowan <boab.mcgoo@btinternet.com> patch to support different content and mgf digests in PSS signing.

Ivo Matheis <i.matheis@seeburger.de> fix to padding verification in ISO-9796-1.

Marco Sandrini <nessche@gmail.com> patch to add IV to ISO9797Alg3Mac.

Alf Malf <alfilmalf@hotmail.com> removal of unnecessary limit in CMSContentInfoParser.

Alfonso Massa <alfonso.massa@insiel.it> contributions to CMS time stamp classes.

Giacomo Boccardo <gboccardo@unimaticaspa.it> initial work on CMSTimeStampedDataParser.

Arnis Tartu <arnis@ut.ee> patches for dealing with OIDs with specific key sizes associated in CMS.

Janusz Sikocinski <J.Sikocinski@gdzie.pl> addition of Features subpacket support to OpenPGP API.

Juri Hudolejev <jhudolejev@gmail.com> JavaDoc fix to CMSSignedDataParser.

Liane Velten <liane.velten@hjp-consulting.com> fine tuning of code for DHParameters validation.

Shawn Willden <swillden@google.com> additional functionality to PGPKKeyRing.

Atanas Krachev <akrachev@gmail.com> added support for revocation signatures in OpenPGP.

Mickael Laiking <mickael.laiking@keynectis.com> initial cut of EAC classes.

Tim Buktu <tbuktu@hotmail.com> Initial implementation of NTRU signing and encryption.

Bernd <rbernd@gmail.com> Fix for open of PGP literal data stream with UTF-8 naming.

Steing Inge Morisbak <stein.inge.morisbak@BEKK.no> Test code for lower case Hex data in PEM headers.

Andreas Schmid <andreas.schmid@tngtech.com> Additional expiry time check in PGPPublicKeys.

Phil Steitz <phil.steitz@gmail.com> Final patch eliminating JCE dependencies in the OpenPGP BC classes.

Ignat Korchagin <ignat.korchagin@gmail.com> Initial implementation of DSTU-4145-2002, long hash fix for DSTU-4145-2002.

Petar Petrov <p.petrov@bers-soft.com> Testing and debugging of UTF-8 OpenPGP passwords.

Daniel Fitzpatrick <daniel.f.nwr@gmail.com> Initial implementation of ephemeral key support for IES, initial implementations of RSA-KEM and ECIES-KEM, initial implementation of homogeneous projective coordinates for EC.

Andy Neilson <Andy.Neilson@quest.com>a further patches to deal with multiple providers and PEMReader.

Ted Shaw <xiao.xj@gmail.com> patch to MiscPEMGenerator for handling new PKCS10CertificationRequests.

Eleriseth <Eleriseth@WPECGLtYbVi8Rl6Y7Vz12Lv2EUVW99v3yNV3IWROG8.fms> speed up for SIC/CTR mode. Provider compatibilty generalisations for EC operations.

Kenny Root <kenny@the-b.org> patch for issuerAltName, subjectAltName support in X509CertificateObject, BaseBlockCipher.getIV() patch for AEAD.

Maarten Bodewes <maarten.bodewes@gmail.com> initial implementation of HKDF and NIST SP 800-108 MAC based KDF functions.

- Philip Clay <pilf_b@yahoo.com> Initial implementation of J-PAKE.
- Brian Carlstrom <bdc@carlstrom.com> compliance patches for some JCA/JCE keystore and cipher classes, miscellaneous code quality improvements, initial provider PBKDF2WithHmacSHA1 SecretKeyFactory.
- Samuel Lidén Borell <samuel@primekey.se> patch to add DSTU-4145 to DefaultSignatureAlgorithmFinder
- Sergio Demian Lerner <sergiolerner@certimix.com> pointing out isInfinity issue in ECDSASigner signature verification.
- Tim Whittington <Tim.Whittington@orionhealth.com> patch to remove extra init call in CMac, additional of Memoable interface for Digest classes, initial implementation of GMAC, further correctness tests for IV and reset processing in OCB, CCM, and block cipher reset. Initial implementation of Skein, XSalsa20, ChaCha, reduced round Salsa20, Threefish, and the Poly1305 MAC. Documentation updates. Added OCB support to Noekeon and CAST6 in the provider, exception testing for CTS, optimisations for CCM, provider support for AAD cipher methods, safe CipherInput/OutputStream implementations for use with AAD and subsequent bug fixes, cleanup after IDEA patent expiry, work on JCE SipHash support, optimisations for AESFastEngine, further work on EncodableDigest for SHA-2 digests, contributions to BCrypt/OpenBSDBCrypt, PGP API documentation and code quality work.
- Marcus Lundblad <marcus.lundblad@primekey.se> patch for working around JDK jarsigner TSP bug, optional setting of IssuerSerial in TimeStampTokenGenerator, additional extensions enhancement for time stamp token generation.
- Andrey Zhozhin <zhozhin@xrm.ru> patch for override of TSP SignerInfo attributes.
- Sergey Tiunov <t5555d@gmail.com> initial cut of DVCS classes.
- Damian Kolasa <fatfredy@gmail.com> ASN1Sequence patch for class cast issue in X9Curve.
- Ash Hughes <ashley.hughes@blueyonder.co.uk> patches for supporting PGPSecretKeyRing/PGPSecretKeys encodings with empty private keys, initial code for PGPSignatureSubpacketVector.getEmbeddedSignatures().
- Daniel Hirscher <dev@daniel-hirscher.de> patch to support parsing of explicit EC parameters in PEM files.
- Daniele Ricci <daniele.athome@gmail.com> initial implementation of EC keys for OpenPGP and RFC6637 support.
- Matti Aarnio <matti.aarnio@methics.fi> tweaks to any build to remove dependence on shell scripts. Initial SM3 digest implementation, some EC related code cleanups, JavaDoc improvements for ASN.1 classes.
- Babak Najafi <bnajafi@akamai.com> fixes to OpenPGP NotationData to prevent truncation problems.
- Eric Müller <eric.mueller@sage.de> additional standard algorithm name lookups in JcaPEMKeyConverter.
- Mathias Herberts <Mathias.Herberts@gmail.com> fix to inOff usage in RFC3394WrapEngine.
- Daniil Ivanov <daniil.ivanov@gmail.com> addition of provider support for GOST HMAC SecretKeyFactory.
- Daniele Grasso <daniele.grasso86@gmail.com> contributions to final Key calculation code for SRP6.
- Andrey Utkin <cindrhc@gmail.com> patch to reconstruction of ECGOST keys from PrivateKeyInfo objects in provider classes.
- Arnis Tartu <arnis@ut.ee> checker for generated key vs OID in JceCMSContentEncryptorBuilder.
- AxelVDB <axel-vdb@riseup.net> initial implementation of Shacal2.
- Roberto Tyley <> further work on completing gradle build.
- Waldemar Dick <wdick@devmue.de> code improvement in x500 ASN.1 package.
- Sid Steward <sid.steward@pdflabs.com> code improvements to ASN1Boolean.
- Alex Klyubin <klyubin@google.com> AlgorithmParameters check for EC key agreement.
- Jonathan Gillett <gsoc.student@gmail.com> Initial support for block cipher IVs in IESEngine, IES MAC length check bug fix.

- Andreas Reiter <andreas.reiter@iaik.tugraz.at> Reported incomplete status of CertificateVerify processing in (D)TLS server, and provided fix.
- Kieran Miller <kieran.miller@gmail.com> initial implementation for RFC 5649 key wrap with padding.
- Oliver Ehli<ehli@arago.de> Additional support for BSI plain ECDSA in the provider.
- Daniel Heldt<Daniel.Heldt@cryptovision.com> Initial support for encodable state message digests
- Robert Bushman <bouncycastle@traxel.com> Clean up of DirectKeySignature example.
- Maurice Aarts<aarts@riscure.com> updated to KDF generator to follow NIST SP 800-108.
- Franziskus Kiefer<https://github.com/franziskuskiefer> initial implementation of Cramer-Shoup.
- KB Sriram<mail_kb@yahoo.com> testing for odd encodings for PGP User Attribute Subpackets.
- Marco Schulze<marco@nightlabs.de> Reported verification bug in GenericSigner.
- Martin Schaef<https://github.com/martinschaef> contributed a code-cleanup patch.
- Lijun Liao<ljun.liao@gmail.com> addition of getSignatureAlgorithmID to BasicOCSPResp.
- dstutz<https://github.com/dstutz> added iteration count setters to PKCS#12 PBE mac/key generator builders.
- Tobias Wich<tobias.wich@ecsec.de> Provided patch for TLS to work around servers sending Supported Elliptic Curves extension unexpectedly.
- Hauke Mehrtens<hauke@hauke-m.de> TLS patch to add ECDHE_ECDSA CCM ciphersuites from RFC 7251.
- Daniel Zimmerman<dmz@galois.com> Further key quality improvements to RSAKeyPairGenerator.
- Jens Kapitzka<j.kapitzka@schwarze-allianz.de> Iterable support in OpenPGP API, code cleanup in OpenPGP API.
- Johan Eklund<johan@primekey.se> update to RFC 6960 for OCSPObjectIdentifiers.
- nikosn<https://github.com/nikosn> Fix to encoding of EC private keys to ensure encoding matches order length.
- Axel von dem Bruch <axel-vdb@riseup.net> Contributions to BCrypt/OpenBSDBCrypt, original version of Blake2bDigest.
- Derek Atkins <derek@ihftf.com> Documentation fixes to X9ObjectIdentifiers.
- Peter Jr Halicky <peto@halicky.sk> Correction to notification/error message handling in SignedMailValidator.
- IartiguePierre<https://github.com/IartiguePierre> Fix for counter signature SID in CMSSignedData.
- Thomas Belot<thomas.belot+BC@gmail.com> initial CertPathLoopTest for demonstrating stack overflow issue.
- Rich DiCroce<https://github.com/rdicroce> Initial implementation of server-side TLS-SRP support. TLS API extension to support non-blocking usage.
- Björn Kautler<https://github.com/Vampire> Refinements to cert path validation (authority key addition, certificate order preservation).
- Dominik Schürmann<https://github.com/dschuermann> method for returning signatures/verifications without user IDs on PGPPublicKey, method for exposing S2K in PGPSecretKey, constants for GNU protection modes in S2K classes, optional version header for armored output.
- Michael <MSKnet@web.de> initial fix for bitStrength issue for OpenPGP EC keys.
- Tobias Wagner <tobias.wagner@n-design.de> Fix SecureRandom handling in BcAsymmetricKeyWrapper [#BJA-536].
- Sergio Giro <sgiro@google.com> Fixed adding of additional stores from CRL distribution point [#BJA-537]. Fixed missing null check for CRL certificate issuer [#BJA-538], removal of risky zeroisation code in PBE.java, check for salt in PBEKeys that require it.
- bschuetz<https://github.com/bschuetz> Fixed typo in DefaultSignatureAlgorithmIdentifierFinder, additional methods on CMSSignedDataParser.

- Leonard Dallot<<https://github.com/dallotTazTag>> Fix to S2K usage of none on changing passwords on keys without passwords originally.
- Jan Willem Janssen <j.w.janssen+bouncycastle@064xtreme.nl> Support for DSAParameters in lightweight SubjectPublicKeyInfoFactory, initial content signer verifier for BC lightweight EC.
- Sebastian Oerding <sebastian.oerding@robotron.de> Fixes to toString() in x509.CertificatePolicies.
- Kai Kramer <kai.kramer@064gmail.com> Code to deal with orphaned chain certificates in the PKCS#12 KeyStore.
- Benoit Charles <benoit.charles@064opentrust.com> Fix for IES data length check on decryption.
- Niko <nfink95@064gmail.com> fix to cast issue in getOutputSize() for ECIES.
- akwizgran<<https://github.com/akwizgran>> Fixed clone of key in Blake2bDgest copy constructor, blake2b reset issue for variant keys.
- Matthias Edelhoff <Matthias.Edelhoff@064cryptovision.com> BasicConstraintsValidation pathlen fix in PKIX certpath classes.
- Lukasz Deputat <lukasz.deputat@064gmail.com> Fixed bugs in TlsUtils read methods [#BJA-592].
- Justin Ludwig <<https://github.com/justinludwig>> Iterator fix for PGPObjectFactory to handle stream packets at start of iterated data.
- Andr e Berenguel <<https://github.com/aberenguel>> Fix to include ECNamedCurveSpec in EC AlgorithmParameterSpi
- Slawomir Jaranowski<<https://github.com/slawekjaranowski>> Patch to make cipher/hash/signature name methods in PGP internal API public.
- Andrey Vasilyev<<https://github.com/andrey-vasilyev>> Initial implementation of GOST R 34.11-2012.
- William Glanton <wglanton77@064gmail.com> Fixed bug in Poly1305 [#BJA-620].
- jdvorak001<<https://github.com/jdvorak001>> Speed improvements for ASN.1 ObjectIdentifier cache.
- Joseph Naegele <jnaegele@064grierforensics.com> Patch for handling multiple certificates in a DANE SMIMEA entry.
- Andrew Bonventre<<https://github.com/andybons>> NullPointer patch for WNafUtil.
- The Google Security Team (Project Wycheproof) <<https://github.com/google/wycheproof>> defect analysis and additional test cases for the provider.
- Gorka Irazoqui <girazoki@064wpi.edu> from Intel Security Center of Excellence <<https://security-center.intel.com/>> detection of the issue with AESFastEngine (CVE-2016-1000339), additional suggestions for improvement to hardening of AESEngine.
- Joerg Senekowitsch <joerg.senekowitsch@064veridos.com> patch to deal with hard coded boolean in EAC ECDSAPublicKey.
- Alexandr Krivoshta <wipe@064ya.ru> N4 calculation fix to GOFB mode.
- Artem Storozhuk <storojs72@064gmail.com> N4 calculation fix to GOFB mode.
- Na Yu <na.yu@064samsung.com> Constructor patches to CMC PKIData.
- Evangelos Karatsiolis <ekaratsiolis@064mtg.de> Corrected use of explicit tagging in X.509 PolicyConstraints class.
- VivleSoren <<https://github.com/VivleSoren>> additional constructor for McElieceCCA2PrivateKeyParameters.
- mtausig <<https://github.com/mtausig>> JavaDoc fix for MCSEncryptedDataGenerator.
- Anders Schack-Mulligen <<https://github.com/aschackmull>> code cleanups for CMSSignedDataParser, BrokenKDF2BytesGenerator.
- Sebastian Wolfgang Roland <sebastianwolfgang.roland@064stud.tu-darmstadt.de> Initial XMSS/XMSS-MT implementation.
- didisoft <<https://github.com/didisoft>> test code for PGP signature removal involving user ids.
- Mike Safonov<<https://github.com/MikeSafonov>> initial implementation of GOST3410-2012 for light weight provider and JCA

```
<li>Artem Storozhuk <storajs72&#064gmail.com> initial implementation of DSTU7564 (digest) and DSTU7624
(cipher) and their associated modes.</li>
<li>Andreas Glaser <andreas.glaser@gi-de.com> patch to recognise ANSSI curves for PKCS#10 requests.</li>
</ul>
</body>
</html>
```

1.40 selenium 3.5.3

1.40.1 Available under license :

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jar/org/openqa/selenium/internal/BuildInfo.java
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jar/org/openqa/selenium/ScriptTimeoutException.java
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jar/org/openqa/selenium/Keys.java
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jar/org/openqa/selenium/Rotatable.java
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jar/org/openqa/selenium/ScreenOrientation.java
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jar/org/openqa/selenium/html5/SessionStorage.java
* /opt/cola/permits/1240571657_1684950992.59308/0/selenium-api-3-5-3-sources-
jar/org/openqa/selenium/html5/Location.java
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* /opt/cola/permits/1240571657_1684950992.59308/0/selenium-api-3-5-3-sources-jar/org/openqa/selenium/interactions/InvalidCoordinatesException.java

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* /opt/cola/permits/1240571657_1684950992.59308/0/selenium-api-3-5-3-sources-jar/org/openqa/selenium/NotFoundException.java

* /opt/cola/permits/1240571657_1684950992.59308/0/selenium-api-3-5-3-sources-jar/org/openqa/selenium/security/Credentials.java

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* /opt/cola/permits/1240571657_1684950992.59308/0/selenium-api-3-5-3-sources-jar/org/openqa/selenium/internal/HasIdentity.java

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* /opt/cola/permits/1240571657_1684950992.59308/0/selenium-api-3-5-3-sources-jar/org/openqa/selenium/logging/LogEntry.java

* /opt/cola/permits/1240571657_1684950992.59308/0/selenium-api-3-5-3-sources-jar/org/openqa/selenium/interactions/HasInputDevices.java

* /opt/cola/permits/1240571657_1684950992.59308/0/selenium-api-3-5-3-sources-jar/org/openqa/selenium/WebDriver.java

* /opt/cola/permits/1240571657_1684950992.59308/0/selenium-api-3-5-3-sources-jar/org/openqa/selenium/SessionNotCreatedException.java

* /opt/cola/permits/1240571657_1684950992.59308/0/selenium-api-3-5-3-sources-jar/org/openqa/selenium/Dimension.java

* /opt/cola/permits/1240571657_1684950992.59308/0/selenium-api-3-5-3-sources-jar/org/openqa/selenium/internal/WrapsDriver.java

* /opt/cola/permits/1240571657_1684950992.59308/0/selenium-api-3-5-3-sources-jar/org/openqa/selenium/logging/LogEntries.java

* /opt/cola/permits/1240571657_1684950992.59308/0/selenium-api-3-5-3-sources-jar/org/openqa/selenium/InvalidSelectorException.java

* /opt/cola/permits/1240571657_1684950992.59308/0/selenium-api-3-5-3-sources-jar/org/openqa/selenium/Proxy.java

* /opt/cola/permits/1240571657_1684950992.59308/0/selenium-api-3-5-3-sources-jar/org/openqa/selenium/By.java

* /opt/cola/permits/1240571657_1684950992.59308/0/selenium-api-3-5-3-sources-jar/org/openqa/selenium/internal/Killable.java

* /opt/cola/permits/1240571657_1684950992.59308/0/selenium-api-3-5-3-sources-

jar/org/openqa/selenium/ElementNotSelectableException.java
* /opt/cola/permits/1240571657_1684950992.59308/0/selenium-api-3-5-3-sources-jar/org/openqa/selenium/internal/FindsById.java
* /opt/cola/permits/1240571657_1684950992.59308/0/selenium-api-3-5-3-sources-jar/org/openqa/selenium/JavascriptExecutor.java
* /opt/cola/permits/1240571657_1684950992.59308/0/selenium-api-3-5-3-sources-jar/org/openqa/selenium/interactions/InputSource.java
* /opt/cola/permits/1240571657_1684950992.59308/0/selenium-api-3-5-3-sources-jar/org/openqa/selenium/internal/Lock.java
* /opt/cola/permits/1240571657_1684950992.59308/0/selenium-api-3-5-3-sources-jar/org/openqa/selenium/WebElement.java
* /opt/cola/permits/1240571657_1684950992.59308/0/selenium-api-3-5-3-sources-jar/org/openqa/selenium/InvalidCookieDomainException.java
* /opt/cola/permits/1240571657_1684950992.59308/0/selenium-api-3-5-3-sources-jar/org/openqa/selenium/internal/WrapsElement.java
* /opt/cola/permits/1240571657_1684950992.59308/0/selenium-api-3-5-3-sources-jar/org/openqa/selenium/internal/FindsByXPath.java
* /opt/cola/permits/1240571657_1684950992.59308/0/selenium-api-3-5-3-sources-jar/org/openqa/selenium/Beta.java
* /opt/cola/permits/1240571657_1684950992.59308/0/selenium-api-3-5-3-sources-jar/org/openqa/selenium/Point.java
* /opt/cola/permits/1240571657_1684950992.59308/0/selenium-api-3-5-3-sources-jar/org/openqa/selenium/NoSuchWindowException.java

1.41 apache-commons-validator 1.3.1

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* /opt/cola/permits/1020252148_1611210463.64/0/com-springsource-org-apache-commons-validator-1-3-1-sources-jar/org/apache/commons/validator/routines/IntegerValidator.java

* /opt/cola/permits/1020252148_1611210463.64/0/com-springsource-org-apache-commons-validator-1-3-1-sources-jar/org/apache/commons/validator/EmailValidator.java

* /opt/cola/permits/1020252148_1611210463.64/0/com-springsource-org-apache-commons-validator-1-3-1-sources-jar/org/apache/commons/validator/routines/CalendarValidator.java

* /opt/cola/permits/1020252148_1611210463.64/0/com-springsource-org-apache-commons-validator-1-3-1-sources-jar/org/apache/commons/validator/FormSet.java

* /opt/cola/permits/1020252148_1611210463.64/0/com-springsource-org-apache-commons-validator-1-3-1-sources-jar/org/apache/commons/validator/util/ValidatorUtils.java

* /opt/cola/permits/1020252148_1611210463.64/0/com-springsource-org-apache-commons-validator-1-3-1-sources-jar/org/apache/commons/validator/routines/AbstractFormatValidator.java

* /opt/cola/permits/1020252148_1611210463.64/0/com-springsource-org-apache-commons-validator-1-3-1-sources-jar/org/apache/commons/validator/CreditCardValidator.java

* /opt/cola/permits/1020252148_1611210463.64/0/com-springsource-org-apache-commons-validator-1-3-1-sources-jar/org/apache/commons/validator/routines/PercentValidator.java

* /opt/cola/permits/1020252148_1611210463.64/0/com-springsource-org-apache-commons-validator-1-3-1-sources-jar/org/apache/commons/validator/routines/ByteValidator.java

* /opt/cola/permits/1020252148_1611210463.64/0/com-springsource-org-apache-commons-validator-1-3-1-sources-jar/org/apache/commons/validator/ISBNValidator.java

* /opt/cola/permits/1020252148_1611210463.64/0/com-springsource-org-apache-commons-validator-1-3-1-sources-jar/org/apache/commons/validator/util/Flags.java

* /opt/cola/permits/1020252148_1611210463.64/0/com-springsource-org-apache-commons-validator-1-3-1-sources-jar/org/apache/commons/validator/routines/BigDecimalValidator.java

* /opt/cola/permits/1020252148_1611210463.64/0/com-springsource-org-apache-commons-validator-1-3-1-sources-jar/org/apache/commons/validator/UrlValidator.java

* /opt/cola/permits/1020252148_1611210463.64/0/com-springsource-org-apache-commons-validator-1-3-1-sources-jar/org/apache/commons/validator/FormSetFactory.java

* /opt/cola/permits/1020252148_1611210463.64/0/com-springsource-org-apache-commons-validator-1-3-1-sources-jar/org/apache/commons/validator/Validator.java

* /opt/cola/permits/1020252148_1611210463.64/0/com-springsource-org-apache-commons-validator-1-3-1-sources-jar/org/apache/commons/validator/routines/TimeValidator.java

* /opt/cola/permits/1020252148_1611210463.64/0/com-springsource-org-apache-commons-validator-1-3-1-sources-jar/org/apache/commons/validator/routines/ShortValidator.java

* /opt/cola/permits/1020252148_1611210463.64/0/com-springsource-org-apache-commons-validator-1-3-1-sources-jar/org/apache/commons/validator/routines/DoubleValidator.java

* /opt/cola/permits/1020252148_1611210463.64/0/com-springsource-org-apache-commons-validator-1-3-1-sources-jar/org/apache/commons/validator/Field.java

* /opt/cola/permits/1020252148_1611210463.64/0/com-springsource-org-apache-commons-validator-1-3-1-sources-jar/org/apache/commons/validator/ValidatorResults.java

* /opt/cola/permits/1020252148_1611210463.64/0/com-springsource-org-apache-commons-validator-1-3-1-sources-jar/org/apache/commons/validator/routines/LongValidator.java

* /opt/cola/permits/1020252148_1611210463.64/0/com-springsource-org-apache-commons-validator-1-3-1-sources-jar/org/apache/commons/validator/routines/CurrencyValidator.java

* /opt/cola/permits/1020252148_1611210463.64/0/com-springsource-org-apache-commons-validator-1-3-1-sources-jar/org/apache/commons/validator/ValidatorResources.java

* /opt/cola/permits/1020252148_1611210463.64/0/com-springsource-org-apache-commons-validator-1-3-1-sources-jar/org/apache/commons/validator/Var.java

* /opt/cola/permits/1020252148_1611210463.64/0/com-springsource-org-apache-commons-validator-1-3-1-sources-jar/org/apache/commons/validator/Arg.java
* /opt/cola/permits/1020252148_1611210463.64/0/com-springsource-org-apache-commons-validator-1-3-1-sources-jar/org/apache/commons/validator/routines/AbstractNumberValidator.java
* /opt/cola/permits/1020252148_1611210463.64/0/com-springsource-org-apache-commons-validator-1-3-1-sources-jar/org/apache/commons/validator/ValidatorResult.java
* /opt/cola/permits/1020252148_1611210463.64/0/com-springsource-org-apache-commons-validator-1-3-1-sources-jar/org/apache/commons/validator/Msg.java
* /opt/cola/permits/1020252148_1611210463.64/0/com-springsource-org-apache-commons-validator-1-3-1-sources-jar/org/apache/commons/validator/routines/BigIntegerValidator.java
* /opt/cola/permits/1020252148_1611210463.64/0/com-springsource-org-apache-commons-validator-1-3-1-sources-jar/org/apache/commons/validator/routines/AbstractCalendarValidator.java
* /opt/cola/permits/1020252148_1611210463.64/0/com-springsource-org-apache-commons-validator-1-3-1-sources-jar/org/apache/commons/validator/routines/FloatValidator.java
* /opt/cola/permits/1020252148_1611210463.64/0/com-springsource-org-apache-commons-validator-1-3-1-sources-jar/org/apache/commons/validator/DateValidator.java
* /opt/cola/permits/1020252148_1611210463.64/0/com-springsource-org-apache-commons-validator-1-3-1-sources-jar/org/apache/commons/validator/ValidatorAction.java
* /opt/cola/permits/1020252148_1611210463.64/0/com-springsource-org-apache-commons-validator-1-3-1-sources-jar/org/apache/commons/validator/GenericTypeValidator.java
* /opt/cola/permits/1020252148_1611210463.64/0/com-springsource-org-apache-commons-validator-1-3-1-sources-jar/org/apache/commons/validator/ValidatorException.java
* /opt/cola/permits/1020252148_1611210463.64/0/com-springsource-org-apache-commons-validator-1-3-1-sources-jar/org/apache/commons/validator/routines/DateValidator.java
* /opt/cola/permits/1020252148_1611210463.64/0/com-springsource-org-apache-commons-validator-1-3-1-sources-jar/org/apache/commons/validator/Form.java
* /opt/cola/permits/1020252148_1611210463.64/0/com-springsource-org-apache-commons-validator-1-3-1-sources-jar/org/apache/commons/validator/GenericValidator.java

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* /opt/cola/permits/1020252148_1611210463.64/0/com-springsource-org-apache-commons-validator-1-3-1-

sources-jar/org/apache/commons/validator/javascript/package.html
* /opt/cola/permits/1020252148_1611210463.64/0/com-springsource-org-apache-commons-validator-1-3-1-
sources-jar/org/apache/commons/validator/digester-rules.xml
* /opt/cola/permits/1020252148_1611210463.64/0/com-springsource-org-apache-commons-validator-1-3-1-
sources-jar/org/apache/commons/validator/package.html
* /opt/cola/permits/1020252148_1611210463.64/0/com-springsource-org-apache-commons-validator-1-3-1-
sources-jar/org/apache/commons/validator/routines/package.html
* /opt/cola/permits/1020252148_1611210463.64/0/com-springsource-org-apache-commons-validator-1-3-1-
sources-jar/org/apache/commons/validator/util/package.html
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* /opt/cola/permits/1020252148_1611210463.64/0/com-springsource-org-apache-commons-validator-1-3-1-
sources-jar/org/apache/commons/validator/javascript/validateUtilities.js
* /opt/cola/permits/1020252148_1611210463.64/0/com-springsource-org-apache-commons-validator-1-3-1-
sources-jar/org/apache/commons/validator/javascript/validateDate.js
* /opt/cola/permits/1020252148_1611210463.64/0/com-springsource-org-apache-commons-validator-1-3-1-
sources-jar/org/apache/commons/validator/javascript/validateRequired.js
* /opt/cola/permits/1020252148_1611210463.64/0/com-springsource-org-apache-commons-validator-1-3-1-
sources-jar/org/apache/commons/validator/javascript/validateMaxLength.js
* /opt/cola/permits/1020252148_1611210463.64/0/com-springsource-org-apache-commons-validator-1-3-1-
sources-jar/org/apache/commons/validator/javascript/validateFloatRange.js
* /opt/cola/permits/1020252148_1611210463.64/0/com-springsource-org-apache-commons-validator-1-3-1-
sources-jar/org/apache/commons/validator/javascript/validateIntRange.js
* /opt/cola/permits/1020252148_1611210463.64/0/com-springsource-org-apache-commons-validator-1-3-1-
sources-jar/org/apache/commons/validator/javascript/validateMask.js
* /opt/cola/permits/1020252148_1611210463.64/0/com-springsource-org-apache-commons-validator-1-3-1-
sources-jar/org/apache/commons/validator/javascript/validateEmail.js
* /opt/cola/permits/1020252148_1611210463.64/0/com-springsource-org-apache-commons-validator-1-3-1-
sources-jar/org/apache/commons/validator/javascript/validateShort.js
* /opt/cola/permits/1020252148_1611210463.64/0/com-springsource-org-apache-commons-validator-1-3-1-

```
sources-jar/org/apache/commons/validator/javascript/validateCreditCard.js
* /opt/cola/permits/1020252148_1611210463.64/0/com-springsource-org-apache-commons-validator-1-3-1-
sources-jar/org/apache/commons/validator/javascript/validateByte.js
* /opt/cola/permits/1020252148_1611210463.64/0/com-springsource-org-apache-commons-validator-1-3-1-
sources-jar/org/apache/commons/validator/javascript/validateMinLength.js
* /opt/cola/permits/1020252148_1611210463.64/0/com-springsource-org-apache-commons-validator-1-3-1-
sources-jar/org/apache/commons/validator/javascript/validateFloat.js
* /opt/cola/permits/1020252148_1611210463.64/0/com-springsource-org-apache-commons-validator-1-3-1-
sources-jar/org/apache/commons/validator/javascript/validateInteger.js
```

1.42 htmlunit-corejs 2.23

1.42.1 Available under license :

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/**
* This interface defines a protocol for the reporting of errors during
* JavaScript translation in IDE-mode. If the
* { @link net.sourceforge.htmlunit.corejs.javascript.Parser}'s error reporter is
* set to an instance of this interface, then this interface's { @link #warning }
* and { @link #error } methods are called instead of the
* { @link net.sourceforge.htmlunit.corejs.javascript.ErrorReporter } versions.
* <p>
*
* These methods take a source char offset and a length. The rationale is that
* in interactive IDE-type environments, the source is available and the IDE
* will want to indicate where the error occurred and how much code participates
* in it. The start and length are generally chosen to fit within a single line,
* for readability, but the client is free to use the AST to determine the
* affected node(s) from the start position and change the error or warning's
* display bounds.
* <p>
*
* @author Steve Yegge
*/
```

Found in path(s):

```
* /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-
jar/net/sourceforge/htmlunit/corejs/javascript/ast/IdeErrorReporter.java
```

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```

* /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-
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jar/net/sourceforge/htmlunit/corejs/javascript/v8dtoa/DoubleHelper.java
* /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-
jar/net/sourceforge/htmlunit/corejs/javascript/v8dtoa/CachedPowers.java
* /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-
jar/net/sourceforge/htmlunit/corejs/javascript/v8dtoa/DiyFp.java
* /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-
jar/net/sourceforge/htmlunit/corejs/javascript/v8dtoa/FastDtoa.java

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jar/net/sourceforge/htmlunit/corejs/javascript/tools/debugger/treetable/AbstractCellEditor.java
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*/opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-
jar/net/sourceforge/htmlunit/corejs/javascript/DefaultErrorReporter.java
```

```
*/opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-
```

jar/net/sourceforge/htmlunit/corejs/javascript/tools/ToolErrorReporter.java
* /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-
jar/net/sourceforge/htmlunit/corejs/javascript/tools/debugger/ScopeProvider.java
* /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-
jar/net/sourceforge/htmlunit/corejs/javascript/NativeCall.java
* /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-
jar/net/sourceforge/htmlunit/corejs/javascript/typedarrays/NativeUint16Array.java
* /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-
jar/net/sourceforge/htmlunit/corejs/javascript/NativeString.java
* /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-
jar/net/sourceforge/htmlunit/corejs/javascript/NativeJavaConstructor.java
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jar/net/sourceforge/htmlunit/corejs/javascript/GeneratedClassLoader.java
* /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-
jar/net/sourceforge/htmlunit/corejs/javascript/EvaluatorException.java
* /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-
jar/net/sourceforge/htmlunit/corejs/javascript/NativeIterator.java
* /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-
jar/net/sourceforge/htmlunit/corejs/javascript/tools/shell/Global.java
* /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-
jar/net/sourceforge/htmlunit/corejs/javascript/ast/RegExpLiteral.java
* /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-
jar/net/sourceforge/htmlunit/corejs/javascript/ast/DestructuringForm.java
* /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-
jar/net/sourceforge/htmlunit/corejs/javascript/NativeJavaPackage.java
* /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-
jar/net/sourceforge/htmlunit/corejs/javascript/NativeObject.java
* /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-
jar/net/sourceforge/htmlunit/corejs/javascript/ast/ThrowStatement.java
* /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-
jar/net/sourceforge/htmlunit/corejs/javascript/typedarrays/NativeUint8ClampedArray.java
* /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-
jar/net/sourceforge/htmlunit/corejs/javascript/NativeError.java
* /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-
jar/net/sourceforge/htmlunit/corejs/javascript/v8dtoa/FastDtoaBuilder.java
* /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-
jar/net/sourceforge/htmlunit/corejs/javascript/tools/shell/JavaPolicySecurity.java
* /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-
jar/net/sourceforge/htmlunit/corejs/javascript/NativeJavaObject.java
* /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-
jar/net/sourceforge/htmlunit/corejs/javascript/WrapFactory.java
* /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-
jar/net/sourceforge/htmlunit/corejs/javascript/LazilyLoadedCtor.java
* /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-

jar/net/sourceforge/htmlunit/corejs/javascript/ast/SwitchStatement.java
* /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-
jar/net/sourceforge/htmlunit/corejs/javascript/ast/ConditionalExpression.java
* /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-
jar/net/sourceforge/htmlunit/corejs/javascript/ast/Name.java
* /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-
jar/net/sourceforge/htmlunit/corejs/javascript/ast/CatchClause.java
* /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-
jar/net/sourceforge/htmlunit/corejs/javascript/ContinuationPending.java
* /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-
jar/net/sourceforge/htmlunit/corejs/javascript/ContextFactory.java
* /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-
jar/net/sourceforge/htmlunit/corejs/javascript/ast/ObjectLiteral.java
* /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-
jar/net/sourceforge/htmlunit/corejs/javascript/ast/Symbol.java
* /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-
jar/net/sourceforge/htmlunit/corejs/javascript/InterpreterData.java
* /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-
jar/net/sourceforge/htmlunit/corejs/javascript/Token.java
* /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-
jar/net/sourceforge/htmlunit/corejs/javascript/typedarrays/NativeTypedArrayView.java
* /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-
jar/net/sourceforge/htmlunit/corejs/javascript/ContextAction.java
* /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-
jar/net/sourceforge/htmlunit/corejs/javascript/ast/XmlElemRef.java
* /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-
jar/net/sourceforge/htmlunit/corejs/javascript/ExternalArrayData.java
* /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-
jar/net/sourceforge/htmlunit/corejs/javascript/ast/InfixExpression.java
* /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-
jar/net/sourceforge/htmlunit/corejs/javascript/FunctionObject.java
* /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-
jar/net/sourceforge/htmlunit/corejs/javascript/Wrapper.java
* /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-
jar/net/sourceforge/htmlunit/corejs/javascript/tools/shell/QuitAction.java
* /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-
jar/net/sourceforge/htmlunit/corejs/javascript/optimizer/Codegen.java
* /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-
jar/net/sourceforge/htmlunit/corejs/javascript/ImporterTopLevel.java
* /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-
jar/net/sourceforge/htmlunit/corejs/classfile/ByteCode.java
* /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-
jar/net/sourceforge/htmlunit/corejs/javascript/NodeTransformer.java
* /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-
jar/net/sourceforge/htmlunit/corejs/javascript/ast/ArrayComprehensionLoop.java
* /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-
jar/net/sourceforge/htmlunit/corejs/javascript/NativeContinuation.java
* /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-

jar/net/sourceforge/htmlunit/corejs/javascript/SecurityUtilities.java
* /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-
jar/net/sourceforge/htmlunit/corejs/javascript/Synchronizer.java
* /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-
jar/net/sourceforge/htmlunit/corejs/javascript/serialize/ScriptableInputStream.java
* /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-
jar/net/sourceforge/htmlunit/corejs/javascript/NativeJavaTopPackage.java
* /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-
jar/net/sourceforge/htmlunit/corejs/javascript/ClassCache.java
* /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-
jar/net/sourceforge/htmlunit/corejs/javascript/ast/WhileLoop.java
* /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-
jar/net/sourceforge/htmlunit/corejs/javascript/Arguments.java
* /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-
jar/net/sourceforge/htmlunit/corejs/javascript/ScriptRuntime.java
* /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-
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* /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-
jar/net/sourceforge/htmlunit/corejs/javascript/regexp/RegExpImpl.java
* /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-
jar/net/sourceforge/htmlunit/corejs/javascript/tools/debugger/GuiCallback.java
* /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-
jar/net/sourceforge/htmlunit/corejs/classfile/ClassFileWriter.java
* /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-
jar/net/sourceforge/htmlunit/corejs/javascript/SecurityController.java
* /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-
jar/net/sourceforge/htmlunit/corejs/javascript/Icode.java
* /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-
jar/net/sourceforge/htmlunit/corejs/javascript/ast/IfStatement.java
* /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-
jar/net/sourceforge/htmlunit/corejs/javascript/ast/Comment.java
* /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-
jar/net/sourceforge/htmlunit/corejs/javascript/ast/XMLPropRef.java
* /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-
jar/net/sourceforge/htmlunit/corejs/javascript/regexp/NativeRegExp.java
* /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-
jar/net/sourceforge/htmlunit/corejs/javascript/ErrorReporter.java
* /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-
jar/net/sourceforge/htmlunit/corejs/javascript/NativeBoolean.java
* /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-
jar/net/sourceforge/htmlunit/corejs/javascript/typedarrays/NativeTypedArrayIterator.java
* /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-
jar/net/sourceforge/htmlunit/corejs/javascript/typedarrays/NativeDataView.java
* /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-
jar/net/sourceforge/htmlunit/corejs/javascript/ast/XMLFragment.java
* /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-
jar/net/sourceforge/htmlunit/corejs/javascript/NativeDate.java
* /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-

jar/net/sourceforge/htmlunit/corejs/javascript/tools/debugger/Main.java
* /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-
jar/net/sourceforge/htmlunit/corejs/javascript/ast/LetNode.java
* /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-
jar/net/sourceforge/htmlunit/corejs/javascript/RhinoException.java
* /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-
jar/net/sourceforge/htmlunit/corejs/javascript/ContextListener.java
* /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-
jar/net/sourceforge/htmlunit/corejs/javascript/ast/ExpressionStatement.java
* /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-
jar/net/sourceforge/htmlunit/corejs/javascript/ast/AstRoot.java
* /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-
jar/net/sourceforge/htmlunit/corejs/javascript/JavaMembers.java
* /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-
jar/net/sourceforge/htmlunit/corejs/javascript/typedarrays/NativeUint8Array.java
* /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-
jar/net/sourceforge/htmlunit/corejs/javascript/ast/ParseProblem.java
* /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-
jar/net/sourceforge/htmlunit/corejs/javascript/NativeFunction.java
* /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-
jar/net/sourceforge/htmlunit/corejs/javascript/ast/BreakStatement.java
* /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-
jar/net/sourceforge/htmlunit/corejs/javascript/RegExpProxy.java
* /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-
jar/net/sourceforge/htmlunit/corejs/javascript/InterpretedFunction.java
* /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-
jar/net/sourceforge/htmlunit/corejs/javascript/Kit.java
* /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-
jar/net/sourceforge/htmlunit/corejs/javascript/NativeNumber.java
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/*
* @(#)TreeTableModelAdapter.java 1.2 98/10/27
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* /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-
jar/net/sourceforge/htmlunit/corejs/javascript/tools/debugger/treetable/TreeTableModelAdapter.java
```

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```

```
*
```

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```

```
// throws a special exception. This ensures execution of all pending
```

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* /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-
jar/net/sourceforge/htmlunit/corejs/javascript/NativeGenerator.java
```

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* /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-
jar/net/sourceforge/htmlunit/corejs/javascript/NativeMath.java
```

```
* /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-
jar/net/sourceforge/htmlunit/corejs/javascript/json/JsonParser.java
```

```
* /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-
jar/net/sourceforge/htmlunit/corejs/javascript/NativeJSON.java
```

```
* /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-
jar/net/sourceforge/htmlunit/corejs/javascript/IdScriptableObject.java
```


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* /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-jar/net/sourceforge/htmlunit/corejs/javascript/resources/Messages_fr.properties

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/**

* Initialize the standard objects.

*

* Creates instances of the standard objects and their constructors (Object,

* String, Number, Date, etc.), setting up 'scope' to act as a global object

* as in ECMA 15.1.

* <p>

*

* This method must be called to initialize a scope before scripts can be

* evaluated in that scope.

* <p>

*

* This method does not affect the Context it is called upon.

* <p>

*

* This form of the method also allows for creating "sealed" standard

* objects. An object that is sealed cannot have properties added, changed,

* or removed. This is useful to create a "superglobal" that can be shared

* among several top-level objects. Note that sealing is not allowed in the

* current ECMA/ISO language specification, but is likely for the next

* version.

*

* @param scope

* the scope to initialize, or null, in which case a new object

* will be created to serve as the scope

* @param sealed

* whether or not to create sealed standard objects that cannot

* be modified.

* @return the initialized scope. The method returns the value of the scope

* argument if it is not null or newly allocated scope object.

* @since 1.4R3

*/

Found in path(s):

* /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-jar/net/sourceforge/htmlunit/corejs/javascript/Context.java

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/*

* @(#)JTreeTable.java 1.2 98/10/27

*

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* /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-jar/net/sourceforge/htmlunit/corejs/javascript/tools/debugger/treetable/JTreeTable.java

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- * /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-jar/net/sourceforge/htmlunit/corejs/javascript/annotations/JSFunction.java
- * /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-jar/net/sourceforge/htmlunit/corejs/javascript/commonjs/module/provider/UrlModuleSourceProvider.java
- * /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-jar/net/sourceforge/htmlunit/corejs/javascript/commonjs/module/RequireBuilder.java
- * /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-jar/net/sourceforge/htmlunit/corejs/javascript/optimizer/Block.java
- * /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-jar/net/sourceforge/htmlunit/corejs/javascript/annotations/JSSetter.java
- * /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-jar/net/sourceforge/htmlunit/corejs/javascript/commonjs/module/provider/MultiModuleScriptProvider.java
- * /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-jar/net/sourceforge/htmlunit/corejs/javascript/commonjs/module/provider/UrlConnectionSecurityDomainProvider.java
- * /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-jar/net/sourceforge/htmlunit/corejs/javascript/annotations/JSConstructor.java
- * /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-jar/net/sourceforge/htmlunit/corejs/javascript/DefiningClassLoader.java
- * /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-jar/net/sourceforge/htmlunit/corejs/javascript/optimizer/Optimizer.java
- * /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-jar/net/sourceforge/htmlunit/corejs/javascript/commonjs/module/provider/DefaultUrlConnectionExpiryCalculator.java
- * /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-jar/net/sourceforge/htmlunit/corejs/javascript/commonjs/module/provider/ModuleSource.java
- * /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-jar/net/sourceforge/htmlunit/corejs/javascript/commonjs/module/Require.java
- * /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-jar/net/sourceforge/htmlunit/corejs/javascript/ScriptStackElement.java
- * /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-jar/net/sourceforge/htmlunit/corejs/javascript/commonjs/module/ModuleScriptProvider.java
- * /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-jar/net/sourceforge/htmlunit/corejs/javascript/annotations/JSStaticFunction.java
- * /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-jar/net/sourceforge/htmlunit/corejs/javascript/commonjs/module/provider/ModuleSourceProvider.java
- * /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-jar/net/sourceforge/htmlunit/corejs/javascript/annotations/JSGetter.java
- * /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-jar/net/sourceforge/htmlunit/corejs/javascript/commonjs/module/ModuleScript.java
- * /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-jar/net/sourceforge/htmlunit/corejs/javascript/commonjs/module/provider/ModuleSourceProviderBase.java
- * /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-jar/net/sourceforge/htmlunit/corejs/javascript/PolicySecurityController.java
- * /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-

```
jar/net/sourceforge/htmlunit/corejs/javascript/commonjs/module/provider/ParsedContentType.java
* /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-
jar/net/sourceforge/htmlunit/corejs/javascript/RhinoSecurityManager.java
* /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-
jar/net/sourceforge/htmlunit/corejs/javascript/tools/SourceReader.java
* /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-
jar/net/sourceforge/htmlunit/corejs/javascript/commonjs/module/provider/SoftCachingModuleScriptProvider.java
* /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-
jar/net/sourceforge/htmlunit/corejs/javascript/commonjs/module/provider/StrongCachingModuleScriptProvider.java
* /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-
jar/net/sourceforge/htmlunit/corejs/javascript/tools/shell/ShellConsole.java
* /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-
jar/net/sourceforge/htmlunit/corejs/javascript/SecureCaller.java
* /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-
jar/net/sourceforge/htmlunit/corejs/javascript/StackStyle.java
* /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-
jar/net/sourceforge/htmlunit/corejs/javascript/commonjs/module/provider/CachingModuleScriptProviderBase.java
* /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-
jar/net/sourceforge/htmlunit/corejs/javascript/commonjs/module/provider/URLConnectionExpiryCalculator.java
* /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-
jar/net/sourceforge/htmlunit/corejs/javascript/optimizer/OptFunctionNode.java
* /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-
jar/net/sourceforge/htmlunit/corejs/javascript/optimizer/OptTransformer.java
* /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-
jar/net/sourceforge/htmlunit/corejs/javascript/commonjs/module/ModuleScope.java
No license file was found, but licenses were detected in source scan.
```

```
warning: refname 'HEAD' is ambiguous.
warning: LF will be replaced by CRLF in README.md.
The file will have its original line endings in your working directory.
warning: LF will be replaced by CRLF in RELEASE-NOTES.md.
The file will have its original line endings in your working directory.
warning: LF will be replaced by CRLF in build.gradle.
The file will have its original line endings in your working directory.
diff --git a/.gitignore b/.gitignore
index 241265f..e956a5b 100644
--- a/.gitignore
+++ b/.gitignore
@@ -17,8 +17,3 @@ target/

*~
-
-# eclipse
-.classpath
-.project
-.test262
diff --git a/.gitmodules b/.gitmodules
```

```

deleted file mode 100644
index c41542f..0000000
--- a/.gitmodules
+++ /dev/null
@@ -1,3 +0,0 @@
-[submodule "test262"]
- path = test262
- url = https://github.com/tc39/test262.git
diff --git a/README.md b/README.md
index 0acee8a..2db8ff2 100644
--- a/README.md
+++ b/README.md
@@ -13,8 +13,6 @@ Rhino is licensed under the [MPL 2.0](./LICENSE.txt).
<table>
<tr><td><a href="https://github.com/mozilla/rhino/releases/tag/Rhino1_7R5_RELEASE">Rhino
1.7R5</a></td><td>January 29, 2015</td></tr>
<tr><td><a href="https://github.com/mozilla/rhino/releases/tag/Rhino1_7_6_RELEASE">Rhino
1.7.6</a></td><td>April 15, 2015</td></tr>
<tr><td><a href="https://github.com/mozilla/rhino/releases/tag/Rhino1_7_7_RELEASE">Rhino
1.7.7</a></td><td>June 17, 2015</td></tr>
<tr><td><a href="https://github.com/mozilla/rhino/releases/tag/Rhino1_7_7_1_RELEASE">Rhino
1.7.7.1</a></td><td>February 2, 2016</td></tr>
</table>

```

[Release Notes](./RELEASE-NOTES.md) for recent releases.

```
@@ -94,8 +92,8 @@ mavenReleaseRepo=
```

Rhino can run as a stand-alone interpreter from the command line:

```

- java -jar buildGradle/libs/rhino-1.7.7.1.jar
- Rhino 1.7.7 2015 05 03
+ java -jar build/libs/rhino-1.7.7-SNAPSHOT.jar
+ Rhino 1.7.7-SNAPSHOT 2015 05 03
  js> print('Hello, World!');
  Hello, World!
  js>
diff --git a/RELEASE-NOTES.md b/RELEASE-NOTES.md
index f9c0fc4..299f831 100644
--- a/RELEASE-NOTES.md
+++ b/RELEASE-NOTES.md
@@ -1,133 +1,3 @@
-# Rhino 1.7.7.1
-## February 1, 2016
-
-This release fixes a few critical bugs that were affecting code in the field:
-
-* Improve String.prototype.repeat to work more efficiently and to not overflow
-* Fix CallSite.isNative() and isTopLevel() so that they do not throw fatal errors

```

-* Replace the implementation of the "YearFromTime" internal method for the Date class to avoid large CPU loops

-

-Specific Changes:

-

- * Formatting issue with SourceReader.
- * Fix CallSite.isNative() and isTopLevel() to not throw.
- * Make String.prototype.repeat not overflow for large values, and change code style a bit.
- * Add tests from 1.7.7.
- * Add Gradle code from 1.7.7.
- * Replace YearFromTime with code from jsdate.cpp to avoid long CPU loops.

-

-# Rhino 1.7.7

-## June 17, 2015

-

-Major changes in this release:

-

-[Release 1.7.7](https://github.com/mozilla/rhino/issues?q=milestone%3A%22Release+1.7.7%22+is%3Aclosed)

-

-Specific changes:

-

- * [Issue 202](https://github.com/mozilla/rhino/issues/202) Initial support for ECMA Script 6 "method definitions".
- * [Issue 201](https://github.com/mozilla/rhino/issues/201) Make sure that all native Error instances can be converted to JSON.
- * [Issue 184](https://github.com/mozilla/rhino/issues/184) Fix compile encoding errors.
- * [Issue 178](https://github.com/mozilla/rhino/issues/178) Support build using Gradle (build using Ant is still supported but will be removed in a future release.)
- * [Issue 176](https://github.com/mozilla/rhino/issues/176) Add ScriptRuntime.throwCustomError to make it easier to re-throw Java exceptions
- * [Issue 166](https://github.com/mozilla/rhino/issues/166) Support many ES6 additions to the Math class.
- * [Issue 165](https://github.com/mozilla/rhino/issues/165) Support many ES6 additions to the Number class.
- * [Issue 163](https://github.com/mozilla/rhino/issues/163) Support ES6 additions to the String class.

-

-Thanks to everyone who contributed!

-

-Ahmed Ashour (3):

- * Add .gitattributes for End-Of-Line automatic handling
- * Remove extra space
- * Update .gitignore for eclipse generated files.

-

-Evgeny Shepelyuk (45):

- * Implementing possibility of writing JS tests code inside JUnit Test.
- * + gradle wrapper + sources and test compilation + jar building
- * + More JUnit style for Gradle compatibility - disabled test removed
- * + running tests
- * + benchmark test changes for Gradle compaibility + run benchmark from Gradle + publishing artifacts from Gradle
- * + benchmark test changes for Gradle compaibility + run benchmark from Gradle + publishing artifacts

from Gradle

- * + publishing artifacts to maven compatible repositories
- * + releasing with Gradle
- * + releasing with Gradle
- * + releasing with Gradle
- * + releasing with Gradle
- * [Gradle Release Plugin] - new version commit: '1.7.8'.
- * + releasing with Gradle
- * + releasing with Gradle
- * + releasing with Gradle
- * [Gradle Release Plugin] - pre tag commit: '1.7.8'.
- * Revert "+ publishing artifacts to maven compatible repositories"
- * rollback gradle release
- * + properly populating manifest + exclude unnecessary files from jar
- * + adding license to jar
- * + build will not fail when maven credentials are not defined
- * + getting rhino display version from MANIFEST
- * * modifying README with Gradle details
- * Update README.md
- * Improving reporting of MozillaSuiteTest tests
- * Improving reporting of MozillaSuiteTest tests
- * + initial implementation of String.prototype.includes
- * + initial implementation of String.prototype.includes
- * + initial implementation of String.prototype.includes
- * + initial implementation of String.prototype.startsWith
- * + initial implementation of String.prototype.startsWith
- * + initial implementation of String.prototype.endsWith
- * + initial implementation of String.prototype.endsWith
- * + initial implementation of String.prototype.endsWith
- * + implementation of String.prototype.normalize
- * + implementation of String.prototype.normalize
- * + implementation of String.prototype.normalize
- * + implementation of String.prototype.repeat
- * + implementation of String.prototype.repeat
- * + implementation of String.prototype.codePointAt
- * + implementation of String.prototype.codePointAt
- * * fixing tests after implementation of ES6 string methods + implementing RequireObjectCoercible from ECMA spec
- * * fixing tests after implementation of ES6 string methods + implementing RequireObjectCoercible from ECMA spec
- * * fixing tests after implementation of ES6 string methods + implementing RequireObjectCoercible from ECMA spec
- * Better exception reporting
-
- Gregory Brail (16):
- * Update for new development iteration.
- * Read manifest URLs in a loop until we find the right one when trying to determine the implementation version.

- * Permissions fix.
- * Fix potential NPE in ComplianceTest.
- * Re-run IDMap on NativeString.
- * Merge branch 'issue_176_2' of <https://github.com/raimi/rhino> into raimi-issue_176_2
- * Merge branch 'master' of <https://github.com/asashour/rhino> into asashour-master
- * Add .gitattributes.
- * Re-arrange "global variables" regression tests for fewer spurious failures under Gradle.
- * Don't make "javaException" and "rhinoException" on the NativeError object enumerable, because they cannot be converted to JSON.
- * Fix file name for V8 benchmark results.
- * Add some ES6 methods to Math and Number.
- * "BigO" regression test exhibits different and inconsistent behavior on Java 8. So fix it.
- * Fix a bug in Math.hypot().
- * Added a constant for ECMAScript 6 language level: Context.VERSION_ES6.
- * Add "readline" and "write" to console.

-

-Raimund Jacob (5):

- * Allow throwing arbitrary objects from java world
- * 176: Adjust javadoc to reality.
- * Emacs, sorry
- * Issue176: Test infrastructure
- * 176: Actually Working Tests

-

-sainaen (1):

- * Print exception message in case of JavaScriptException in ScriptTestsBase

-

-tntim96 (1):

- * Fix Test compile encoding error 'unmappable character for encoding ASCII' - <https://github.com/mozilla/rhino/issues/184>

-

-uchida_t (5):

- * set capacity for StringBuilder in String#repeat
- * Implement ES6 MethodDefinition
- * `set` and `get` is valid method name.
- * NumericLiteral/StringLiteral is valid method name.

-

Rhino 1.7.6

April 15, 2015

diff --git a/build.gradle b/build.gradle

index c5f1be3..d8e8a48 100644

--- a/build.gradle

+++ b/build.gradle

@@ -1,8 +1,8 @@

+import sun.applet.Main

+

apply plugin: 'java'

apply plugin: 'idea'


```

apply plugin: 'maven-publish'
-apply plugin: 'jacoco'
-apply plugin: 'distribution'

sourceCompatibility = 1.6
targetCompatibility = 1.6
@@ -42,8 +42,6 @@ sourceSets {

dependencies {
    testCompile "junit:junit:4.12"
-   testCompile "org.yaml:snakeyaml:1.15"
-   testCompile "net.trajano.caliper:caliper:1.2.1"
}

test {
@@ -54,39 +52,18 @@ test {
    systemProperty 'user.language', 'en'
    systemProperty 'user.country', 'US'
    systemProperty 'user.timezone', 'America/Los_Angeles'
-   systemProperty 'file.encoding', 'UTF-8'
    maxHeapSize = "256m"
    testLogging.showStandardStreams = true
}

-task sunSpiderBenchmark(type: JavaExec) {
-   main "com.google.caliper.runner.CaliperMain"
-   systemProperty 'rhino.benchmark.report', "${buildDir.absolutePath}"
-   args "-Cresults.upload.class=org.mozilla.javascript.benchmarks.ResultPlotter", "-i", "runtime",
"org.mozilla.javascript.benchmarks.CaliperSpiderBenchmark.Spider"
-   classpath sourceSets.test.runtimeClasspath
-}
-
task testBenchmark(type: Test) {
-   jacoco {
-       enabled = false
-   }
-   include "**/benchmarks/V8Benchmark*"
+   include "**/benchmarks/*Benchmark*"
    systemProperty 'rhino.benchmark.report', "${buildDir.absolutePath}"
-   systemProperty 'file.encoding', 'UTF-8'
    workingDir = file("testsrc/benchmarks")
    maxHeapSize = "256m"
    testLogging.showStandardStreams = true
    forkEvery = 1
}
-testBenchmark.dependsOn sunSpiderBenchmark
-
-task microBenchmark(type: JavaExec) {

```

```

- main "com.google.caliper.runner.CaliperMain"
- args "-i", "runtime", "org.mozilla.javascript.benchmarks.CaliperObjectBenchmark.FieldAccess", "-DstringKeys=100,1000", "-DintKeys=0,10,1000"
- classpath sourceSets.test.runtimeClasspath
-}
-
-

idea {
    module {
@@ -132,9 +109,6 @@ task rhinoJavadocJar(type: Jar, dependsOn: rhinoJavadoc) {
publishing {
    publications {
        rhino(MavenPublication) {
-            groupId 'org.mozilla'
-            artifactId 'rhino'
-
            pom.withXml {
                def root = asNode()

@@ -144,11 +118,6 @@ publishing {
        """)
            root.appendNode("url", "https://developer.mozilla.org/en/Rhino")

-            def p = root.appendNode("parent")
-            p.appendNode("groupId", "org.sonatype.oss")
-            p.appendNode("artifactId", "oss-parent")
-            p.appendNode("version", "7")
-
            def l = root.appendNode("licenses").appendNode("license")
            l.appendNode("name", "Mozilla Public License, Version 2.0")
            l.appendNode("url", "http://www.mozilla.org/MPL/2.0/index.txt")
@@ -188,45 +157,4 @@ publishing {
        }
    }
}
-}
-
-jacoco {
-    toolVersion = "0.7.4.201502262128"
-}
-
-jacocoTestReport.dependsOn test
-jacocoTestReport {
-    reports {
-        html.destination "${buildDir}/jacocoHtml"
-    }
-}

```

```

-
-
-
-distributions {
-   main {
-     contents {
-       from(sourceSets.main.allSource) {
-         exclude 'man'
-         into 'rhino' + project.version + '/src'
-       }
-       from(javadoc.destinationDir) {
-         into 'rhino' + project.version + '/docs'
-       }
-       from(jar.outputs.files) {
-         into 'rhino' + project.version + '/lib'
-       }
-       from(sourceSets.main.allSource) {
-         include 'man/*.1'
-         into 'rhino' + project.version
-       }
-       from(file(".")) {
-         include '*.txt'
-         into 'rhino' + project.version
-       }
-       into "/"
-     }
-   }
-}
-
-distZip.dependsOn javadoc, jar
+}
\ No newline at end of file
diff --git a/build.properties b/build.properties
index a22d698..8a9a7f5 100644
warning: LF will be replaced by CRLF in build.properties.
The file will have its original line endings in your working directory.
warning: LF will be replaced by CRLF in gradle.properties.
The file will have its original line endings in your working directory.
warning: LF will be replaced by CRLF in gradle/wrapper/gradle-wrapper.properties.
The file will have its original line endings in your working directory.
warning: LF will be replaced by CRLF in maven/maven-pom.xml.
The file will have its original line endings in your working directory.
warning: LF will be replaced by CRLF in maven/maven-snapshot-deploy.sh.
The file will have its original line endings in your working directory.
warning: LF will be replaced by CRLF in maven/maven-staging-deploy.sh.
The file will have its original line endings in your working directory.
warning: LF will be replaced by CRLF in src/manifest.
The file will have its original line endings in your working directory.

```

```

--- a/build.properties
+++ b/build.properties
@@ -4,9 +4,9 @@

name: rhino
Name: Rhino
-version: 1.7.8-SNAPSHOT
+version: 1.7.7
# See Context#getImplementationVersion() for format of this!
-implementation.version: Rhino 1.7.8-SNAPSHOT ${implementation.date}
+implementation.version: Rhino 1.7.7 ${implementation.date}

build.dir: build
rhino.jar: js.jar
diff --git a/gradle.properties b/gradle.properties
index 20f9731..bad960b 100644
--- a/gradle.properties
+++ b/gradle.properties
@@ -1,7 +1,5 @@
#Sun, 26 Apr 2015 10:43:55 +0300
rootProject.name=rhino
group=org.mozilla
-version=1.7.8-SNAPSHOT
+version=1.7.7-SNAPSHOT
buildDir=buildGradle
-mavenSnapshotRepo=https://oss.sonatype.org/content/repositories/snapshots
-mavenReleaseRepo=https://oss.sonatype.org/service/local/staging/deploy/maven
diff --git a/gradle/wrapper/gradle-wrapper.jar b/gradle/wrapper/gradle-wrapper.jar
index fd7e590..085a1cd 100644
Binary files a/gradle/wrapper/gradle-wrapper.jar and b/gradle/wrapper/gradle-wrapper.jar differ
diff --git a/gradle/wrapper/gradle-wrapper.properties b/gradle/wrapper/gradle-wrapper.properties
index 57efa16..9304b3c 100644
--- a/gradle/wrapper/gradle-wrapper.properties
+++ b/gradle/wrapper/gradle-wrapper.properties
@@ -1,6 +1,6 @@
-#Tue Sep 01 10:11:01 PDT 2015
+#Sun Apr 26 16:37:24 EEST 2015
distributionBase=GRADLE_USER_HOME
distributionPath=wrapper/dists
zipStoreBase=GRADLE_USER_HOME
zipStorePath=wrapper/dists
-distributionUrl=https://services.gradle.org/distributions/gradle-2.6-bin.zip
+distributionUrl=https://services.gradle.org/distributions/gradle-2.3-all.zip
diff --git a/maven/maven-pom.xml b/maven/maven-pom.xml
index effb89d..f189e25 100644
--- a/maven/maven-pom.xml
+++ b/maven/maven-pom.xml
@@ -12,7 +12,7 @@

```

```

<groupId>org.mozilla</groupId>
<artifactId>rhino</artifactId>
<name>Mozilla Rhino</name>
- <version>1.7.8-SNAPSHOT</version>
+ <version>1.7.7-SNAPSHOT</version>

<packaging>jar</packaging>
<description>
diff --git a/maven/maven-snapshot-deploy.sh b/maven/maven-snapshot-deploy.sh
index 7c6d459..adecde0 100755
--- a/maven/maven-snapshot-deploy.sh
+++ b/maven/maven-snapshot-deploy.sh
@@ -1,15 +1,7 @@
#!/bin/sh

-deployFile=`ls ../buildGradle/libs/rhino*.jar`
-
-if [ ! -f $deployFile ]
-then
- echo "File cannot be found in $deployFile"
- exit 2
-fi
-
mvn deploy:deploy-file \
- -Dfile=${deployFile} \
+ -Dfile=../build/rhino1_7R5pre/js.jar \
-DpomFile=maven-pom.xml \
-DrepositoryId=sonatype-nexus-snapshots \
-Durl=https://oss.sonatype.org/content/repositories/snapshots/
diff --git a/maven/maven-staging-deploy.sh b/maven/maven-staging-deploy.sh
index 5159608..323e025 100755
--- a/maven/maven-staging-deploy.sh
+++ b/maven/maven-staging-deploy.sh
@@ -5,12 +5,9 @@ vers=`egrep '^version:' ../build.properties | awk '{print $2}'`
echo "Deploying ${vers}"

pom=maven-pom.xml
-jsjar=../buildGradle/libs/rhino-${vers}.jar
-echo "Installing ${jsjar}"
-srczip=../buildGradle/libs/rhino-${vers}-sources.jar
-echo "Sources are ${srczip}"
-doczip=../buildGradle/libs/rhino-${vers}-javadoc.jar
-echo "Javadoc is ${doczip}"
+jsjar=../build/rhino${vers}/js.jar
+srczip=../rhino${vers}-sources.zip
+doczip=../build/rhino${vers}/javadoc.zip

if [ ! -f $jsjar ]

```

```

then
@@ -20,7 +17,7 @@ fi

if [ ! -f $srczip ]
then
- echo "Missing rhino-${vers}-sources.zip. Run \"ant source-zip\"."
+ echo "Missing rhino${vers}-sources.zip. Run \"ant source-zip\"."
  exit 2
fi

```

```

diff --git a/release-steps.txt b/release-steps.txt
deleted file mode 100644
index bc07ac3..0000000
--- a/release-steps.txt
+++ /dev/null
@@ -1,37 +0,0 @@
-Update version in:
- src/manifest
- build.properties
- gradle.properties
- maven/maven-pom.xml
-
-Paste release notes into RELEASE_NOTES.md:
- git shortlog LAST_TAG.. | sed 's/^ */'
-
-Paste release info into README.md
- Copy README into gh-pages
- Extract build/*/javadoc.zip to gh-pages/javadoc
-
-Re-run compat-table "engine.js"
- Copy HTML to gh-pages/compat
-
-./gradlew publishToMavenLocal distZip
-cd maven
-./maven-staging-deploy.sh
-
-Go to oss.sonatype.org
- Find "org.mozilla" staging repo, close, release, and drop.
-
-git tag for new release
-
-Update release in GitHub
- Paste release notes, upload "rhinoXXX.zip" and "js.jar"
-
-Update to new snapshot version in:
- src/manifest
- build.properties
- gradle.properties

```

```

- maven/maven-pom.xml
-
-Update the Homebrew formula. Submit a PR for:
- Homebrew/homebrew
- Library/Formula/rhino.rb
diff --git a/src/manifest b/src/manifest
index 8c5cbdc..ff75131 100644
--- a/src/manifest
+++ b/src/manifest
@@ -1,6 +1,6 @@
Manifest-Version: 1.0
Main-Class: org.mozilla.javascript.tools.shell.Main
-Implementation-Version: 1.7.8-SNAPSHOT
-Implementation-Title: Mozilla Rhino 1.7.8
+Implementation-Version: 1.7.7-SNAPSHOT
+Implementation-Title: Mozilla Rhino 1.7.7
Implementation-Vendor: Mozilla Foundation
Implementation-URL: http://www.mozilla.org/rhino
diff --git a/src/org/mozilla/javascript/Arguments.java b/src/org/mozilla/javascript/Arguments.java
index 5d89e3b..e58eeb1 100644
--- a/src/org/mozilla/javascript/Arguments.java
+++ b/src/org/mozilla/javascript/Arguments.java
@@ -14,7 +14,7 @@ package org.mozilla.javascript;
 * @see org.mozilla.javascript.NativeCall
 * @author Norris Boyd
 */
-final class Arguments extends IdScriptableObject
+class Arguments extends IdScriptableObject
{
    static final long serialVersionUID = 4275508002492040609L;

@@ -42,13 +42,28 @@ final class Arguments extends IdScriptableObject
    } else {
        callerObj = NOT_FOUND;
    }
}

-
-    defineProperty(NativeSymbol.ITERATOR_PROPERTY, iteratorMethod, ScriptableObject.DONTENUM);
}

+ public Arguments(final Arguments original) {
+     this.activation = original.activation;
+
+     setParentScope(original.getParentScope());
+     setPrototype(original.getPrototype());
+
+     args = original.args;
+     lengthObj = original.lengthObj;
+     calleeObj = original.calleeObj;

```

```

+
+   callerObj = original.callerObj;
+ }
+
+
+   @Override
+   public String getClassName()
+   {
+     if (Context.getContext().hasFeature(Context.FEATURE_HTMLUNIT_ARGUMENTS_IS_OBJECT)) {
+       return "Object";
+     }
+     return FTAG;
+   }

@@ -74,7 +89,7 @@ final class Arguments extends IdScriptableObject
    putIntoActivation(index, value);
  }
  synchronized (this) {
-   if (args == activation.originalArgs) {
+   if (activation != null && args == activation.originalArgs) {
      args = args.clone();
    }
    args[index] = value;
@@ -120,10 +135,6 @@ final class Arguments extends IdScriptableObject

    private boolean sharedWithActivation(int index)
    {
-     Context cx = Context.getContext();
-     if (cx.isStrictMode()) {
-       return false;
-     }
      NativeFunction f = activation.function;
      int definedCount = f.getParamCount();
      if (index < definedCount) {
@@ -153,12 +164,6 @@ final class Arguments extends IdScriptableObject
  }

  @Override
- public void put(String name, Scriptable start, Object value)
- {
-   super.put(name, start, value);
- }
-
- @Override
  public void delete(int index)
  {
    if (0 <= index && index < args.length) {
@@ -199,13 +204,6 @@ final class Arguments extends IdScriptableObject

```



```

        break L0;
    }
// #/generated#
-   Context cx = Context.getContext();
-   if (cx.isStrictMode()) {
-       if (id == Id_callee || id == Id_caller) {
-           return super.findInstanceIdInfo(s);
-       }
-   }
-
-
        if (id == 0) return super.findInstanceIdInfo(s);

@@ -380,50 +378,9 @@ final class Arguments extends IdScriptableObject
    }
}

- // ECMAScript2015
- // 9.4.4.6 CreateUnmappedArgumentsObject(argumentsList)
- // 8. Perform DefinePropertyOrThrow(obj, "caller", PropertyDescriptor {[[Get]]: %ThrowTypeError%,
- // [[Set]]: %ThrowTypeError%, [[Enumerable]]: false, [[Configurable]]: false}).
- // 9. Perform DefinePropertyOrThrow(obj, "callee", PropertyDescriptor {[[Get]]: %ThrowTypeError%,
- // [[Set]]: %ThrowTypeError%, [[Enumerable]]: false, [[Configurable]]: false}).
- void defineAttributesForStrictMode() {
-     Context cx = Context.getContext();
-     if (!cx.isStrictMode()) {
-         return;
-     }
-     setGetterOrSetter("caller", 0, new ThrowTypeError("caller"), true);
-     setGetterOrSetter("caller", 0, new ThrowTypeError("caller"), false);
-     setGetterOrSetter("callee", 0, new ThrowTypeError("callee"), true);
-     setGetterOrSetter("callee", 0, new ThrowTypeError("callee"), false);
-     setAttributes("caller", DONTENUM | PERMANENT);
-     setAttributes("callee", DONTENUM | PERMANENT);
-     callerObj = null;
-     calleeObj = null;
- }
-
- private static BaseFunction iteratorMethod = new BaseFunction() {
-     @Override
-     public Object call(Context cx, Scriptable scope, Scriptable thisObj,
-         Object[] args) {
-         // TODO : call %ArrayProto_values%
-         // 9.4.4.6 CreateUnmappedArgumentsObject(argumentsList)
-         // 1. Perform DefinePropertyOrThrow(obj, @@iterator, PropertyDescriptor
-         {[[Value]]:%ArrayProto_values%,
-         // [[Writable]]: true, [[Enumerable]]: false, [[Configurable]]: true}).
-         return new NativeArrayIterator(scope, thisObj);
-     }
- }

```

```

-     }
- };
-
- private static class ThrowTypeError extends BaseFunction {
-     private String propertyName;
-
-     ThrowTypeError(String propertyName) {
-         this.propertyName = propertyName;
-     }
-
-     @Override
-     public Object call(Context cx, Scriptable scope, Scriptable thisObj, Object[] args) {
-         throw ScriptRuntime.typeError1("msg.arguments.not.access.strict", propertyName);
-     }
+     @Override
+     public Object getDefaultValue(Class<?> typeHint) {
+         return "[object " + getClassName() + "]";
+     }
}

// Fields to hold caller, callee and length properties,
diff --git a/src/org/mozilla/javascript/ArrowFunction.java b/src/org/mozilla/javascript/ArrowFunction.java
deleted file mode 100644
index e7a968c..0000000
--- a/src/org/mozilla/javascript/ArrowFunction.java
+++ /dev/null
@@ -1,75 +0,0 @@
-/* -*- Mode: java; tab-width: 8; indent-tabs-mode: nil; c-basic-offset: 4 -*-
- *
- * This Source Code Form is subject to the terms of the Mozilla Public
- * License, v. 2.0. If a copy of the MPL was not distributed with this
- * file, You can obtain one at http://mozilla.org/MPL/2.0/. */
-
-@package org.mozilla.javascript;
-
-/**
- * The class for Arrow Function Definitions
- * EcmaScript 6 Rev 14, March 8, 2013 Draft spec , 13.2
- */
-public class ArrowFunction extends BaseFunction {
-
-    static final long serialVersionUID = -7377989503697220633L;
-
-    private final Callable targetFunction;
-    private final Scriptable boundThis;
-
-    public ArrowFunction(Context cx, Scriptable scope, Callable targetFunction, Scriptable boundThis)
-    {
-        this.targetFunction = targetFunction;

```

```

-   this.boundThis = boundThis;
-
-   ScriptRuntime.setFunctionProtoAndParent(this, scope);
-
-   Function thrower = ScriptRuntime.typeErrorThrower();
-   NativeObject throwing = new NativeObject();
-   throwing.put("get", throwing, thrower);
-   throwing.put("set", throwing, thrower);
-   throwing.put("enumerable", throwing, false);
-   throwing.put("configurable", throwing, false);
-   throwing.preventExtensions();
-
-   this.defineOwnProperty(cx, "caller", throwing, false);
-   this.defineOwnProperty(cx, "arguments", throwing, false);
- }
-
- @Override
- public Object call(Context cx, Scriptable scope, Scriptable thisObj, Object[] args)
- {
-     Scriptable callThis = boundThis != null ? boundThis : ScriptRuntime.getTopCallScope(cx);
-     return targetFunction.call(cx, scope, callThis, args);
- }
-
- @Override
- public Scriptable construct(Context cx, Scriptable scope, Object[] args) {
-     throw ScriptRuntime.typeError1("msg.not.ctor", decompile(0, 0));
- }
-
- @Override
- public boolean hasInstance(Scriptable instance) {
-     if (targetFunction instanceof Function) {
-         return ((Function) targetFunction).hasInstance(instance);
-     }
-     throw ScriptRuntime.typeError0("msg.not.ctor");
- }
-
- @Override
- public int getLength() {
-     if (targetFunction instanceof BaseFunction) {
-         return ((BaseFunction) targetFunction).getLength();
-     }
-     return 0;
- }
-
- @Override
- String decompile(int indent, int flags)
- {
-     if (targetFunction instanceof BaseFunction) {

```

```

-     return ((BaseFunction)targetFunction).decompile(indent, flags);
-   }
-   return super.decompile(indent, flags);
- }
-}
diff --git a/src/org/mozilla/javascript/BaseFunction.java b/src/org/mozilla/javascript/BaseFunction.java
index f08c7b6..221e79a 100644
--- a/src/org/mozilla/javascript/BaseFunction.java
+++ b/src/org/mozilla/javascript/BaseFunction.java
@@ -419,13 +419,11 @@ public class BaseFunction extends IdScriptableObject implements Function
    if (!justbody) {
        sb.append("function ");
        sb.append(getFunctionName());
-       sb.append "() {\n\t";
+       sb.append "() {\n  ";
    }
-   sb.append("[native code, arity=");
-   sb.append(getArity());
-   sb.append("]\n");
+   sb.append("[native code]\n");
    if (!justbody) {
-       sb.append("}\n");
+       sb.append("}");
    }
    return sb.toString();
}
diff --git a/src/org/mozilla/javascript/CodeGenerator.java b/src/org/mozilla/javascript/CodeGenerator.java
index 423bc38..55b0f3c 100644
--- a/src/org/mozilla/javascript/CodeGenerator.java
+++ b/src/org/mozilla/javascript/CodeGenerator.java
@@ -10,6 +10,7 @@ import org.mozilla.javascript.ast.AstRoot;
import org.mozilla.javascript.ast.ScriptNode;
import org.mozilla.javascript.ast.Jump;
import org.mozilla.javascript.ast.FunctionNode;
+import org.mozilla.javascript.ast.VariableInitializer;

/**
 * Generates bytecode for the Interpreter.
@@ -71,11 +72,10 @@ class CodeGenerator extends Icode {
    } else {
        scriptOrFn = tree;
    }
-
-   itsData = new InterpreterData(compilerEnv.getLanguageVersion(),
+       scriptOrFn.getSourceName(),
+       encodedSource,
-       scriptOrFn.isInStrictMode());
+       ((AstRoot)tree).isInStrictMode());

```

```

itsData.topLevel = true;

if (returnFunction) {
@@ -101,9 +101,7 @@ class CodeGenerator extends Icode {
    addIcode(Icode_GENERATOR);
    addUInt16(theFunction.getBaseLinen() & 0xFFFF);
}
- if (theFunction.isInStrictMode()) {
-     itsData.isStrict = true;
- }
+ itsData.declaredAsVar = (theFunction.getParent() instanceof VariableInitializer);

generateIcodeFromTree(theFunction.getLastChild());
}
@@ -479,7 +477,6 @@ class CodeGenerator extends Icode {
    case Token.ENUM_INIT_KEYS:
    case Token.ENUM_INIT_VALUES:
    case Token.ENUM_INIT_ARRAY:
-    case Token.ENUM_INIT_VALUES_IN_ORDER:
        visitExpression(child, 0);
        addIndexOp(type, getLocalBlockRef(node));
        stackChange(-1);
@@ -509,8 +506,7 @@ class CodeGenerator extends Icode {
    int fnIndex = node.getExistingIntProp(Node.FUNCTION_PROP);
    FunctionNode fn = scriptOrFn.getFunctionNode(fnIndex);
    // See comments in visitStatement for Token.FUNCTION case
-    if (fn.getFunctionType() != FunctionNode.FUNCTION_EXPRESSION &&
-        fn.getFunctionType() != FunctionNode.ARROW_FUNCTION) {
+    if (fn.getFunctionType() != FunctionNode.FUNCTION_EXPRESSION) {
        throw Kit.codeBug();
    }
    addIndexOp(Icode_CLOSURE_EXPR, fnIndex);
@@ -1092,9 +1088,6 @@ class CodeGenerator extends Icode {
warning: LF will be replaced by CRLF in src/org/mozilla/javascript/Arguments.java.
The file will have its original line endings in your working directory.
warning: LF will be replaced by CRLF in src/org/mozilla/javascript/BaseFunction.java.
The file will have its original line endings in your working directory.
warning: LF will be replaced by CRLF in src/org/mozilla/javascript/CodeGenerator.java.
The file will have its original line endings in your working directory.
warning: LF will be replaced by CRLF in src/org/mozilla/javascript/ConsString.java.
The file will have its original line endings in your working directory.
    } else if (childType == Token.SET) {
        visitExpression(child.getFirstChild(), 0);
        addIcode(Icode_LITERAL_SETTER);
-    } else if (childType == Token.METHOD) {
-        visitExpression(child.getFirstChild(), 0);
-        addIcode(Icode_LITERAL_SET);
    } else {

```

```

        visitExpression(child, 0);
        addIcode(Icode_LITERAL_SET);
diff --git a/src/org/mozilla/javascript/ConsString.java b/src/org/mozilla/javascript/ConsString.java
index 62cd9a8..11c10b7 100644
--- a/src/org/mozilla/javascript/ConsString.java
+++ b/src/org/mozilla/javascript/ConsString.java
@@ -7,7 +7,6 @@
package org.mozilla.javascript;

import java.io.Serializable;
-import java.util.ArrayList;

/**
 * <p>This class represents a string composed of two components, each of which
@@ -44,6 +43,10 @@ public class ConsString implements CharSequence, Serializable {
    if (str2 instanceof ConsString) {
        depth += ((ConsString)str2).depth;
    }
+   // Don't let it grow too deep, can cause stack overflows
+   if (depth > 2000) {
+       flatten();
+   }
}

// Replace with string representation when serializing
@@ -59,19 +62,7 @@ public class ConsString implements CharSequence, Serializable {
    private synchronized String flatten() {
        if (depth > 0) {
            StringBuilder b = new StringBuilder(length);
-           ArrayList<CharSequence> buffer = new ArrayList<CharSequence>();
-           buffer.add(s2);
-           buffer.add(s1);
-           while(!buffer.isEmpty()) {
-               CharSequence next = buffer.remove(buffer.size() - 1);
-               if (next instanceof ConsString) {
-                   ConsString casted = (ConsString) next;
-                   buffer.add(casted.s2);
-                   buffer.add(casted.s1);
-               } else {
-                   b.append(next);
-               }
-           }
+           appendTo(b);
            s1 = b.toString();
            s2 = "";
            depth = 0;
@@ -79,6 +70,19 @@ public class ConsString implements CharSequence, Serializable {
        return (String)s1;
    }
}

```

```

    }

+   private synchronized void appendTo(StringBuilder b) {
+       appendFragment(s1, b);
+       appendFragment(s2, b);
+   }
+
+   private static void appendFragment(CharSequence s, StringBuilder b) {
+       if (s instanceof ConsString) {
+           ((ConsString)s).appendTo(b);
+       } else {
+           b.append(s);
+       }
+   }
+
+   public int length() {
+       return length;
+   }
diff --git a/src/org/mozilla/javascript/Context.java b/src/org/mozilla/javascript/Context.java
index 85bdaa8..902b5d8 100644
--- a/src/org/mozilla/javascript/Context.java
+++ b/src/org/mozilla/javascript/Context.java
@@ -112,11 +112,6 @@ public class Context
    public static final int VERSION_1_8 = 180;

    /**
-   * ECMAScript 6.
-   */
-   public static final int VERSION_ES6 = 200;
-
-   /**
    * Controls behaviour of <tt>Date.prototype.getYear()</tt>.
    * If <tt>hasFeature(FEATURE_NON_ECMA_GET_YEAR)</tt> returns true,
    * Date.prototype.getYear subtracts 1900 only if 1900 <= date < 2000.
@@ -293,20 +288,121 @@ public class Context
    public static final int FEATURE_V8_EXTENSIONS = 14;

    /**
-   * Defines how an undefined "this" parameter is handled in certain calls. Previously Rhino
-   * would convert an undefined "this" to null, whereas recent specs call for it to be treated
-   * differently. Default is to be set if language version <= 1.7.
-   * @since 1.7.7
+   * Special to HtmlUnit's Rhino fork.
+   *
+   * The same web browser (e.g. FF) may allow setting read-only property,
+   * ignores setting the read-only property, or even throw an exception.
+   *
+   * So, by having this feature, ScriptableObject itself is asked throw
    */

```

```

+ * {@link ScriptableObject#isReadOnlySettable} whether to allow, ignore or throw an exception.
+ *
+ * By default {@link #hasFeature(int)} returns false.
+ */
- public static final int FEATURE_OLD_UNDEF_NULL_THIS = 15;
+ public static final int FEATURE_HTMLUNIT_ASK_OBJECT_TO_WRITE_READONLY = 100;

+ /**
- * If set, then the order of property key enumeration will be first numeric keys in numeric order,
- * followed by string keys in order of creation, and finally Symbol keys, as specified in ES6.
- * Default is true for language version >= "ES6" and false otherwise.
- * @since 1.7.8
+ * Special to HtmlUnit's Rhino fork.
+ * Indicates if a JavaScript catch statement can catch Java exceptions
+ * (exceptions occurring in host objects).
+ * By default {@link #hasFeature(int)} returns true.
+ */
- public static final int FEATURE_ENUMERATE_IDS_FIRST = 16;
+ public static final int FEATURE_HTMLUNIT_JS_CATCH_JAVA_EXCEPTION = 101;
+
+ /**
+ * Special to HtmlUnit's Rhino fork.
+ *
+ * Is the default value of {@link Arguments} "Object" or "Arguments"
+ *
+ * By default {@link #hasFeature(int)} returns false.
+ */
+ public static final int FEATURE_HTMLUNIT_ARGUMENTS_IS_OBJECT = 102;
+
+ /**
+ * Special to HtmlUnit's Rhino fork.
+ *
+ * When setting the function name to call, call thisObject.setter.
+ *
+ * This is needed for something like "function onclick() {onclick = null}"
+ *
+ * Implemented by transforming it into "function onclick() {<b>this.</b>onclick = null}"
+ *
+ * By default {@link #hasFeature(int)} returns false.
+ */
+ public static final int FEATURE_HTMLUNIT_FUNCTION_NULL_SETTER = 103;
+
+ /**
+ * Special to HtmlUnit's Rhino fork.
+ *
+ * Whether the "someFunc.arguments" is a read-only view of the function argument
+ * or the real arguments.
+ *

```



```

+ * By default { @link #hasFeature(int) } returns false.
+ */
+ public static final int FEATURE_HTMLUNIT_FN_ARGUMENTS_IS_RO_VIEW = 104;
+
+ /**
+ * Special to HtmlUnit's Rhino fork.
+ *
+ * Indicates that 'eval' function should have access to the local function scope.
+ *
+ * By default { @link #hasFeature(int) } returns true.
+ */
+ public static final int FEATURE_HTMLUNIT_EVAL_LOCAL_SCOPE = 105;
+
+ /**
+ * Special to HtmlUnit's Rhino fork.
+ *
+ * Indicates that 'exception' (technically NativeError) exposes "stack" property.
+ *
+ * By default { @link #hasFeature(int) } returns true.
+ */
+ public static final int FEATURE_HTMLUNIT_ERROR_STACK = 106;
+
+ /**
+ * Special to HtmlUnit's Rhino fork.
+ *
+ * Indicates that ".constructor" property is defined for all { @link ScriptableObject}s.
+ *
+ * By default { @link #hasFeature(int) } returns true.
+ */
+ public static final int FEATURE_HTMLUNIT_CONSTRUCTOR = 107;
+
+ /**
+ * Special to HtmlUnit's Rhino fork.
+ *
+ * Indicates that function can be defined as
+ * <code>function object.property() {}</code> instead of <code>object.property = function() {}</code>.
+ *
+ * By default { @link #hasFeature(int) } returns false.
+ */
+ public static final int FEATURE_HTMLUNIT_FUNCTION_OBJECT_METHOD = 108;
+
+ /**
+ * Special to HtmlUnit's Rhino fork.
+ *
+ * Indicates that function is defined even before its declaration, inside a block.
+ *
+ * By default { @link #hasFeature(int) } returns false.
+ */

```

```

+ public static final int FEATURE_HTMLUNIT_FUNCTION_DECLARED_FORWARD_IN_BLOCK = 109;
+
+ /**
+  * Special to HtmlUnit's Rhino fork.
+  *
+  * Indicates that parseInt() should have radix 10 by default.
+  *
+  * By default { @link #hasFeature(int)} returns true.
+  */
+ public static final int FEATURE_HTMLUNIT_PARSE_INT_RADIX_10 = 110;
+
+ /**
+  * Special to HtmlUnit's Rhino fork.
+  *
+  * Indicates that for(x in []) should enumerate the numbers first.
+  *
+  * By default { @link #hasFeature(int)} returns false.
+  */
+ public static final int FEATURE_HTMLUNIT_ENUM_NUMBERS_FIRST = 111;

public static final String languageVersionProperty = "language version";
public static final String errorReporterProperty = "error reporter";
@@ -672,7 +768,6 @@ public class Context
    case VERSION_1_6:
    case VERSION_1_7:
    case VERSION_1_8:
-    case VERSION_ES6:
        return true;
    }
    return false;
@@@ -1325,7 +1420,7 @@@ public class Context
    // Annotate so we can check later to ensure no java code in
    // intervening frames
    isContinuationsTopCall = true;
-    return ScriptRuntime.doTopCall(function, this, scope, scope, args, isTopLevelStrict);
+    return ScriptRuntime.doTopCall(function, this, scope, scope, args);
}

/**
@@@ -1482,7 +1577,7 @@@ public class Context
        securityDomain);
}

- final Script compileString(String source,
+ protected Script compileString(String source,
        Evaluator compiler,
        ErrorReporter compilationErrorReporter,
        String sourceName, int lineno,

```

```

@@ -1523,7 +1618,7 @@ public class Context
        securityDomain);
    }

-   final Function compileFunction(Scriptable scope, String source,
+   protected Function compileFunction(Scriptable scope, String source,
        Evaluator compiler,
        ErrorReporter compilationErrorReporter,
        String sourceName, int lineno,
@@ -2499,9 +2594,6 @@ public class Context
    if (returnFunction) {
        p.calledByCompileFunction = true;
    }
-   if (isStrictMode()) {
-       p.setDefaultUseStrictDirective(true);
-   }
    AstRoot ast;
    if (sourceString != null) {
        ast = p.parse(sourceString, sourceName, lineno);
@@ -2688,10 +2780,6 @@ public class Context
        activationNames.remove(name);
    }

-   public final boolean isStrictMode() {
-       return isTopLevelStrict || (currentActivationCall != null && currentActivationCall.isStrict);
-   }
-
    private static String implementationVersion;

    private final ContextFactory factory;
@@ -2761,6 +2849,4 @@ public class Context

    // Generate an observer count on compiled code
    public boolean generateObserverCount = false;
-
-   boolean isTopLevelStrict;
}
diff --git a/src/org/mozilla/javascript/ContextFactory.java b/src/org/mozilla/javascript/ContextFactory.java
index ba607a3..db87a62 100644
--- a/src/org/mozilla/javascript/ContextFactory.java
+++ b/src/org/mozilla/javascript/ContextFactory.java
@@ -283,11 +283,41 @@ public class ContextFactory
    case Context.FEATURE_V8_EXTENSIONS:
        return true;

-   case Context.FEATURE_OLD_UNDEF_NULL_THIS:
-       return cx.getLanguageVersion() <= Context.VERSION_1_7;
+   case Context.FEATURE_HTMLUNIT_JS_CATCH_JAVA_EXCEPTION:

```

```

+     return true;

- case Context.FEATURE_ENUMERATE_IDS_FIRST:
-     return cx.getLanguageVersion() >= Context.VERSION_ES6;
+ case Context.FEATURE_HTMLUNIT_ASK_OBJECT_TO_WRITE_READONLY:
+     return false;
+
+ case Context.FEATURE_HTMLUNIT_ARGUMENTS_IS_OBJECT:
+     return false;
+
+ case Context.FEATURE_HTMLUNIT_FUNCTION_NULL_SETTER:
+     return false;
+
+ case Context.FEATURE_HTMLUNIT_FN_ARGUMENTS_IS_RO_VIEW:
+     return false;
+
+ case Context.FEATURE_HTMLUNIT_EVAL_LOCAL_SCOPE:
+     return true;
+
+ case Context.FEATURE_HTMLUNIT_ERROR_STACK:
+     return true;
+
+ case Context.FEATURE_HTMLUNIT_CONSTRUCTOR:
+     return true;
+
+ case Context.FEATURE_HTMLUNIT_FUNCTION_OBJECT_METHOD:
+     return false;
+
+ case Context.FEATURE_HTMLUNIT_FUNCTION_DECLARED_FORWARD_IN_BLOCK:
+     return false;
+
+ case Context.FEATURE_HTMLUNIT_PARSE_INT_RADIX_10:
+     return true;
+
+ case Context.FEATURE_HTMLUNIT_ENUM_NUMBERS_FIRST:
+     return false;
warning: LF will be replaced by CRLF in src/org/mozilla/javascript/Context.java.
The file will have its original line endings in your working directory.
warning: LF will be replaced by CRLF in src/org/mozilla/javascript/ContextFactory.java.
The file will have its original line endings in your working directory.
warning: LF will be replaced by CRLF in src/org/mozilla/javascript/ContinuationPending.java.
The file will have its original line endings in your working directory.
warning: LF will be replaced by CRLF in src/org/mozilla/javascript/Decompiler.java.
The file will have its original line endings in your working directory.
    }
    // It is a bug to call the method with unknown featureIndex
    throw new IllegalArgumentException(String.valueOf(featureIndex));
@@ -591,4 +621,4 @@ public class ContextFactory

```

```

    {
        return Context.enter(cx, this);
    }
-}
\ No newline at end of file
+}
diff --git a/src/org/mozilla/javascript/ContinuationPending.java
b/src/org/mozilla/javascript/ContinuationPending.java
index 72d488d..d0da59d 100644
--- a/src/org/mozilla/javascript/ContinuationPending.java
+++ b/src/org/mozilla/javascript/ContinuationPending.java
@@ -26,10 +26,9 @@ public class ContinuationPending extends RuntimeException {
    * users of the API should get continuations created on their behalf by
    * calling { @link org.mozilla.javascript.Context#executeScriptWithContinuations(Script, Scriptable)}
    * and { @link org.mozilla.javascript.Context#callFunctionWithContinuations(Callable, Scriptable, Object[])}
-    * Creating subclasses allowed.
    * @param continuationState Internal Continuation object
    */
-    protected ContinuationPending(NativeContinuation continuationState) {
+    ContinuationPending(NativeContinuation continuationState) {
        this.continuationState = continuationState;
    }

@@ -44,14 +43,6 @@ public class ContinuationPending extends RuntimeException {
    }

    /**
-    * Set continuation object. Allows subclasses to modify the internal state.
-    * @param continuation object
-    */
-    public void setContinuation(NativeContinuation continuation) {
-        this.continuationState = continuation;
-    }
-
-    /**
    * @return internal continuation state
    */
    NativeContinuation getContinuationState() {
diff --git a/src/org/mozilla/javascript/Decompiler.java b/src/org/mozilla/javascript/Decompiler.java
index 28fd044..8cd849b 100644
--- a/src/org/mozilla/javascript/Decompiler.java
+++ b/src/org/mozilla/javascript/Decompiler.java
@@ -86,10 +86,8 @@ public class Decompiler
    int markFunctionStart(int functionType)
    {
        int savedOffset = getCurrentOffset();
-        if (functionType != FunctionNode.ARROW_FUNCTION) {
-            addToken(Token.FUNCTION);

```

```

-     append((char)functionType);
- }
+     addToken(Token.FUNCTION);
+     append((char)functionType);
return savedOffset;
}

@@ -311,8 +309,6 @@ public class Decompiler
}

if (!toSource) {
-     // add an initial newline to exactly match js.
-     result.append('\n');
for (int j = 0; j < indent; j++)
    result.append(' ');
} else {
@@ -325,12 +321,7 @@ public class Decompiler
switch(source.charAt(i)) {
case Token.GET:
case Token.SET:
- case Token.METHOD:
-     if (source.charAt(i) == Token.GET) {
-         result.append("get ");
-     } else if (source.charAt(i) == Token.SET) {
-         result.append("set ");
-     }
+     result.append(source.charAt(i) == Token.GET ? "get " : "set ");
++i;
i = printSourceString(source, i + 1, false, result);
// Now increment one more to get past the FUNCTION token
@@ -794,10 +785,6 @@ public class Decompiler
result.append("debugger;\n");
break;

- case Token.ARROW:
-     result.append(" => ");
-     break;
-
default:
    // If we don't know how to decompile it, raise an exception.
    throw new RuntimeException("Token: " +
@@ -806,11 +793,7 @@ public class Decompiler
++i;
}

- if (!toSource) {
-     // add that trailing newline if it's an outermost function.
-     if (!justFunctionBody)

```

```

-         result.append('\n');
-     } else {
+     if (toSource) {
+         if (topFunctionType == FunctionNode.FUNCTION_EXPRESSION) {
+             result.append('');
+         }
diff --git a/src/org/mozilla/javascript/Delegator.java b/src/org/mozilla/javascript/Delegator.java
index 8e8bac4..e273d0f 100644
--- a/src/org/mozilla/javascript/Delegator.java
+++ b/src/org/mozilla/javascript/Delegator.java
@@ -85,85 +85,85 @@ public class Delegator implements Function {
     * @see org.mozilla.javascript.Scriptable#getClassName
    */
    public String getClassName() {
-        return obj.getClassName();
+        return getDelegee().getClassName();
    }
    /**
     * @see org.mozilla.javascript.Scriptable#get(String, Scriptable)
    */
    public Object get(String name, Scriptable start) {
-        return obj.get(name,start);
+        return getDelegee().get(name,start);
    }
    /**
     * @see org.mozilla.javascript.Scriptable#get(int, Scriptable)
    */
    public Object get(int index, Scriptable start) {
-        return obj.get(index,start);
+        return getDelegee().get(index,start);
    }
    /**
     * @see org.mozilla.javascript.Scriptable#has(String, Scriptable)
    */
    public boolean has(String name, Scriptable start) {
-        return obj.has(name,start);
+        return getDelegee().has(name,start);
    }
    /**
     * @see org.mozilla.javascript.Scriptable#has(int, Scriptable)
    */
    public boolean has(int index, Scriptable start) {
-        return obj.has(index,start);
+        return getDelegee().has(index,start);
    }
    /**
     * @see org.mozilla.javascript.Scriptable#put(String, Scriptable, Object)
    */

```

```

public void put(String name, Scriptable start, Object value) {
-   obj.put(name,start,value);
+   getDelegee().put(name,start,value);
}
/**
 * @see org.mozilla.javascript.Scriptable#put(int, Scriptable, Object)
 */
public void put(int index, Scriptable start, Object value) {
-   obj.put(index,start,value);
+   getDelegee().put(index,start,value);
}
/**
 * @see org.mozilla.javascript.Scriptable#delete(String)
 */
public void delete(String name) {
-   obj.delete(name);
+   getDelegee().delete(name);
}
/**
 * @see org.mozilla.javascript.Scriptable#delete(int)
 */
public void delete(int index) {
-   obj.delete(index);
+   getDelegee().delete(index);
}
/**
 * @see org.mozilla.javascript.Scriptable#getPrototype
 */
public Scriptable getPrototype() {
-   return obj.getPrototype();
+   return getDelegee().getPrototype();
}
/**
 * @see org.mozilla.javascript.Scriptable#setPrototype
 */
public void setPrototype(Scriptable prototype) {
-   obj.setPrototype(prototype);
+   getDelegee().setPrototype(prototype);
}
/**
 * @see org.mozilla.javascript.Scriptable#getParentScope
 */
public Scriptable getParentScope() {
-   return obj.getParentScope();
+   return getDelegee().getParentScope();
}
/**
 * @see org.mozilla.javascript.Scriptable#setParentScope

```



```

*/
public void setParentScope(Scriptable parent) {
-   obj.setParentScope(parent);
+   getDelegee().setParentScope(parent);
}
/**
 * @see org.mozilla.javascript.Scriptable#getIds
 */
public Object[] getIds() {
-   return obj.getIds();
+   return getDelegee().getIds();
}
/**
 * Note that this method does not get forwarded to the delegee if
@@ -181,13 +181,13 @@ public class Delegator implements Function {
    return (hint == null ||
           hint == ScriptRuntime.ScriptableClass ||
           hint == ScriptRuntime.FunctionClass) ?
-   this : obj.getDefaultValue(hint);
+   this : getDelegee().getDefaultValue(hint);
}
/**
 * @see org.mozilla.javascript.Scriptable#hasInstance
 */
public boolean hasInstance(Scriptable instance) {
-   return obj.hasInstance(instance);
+   return getDelegee().hasInstance(instance);
}
/**
 * @see org.mozilla.javascript.Function#call
@@ -195,7 +195,7 @@ public class Delegator implements Function {
    public Object call(Context cx, Scriptable scope, Scriptable thisObj,
                      Object[] args)
    {
-   return ((Function)obj).call(cx,scope,thisObj,args);
+   return ((Function)getDelegee()).call(cx,scope,thisObj,args);
    }
}
/**
@@ -215,7 +215,7 @@ public class Delegator implements Function {
*/
public Scriptable construct(Context cx, Scriptable scope, Object[] args)
{
-   if (obj == null) {
+   if (getDelegee() == null) {
        //this little trick allows us to declare prototype objects for
        //Delegators
        Delegator n = newInstance();

```

```

@@ -229,7 +229,7 @@ public class Delegator implements Function {
    return n;
}
else {
-   return ((Function)obj).construct(cx,scope,args);
+   return ((Function)getDelegee()).construct(cx,scope,args);
}
}
}
diff --git a/src/org/mozilla/javascript/ES6Iterator.java b/src/org/mozilla/javascript/ES6Iterator.java
deleted file mode 100644
index 1a7958a..0000000
--- a/src/org/mozilla/javascript/ES6Iterator.java
+++ /dev/null
@@ -1,135 +0,0 @@
-/* -*- Mode: java; tab-width: 8; indent-tabs-mode: nil; c-basic-offset: 4 -*-
- *
- * This Source Code Form is subject to the terms of the Mozilla Public
- * License, v. 2.0. If a copy of the MPL was not distributed with this
- * file, You can obtain one at http://mozilla.org/MPL/2.0/. */
-
-package org.mozilla.javascript;
-
-import static org.mozilla.javascript.NativeSymbol.ITERATOR_PROPERTY;
-import static org.mozilla.javascript.NativeSymbol.TO_STRING_TAG_PROPERTY;
-
-public abstract class ES6Iterator extends IdScriptableObject {
-
-    static void init(ScriptableObject scope, boolean sealed, IdScriptableObject prototype, String tag) {
-        if (scope != null) {
-            prototype.setParentScope(scope);
-            prototype.setPrototype(getObjectPrototype(scope));
-        }
-        prototype.activatePrototypeMap(MAX_PROTOTYPE_ID);
-        if (sealed) {
-            prototype.sealObject();
-        }
-
-        // Need to access Iterator prototype when constructing
-        // Iterator instances, but don't have a iterator constructor
-        // to use to find the prototype. Use the "associateValue"
-        // approach instead.
-        if (scope != null) {
-            scope.associateValue(tag, prototype);
-        }
-    }
-
-    protected boolean exhausted = false;

```

```

-
- ES6Iterator() {}
-
- ES6Iterator(Scriptable scope) {
-     // Set parent and prototype properties. Since we don't have a
-     // "Iterator" constructor in the top scope, we stash the
-     // prototype in the top scope's associated value.
-     Scriptable top = ScriptableObject.getTopLevelScope(scope);
-     this.setParentScope(top);
-     IdScriptableObject prototype = (IdScriptableObject)
-         ScriptableObject.getTopScopeValue(top, getTag());
-     setPrototype(prototype);
- }
-
- @Override
- protected void initPrototypeId(int id)
- {
-     switch (id) {
-         case Id_next:
-             initPrototypeMethod(getTag(), id, NEXT_METHOD, 0);
-             return;
-         case Id_iterator:
-             initPrototypeMethod(getTag(), id, ITERATOR_PROPERTY, "[Symbol.iterator]", 0);
-             return;
-         case Id_toStringTag:
-             initPrototypeValue(Id_toStringTag, TO_STRING_TAG_PROPERTY, getClassName(), DONTENUM |
READONLY);
-             return;
-         default: throw new IllegalArgumentException(String.valueOf(id));
-     }
- }
-
- @Override
- public Object execIdCall(IdFunctionObject f, Context cx, Scriptable scope,
-         Scriptable thisObj, Object[] args)
- {
-     if (!f.hasTag(getTag())) {
-         return super.execIdCall(f, cx, scope, thisObj, args);
-     }
-     int id = f.methodId();
-
-     if (!(thisObj instanceof ES6Iterator))
-         throw incompatibleCallError(f);
-
-     ES6Iterator iterator = (ES6Iterator) thisObj;
-
-     switch (id) {
-         case Id_next:

```

warning: LF will be replaced by CRLF in src/org/mozilla/javascript/Delegator.java.

The file will have its original line endings in your working directory.

warning: LF will be replaced by CRLF in src/org/mozilla/javascript/FunctionObject.java.

The file will have its original line endings in your working directory.

```
-     return iterator.next(cx, scope);
-     case Id_iterator:
-         return iterator;
-     default:
-         throw new IllegalArgumentException(String.valueOf(id));
-     }
- }
-
- @Override
- protected int findPrototypeId(String s) {
-     if (s.charAt(0) == 'n') {
-         return Id_next;
-     } else if (ITERATOR_PROPERTY.equals(s)) {
-         return Id_iterator;
-     } else if (TO_STRING_TAG_PROPERTY.equals(s)) {
-         return Id_toStringTag;
-     }
-     return 0;
- }
-
- abstract protected boolean isDone(Context cx, Scriptable scope);
-
- abstract protected Object nextValue(Context cx, Scriptable scope);
-
- protected Object next(Context cx, Scriptable scope) {
-     Object value = Undefined.instance;
-     boolean done = isDone(cx, scope) || this.exhausted;
-     if (!done) {
-         value = nextValue(cx, scope);
-     } else {
-         this.exhausted = true;
-     }
-     return makeIteratorResult(cx, scope, done, value);
- }
-
- abstract protected String getTag();
-
- // 25.1.1.3 The IteratorResult Interface
- private Scriptable makeIteratorResult(Context cx, Scriptable scope, boolean done, Object value) {
-     Scriptable iteratorResult = cx.newObject(scope);
-     ScriptableObject.putProperty(iteratorResult, VALUE_PROPERTY, value);
-     ScriptableObject.putProperty(iteratorResult, DONE_PROPERTY, done);
-     return iteratorResult;
- }
```

```

-
- private static final int
-   Id_next      = 1,
-   Id_iterator  = 2,
-   Id_toStringTag = 3,
-   MAX_PROTOTYPE_ID = Id_toStringTag;
-
- public static final String NEXT_METHOD = "next";
- public static final String DONE_PROPERTY = "done";
- public static final String VALUE_PROPERTY = "value";
-}
diff --git a/src/org/mozilla/javascript/FunctionObject.java b/src/org/mozilla/javascript/FunctionObject.java
index 1d396a6..4df9cc3 100644
--- a/src/org/mozilla/javascript/FunctionObject.java
+++ b/src/org/mozilla/javascript/FunctionObject.java
@@ -398,6 +398,9 @@ public class FunctionObject extends BaseFunction
    } else {
        if (!isStatic) {
            Class<?> clazz = member.getDeclaringClass();
+           if (thisObj instanceof Delegator) {
+               thisObj = ((Delegator) thisObj).getDelegee();
+           }
            if (!clazz.isInstance(thisObj)) {
                boolean compatible = false;
                if (thisObj == scope) {
diff --git a/src/org/mozilla/javascript/IRFactory.java b/src/org/mozilla/javascript/IRFactory.java
index 684a549..ad24816 100644
--- a/src/org/mozilla/javascript/IRFactory.java
+++ b/src/org/mozilla/javascript/IRFactory.java
@@ -270,11 +270,7 @@ public final class IRFactory extends Parser
    defineSymbol(Token.LET, name, false);
    iterators[i] = init;

-    if (acl.isForOf()) {
-        decompiler.addName("of ");
-    } else {
-        decompiler.addToken(Token.IN);
-    }
+    decompiler.addToken(Token.IN);
    iteratedObjs[i] = transform(acl.getIteratedObject());
    decompiler.addToken(Token.RP);
}
@@ -309,8 +305,7 @@ public final class IRFactory extends Parser
    iterators[i],
    iteratedObjs[i],
    body,
-    acl.isForEach(),
-    acl.isForOf());

```

```

+         acl.isForEach());
+     }
+ } finally {
+     for (int i = 0; i < pushed; i++) {
@@ -361,6 +356,7 @@ public final class IRFactory extends Parser

private Node transformAssignment(Assignment node) {
    AstNode left = removeParens(node.getLeft());
+   left = transformAssignmentLeft(node, left);
    Node target = null;
    if (isDestructuring(left)) {
        decompile(left);
@@ -374,6 +370,32 @@ public final class IRFactory extends Parser
        transform(node.getRight());
    }

+ private AstNode transformAssignmentLeft(Assignment node, AstNode left) {
+     AstNode right = node.getRight();
+
+     if (right.getType() == Token.NULL && node.getType() == Token.ASSIGN
+         && left instanceof Name && right instanceof KeywordLiteral
+         &&
Context.getCurrentContext().hasFeature(Context.FEATURE_HTMLUNIT_FUNCTION_NULL_SETTER)) {
+
+     final String identifier = ((Name) left).getIdentifier();
+     for (AstNode p = node.getParent(); p != null; p = p.getParent()) {
+         if (p instanceof FunctionNode) {
+             final Name functionName = ((FunctionNode) p).getFunctionName();
+             if (functionName != null && functionName.getIdentifier().equals(identifier)) {
+                 final PropertyGet propertyGet = new PropertyGet();
+                 final KeywordLiteral thisKeyword = new KeywordLiteral();
+                 thisKeyword.setType(Token.THIS);
+                 propertyGet.setLeft(thisKeyword);
+                 propertyGet.setRight(left);
+                 node.setLeft(propertyGet);
+                 return propertyGet;
+             }
+         }
+     }
+     return left;
+ }

+ private Node transformBlock(AstNode node) {
+     if (node instanceof Scope) {
+         pushScope((Scope)node);
@@ -443,6 +465,16 @@ public final class IRFactory extends Parser
    }
}

```

```

private Node transformElementGet(ElementGet node) {
+   //Ensure "function['eval']" is transformed into "function.eval"
+   if (node.getElement().type == Token.STRING
+       && "eval".equals(((StringLiteral) node.getElement()).getValue())) {
+       final PropertyGet propertyGet = new PropertyGet();
+       propertyGet.setLeft(node.getTarget());
+       final Name name = new Name();
+       name.setIdentifier("eval");
+       propertyGet.setRight(name);
+       return transform(propertyGet);
+   }
    // OPT: could optimize to createPropertyGet
    // iff elem is string that can not be number
    Node target = transform(node.getTarget());
@@ -473,18 +505,14 @@ public final class IRFactory extends Parser
    declType = ((VariableDeclaration)iter).getType();
    }
    Node lhs = transform(iter);
-   if (loop.isForOf()) {
-       decompiler.addName("of ");
-   } else {
-       decompiler.addToken(Token.IN);
-   }
+   decompiler.addToken(Token.IN);
    Node obj = transform(loop.getIteratedObject());
    decompiler.addToken(Token.RP);
    decompiler.addEOL(Token.LC);
    Node body = transform(loop.getBody());
    decompiler.addEOL(Token.RC);
    return createForIn(declType, loop, lhs, obj, body,
-       loop.isForEach(), loop.isForOf());
+       loop.isForEach());
    } finally {
        popScope();
    }
@@ -680,11 +708,7 @@ public final class IRFactory extends Parser
    defineSymbol(Token.LET, name, false);
    iterators[i] = init;

-   if (acl.isForOf()) {
-       decompiler.addName("of ");
-   } else {
-       decompiler.addToken(Token.IN);
-   }
+   decompiler.addToken(Token.IN);
    iteratedObjs[i] = transform(acl.getIteratedObject());
    decompiler.addToken(Token.RP);

```

```

    }
@@ -716,8 +740,7 @@ public final class IRFactory extends Parser
        iterators[i],
        iteratedObjs[i],
        body,
-        acl.isForEach(),
-        acl.isForOf());
+        acl.isForEach());
    }
} finally {
    for (int i = 0; i < pushed; i++) {
@@ -868,29 +891,25 @@ public final class IRFactory extends Parser
    int size = elems.size(), i = 0;
    properties = new Object[size];
    for (ObjectProperty prop : elems) {
-        if (prop.isGetterMethod()) {
+        if (prop.isGetter()) {
            decompiler.addToken(Token.GET);
-        } else if (prop.isSetterMethod()) {
+        } else if (prop.isSetter()) {
            decompiler.addToken(Token.SET);
-        } else if (prop.isNormalMethod()) {
-            decompiler.addToken(Token.METHOD);
        }

        properties[i++] = getPropKey(prop.getLeft());

        // OBJECTLIT is used as ':' in object literal for
        // decompilation to solve spacing ambiguity.
-        if (!(prop.isMethod())) {
+        if (!(prop.isGetter() || prop.isSetter())) {
            decompiler.addToken(Token.OBJECTLIT);
        }

        Node right = transform(prop.getRight());
-        if (prop.isGetterMethod()) {
+        if (prop.isGetter()) {
            right = createUnary(Token.GET, right);
-        } else if (prop.isSetterMethod()) {
+        } else if (prop.isSetter()) {
            right = createUnary(Token.SET, right);
-        } else if (prop.isNormalMethod()) {
-            right = createUnary(Token.METHOD, right);
        }
        object.addChildToBack(right);

@@ -957,11 +976,8 @@ public final class IRFactory extends Parser

```



```

private Node transformReturn(ReturnStatement node) {
    boolean expClosure = Boolean.TRUE.equals(node.getProp(Node.EXPRESSION_CLOSURE_PROP));
-   boolean isArrow = Boolean.TRUE.equals(node.getProp(Node.ARROW_FUNCTION_PROP));
    if (expClosure) {
-       if (!isArrow) {
-           decompiler.addName(" ");
-       }
+       decompiler.addName(" ");
    } else {
        decompiler.addToken(Token.RETURN);
    }
}

@@ -1527,7 +1543,7 @@ public final class IRFactory extends Parser
    * Generate IR for a for..in loop.
    */
    private Node createForIn(int declType, Node loop, Node lhs,
-        Node obj, Node body, boolean isForEach, boolean isForOf)
+        Node obj, Node body, boolean isForEach)
    {
        int destructuring = -1;
        int destructuringLen = 0;
@@ -1565,7 +1581,6 @@ public final class IRFactory extends Parser

        Node localBlock = new Node(Token.LOCAL_BLOCK);
        int initType = isForEach ? Token.ENUM_INIT_VALUES
-        : isForOf ? Token.ENUM_INIT_VALUES_IN_ORDER
          : (destructuring != -1
            ? Token.ENUM_INIT_ARRAY
            : Token.ENUM_INIT_KEYS);
@@ -1580,9 +1595,8 @@ public final class IRFactory extends Parser
        Node assign;
        if (destructuring != -1) {
            assign = createDestructuringAssignment(declType, lvalue, id);
-            if (!isForEach && !isForOf &&
-                (destructuring == Token.OBJECTLIT ||
-                 destructuringLen != 2))
+            if (!isForEach && (destructuring == Token.OBJECTLIT ||
+                destructuringLen != 2))
            {
                // destructuring assignment is only allowed in for..each or
                // with an array type of length 2 (to hold key and value)
@@ -2291,11 +2305,7 @@ public final class IRFactory extends Parser
        } else if (fn.getMemberExprNode() != null) {
            mexpr = transform(fn.getMemberExprNode());
        }
-        boolean isArrow = fn.getFunctionType() == FunctionNode.ARROW_FUNCTION;
-        boolean noParen = isArrow && fn.getLp() == -1;
-        if (!noParen) {
-            decompiler.addToken(Token.LP);

```

```

-   }
+   decompiler.addToken(Token.LP);
    List<AstNode> params = fn.getParams();
    for (int i = 0; i < params.size(); i++) {
        decompile(params.get(i));
@@ -2303,12 +2313,7 @@ public final class IRFactory extends Parser
        decompiler.addToken(Token.COMMA);
    }
}
-   if (!noParen) {
-       decompiler.addToken(Token.RP);
-   }
-   if (isArrow) {
-       decompiler.addToken(Token.ARROW);
-   }
+   decompiler.addToken(Token.RP);
    if (!fn.isExpressionClosure()) {
        decompiler.addEOL(Token.LC);
    }
diff --git a/src/org/mozilla/javascript/IdFunctionObject.java b/src/org/mozilla/javascript/IdFunctionObject.java
index 57f7ef2..de228e1 100644
--- a/src/org/mozilla/javascript/IdFunctionObject.java
+++ b/src/org/mozilla/javascript/IdFunctionObject.java
@@ -115,29 +115,6 @@ public class IdFunctionObject extends BaseFunction
    }

    @Override
-   String decompile(int indent, int flags)
-   {
-       StringBuilder sb = new StringBuilder();
-       boolean justbody = (0 != (flags & Decompiler.OBJECT_BODY_FLAG));
-       if (!justbody) {
-           sb.append("function ");
-           sb.append(getFunctionName());
-           sb.append("() { ");
-       }
-       sb.append("[native code for ");
-       if (idcall instanceof Scriptable) {
-           Scriptable sobj = (Scriptable)idcall;
-           sb.append(sobj.getClassName());
-           sb.append('.');
-       }
-       sb.append(getFunctionName());
-       sb.append(", arity=");
-       sb.append(getArity());
-       sb.append(justbody ? "]\n" : " ]\n");
-       return sb.toString();
-   }

```

```

-
- @Override
  public int getArity()
  {
    return arity;
diff --git a/src/org/mozilla/javascript/IdFunctionObjectES6.java
b/src/org/mozilla/javascript/IdFunctionObjectES6.java
deleted file mode 100644
index 61cde3d..0000000
--- a/src/org/mozilla/javascript/IdFunctionObjectES6.java
+++ /dev/null
@@ -1,44 +0,0 @@
-package org.mozilla.javascript;
-
-public class IdFunctionObjectES6 extends IdFunctionObject{
-
-  public IdFunctionObjectES6(IdFunctionCall idcall, Object tag, int id, String name, int arity, Scriptable scope) {
-    super(idcall, tag, id, name, arity, scope);
-  }
-
-  private static final int
-    Id_length    = 1,
-    Id_name      = 3;
-
-  private boolean myLength = true;
-  private boolean myName = true;
-
-  @Override
-  protected int findInstanceIdInfo(String s) {
-    if (s.equals("length")) return instanceIdInfo(READONLY | DONTENUM, Id_length);
-    else if (s.equals("name")) return instanceIdInfo(READONLY | DONTENUM, Id_name);
-    return super.findInstanceIdInfo(s);
-  }
-
-  @Override
-  protected Object getInstanceIdValue(int id) {
-    if (id == Id_length && !myLength) {
-      return NOT_FOUND;
-    } else if (id == Id_name && !myName) {
-      return NOT_FOUND;
-    }
-    return super.getInstanceIdValue(id);
-  }
-
-  @Override
-  protected void setInstanceIdValue(int id, Object value) {
-    if (id == Id_length && value == NOT_FOUND) {
-      this.myLength = false;

```

```

-     return;
-   } else if (id == Id_name && value == NOT_FOUND) {
-     this.myName = false;
-     return;
-   }
-   super.setInstanceIdValue(id, value);
- }
-}
diff --git a/src/org/mozilla/javascript/IdScriptableObject.java b/src/org/mozilla/javascript/IdScriptableObject.java
index 1900795..76c7e91 100644
--- a/src/org/mozilla/javascript/IdScriptableObject.java
+++ b/src/org/mozilla/javascript/IdScriptableObject.java
@@ -188,15 +188,7 @@ public abstract class IdScriptableObject extends ScriptableObject
    {
        ensureId(id);
        int attr = attributeArray[id - 1];
-       // non-configurable
-       if ((attr & PERMANENT) != 0) {
-         Context cx = Context.getContext();
-         if (cx.isStrictMode()) {
-           int nameSlot = (id - 1) * SLOT_SPAN + NAME_SLOT;
-           String name = (String)valueArray[nameSlot];
-           throw ScriptRuntime.typeError1("msg.delete.property.with.configurable.false", name);
-         }
-       } else {
+       if ((attr & PERMANENT) == 0) {
          int valueSlot = (id - 1) * SLOT_SPAN;
          synchronized (this) {
            valueArray[valueSlot] = NOT_FOUND;
@@ -402,13 +402,7 @@ public abstract class IdScriptableObject extends ScriptableObject
    // Let the super class to throw exceptions for sealed objects
    if (!isSealed()) {
      int attr = (info >>> 16);
-     // non-configurable
-     if ((attr & PERMANENT) != 0) {
-       Context cx = Context.getContext();
-       if (cx.isStrictMode()) {
-         throw ScriptRuntime.typeError1("msg.delete.property.with.configurable.false", name);
-       }
-     } else {
+     if ((attr & PERMANENT) == 0) {
        int id = (info & 0xFFFF);
        setInstanceIdValue(id, NOT_FOUND);
      }
@@ -625,12 +625,12 @@ public abstract class IdScriptableObject extends ScriptableObject
    }
  }
}

```

```

- public final IdFunctionObject initPrototypeMethod(Object tag, int id, String name,
-           int arity)
- {
- return initPrototypeMethod(tag, id, name, name, arity);
- }
-
- public final IdFunctionObject initPrototypeMethod(Object tag, int id, String propertyName, String
functionName,
+ public final void initPrototypeMethod(Object tag, int id, String name,
+           int arity)
+ {
+   Scriptable scope = ScriptableObject.getTopLevelScope(this);
-   IdFunctionObject function = newIdFunction(tag, id,
-     functionName != null ? functionName : propertyName,
-     arity, scope);
-   prototypeValues.initValue(id, propertyName, function, DONTENUM);
-   return function;
+   IdFunctionObject f = newIdFunction(tag, id, name, arity, scope);
+   prototypeValues.initValue(id, name, f, DONTENUM);
+ }

public final void initPrototypeConstructor(IdFunctionObject f)
@@ -711,15 +688,10 @@ public abstract class IdScriptableObject extends ScriptableObject
private IdFunctionObject newIdFunction(Object tag, int id, String name,
+           int arity, Scriptable scope)
+ {
-   IdFunctionObject function = null;
-   if (Context.getContext().getLanguageVersion() < Context.VERSION_ES6) {
-     function = new IdFunctionObject(this, tag, id, name, arity, scope);
-   } else {
-     function = new IdFunctionObjectES6(this, tag, id, name, arity, scope);
-   }
-
-   if (isSealed()) { function.sealObject(); }
-   return function;
+   IdFunctionObject f = new IdFunctionObject(this, tag, id, name, arity,
+     scope);
+   if (isSealed()) { f.sealObject(); }
+   return f;
+ }

@Override
diff --git a/src/org/mozilla/javascript/InterpretedFunction.java b/src/org/mozilla/javascript/InterpretedFunction.java
index 37b2e4d..1b161ab 100644
--- a/src/org/mozilla/javascript/InterpretedFunction.java
+++ b/src/org/mozilla/javascript/InterpretedFunction.java
@@ -16,6 +16,8 @@ final class InterpretedFunction extends NativeFunction implements Script
SecurityController securityController;

```

```

Object securityDomain;

+ private Arguments arguments;
+
  private InterpretedFunction(InterpreterData idata,
                              Object staticSecurityDomain)
  {
@@ -75,7 +77,7 @@ final class InterpretedFunction extends NativeFunction implements Script
  * Create function embedded in script or another function.
  */
  static InterpretedFunction createFunction(Context cx, Scriptable scope,
-                                     InterpretedFunction parent,
+                                     InterpretedFunction parent,
                                     int index)
  {
warning: LF will be replaced by CRLF in src/org/mozilla/javascript/IRFactory.java.
The file will have its original line endings in your working directory.
warning: LF will be replaced by CRLF in src/org/mozilla/javascript/IdFunctionObject.java.
The file will have its original line endings in your working directory.
warning: LF will be replaced by CRLF in src/org/mozilla/javascript/IdScriptableObject.java.
The file will have its original line endings in your working directory.
warning: LF will be replaced by CRLF in src/org/mozilla/javascript/InterpretedFunction.java.
The file will have its original line endings in your working directory.
warning: LF will be replaced by CRLF in src/org/mozilla/javascript/Interpreter.java.
The file will have its original line endings in your working directory.
warning: LF will be replaced by CRLF in src/org/mozilla/javascript/InterpreterData.java.
The file will have its original line endings in your working directory.
    InterpretedFunction f = new InterpretedFunction(parent, index);
@@ -104,7 +106,7 @@ final class InterpretedFunction extends NativeFunction implements Script
    Object[] args)
  {
    if (!ScriptRuntime.hasTopCall(cx)) {
-    return ScriptRuntime.doTopCall(this, cx, scope, thisObj, args, idata.isStrict);
+    return ScriptRuntime.doTopCall(this, cx, scope, thisObj, args);
    }
    return Interpreter.interpret(this, cx, scope, thisObj, args);
  }
@@ -118,7 +120,7 @@ final class InterpretedFunction extends NativeFunction implements Script
  if (!ScriptRuntime.hasTopCall(cx)) {
    // It will go through "call" path. but they are equivalent
    return ScriptRuntime.doTopCall(
-    this, cx, scope, scope, ScriptRuntime.emptyArgs, idata.isStrict);
+    this, cx, scope, scope, ScriptRuntime.emptyArgs);
  }
  return Interpreter.interpret(
    this, cx, scope, scope, ScriptRuntime.emptyArgs);
@@ -176,5 +178,57 @@ final class InterpretedFunction extends NativeFunction implements Script
  {

```

```

        return idata.argIsConst[index];
    }
+
+ /**
+  * Provides the decompiled source of the function what is helpful
+  * while debugging.
+  */
+ @Override
+ public String toString() {
+     return decompile(2, 0);
+ }
+
+ void setArguments(final Arguments arguments) {
+     if (arguments == null) {
+         this.arguments = null;
+     }
+     return;
+ }
+
+ final Context currentContext = Context.getCurrentContext();
+ if (currentContext.hasFeature(Context.FEATURE_HTMLUNIT_FN_ARGUMENTS_IS_RO_VIEW)) {
+     this.arguments = new Arguments(arguments) {
+         @Override
+         public void put(int index, Scriptable start, Object value) {
+             // ignore
+         }
+
+         @Override
+         public void put(String name, Scriptable start, Object value) {
+             // ignore
+         }
+
+         @Override
+         public void delete(int index) {
+             // ignore
+         }
+
+         @Override
+         public void delete(String name) {
+             // ignore
+         }
+     };
+ }
+ else {
+     this.arguments = arguments;
+ }
+
+ @Override

```

```

+ public Object get(final String name, final Scriptable start) {
+   if (start == this && "arguments".equals(name)) {
+     return this.arguments;
+   }
+   return super.get(name, start);
+ }
}

```

```

diff --git a/src/org/mozilla/javascript/Interpreter.java b/src/org/mozilla/javascript/Interpreter.java
index c591b1c..d58fab2 100644

```

```

--- a/src/org/mozilla/javascript/Interpreter.java

```

```

+++ b/src/org/mozilla/javascript/Interpreter.java

```

```

@@ -853,7 +853,7 @@ public final class Interpreter extends Icode implements Evaluator
Scriptable scope, Object[] args)

```

```

{
  if (!ScriptRuntime.hasTopCall(cx)) {
-   return ScriptRuntime.doTopCall(c, cx, scope, null, args, cx.isTopLevelStrict);
+   return ScriptRuntime.doTopCall(c, cx, scope, null, args);
  }
}

```

Object arg;

```

@@ -1648,8 +1648,7 @@ switch (op) {
}

```

```

case Token.ENUM_INIT_KEYS :

```

```

case Token.ENUM_INIT_VALUES :

```

```

- case Token.ENUM_INIT_ARRAY :

```

```

- case Token.ENUM_INIT_VALUES_IN_ORDER : {

```

```

+ case Token.ENUM_INIT_ARRAY : {

```

```

Object lhs = stack[stackTop];

```

```

if (lhs == DBL_MRK) lhs = ScriptRuntime.wrapNumber(sDb1[stackTop]);

```

```

--stackTop;

```

```

@@ -1658,8 +1657,6 @@ switch (op) {

```

```

? ScriptRuntime.ENUMERATE_KEYS :

```

```

op == Token.ENUM_INIT_VALUES

```

```

? ScriptRuntime.ENUMERATE_VALUES :

```

```

- op == Token.ENUM_INIT_VALUES_IN_ORDER

```

```

- ? ScriptRuntime.ENUMERATE_VALUES_IN_ORDER :

```

```

ScriptRuntime.ENUMERATE_ARRAY;

```

```

stack[indexReg] = ScriptRuntime.enumInit(lhs, cx, frame.scope, enumType);

```

```

continue Loop;

```

```

@@ -1714,14 +1711,9 @@ switch (op) {

```

```

stack[indexReg] = frame.scope;

```

```

continue Loop;

```

```

case Icode_CLOSURE_EXPR :

```

```

-   InterpretedFunction fn = InterpretedFunction.createFunction(cx, frame.scope,

```

```

-   frame.fnOrScript,

```

```

-   indexReg);

```

```

-   if (fn.idata.itsFunctionType == FunctionNode.ARROW_FUNCTION) {

```



```

-     stack[++stackTop] = new ArrowFunction(cx, frame.scope, fn, frame.thisObj);
-   } else {
-     stack[++stackTop] = fn;
-   }
+   stack[++stackTop] = InterpretedFunction.createFunction(cx, frame.scope,
+     frame.fnOrScript,
+     indexReg);
  continue Loop;
  case Icode_CLOSURE_STMT :
    initFunction(cx, frame.scope, frame.fnOrScript, indexReg);
  @@ -2758,11 +2750,8 @@ switch (op) {
    scope = fnOrScript.getParentScope();

    if (useActivation) {
-     if (idata.itsFunctionType == FunctionNode.ARROW_FUNCTION) {
-       scope = ScriptRuntime.createArrowFunctionActivation(fnOrScript, scope, args, idata.isStrict);
-     } else {
-       scope = ScriptRuntime.createFunctionActivation(fnOrScript, scope, args, idata.isStrict);
-     }
+     scope = ScriptRuntime.createFunctionActivation(
+       fnOrScript, scope, args);
    }
  } else {
    scope = callerScope;
  @@ -2876,6 +2865,17 @@ switch (op) {
    private static void enterFrame(Context cx, CallFrame frame, Object[] args,
      boolean continuationRestart)
    {
+   if (frame.parentFrame != null && !frame.parentFrame.fnOrScript.isScript()) {
+     frame.fnOrScript.defaultPut("caller", frame.parentFrame.fnOrScript);
+     frame.fnOrScript.setAttributes("caller", ScriptableObject.DONTENUM);
+   }
+   if (frame.scope instanceof NativeCall) {
+     Object arguments = ScriptableObject.getProperty(frame.scope, "arguments");
+     if (arguments instanceof Arguments) {
+       frame.fnOrScript.setArguments((Arguments) arguments);
+     }
+   }
+
    boolean usesActivation = frame.idata.itsNeedsActivation;
    boolean isDebugged = frame.debuggerFrame != null;
    if(usesActivation || isDebugged) {
  @@ -2925,6 +2925,9 @@ switch (op) {
    private static void exitFrame(Context cx, CallFrame frame,
      Object throwable)
    {
+   frame.fnOrScript.defaultPut("caller", null);
+   frame.fnOrScript.setArguments(null);

```

```

+
+   if (frame.idata.itsNeedsActivation) {
+       ScriptRuntime.exitActivationFunction(cx);
+   }
diff --git a/src/org/mozilla/javascript/InterpreterData.java b/src/org/mozilla/javascript/InterpreterData.java
index 817d52c..7c9b5a0 100644
--- a/src/org/mozilla/javascript/InterpreterData.java
+++ b/src/org/mozilla/javascript/InterpreterData.java
@@ -34,7 +34,7 @@ final class InterpreterData implements Serializable, DebuggableScript
    this.languageVersion = parent.languageVersion;
    this.itsSourceFile = parent.itsSourceFile;
    this.encodedSource = parent.encodedSource;
-   this.isStrict = parent.isStrict;
+
+   init();
    }

@@ -89,6 +89,8 @@ final class InterpreterData implements Serializable, DebuggableScript

    boolean evalScriptFlag; // true if script corresponds to eval() code

+ boolean declaredAsVar; // true if the function has been declared like "var foo = function() {...}"
+
+   public boolean isTopLevel()
+   {
+       return topLevel;
diff --git a/src/org/mozilla/javascript/MemberBox.java b/src/org/mozilla/javascript/MemberBox.java
index 52145c0..b6eeb80 100644
--- a/src/org/mozilla/javascript/MemberBox.java
+++ b/src/org/mozilla/javascript/MemberBox.java
@@ -25,7 +25,37 @@ final class MemberBox implements Serializable
    transient Class<?>[] argTypes;
    transient Object delegateTo;
    transient boolean vararg;
+   transient Function asFunction;

+   /**
+    * Function returned by calls to __lookupGetter__/_lookupSetter__
+    */
warning: LF will be replaced by CRLF in src/org/mozilla/javascript/MemberBox.java.
The file will have its original line endings in your working directory.
+   Function asFunction(final String name, final Scriptable scope, final Scriptable prototype) {
+   if (asFunction == null) {
+   asFunction = new BaseFunction(scope, prototype) {
+       @Override
+       public Object call(Context cx, Scriptable scope, Scriptable thisObj, Object[] originalArgs) {
+           MemberBox nativeGetter = MemberBox.this;
+           Object getterThis;

```

```

+         Object[] args;
+         if (nativeGetter.delegateTo == null) {
+             getterThis = thisObj;
+             args = ScriptRuntime.emptyArgs;
+         } else {
+             getterThis = nativeGetter.delegateTo;
+             args = new Object[] { thisObj };
+         }
+         return nativeGetter.invoke(getterThis, args);
+     }
+
+     @Override
+     public String getFunctionName() {
+         return name;
+     }
+ };
+ }
+ return asFunction;
+ }

```

```

MemberBox(Method method)
{
@@ -121,6 +151,17 @@ final class MemberBox implements Serializable
    Object invoke(Object target, Object[] args)
    {
        Method method = method();
+
+        // handle delegators
+        if (target instanceof Delegator) {
+            target = ((Delegator) target).getDelegee();
+        }
+        for (int i=0; i<args.length; ++i) {
+            if (args[i] instanceof Delegator) {
+                args[i] = ((Delegator) args[i]).getDelegee();
+            }
+        }
+
        try {
            try {
                return method.invoke(target, args);
@@ -145,7 +186,22 @@ final class MemberBox implements Serializable
            } while ((e instanceof InvocationTargetException));
            if (e instanceof ContinuationPending)
                throw (ContinuationPending) e;
-            throw Context.throwAsScriptRuntimeEx(e);
+
+            if (e instanceof RhinoException ||
                Context.getCurrentContext().hasFeature(Context.FEATURE_HTMLUNIT_JS_CATCH_JAVA_EXCEPTION))

```

```

+         throw Context.throwAsScriptRuntimeEx(e);
+     else
+         throw new RuntimeException("Exception invoking " + method.getName(), e);
+ } catch (IllegalArgumentException iae) {
+     StringBuilder builder = new StringBuilder();
+     for (Object arg : args) {
+         String type = arg == null ? "null" : arg.getClass().getSimpleName();
+         if (builder.length() != 0) {
+             builder.append(", ");
+         }
+         builder.append(type);
+     }
+     throw new IllegalArgumentException("Exception invoking " +
method.getDeclaringClass().getSimpleName()
+ '!' + method.getName() + "() with arguments [" + builder + "]", iae);
+ } catch (Exception ex) {
+     throw Context.throwAsScriptRuntimeEx(ex);
+ }
diff --git a/src/org/mozilla/javascript/NativeArray.java b/src/org/mozilla/javascript/NativeArray.java
index ede36ca..f4b9b7b 100644
--- a/src/org/mozilla/javascript/NativeArray.java
+++ b/src/org/mozilla/javascript/NativeArray.java
@@ -7,6 +7,8 @@
package org.mozilla.javascript;

import org.mozilla.javascript.regexp.NativeRegExp;
+import java.lang.reflect.Field;
+import java.lang.reflect.Modifier;

import java.util.Arrays;
import java.util.Collection;
@@ -18,9 +20,6 @@ import java.util.ListIterator;
import java.util.NoSuchElementException;
import java.util.Set;

-import static org.mozilla.javascript.NativeSymbol.ITERATOR_PROPERTY;
-import static org.mozilla.javascript.ScriptRuntimeES6.requireObjectCoercible;
-
/**
 * This class implements the Array native object.
 * @author Norris Boyd
@@ -28,6 +27,24 @@ import static org.mozilla.javascript.ScriptRuntimeES6.requireObjectCoercible;
 */
public class NativeArray extends IdScriptableObject implements List
{
+     static {
+         try {
+             // A workaround to change the default sort logic, to allow non-conformant comparison method

```

```

+ // this starts to be observed since Java 7
+ Class<?> klass = Class.forName("java.util.Arrays$LegacyMergeSort");
+ Field field = klass.getDeclaredField("userRequested");
+ field.setAccessible(true);
+
+ Field modifiersField = Field.class.getDeclaredField("modifiers");
+ modifiersField.setAccessible(true);
+ modifiersField.setInt(field, field.getModifiers() & ~Modifier.FINAL);
+
+ field.setBoolean(null, true);
+ }
+ catch (final Exception e) {
+ // RIP
+ }
+ }
static final long serialVersionUID = 7331366857676127338L;

/*
@@ -189,7 +206,7 @@ public class NativeArray extends IdScriptableObject implements List
@Override
protected void initPrototypeId(int id)
{
- String s, fnName = null;
+ String s;
int arity;
switch (id) {
case Id_constructor:  arity=1; s="constructor"; break;
@@ -217,11 +234,9 @@ public class NativeArray extends IdScriptableObject implements List
case Id_findIndex:    arity=1; s="findIndex"; break;
case Id_reduce:       arity=1; s="reduce"; break;
case Id_reduceRight:  arity=1; s="reduceRight"; break;
- case Id_iterator:    arity=0; s=ITERATOR_PROPERTY; fnName="[Symbol.iterator]"; break;
default: throw new IllegalArgumentException(String.valueOf(id));
}
-
- initPrototypeMethod(ARRAY_TAG, id, s, fnName, arity);
+ initPrototypeMethod(ARRAY_TAG, id, s, arity);
}

@Override
@@ -332,15 +347,12 @@ public class NativeArray extends IdScriptableObject implements List
case Id_some:
case Id_find:
case Id_findIndex:
- return iterativeMethod(cx, f, scope, thisObj, args);
+ return iterativeMethod(cx, id, scope, thisObj, args);
case Id_reduce:
case Id_reduceRight:

```

```

        return reduceMethod(cx, id, scope, thisObj, args);
-
-     case Id_iterator:
-         return new NativeArrayIterator(scope, thisObj);
    }
-     throw new IllegalArgumentException("Array.prototype has no method: " + f.getFunctionName());
+     throw new IllegalArgumentException(String.valueOf(id));
    }
}

@@ -1601,24 +1613,14 @@ public class NativeArray extends IdScriptableObject implements List
/**
 * Implements the methods "every", "filter", "forEach", "map", and "some".
 */
- private static Object iterativeMethod(Context cx, IdFunctionObject idFunctionObject, Scriptable scope,
+ private static Object iterativeMethod(Context cx, int id, Scriptable scope,
                                     Scriptable thisObj, Object[] args)
    {
-     int id = idFunctionObject.methodId();
-
-     if (Id_find == id || Id_findIndex == id) thisObj = requireObjectCoercible(cx, thisObj, idFunctionObject);
-
-     long length = getLengthProperty(cx, thisObj);
-     Object callbackArg = args.length > 0 ? args[0] : Undefined.instance;
-     if (callbackArg == null || !(callbackArg instanceof Function)) {
-         throw ScriptRuntime.notFunctionError(callbackArg);
-     }
-     if (cx.getLanguageVersion() >= Context.VERSION_ES6 && (callbackArg instanceof NativeRegExp)) {
-         // Previously, it was allowed to pass RegExp instance as a callback (it implements Function)
-         // But according to ES2015 21.2.6 Properties of RegExp Instances:
-         // > RegExp instances are ordinary objects that inherit properties from the RegExp prototype object.
-         // > RegExp instances have internal slots [[RegExpMatcher]], [[OriginalSource]], and [[OriginalFlags]].
-         // so, no [[Call]] for RegExp-s
+     } else if ((id == Id_find || id == Id_findIndex) && !(callbackArg instanceof NativeFunction)) {
+         throw ScriptRuntime.notFunctionError(callbackArg);
    }
}

@@ -1631,6 +1633,10 @@ public class NativeArray extends IdScriptableObject implements List
    thisArg = ScriptRuntime.toObject(cx, scope, args[1]);
}

+ if ((Id_find == id || Id_findIndex == id) && thisArg == thisObj) {
+     throw ScriptRuntime.typeError("Array.prototype method called on null or undefined");
+ }
+
    Scriptable array = null;
    if (id == Id_filter || id == Id_map) {
        int resultLength = id == Id_map ? (int) length : 0;

```

```

@@ -1641,11 +1647,7 @@ public class NativeArray extends IdScriptableObject implements List
    Object[] innerArgs = new Object[3];
    Object elem = getRawElem(thisObj, i);
    if (elem == Scriptable.NOT_FOUND) {
-       if (id == Id_find || id == Id_findIndex) {
-           elem = Undefined.instance;
-       } else {
-           continue;
-       }
+       continue;
    }
    innerArgs[0] = elem;
    innerArgs[1] = Long.valueOf(i);
@@ -1671,9 +1673,9 @@ public class NativeArray extends IdScriptableObject implements List
    break;
    case Id_find:
        if (ScriptRuntime.toBoolean(result))
-           return elem;
+           return elem;
        break;
-    case Id_findIndex:
+    case Id_findIndex:
        if (ScriptRuntime.toBoolean(result))
            return ScriptRuntime.wrapNumber(i);
        break;
@@ -2000,7 +2002,6 @@ public class NativeArray extends IdScriptableObject implements List
    else if (c=='t') { X="toString";id=Id_toString; }
    break L;
    case 9: X="findIndex";id=Id_findIndex; break L;
-    case 10: X="@@iterator";id=Id_iterator; break L;
    case 11: c=s.charAt(0);
        if (c=='c') { X="constructor";id=Id_constructor; }
        else if (c=='l') { X="lastIndexOf";id=Id_lastIndexOf; }
@@ -2041,9 +2042,9 @@ public class NativeArray extends IdScriptableObject implements List
    Id_findIndex      = 23,
    Id_reduce         = 24,
    Id_reduceRight    = 25,
-    Id_iterator       = 26,

-    MAX_PROTOTYPE_ID = 26;
+
+    MAX_PROTOTYPE_ID = 25;

// #/string_id_map#

diff --git a/src/org/mozilla/javascript/NativeArrayIterator.java b/src/org/mozilla/javascript/NativeArrayIterator.java
deleted file mode 100644
index 1507095..0000000

```

```

--- a/src/org/mozilla/javascript/NativeArrayIterator.java
+++ /dev/null
@@ -1,57 +0,0 @@
-/* -*- Mode: java; tab-width: 8; indent-tabs-mode: nil; c-basic-offset: 4 -*-
- *
- * This Source Code Form is subject to the terms of the Mozilla Public
- * License, v. 2.0. If a copy of the MPL was not distributed with this
- * file, You can obtain one at http://mozilla.org/MPL/2.0/. */
-
-package org.mozilla.javascript;
-
-public final class NativeArrayIterator extends ES6Iterator {
-    private static final long serialVersionUID = 1L;
-    private static final String ITERATOR_TAG = "ArrayIterator";
-
-    static void init(ScriptableObject scope, boolean sealed) {
-        ES6Iterator.init(scope, sealed, new NativeArrayIterator(), ITERATOR_TAG);
-    }
-
-    /**
-     * Only for constructing the prototype object.
-     */
-    private NativeArrayIterator() {
-        super();
-    }
-
-    public NativeArrayIterator(Scriptable scope, Scriptable arrayLike) {
-        super(scope);
-        this.index = 0;
-        this.arrayLike = arrayLike;
-    }
-
-    @Override
-    public String getClassName() {
-        return "Array Iterator";
-    }
-
-    @Override
-    protected boolean isDone(Context cx, Scriptable scope) {
-        return index >= NativeArray.getLengthProperty(cx, arrayLike);
-    }
-
-    @Override
-    protected Object nextValue(Context cx, Scriptable scope) {
-        Object value = arrayLike.get(index++, arrayLike);
-        if (value == ScriptableObject.NOT_FOUND) {
-            value = Undefined.instance;
-        }
-    }

```



```

-     return value;
- }
-
- @Override
- protected String getTag() {
-     return ITERATOR_TAG;
- }
-
- private Scriptable arrayLike;
- private int index;
-}
-

```

```

diff --git a/src/org/mozilla/javascript/NativeBoolean.java b/src/org/mozilla/javascript/NativeBoolean.java
index 2ab42ab..d83f792 100644

```

```

--- a/src/org/mozilla/javascript/NativeBoolean.java
+++ b/src/org/mozilla/javascript/NativeBoolean.java
@@ -74,7 +74,7 @@ final class NativeBoolean extends IdScriptableObject
     } else {
         b = args[0] instanceof ScriptableObject &&
            ((ScriptableObject) args[0]).avoidObjectDetection()
-            ? true
+            ? false
            : ScriptRuntime.toBoolean(args[0]);
     }
     if (thisObj == null) {

```

```

diff --git a/src/org/mozilla/javascript/NativeCall.java b/src/org/mozilla/javascript/NativeCall.java
index 3bca84b..1f18df5 100644

```

```

--- a/src/org/mozilla/javascript/NativeCall.java
+++ b/src/org/mozilla/javascript/NativeCall.java
@@ -6,6 +6,8 @@

```

```

package org.mozilla.javascript;

```

```

+import org.mozilla.javascript.debug.DebuggableScript;
+
+/**

```

```

+ * This class implements the activation object.
+ *

```

```

@@ -28,7 +30,7 @@ public final class NativeCall extends IdScriptableObject

```

```

    NativeCall() { }

```

```

- NativeCall(NativeFunction function, Scriptable scope, Object[] args, boolean isArrow, boolean isStrict)
+ NativeCall(NativeFunction function, Scriptable scope, Object[] args)
{
    this.function = function;

```

```

@@ -36,7 +38,6 @@ public final class NativeCall extends IdScriptableObject

```

```

// leave prototype null

this.originalArgs = (args == null) ? ScriptRuntime.emptyArgs : args;
-   this.isStrict = isStrict;

// initialize values of arguments
int paramAndVarCount = function.getParamAndVarCount();
@@ -52,9 +53,8 @@ public final class NativeCall extends IdScriptableObject

// initialize "arguments" property but only if it was not overridden by
// the parameter with the same name
-   if (!super.has("arguments", this) && !isArrow) {
-       arguments = new Arguments(this);
-       defineProperty("arguments", arguments, PERMANENT);
+   if (!super.has("arguments", this)) {
+       defineProperty("arguments", new Arguments(this), PERMANENT);
    }

    if (paramAndVarCount != 0) {
@@ -63,8 +63,22 @@ public final class NativeCall extends IdScriptableObject
        if (!super.has(name, this)) {
            if (function.getParamOrVarConst(i))
                defineProperty(name, Undefined.instance, CONST);
-           else
-               defineProperty(name, Undefined.instance, PERMANENT);
+           else {
+               boolean define = true;
+               if (function instanceof InterpretedFunction) {
+                   InterpreterData idata = ((InterpretedFunction) function).idata;
+                   for (int f = 0; f < idata.getFunctionCount(); f++) {
+                       final InterpreterData functionData = (InterpreterData) idata.getFunction(f);
+                       if (name.equals(functionData.getFunctionName())) {
+                           define = functionData.declaredAsVar; // define local property only for inner functions
+                           declared with var
+                               break;
+                       }
+                   }
+               }
+               if (define) {
+                   defineProperty(name, Undefined.instance, PERMANENT);
+               }
+           }
        }
    }
}

@@ -115,20 +129,12 @@ public final class NativeCall extends IdScriptableObject
    throw new IllegalArgumentException(String.valueOf(id));
}

```

```

- public void defineAttributesForArguments() {
-     if (arguments != null) {
-         arguments.defineAttributesForStrictMode();
-     }
- }
-

```

```

private static final int
    Id_constructor = 1,

```

warning: LF will be replaced by CRLF in src/org/mozilla/javascript/NativeArray.java.

The file will have its original line endings in your working directory.

warning: LF will be replaced by CRLF in src/org/mozilla/javascript/NativeBoolean.java.

The file will have its original line endings in your working directory.

warning: LF will be replaced by CRLF in src/org/mozilla/javascript/NativeCall.java.

The file will have its original line endings in your working directory.

warning: LF will be replaced by CRLF in src/org/mozilla/javascript/NativeCallSite.java.

The file will have its original line endings in your working directory.

warning: LF will be replaced by CRLF in src/org/mozilla/javascript/NativeDate.java.

The file will have its original line endings in your working directory.

warning: LF will be replaced by CRLF in src/org/mozilla/javascript/NativeError.java.

The file will have its original line endings in your working directory.

warning: LF will be replaced by CRLF in src/org/mozilla/javascript/NativeGenerator.java.

The file will have its original line endings in your working directory.

```

    MAX_PROTOTYPE_ID = 1;

```

```

NativeFunction function;

```

```

Object[] originalArgs;

```

```

- boolean isStrict;

```

```

- private Arguments arguments;

```

```

    transient NativeCall parentActivationCall;

```

```

}

```

diff --git a/src/org/mozilla/javascript/NativeCallSite.java b/src/org/mozilla/javascript/NativeCallSite.java

index 2fec127..8496f72 100644

--- a/src/org/mozilla/javascript/NativeCallSite.java

+++ b/src/org/mozilla/javascript/NativeCallSite.java

```

@@ -100,8 +100,6 @@ public class NativeCallSite extends IdScriptableObject

```

```

    case Id_getEvalOrigin:

```

```

    case Id_isEval:

```

```

    case Id_isConstructor:

```

```

-    case Id_isNative:

```

```

-    case Id_isToplevel:

```

```

        return getFalse();

```

```

    case Id_toString:

```

```

        return js_toString(thisObj);

```

diff --git a/src/org/mozilla/javascript/NativeDate.java b/src/org/mozilla/javascript/NativeDate.java

index 28ffcee..cf83b06 100644

--- a/src/org/mozilla/javascript/NativeDate.java

```

+++ b/src/org/mozilla/javascript/NativeDate.java
@@ -16,9 +16,6 @@ import java.util.TimeZone;
 * This class implements the Date native object.
 * See ECMA 15.9.
 * @author Mike McCabe
- *
- * Significant parts of this code are adapted from the venerable jsdate.cpp (also Mozilla):
- * https://dxr.mozilla.org/mozilla-central/source/js/src/jsdate.cpp
 */
final class NativeDate extends IdScriptableObject
{
@@ -432,25 +429,35 @@ final class NativeDate extends IdScriptableObject

    private static int YearFromTime(double t)
    {
-    if (Double.isInfinite(t) || Double.isNaN(t)) {
-        return 0;
+    int lo = (int) Math.floor((t / msPerDay) / 366) + 1970;
+    int hi = (int) Math.floor((t / msPerDay) / 365) + 1970;
+    int mid;
+
+    /* above doesn't work for negative dates... */
+    if (hi < lo) {
+        int temp = lo;
+        lo = hi;
+        hi = temp;
    }

-    double y = Math.floor(t / (msPerDay * 365.2425)) + 1970;
-    double t2 = TimeFromYear(y);
-
-    /*
-     * Adjust the year if the approximation was wrong. Since the year was
-     * computed using the average number of ms per year, it will usually
-     * be wrong for dates within several hours of a year transition.
-     */
-    if (t2 > t) {
-        y--;
-    } else {
-        if (t2 + msPerDay * DaysInYear(y) <= t)
-            y++;
+    /* Use a simple binary search algorithm to find the right
+     * year. This seems like brute force... but the computation
+     * of hi and lo years above lands within one year of the
+     * correct answer for years within a thousand years of
+     * 1970; the loop below only requires six iterations
+     * for year 270000. */
+    while (hi > lo) {

```

```

+     mid = (hi + lo) / 2;
+     if (TimeFromYear(mid) > t) {
+         hi = mid - 1;
+     } else {
+         lo = mid + 1;
+         if (TimeFromYear(lo) > t) {
+             return mid;
+         }
+     }
+ }
-     return (int)y;
+     return lo;
}

```

```

private static double DayFromMonth(int m, int year)
@@ -466,14 +473,6 @@ final class NativeDate extends IdScriptableObject
    return day;
}

```

```

- private static double DaysInYear(double year)
- {
-     if (Double.isInfinite(year) || Double.isNaN(year)) {
-         return ScriptRuntime.NaN;
-     }
-     return IsLeapYear((int)year) ? 366.0 : 365.0;
- }
-

```

```

private static int DaysInMonth(int year, int month)
{
    // month is 1-based for DaysInMonth!
diff --git a/src/org/mozilla/javascript/NativeError.java b/src/org/mozilla/javascript/NativeError.java
index 914e518..2066b80 100644

```

```

--- a/src/org/mozilla/javascript/NativeError.java

```

```

+++ b/src/org/mozilla/javascript/NativeError.java

```

```

@@ -161,7 +161,7 @@ final class NativeError extends IdScriptableObject

```

```

    // generated on demand, is cached after the first access, and is
    // overwritable like an ordinary property. Hence this setup with
    // the getter and setter below.

```

```

-     if (stackProvider == null) {
+     if (stackProvider == null &&
Context.getContext().hasFeature(Context.FEATURE_HTMLUNIT_ERROR_STACK)) {
    stackProvider = re;
    defineProperty("stack", this,
        ERROR_DELEGATE_GET_STACK, ERROR_DELEGATE_SET_STACK,

```

```

@@ -192,11 +192,14 @@ final class NativeError extends IdScriptableObject

```

```

    // Determine whether to format the stack trace ourselves, or call the user's code to do it
    Object value;

```

```

    if (prepare == null) {

```

```

+ RhinoException.useMozillaStackStyle(true);
+   value = RhinoException.formatStackTrace(stack, stackProvider.details());
+ RhinoException.useMozillaStackStyle(false);
+   } else {
+     value = callPrepareStack(prepare, stack);
+   }

+ RhinoException.useMozillaStackStyle(false);
+   // We store the stack as local property both to cache it
+   // and to make the property writable
+   setStackDelegated(target, value);
diff --git a/src/org/mozilla/javascript/NativeGenerator.java b/src/org/mozilla/javascript/NativeGenerator.java
index 1cbc843..a63a49b 100644
--- a/src/org/mozilla/javascript/NativeGenerator.java
+++ b/src/org/mozilla/javascript/NativeGenerator.java
@@ -72,6 +72,27 @@ public final class NativeGenerator extends IdScriptableObject {
    return "Generator";
  }

+ private static class CloseGeneratorAction implements ContextAction {
+   private NativeGenerator generator;
+
+   CloseGeneratorAction(NativeGenerator generator) {
+     this.generator = generator;
+   }
+
+   public Object run(Context cx) {
+     Scriptable scope = ScriptableObject.getTopLevelScope(generator);
+     Callable closeGenerator = new Callable() {
+       public Object call(Context cx, Scriptable scope,
+         Scriptable thisObj, Object[] args) {
+         return ((NativeGenerator)thisObj).resume(cx, scope,
+           GENERATOR_CLOSE, new GeneratorClosedException());
+       }
+     };
+     return ScriptRuntime.doTopCall(closeGenerator, cx, scope,
+       generator, null);
+   }
+ }
+
+ @Override
+ protected void initPrototypeId(int id) {
+   String s;
diff --git a/src/org/mozilla/javascript/NativeGlobal.java b/src/org/mozilla/javascript/NativeGlobal.java
index bd06aa5..4338f79 100644
--- a/src/org/mozilla/javascript/NativeGlobal.java
+++ b/src/org/mozilla/javascript/NativeGlobal.java
@@ -9,6 +9,7 @@ package org.mozilla.javascript;

```

```

import java.io.Serializable;

import org.mozilla.javascript.xml.XMLLib;
+
import static org.mozilla.javascript.ScriptableObject.DONTENUM;
import static org.mozilla.javascript.ScriptableObject.READONLY;
import static org.mozilla.javascript.ScriptableObject.PERMANENT;
@@ -150,10 +151,16 @@ public class NativeGlobal implements Serializable, IdFunctionCall
    return js_eval(cx, scope, args);

    case Id_isFinite: {
+       boolean result;
        if (args.length < 1) {
-           return Boolean.FALSE;
+           result = false;
+       } else {
+           double d = ScriptRuntime.toNumber(args[0]);
+           result = (d == d
+               && d != Double.POSITIVE_INFINITY
+               && d != Double.NEGATIVE_INFINITY);
        }
-       return NativeNumber.isFinite(args[0]);
+       return ScriptRuntime.wrapBoolean(result);
    }

    case Id_isNaN: {
@@ -203,7 +210,7 @@ public class NativeGlobal implements Serializable, IdFunctionCall
/**
 * The global method parseInt, as per ECMA-262 15.1.2.2.
 */
- static Object js_parseInt(Object[] args) {
+ private Object js_parseInt(Object[] args) {
    String s = ScriptRuntime.toString(args, 0);
warning: LF will be replaced by CRLF in src/org/mozilla/javascript/NativeGlobal.java.
The file will have its original line endings in your working directory.
warning: LF will be replaced by CRLF in src/org/mozilla/javascript/NativeJavaObject.java.
The file will have its original line endings in your working directory.
    int radix = ScriptRuntime.toInt32(args, 1);

@@ -243,8 +250,9 @@ public class NativeGlobal implements Serializable, IdFunctionCall
    radix = 16;
    start += 2;
} else if ('0' <= c && c <= '9') {
-    radix = 8;
-    start++;
+    if
(!Context.getCurrentContext().hasFeature(Context.FEATURE_HTMLUNIT_PARSE_INT_RADIX_10)) {
+    radix = 8;

```

```

+         }
+     }
+ }
@@ -258,7 +266,7 @@ public class NativeGlobal implements Serializable, IdFunctionCall
*
* @param args the arguments to parseFloat, ignoring args[>=1]
*/
- static Object js_parseFloat(Object[] args)
+ private Object js_parseFloat(Object[] args)
{
    if (args.length < 1)
        return ScriptRuntime.NaNobj;
diff --git a/src/org/mozilla/javascript/NativeJavaObject.java b/src/org/mozilla/javascript/NativeJavaObject.java
index bb2fa79..4f4fec8 100644
--- a/src/org/mozilla/javascript/NativeJavaObject.java
+++ b/src/org/mozilla/javascript/NativeJavaObject.java
@@ -362,14 +362,10 @@ public class NativeJavaObject implements Scriptable, Wrapper, Serializable
    }
}
    else if (to.isInterface()) {
-
-     if (fromObj instanceof NativeFunction) {
+     if (fromObj instanceof NativeObject || fromObj instanceof NativeFunction) {
        // See comments in createInterfaceAdapter
        return 1;
    }
-     if (fromObj instanceof NativeObject) {
-         return 2;
-     }
        return 12;
    }
    else if (to.isPrimitive() && to != Boolean.TYPE) {
diff --git a/src/org/mozilla/javascript/NativeMath.java b/src/org/mozilla/javascript/NativeMath.java
index fd463ea..94d0b55 100644
--- a/src/org/mozilla/javascript/NativeMath.java
+++ b/src/org/mozilla/javascript/NativeMath.java
@@ -6,8 +6,6 @@
package org.mozilla.javascript;

-import org.mozilla.javascript.typedarrays.Conversions;
-
/**
 * This class implements the Math native object.
 * See ECMA 15.8.
@@ -51,29 +49,19 @@ final class NativeMath extends IdScriptableObject
    case Id_asin:    arity = 1; name = "asin";    break;

```



```

    case Id_atan:    arity = 1; name = "atan";    break;
    case Id_atan2:  arity = 2; name = "atan2";   break;
-   case Id_cbrt:   arity = 1; name = "cbrt";    break;
    case Id_ceil:   arity = 1; name = "ceil";    break;
    case Id_cos:    arity = 1; name = "cos";     break;
-   case Id_cosh:   arity = 1; name = "cosh";    break;
    case Id_exp:    arity = 1; name = "exp";     break;
-   case Id_expm1:  arity = 1; name = "expm1";   break;
    case Id_floor:  arity = 1; name = "floor";   break;
-   case Id_hypot:  arity = 2; name = "hypot";   break;
-   case Id_imul:   arity = 2; name = "imul";    break;
    case Id_log:    arity = 1; name = "log";     break;
-   case Id_log1p:  arity = 1; name = "log1p";   break;
-   case Id_log10:  arity = 1; name = "log10";   break;
    case Id_max:    arity = 2; name = "max";     break;
    case Id_min:    arity = 2; name = "min";     break;
    case Id_pow:    arity = 2; name = "pow";     break;
    case Id_random: arity = 0; name = "random";  break;
    case Id_round:  arity = 1; name = "round";   break;
    case Id_sin:    arity = 1; name = "sin";     break;
-   case Id_sinh:   arity = 1; name = "sinh";    break;
    case Id_sqrt:   arity = 1; name = "sqrt";    break;
    case Id_tan:    arity = 1; name = "tan";     break;
-   case Id_tanh:   arity = 1; name = "tanh";    break;
-   case Id_trunc:  arity = 1; name = "trunc";   break;
    default: throw new IllegalStateException(String.valueOf(id));
}
initPrototypeMethod(MATH_TAG, id, name, arity);
@@ -135,11 +123,6 @@ final class NativeMath extends IdScriptableObject
    x = Math.atan2(x, ScriptRuntime.toNumber(args, 1));
    break;

-   case Id_cbrt:
-       x = ScriptRuntime.toNumber(args, 0);
-       x = Math.cbrt(x);
-       break;
-
    case Id_ceil:
        x = ScriptRuntime.toNumber(args, 0);
        x = Math.ceil(x);
@@ -152,15 +135,6 @@ final class NativeMath extends IdScriptableObject
    ? Double.NaN : Math.cos(x);
    break;

-   case Id_cosh:
-       x = ScriptRuntime.toNumber(args, 0);
-       x = Math.cosh(x);
-       break;

```

```

-
-   case Id_hypot:
-       x = js_hypot(args);
-       break;
-
-   case Id_exp:
-       x = ScriptRuntime.toNumber(args, 0);
-       x = (x == Double.POSITIVE_INFINITY) ? x
@@ -168,35 +142,17 @@ final class NativeMath extends IdScriptableObject
        : Math.exp(x);
        break;

-   case Id_expm1:
-       x = ScriptRuntime.toNumber(args, 0);
-       x = Math.expm1(x);
-       break;
-
-   case Id_floor:
-       x = ScriptRuntime.toNumber(args, 0);
-       x = Math.floor(x);
-       break;

-   case Id_imul:
-       return js_imul(args);
-
-   case Id_log:
-       x = ScriptRuntime.toNumber(args, 0);
-       // Java's log(<0) = -Infinity; we need NaN
-       x = (x < 0) ? Double.NaN : Math.log(x);
-       break;

-   case Id_log1p:
-       x = ScriptRuntime.toNumber(args, 0);
-       x = Math.log1p(x);
-       break;
-
-   case Id_log10:
-       x = ScriptRuntime.toNumber(args, 0);
-       x = Math.log10(x);
-       break;
-
-   case Id_max:
-   case Id_min:
-       x = (methodId == Id_max)
@@ -252,11 +208,6 @@ final class NativeMath extends IdScriptableObject
        ? Double.NaN : Math.sin(x);
        break;

```

```

-     case Id_sinh:
-         x = ScriptRuntime.toNumber(args, 0);
-         x = Math.sinh(x);
-         break;
-
-     case Id_sqrt:
-         x = ScriptRuntime.toNumber(args, 0);
-         x = Math.sqrt(x);
@@ -267,16 +218,6 @@ final class NativeMath extends IdScriptableObject
-         x = Math.tan(x);
-         break;
-
-     case Id_tanh:
-         x = ScriptRuntime.toNumber(args, 0);
-         x = Math.tanh(x);
-         break;
-
-     case Id_trunc:
-         x = ScriptRuntime.toNumber(args, 0);
-         x = js_trunc(x);
-         break;
-
-     default: throw new IllegalStateException(String.valueOf(methodId));
- }
- return ScriptRuntime.wrapNumber(x);
@@ -337,53 +278,13 @@ final class NativeMath extends IdScriptableObject
- return result;
- }

- // Based on code from https://developer.mozilla.org/en-
- US/docs/Web/JavaScript/Reference/Global_Objects/Math/hypot
- private double js_hypot(Object[] args)
- {
-     if (args == null) {
-         return 0.0;
-     }
-     double y = 0.0;
-
-     for (Object o : args) {
-         double d = ScriptRuntime.toNumber(o);
-         if (d == ScriptRuntime.NaN) {
-             return d;
-         }
-         if ((d == Double.POSITIVE_INFINITY) || (d == Double.NEGATIVE_INFINITY)) {
-             return Double.POSITIVE_INFINITY;
-         }
-         y += d * d;
-     }

```

```

-     return Math.sqrt(y);
- }
-
- private double js_trunc(double d)
- {
-     return ((d < 0.0) ? Math.ceil(d) : Math.floor(d));
- }
-
- // From EcmaScript 6 section 20.2.2.19
- private Object js_imul(Object[] args)
- {
-     if ((args == null) || (args.length < 2)) {
-         return ScriptRuntime.wrapNumber(ScriptRuntime.NaN);
-     }
-
-     long x = Conversions.toUint32(args[0]);
-     long y = Conversions.toUint32(args[1]);
-     long product = (x * y) % Conversions.THIRTYTWO_BIT;
-     long result = (product >= (1L << 31L)) ? (product - Conversions.THIRTYTWO_BIT) : product;
-     return ScriptRuntime.toNumber(result);
- }
-
- // #string_id_map#
-
- @Override
- protected int findPrototypeId(String s)
- {
-     int id;
- // #generated# Last update: 2015-06-16 09:41:02 PDT
+// #generated# Last update: 2004-03-17 13:51:32 CET
-     L0: { id = 0; String X = null; int c;
-         L: switch (s.length()) {
-             case 1: if (s.charAt(0)=='E') {id=Id_E; break L0;} break L;
@@ -404,13 +305,8 @@ final class NativeMath extends IdScriptableObject
-         } break L;
-     case 4: switch (s.charAt(1)) {
-         case 'N': X="LN10";id=Id_LN10; break L;
-         case 'a': X="tanh";id=Id_tanh; break L;
-         case 'b': X="cbrt";id=Id_cbrt; break L;
-         case 'c': X="acos";id=Id_acos; break L;
-         case 'e': X="ceil";id=Id_ceil; break L;
-         case 'i': X="sinh";id=Id_sinh; break L;
-         case 'm': X="imul";id=Id_imul; break L;
-         case 'o': X="cosh";id=Id_cosh; break L;
-         case 'q': X="sqrt";id=Id_sqrt; break L;
-         case 's': X="asin";id=Id_asin; break L;
-         case 't': X="atan";id=Id_atan; break L;
@@ -419,15 +315,8 @@ final class NativeMath extends IdScriptableObject

```

```

    case 'L': X="LOG2E";id=Id_LOG2E; break L;
    case 'S': X="SQRT2";id=Id_SQRT2; break L;
    case 'a': X="atan2";id=Id_atan2; break L;
-   case 'e': X="expm1";id=Id_expm1; break L;
    case 'f': X="floor";id=Id_floor; break L;
-   case 'h': X="hypot";id=Id_hypot; break L;
-   case 'l': c=s.charAt(4);
-       if (c=='0') { X="log10";id=Id_log10; }
-       else if (c=='p') { X="log1p";id=Id_log1p; }
-       break L;
    case 'r': X="round";id=Id_round; break L;
-   case 't': X="trunc";id=Id_trunc; break L;
    } break L;
    case 6: c=s.charAt(0);
        if (c=='L') { X="LOG10E";id=Id_LOG10E; }
@@ -437,7 +326,6 @@ final class NativeMath extends IdScriptableObject
    case 8: X="toSource";id=Id_toSource; break L;
    }
    if (X!=null && X!=s && !X.equals(s)) id = 0;
-   break L0;
    }
// #/generated#
    return id;
@@ -463,27 +351,8 @@ final class NativeMath extends IdScriptableObject
    Id_sin      = 17,
    Id_sqrt     = 18,
    Id_tan      = 19,
-   Id_cbrt     = 20,
-   Id_cosh     = 21,
-   Id_expm1    = 22,
-   Id_hypot    = 23,
-   Id_log1p    = 24,
-   Id_log10    = 25,
-   Id_sinh     = 26,
-   Id_tanh     = 27,
-   Id_imul     = 28,
-   Id_trunc    = 29,

-   LAST_METHOD_ID = Id_trunc;
-
-/* Missing from ES6:
-   acosh
-   asinh
-   atanh
-   clz32
-   fround
-   log2
- */

```

```

+   LAST_METHOD_ID = 19;

private static final int
    Id_E      = LAST_METHOD_ID + 1,
diff --git a/src/org/mozilla/javascript/NativeNumber.java b/src/org/mozilla/javascript/NativeNumber.java
index 9a7100f..30114c8 100644
--- a/src/org/mozilla/javascript/NativeNumber.java
+++ b/src/org/mozilla/javascript/NativeNumber.java
@@ -20,8 +20,6 @@ final class NativeNumber extends IdScriptableObject
    private static final Object NUMBER_TAG = "Number";

private static final int MAX_PRECISION = 100;
- private static final double MAX_SAFE_INTEGER = Math.pow(2, 53) - 1;
- private static final double MIN_SAFE_INTEGER = -MAX_SAFE_INTEGER;

static void init(Scriptable scope, boolean sealed)
{
@@ -60,19 +58,6 @@ final class NativeNumber extends IdScriptableObject
    ctor.defineProperty("MIN_VALUE",
        ScriptRuntime.wrapNumber(Double.MIN_VALUE),
        attr);
- ctor.defineProperty("MAX_SAFE_INTEGER",
-     ScriptRuntime.wrapNumber(MAX_SAFE_INTEGER),
-     attr);
- ctor.defineProperty("MIN_SAFE_INTEGER",
-     ScriptRuntime.wrapNumber(MIN_SAFE_INTEGER),
-     attr);
-
- addIdFunctionProperty(ctor, NUMBER_TAG, ConstructorId_isFinite, "isFinite", 1);
- addIdFunctionProperty(ctor, NUMBER_TAG, ConstructorId_isNaN, "isNaN", 1);
- addIdFunctionProperty(ctor, NUMBER_TAG, ConstructorId_isInteger, "isInteger", 1);
- addIdFunctionProperty(ctor, NUMBER_TAG, ConstructorId_isSafeInteger, "isSafeInteger", 1);
- addIdFunctionProperty(ctor, NUMBER_TAG, ConstructorId_parseFloat, "parseFloat", 1);
- addIdFunctionProperty(ctor, NUMBER_TAG, ConstructorId_parseInt, "parseInt", 1);

    super.fillConstructorProperties(ctor);
}
@@ -113,9 +98,6 @@ final class NativeNumber extends IdScriptableObject
    }
    // Number(val) converts val to a number value.
    return ScriptRuntime.wrapNumber(val);
-
- } else if (id < Id_constructor) {
-     return execConstructorCall(id, args);
- }

    // The rest of Number.prototype methods require thisObj to be Number
@@ -188,57 +170,6 @@ final class NativeNumber extends IdScriptableObject

```

```

    }
}

- private Object execConstructorCall(int id, Object[] args)
- {
-   switch (id) {
-   case ConstructorId_isFinite:
-     if ((args.length == 0) || (Undefined.instance == args[0])) {
-       return false;
-     }
-     if (args[0] instanceof Number) {
-       // Match ES6 polyfill, which only works for "number" types
-       return isFinite(args[0]);
-     }
-     return false;
-
-   case ConstructorId_isNaN:
-     if ((args.length == 0) || (Undefined.instance == args[0])) {
-       return false;
-     }
-     if (args[0] instanceof Number) {
-       return isNaN((Number)args[0]);
-     }
-     return false;
-
-   case ConstructorId_isInteger:
-     if ((args.length == 0) || (Undefined.instance == args[0])) {
-       return false;
-     }
-     if (args[0] instanceof Number) {
-       return isInteger((Number)args[0]);
-     }
-     return false;
-
-   case ConstructorId_isSafeInteger:
-     if ((args.length == 0) || (Undefined.instance == args[0])) {
-       return false;
-     }
-     if (args[0] instanceof Number) {
-       return isSafeInteger((Number)args[0]);
-     }
-     return false;
-
-   case ConstructorId_parseFloat:
-     return NativeGlobal.js_parseFloat(args);
-
-   case ConstructorId_parseInt:
-     return NativeGlobal.js_parseInt(args);

```

```

-
-   default:
-       throw new IllegalArgumentException(String.valueOf(id));
-   }
- }
-
-   @Override
-   public String toString() {
-       return ScriptRuntime.numberToString(doubleValue, 10);
-   }
- }
-
-   @ -269,59 +200,6 @@ final class NativeNumber extends IdScriptableObject
-       return sb.toString();
-   }
-
-   static Object isFinite(Object val)
-   {
-       double d = ScriptRuntime.toNumber(val);
-       Double nd = Double.valueOf(d);
-       return ScriptRuntime.wrapBoolean(!nd.isInfinite() && !nd.isNaN());
-   }
-
-   private Object isNaN(Number val)
-   {
-       Double nd = doubleVal(val);
-       return ScriptRuntime.toBoolean(isDoubleNan(nd));
-   }
-
-   private boolean isDoubleNan(Double d)
-   {
-       return d.isNaN();
-   }
-
-   private boolean isInteger(Number val)
-   {
-       Double nd = doubleVal(val);
-       return ScriptRuntime.toBoolean(isDoubleInteger(nd));
-   }
-
-   private boolean isDoubleInteger(Double d)
-   {
-       return (!d.isInfinite() && !d.isNaN() &&
-           (Math.floor(d.doubleValue()) == d.doubleValue()));
-   }
-
-   private boolean isSafeInteger(Number val)
-   {
-       Double nd = doubleVal(val);
-       return ScriptRuntime.toBoolean(isDoubleSafeInteger(nd));
-   }

```



```

-
- private boolean isDoubleSafeInteger(Double d)
- {
-     return (isDoubleInteger(d) &&
-         (d.doubleValue() <= MAX_SAFE_INTEGER) &&
-         (d.doubleValue() >= MIN_SAFE_INTEGER));
- }
-
- private Double doubleVal(Number val)
- {
-     if (val instanceof Double) {
-         return (Double)val;
-     } else {
-         double d = val.doubleValue();
-         return Double.valueOf(d);
-     }
- }
-
// #string_id_map#

    @Override
@@ -354,13 +232,6 @@ final class NativeNumber extends IdScriptableObject
    }

    private static final int
-     ConstructorId_isFinite      = -1,
-     ConstructorId_isNaN        = -2,
-     ConstructorId_isInteger     = -3,
-     ConstructorId_isSafeInteger = -4,
-     ConstructorId_parseFloat    = -5,
-     ConstructorId_parseInt     = -6,
-
-     Id_constructor              = 1,
-     Id_toString                 = 2,
-     Id_toLocaleString          = 3,
diff --git a/src/org/mozilla/javascript/NativeObject.java b/src/org/mozilla/javascript/NativeObject.java
index b654b89..51d26fe 100644
--- a/src/org/mozilla/javascript/NativeObject.java
+++ b/src/org/mozilla/javascript/NativeObject.java
@@ -72,6 +72,8 @@ public class NativeObject extends IdScriptableObject implements Map
    "seal", 1);
    addIdFunctionProperty(ctor, OBJECT_TAG, ConstructorId_freeze,
        "freeze", 1);
+    addIdFunctionProperty(ctor, OBJECT_TAG, ConstructorId_assign,
+        "assign", 2);
    super.fillConstructorProperties(ctor);
}

```

```

@@ -258,21 +260,25 @@ public class NativeObject extends IdScriptableObject implements Map
    else
        break;
    }
-   if (gs != null)
+   if (gs != null) {
+   if (gs instanceof MemberBox) {
+   gs = ((MemberBox) gs).asFunction(name, f.getParentScope(), f.getPrototype());
+   }
    return gs;
+   }
}
return Undefined.instance;

case ConstructorId_getPrototypeOf:
{
    Object arg = args.length < 1 ? Undefined.instance : args[0];
-   Scriptable obj = getCompatibleObject(cx, scope, arg);
+   Scriptable obj = ensureScriptable(arg);
    return obj.getPrototype();
}
case ConstructorId_keys:
{
    Object arg = args.length < 1 ? Undefined.instance : args[0];
-   Scriptable obj = getCompatibleObject(cx, scope, arg);
+   Scriptable obj = ensureScriptable(arg);
    Object[] ids = obj.getIds();
    for (int i = 0; i < ids.length; i++) {
        ids[i] = ScriptRuntime.toString(ids[i]);
@@ -282,8 +288,7 @@ public class NativeObject extends IdScriptableObject implements Map
case ConstructorId_getOwnPropertyNames:
{
    Object arg = args.length < 1 ? Undefined.instance : args[0];
-   Scriptable s = getCompatibleObject(cx, scope, arg);
-   ScriptableObject obj = ensureScriptableObject(s);
+   ScriptableObject obj = ensureScriptableObject(arg);
    Object[] ids = obj.getAllIds();
    for (int i = 0; i < ids.length; i++) {
        ids[i] = ScriptRuntime.toString(ids[i]);
@@ -296,8 +301,7 @@ public class NativeObject extends IdScriptableObject implements Map
// TODO(norris): There's a deeper issue here if
// arg instanceof Scriptable. Should we create a new
// interface to admit the new ECMAScript 5 operations?
-   Scriptable s = getCompatibleObject(cx, scope, arg);
-   ScriptableObject obj = ensureScriptableObject(s);
+   ScriptableObject obj = ensureScriptableObject(arg);
    Object nameArg = args.length < 2 ? Undefined.instance : args[1];
    String name = ScriptRuntime.toString(nameArg);

```

```

        Scriptable desc = obj.getOwnPropertyDescriptor(cx, name);
@@ -416,6 +420,19 @@ public class NativeObject extends IdScriptableObject implements Map

        return obj;
    }
+   case ConstructorId_assign:
+   {
+       ScriptableObject target = ensureScriptableObject(args[0]);
+       for (int i = 1; i < args.length; i++) {
+           if (args[i] != Undefined.instance) {
+               ScriptableObject obj = ensureScriptableObject(args[i]);
+               for (Object objId : obj.getIds()) {
+                   target.defineOwnProperty(cx, objId, obj.getOwnPropertyDescriptor(cx, objId));
+               }
+           }
+       }
+       return target;
+   }

```

```

        default:
@@ -423,15 +440,6 @@ public class NativeObject extends IdScriptableObject implements Map
    }
}

```

```

- private Scriptable getCompatibleObject(Context cx, Scriptable scope, Object arg)
- {
-     if (cx.getLanguageVersion() >= Context.VERSION_ES6) {
-         Scriptable s = ScriptRuntime.toObject(cx, scope, arg);
-         return ensureScriptable(s);
-     }
-     return ensureScriptable(arg);
- }
-

```

// methods implementing java.util.Map

```

public boolean containsKey(Object key) {
@@ -682,12 +690,13 @@ public class NativeObject extends IdScriptableObject implements Map
    ConstructorId_defineProperty = -5,
    ConstructorId_isExtensible = -6,
    ConstructorId_preventExtensions = -7,
-   ConstructorId_defineProperties = -8,
+   ConstructorId_defineProperties = -8,
    ConstructorId_create = -9,
    ConstructorId_isSealed = -10,
    ConstructorId_isFrozen = -11,
    ConstructorId_seal = -12,
    ConstructorId_freeze = -13,

```

```

+   ConstructorId_assign = -14,

    Id_constructor      = 1,
    Id_toString        = 2,
diff --git a/src/org/mozilla/javascript/NativeString.java b/src/org/mozilla/javascript/NativeString.java
index d8766f9..43276ba 100644
--- a/src/org/mozilla/javascript/NativeString.java
+++ b/src/org/mozilla/javascript/NativeString.java
@@ -11,9 +11,8 @@ import org.mozilla.javascript.regexp.NativeRegExp;
import java.text.Collator;
import java.text.Normalizer;

-import static org.mozilla.javascript.NativeSymbol.ITERATOR_PROPERTY;
import static org.mozilla.javascript.ScriptRuntime.rangeError;
-import static org.mozilla.javascript.ScriptRuntimeES6.requireObjectCoercible;
+import static org.mozilla.javascript.ScriptRuntime.requireObjectCoercible;

/**
 * This class implements the String native object.
@@ -128,7 +127,7 @@ final class NativeString extends IdScriptableObject
    @Override
    protected void initPrototypeId(int id)
    {
-   String s, fnName = null;
+   String s;
    int arity;
    switch (id) {
        case Id_constructor:    arity=1; s="constructor";    break;
@@ -176,10 +175,9 @@ final class NativeString extends IdScriptableObject
        case Id_normalize:      arity=0; s="normalize";      break;
        case Id_repeat:         arity=1; s="repeat";         break;
        case Id_codePointAt:    arity=1; s="codePointAt";    break;
-   case Id_iterator:         arity=0; s= ITERATOR_PROPERTY; fnName="[Symbol.iterator]"; break;
        default: throw new IllegalArgumentException(String.valueOf(id));
    }
-   initPrototypeMethod(STRING_TAG, id, s, fnName, arity);
+   initPrototypeMethod(STRING_TAG, id, s, arity);
    }

    @Override
@@ -278,7 +276,8 @@ final class NativeString extends IdScriptableObject
    case Id_includes:
    case Id_startsWith:
    case Id_endsWith:
-   String s = ScriptRuntime.toString(requireObjectCoercible(cx, thisObj, f));
+   String s = ScriptRuntime.toString(requireObjectCoercible(thisObj, f));
+
    if (args.length > 0 && args[0] instanceof NativeRegExp) {

```

```

        throw ScriptRuntime.typeError2("msg.first.arg.not.regexp", String.class.getSimpleName(),
f.getFunctionName());
    }
@@ -408,7 +407,7 @@ final class NativeString extends IdScriptableObject
    .toUpperCase(cx.getLocale());
    }
    case Id_trim: {
-       String str = ScriptRuntime.toString(requireObjectCoercible(cx, thisObj, f));
+       String str = ScriptRuntime.toString(thisObj);
        char[] chars = str.toCharArray();

        int start = 0;
@@ -448,8 +447,7 @@ final class NativeString extends IdScriptableObject

        return str.substring(start, end);
    }
-   case Id_normalize:
-   {
+   case Id_normalize: {
        String formStr = ScriptRuntime.toString(args, 0);

        Normalizer.Form form;
@@ -459,26 +457,47 @@ final class NativeString extends IdScriptableObject
        else if (Normalizer.Form.NFC.name().equals(formStr) || args.length == 0) form =
Normalizer.Form.NFC;
        else throw rangeError("The normalization form should be one of NFC, NFD, NFKC, NFKD");

-       return Normalizer.normalize(ScriptRuntime.toString(requireObjectCoercible(cx, thisObj, f)), form);
+       return Normalizer.normalize(ScriptRuntime.toString(requireObjectCoercible(thisObj, f)), form);
    }

    case Id_repeat:
    {
-       return js_repeat(cx, thisObj, f, args);
+       String str = ScriptRuntime.toString(requireObjectCoercible(thisObj, f));
+       double cnt = ScriptRuntime.toInteger(args, 0);
+
+       if (cnt == 0) {
+           return "";
+       }
+
+       if (cnt < 0 || cnt == Double.POSITIVE_INFINITY) throw rangeError("Invalid count value");
+
+       long size = str.length() * (long) cnt;
+       // Check for overflow
+       if (cnt >= Integer.MAX_VALUE || size >= Integer.MAX_VALUE) {
+           size = Integer.MAX_VALUE;
+       }
    }

```

```

+
+     StringBuilder retval = new StringBuilder((int) size);
+     retval.append(str);
+
+     int i = 1;
+     while (i <= cnt/2) {
+         retval.append(retval);
+         i *= 2;
+     }
+     while (i++ < cnt) retval.append(str);
+
+     return retval.toString();
+ }
+ case Id_codePointAt:
+ {
-     String str = ScriptRuntime.toString(requireObjectCoercible(cx, thisObj, f));
+     String str = ScriptRuntime.toString(requireObjectCoercible(thisObj, f));
+     double cnt = ScriptRuntime.toInteger(args, 0);
+
+     return (cnt < 0 || cnt >= str.length())
+         ? Undefined.instance
+         : str.codePointAt((int) cnt);
+ }
-
-     case Id_iterator:
-         return new NativeStringIterator(scope, thisObj);
-
+ }
+ throw new IllegalArgumentException("String.prototype has no method: " + f.getFunctionName());
+ }
@@ -544,24 +563,6 @@ final class NativeString extends IdScriptableObject
+     super.put(index, start, value);
+ }
-
-     @Override
-     public Object[] getAllIds()
-     {
-         // In ES6, Strings have entries in the property map for each character.
-         Context cx = Context.getCurrentContext();
-         if ((cx != null) && (cx.getLanguageVersion() >= Context.VERSION_ES6)) {
-             Object[] sids = super.getAllIds();
-             Object[] a = new Object[sids.length + string.length()];
-             int i;
-             for (i = 0; i < string.length(); i++) {
-                 a[i] = Integer.valueOf(i);
-             }
-             System.arraycopy(sids, 0, a, i, sids.length);
-             return a;

```

```

-     }
-     return super.getAllIds();
- }
-
- /*
-  *
-  * See ECMA 15.5.4.6. Uses Java String.indexOf()
@@ -740,41 +741,6 @@ final class NativeString extends IdScriptableObject
-     return target.subSequence((int) begin, (int) end);
- }

- private static String js_repeat(Context cx, Scriptable thisObj, IdFunctionObject f, Object[] args)
- {
-     String str = ScriptRuntime.toString(requireObjectCoercible(cx, thisObj, f));
-     double cnt = ScriptRuntime.toInteger(args, 0);
-
-     if ((cnt < 0.0) || (cnt == Double.POSITIVE_INFINITY)) {
-         throw rangeError("Invalid count value");
-     }
-
-     if (cnt == 0.0 || str.length() == 0) {
-         return "";
-     }
-
-     long size = str.length() * (long)cnt;
-     // Check for overflow
-     if ((cnt > Integer.MAX_VALUE) || (size > Integer.MAX_VALUE)) {
-         throw rangeError("Invalid size or count value");
-     }
-
-     StringBuilder retval = new StringBuilder((int) size);
-     retval.append(str);
-
-     int i = 1;
-     int icnt = (int)cnt;
-     while (i <= (icnt / 2)) {
-         retval.append(retval);
-         i *= 2;
-     }
-     if (i < icnt) {
-         retval.append(retval.substring(0, str.length() * (icnt - i)));
-     }
-
-     return retval.toString();
- }
-
- // #string_id_map#

```

```

    @Override
@@ -837,7 +803,6 @@ final class NativeString extends IdScriptableObject
    case 10: c=s.charAt(0);
        if (c=='c') { X="charCodeAt";id=Id_charCodeAt; }
        else if (c=='s') { X="startsWith";id=Id_startsWith; }
-        else if (c=='@') { X="@@iterator";id=Id_iterator; }
        break L;
    case 11: switch (s.charAt(2)) {
        case 'L': X="toLowerCase";id=Id_toLowerCase; break L;
@@ -908,8 +873,7 @@ final class NativeString extends IdScriptableObject
    Id_normalize          = 43,
    Id_repeat             = 44,
    Id_codePointAt       = 45,
-   Id_iterator          = 46,
-   MAX_PROTOTYPE_ID     = Id_iterator;
+   MAX_PROTOTYPE_ID     = Id_codePointAt;

// #/string_id_map#

diff --git a/src/org/mozilla/javascript/NativeStringIterator.java b/src/org/mozilla/javascript/NativeStringIterator.java
deleted file mode 100644
index 065b2d2..0000000
--- a/src/org/mozilla/javascript/NativeStringIterator.java
+++ /dev/null
@@ -1,55 +0,0 @@
-/* -*- Mode: java; tab-width: 8; indent-tabs-mode: nil; c-basic-offset: 4 -*-
- *
- * This Source Code Form is subject to the terms of the Mozilla Public
- * License, v. 2.0. If a copy of the MPL was not distributed with this
- * file, You can obtain one at http://mozilla.org/MPL/2.0/. */
-
-@package org.mozilla.javascript;
-
-@public final class NativeStringIterator extends ES6Iterator {
-    private static final long serialVersionUID = 1L;
-    private static final String ITERATOR_TAG = "StringIterator";
-
-    static void init(ScriptableObject scope, boolean sealed) {
-        ES6Iterator.init(scope, sealed, new NativeStringIterator(), ITERATOR_TAG);
-    }
-
-    /**
-     * Only for constructing the prototype object.
-     */
-    private NativeStringIterator() {
-        super();
-    }
-
-}

```



```

- NativeStringIterator(Scriptable scope, Scriptable stringLike) {
-     super(scope);
-     this.index = 0;
-     this.string = ScriptRuntime.toString(stringLike);
- }
-
- @Override
- public String getClassName() {
-     return "String Iterator";
- }
-
- @Override

```

warning: LF will be replaced by CRLF in src/org/mozilla/javascript/NativeMath.java.

The file will have its original line endings in your working directory.

warning: LF will be replaced by CRLF in src/org/mozilla/javascript/NativeNumber.java.

The file will have its original line endings in your working directory.

warning: LF will be replaced by CRLF in src/org/mozilla/javascript/NativeObject.java.

The file will have its original line endings in your working directory.

warning: LF will be replaced by CRLF in src/org/mozilla/javascript/NativeString.java.

The file will have its original line endings in your working directory.

warning: LF will be replaced by CRLF in src/org/mozilla/javascript/Node.java.

The file will have its original line endings in your working directory.

warning: LF will be replaced by CRLF in src/org/mozilla/javascript/NodeTransformer.java.

The file will have its original line endings in your working directory.

```

-     protected boolean isDone(Context cx, Scriptable scope) {
-         return index >= string.length();
-     }
-
- @Override
-     protected Object nextValue(Context cx, Scriptable scope) {
-         int newIndex = string.offsetByCodePoints(index, 1);
-         Object value = string.substring(index, newIndex);
-         index = newIndex;
-         return value;
-     }
-
- @Override
-     protected String getTag() {
-         return ITERATOR_TAG;
-     }
-
-     private String string;
-     private int index;
- }

```

diff --git a/src/org/mozilla/javascript/NativeSymbol.java b/src/org/mozilla/javascript/NativeSymbol.java

deleted file mode 100644

index 3c76cfd..0000000

--- a/src/org/mozilla/javascript/NativeSymbol.java

```

+++ /dev/null
@@ -1,90 +0,0 @@
-/* -*- Mode: java; tab-width: 8; indent-tabs-mode: nil; c-basic-offset: 4 -*-
- *
- * This Source Code Form is subject to the terms of the Mozilla Public
- * License, v. 2.0. If a copy of the MPL was not distributed with this
- * file, You can obtain one at http://mozilla.org/MPL/2.0/. */
-
-package org.mozilla.javascript;
-
-public class NativeSymbol extends IdScriptableObject {
-
-    public static final String SPECIES_PROPERTY = "@@species";
-    public static final String ITERATOR_PROPERTY = "@@iterator";
-    public static final String TO_STRING_TAG_PROPERTY = "@@toStringTag";
-
-    public static final String CLASS_NAME = "Symbol";
-
-    public static void init(Context cx, Scriptable scope, boolean sealed) {
-        NativeSymbol obj = new NativeSymbol();
-        obj.exportAsJSClass(MAX_PROTOTYPE_ID, scope, sealed);
-    }
-
-    private NativeSymbol() {
-    }
-
-    @Override
-    public String getClassName() {
-        return CLASS_NAME;
-    }
-
-    @Override
-    protected void fillConstructorProperties(IdFunctionObject ctor) {
-        super.fillConstructorProperties(ctor);
-        ctor.defineProperty("iterator", ITERATOR_PROPERTY, DONTENUM | READONLY | PERMANENT);
-        ctor.defineProperty("species", SPECIES_PROPERTY, DONTENUM | READONLY | PERMANENT);
-        ctor.defineProperty("toStringTag", TO_STRING_TAG_PROPERTY, DONTENUM | READONLY |
PERMANENT);
-    }
-
-    // #string_id_map#
-
-    @Override
-    protected int findPrototypeId(String s) {
-        int id = 0;
-
-        // #generated# Last update: 2015-06-07 10:40:05 EEST
-        L0: { id = 0; String X = null;
-            if (s.length() == 11) { X = "constructor"; id = Id_constructor; }

```

```

-     if (X!=null && X!=s && !X.equals(s)) id = 0;
-     break L0;
- }
- // #/generated#
-     return id;
- }
-
- private static final int
-     Id_constructor      = 1,
-     MAX_PROTOTYPE_ID    = Id_constructor;
-
- // #/string_id_map#
-
-
- @Override
- protected void initPrototypeId(int id)
- {
-     String s = null;
-     int arity = -1;
-     switch (id) {
-         case Id_constructor:    arity = 0; s = "constructor"; break;
-         default:                super.initPrototypeId(id);
-     }
-     initPrototypeMethod(CLASS_NAME, id, s, arity);
- }
-
- @Override
- public Object execIdCall(IdFunctionObject f, Context cx, Scriptable scope, Scriptable thisObj, Object[] args) {
-     if (!f.hasTag(CLASS_NAME)) {
-         return super.execIdCall(f, cx, scope, thisObj, args);
-     }
-     int id = f.methodId();
-     switch (id) {
-         case Id_constructor:
-             return new NativeSymbol();
-     }
-     return super.execIdCall(f, cx, scope, thisObj, args);
- }
-
- @Override
- public String getTypeId() {
-     return "symbol";
- }
- }
- }

```

diff --git a/src/org/mozilla/javascript/Node.java b/src/org/mozilla/javascript/Node.java

index 62ace50..5e276e6 100644

--- a/src/org/mozilla/javascript/Node.java

```

+++ b/src/org/mozilla/javascript/Node.java
@@ -63,8 +63,7 @@ public class Node implements Iterable<Node>
    JSDOC_PROP      = 24,
    EXPRESSION_CLOSURE_PROP = 25, // JS 1.8 expression closure pseudo-return
    DESTRUCTURING_SHORTHAND = 26, // JS 1.8 destructuring shorthand
-   ARROW_FUNCTION_PROP = 27,
-   LAST_PROP          = 27;
+   LAST_PROP          = 26;

    // values of ISNUMBER_PROP to specify
    // which of the children are Number types
diff --git a/src/org/mozilla/javascript/NodeTransformer.java b/src/org/mozilla/javascript/NodeTransformer.java
index 6d45bd9..28064c5 100644
--- a/src/org/mozilla/javascript/NodeTransformer.java
+++ b/src/org/mozilla/javascript/NodeTransformer.java
@@ -6,15 +6,16 @@

package org.mozilla.javascript;

+import java.util.ArrayList;
+import java.util.List;
+
import org.mozilla.javascript.ast.AstRoot;
import org.mozilla.javascript.ast.FunctionNode;
import org.mozilla.javascript.ast.Jump;
+import org.mozilla.javascript.ast.Name;
import org.mozilla.javascript.ast.Scope;
import org.mozilla.javascript.ast.ScriptNode;

-import java.util.ArrayList;
-import java.util.List;
-
/**
 * This class transforms a tree to a lower-level representation for codegen.
 */
@@ -31,20 +32,14 @@ public class NodeTransformer

    public final void transform(ScriptNode tree)
    {
-       transform(tree, false);
-   }
-
-   public final void transform(ScriptNode tree, boolean inStrictMode)
-   {
-       inStrictMode = inStrictMode || tree.isInStrictMode();
-       transformCompilationUnit(tree, inStrictMode);
+       transformCompilationUnit(tree);
        for (int i = 0; i != tree.getFunctionCount(); ++i) {

```

```

        FunctionNode fn = tree.getFunctionNode(i);
-       transform(fn, inStrictMode);
+       transform(fn);
    }
}

- private void transformCompilationUnit(ScriptNode tree, boolean inStrictMode)
+ private void transformCompilationUnit(ScriptNode tree)
{
    loops = new ObjArray();
    loopEnds = new ObjArray();
@@ -59,6 +54,8 @@ public class NodeTransformer

    //uncomment to print tree before transformation
    if (Token.printTrees) System.out.println(tree.toStringTree(tree));
+   boolean inStrictMode = tree instanceof AstRoot &&
+       ((AstRoot)tree).isInStrictMode();
    transformCompilationUnit_r(tree, tree, tree, createScopeObjects,
        inStrictMode);
}
@@ -69,6 +66,34 @@ public class NodeTransformer
        boolean createScopeObjects,
        boolean inStrictMode)

{
+   if (parent instanceof Scope
+       &&
Context.getContext().hasFeature(Context.FEATURE_HTMLUNIT_FUNCTION_DECLARED_FORWARD_IN_BLOCK)) {
+       // Make sure that all "Name" children are at the start of all siblings
+       Node lastInitialName = null;
+       boolean initial = true;
+       Node node = parent.getFirstChild();
+       while (node != null) {
+           if (node instanceof Name) {
+               if (initial) {
+                   lastInitialName = node;
+               }
+               else {
+                   parent.removeChild(node);
+                   if (lastInitialName == null) {
+                       parent.addChildToFront(node);
+                   }
+                   else {
+                       parent.addChildAfter(node, lastInitialName);
+                   }
+                   lastInitialName = node;
+               }
+           }
+       }
}
}

```

```

+         else {
+             initial = false;
+         }
+         node = node.getNext();
+     }
+ }
Node node = null;
siblingLoop:
    for (;;) {
diff --git a/src/org/mozilla/javascript/Parser.java b/src/org/mozilla/javascript/Parser.java
index d5dda69..73bfc55 100644
--- a/src/org/mozilla/javascript/Parser.java
+++ b/src/org/mozilla/javascript/Parser.java
@@ -93,8 +93,6 @@ public class Parser
    private String prevNameTokenString = "";
    private int prevNameTokenLineno;

- private boolean defaultUseStrictDirective;
-
    // Exception to unwind
    private static class ParserException extends RuntimeException
    {
@@ -255,7 +253,7 @@ public class Parser
    void reportError(String messageId, String messageArg, int position,
                    int length)
    {
-     addError(messageId, messageArg, position, length);
+     addError(messageId, position, length);

    if (!compilerEnv.recoverFromErrors()) {
        throw new ParserException();
@@ -551,11 +549,8 @@ public class Parser

    boolean inDirectivePrologue = true;
    boolean savedStrictMode = inUseStrictDirective;

-
- inUseStrictDirective = defaultUseStrictDirective;
- if (inUseStrictDirective) {
-     root.setInStrictMode(true);
- }
+ // TODO: eval code should get strict mode from invoking code
+ inUseStrictDirective = false;

    try {
        for (;;) {
@@ -571,6 +566,17 @@ public class Parser
        n = function(calledByCompileFunction
                    ? FunctionNode.FUNCTION_EXPRESSION

```

```

        : FunctionNode.FUNCTION_STATEMENT);
+     FunctionNode functionNode = (FunctionNode) n;
+     if (functionNode.getName().indexOf('.') != -1) {
+         String functionName = functionNode.getName();
+         String left = functionName.substring(0, functionName.indexOf('.'));
+         String right = functionName.substring(functionName.indexOf('.') + 1);
+         PropertyGet propertyGet = new PropertyGet(new Name(0, left), new Name(0, right));
+         Assignment assignment = new Assignment(Token.ASSIGN, propertyGet, functionNode, -1);
+         functionNode.setFunctionName(null);
+         functionNode.setFunctionType(FunctionNode.FUNCTION_EXPRESSION);
+         n = new ExpressionStatement(assignment, !insideFunction());
+     }
    } catch (ParserException e) {
        break;
    }
@@ -626,18 +632,17 @@ public class Parser
    return root;
}

- private AstNode parseFunctionBody(int type, FunctionNode fnNode)
+ private AstNode parseFunctionBody()
    throws IOException
    {
        boolean isExpressionClosure = false;
        if (!matchToken(Token.LC)) {
-         if (compilerEnv.getLanguageVersion() < Context.VERSION_1_8 && type !=
FunctionNode.ARROW_FUNCTION) {
+         if (compilerEnv.getLanguageVersion() < Context.VERSION_1_8) {
            reportError("msg.no.brace.body");
        } else {
            isExpressionClosure = true;
        }
    }
-     boolean isArrow = type == FunctionNode.ARROW_FUNCTION;
    ++nestingOfFunction;
    int pos = ts.tokenBeg;
    Block pn = new Block(pos); // starts at LC position
@@ -654,9 +659,6 @@ public class Parser
    // expression closure flag is required on both nodes
    n.putProp(Node.EXPRESSION_CLOSURE_PROP, Boolean.TRUE);
    pn.putProp(Node.EXPRESSION_CLOSURE_PROP, Boolean.TRUE);
-     if (isArrow) {
-         n.putProp(Node.ARROW_FUNCTION_PROP, Boolean.TRUE);
-     }
    pn.addStatement(n);
} else {
    bodyLoop: for (;;) {
@@ -680,10 +682,6 @@ public class Parser

```

```

        inDirectivePrologue = false;
    } else if (directive.equals("use strict")) {
        inUseStrictDirective = true;
-       fnNode.setInStrictMode(true);
-       if (!savedStrictMode) {
-           setRequiresActivation();
-       }
    }
    }
    break;
@@ -798,12 +796,19 @@ public class Parser
    }
    }
    if (!matchToken(Token.LP)) {
-       if (compilerEnv.isAllowMemberExprAsFunctionName()) {
-           AstNode memberExprHead = name;
-           name = null;
-           memberExprNode = memberExprTail(false, memberExprHead);
+       if
+       (Context.getContext().hasFeature(Context.FEATURE_HTMLUNIT_FUNCTION_OBJECT_METHOD)
+       && matchToken(Token.DOT) && matchToken(Token.NAME)) {
+           name.setIdentifier(name.getIdentifier() + '.' + createNameNode(true, Token.NAME).getIdentifier());
+           mustMatchToken(Token.LP, "msg.no.paren.parms");
+       }
+       else {
+           if (compilerEnv.isAllowMemberExprAsFunctionName()) {
+               AstNode memberExprHead = name;
+               name = null;
+               memberExprNode = memberExprTail(false, memberExprHead);
+           }
+           mustMatchToken(Token.LP, "msg.no.paren.parms");
-       mustMatchToken(Token.LP, "msg.no.paren.parms");
    }
    } else if (matchToken(Token.LP)) {
        // Anonymous function: leave name as null
@@ -838,7 +843,7 @@ public class Parser
    PerFunctionVariables savedVars = new PerFunctionVariables(fnNode);
    try {
        parseFunctionParams(fnNode);
-       fnNode.setBody(parseFunctionBody(type, fnNode));
+       fnNode.setBody(parseFunctionBody());
        fnNode.setEncodedSourceBounds(functionSourceStart, ts.tokenEnd);
        fnNode.setLength(ts.tokenEnd - functionSourceStart);

@@ -882,93 +887,6 @@ public class Parser
    return fnNode;
    }

```



```

- private AstNode arrowFunction(AstNode params) throws IOException {
-     int baseLineNo = ts.lineno; // line number where source starts
-     int functionSourceStart = params != null ? params.getPosition() : -1; // start of "function" kwd
-
-     FunctionNode fnNode = new FunctionNode(functionSourceStart);
-     fnNode.setFunctionType(FunctionNode.ARROW_FUNCTION);
-     fnNode.setJsDocNode(getAndResetJsDoc());
-
-     // Would prefer not to call createDestructuringAssignment until codegen,
-     // but the symbol definitions have to happen now, before body is parsed.
-     Map<String, Node> destructuring = new HashMap<String, Node>();
-     Set<String> paramNames = new HashSet<String>();
-
-     PerFunctionVariables savedVars = new PerFunctionVariables(fnNode);
-     try {
-         if (params instanceof ParenthesizedExpression) {
-             fnNode.setParens(0, params.getLength());
-             AstNode p = ((ParenthesizedExpression)params).getExpression();
-             if (!(p instanceof EmptyExpression)) {
-                 arrowFunctionParams(fnNode, p, destructuring, paramNames);
-             }
-         } else {
-             arrowFunctionParams(fnNode, params, destructuring, paramNames);
-         }
-
-         if (!destructuring.isEmpty()) {
-             Node destructuringNode = new Node(Token.COMMA);
-             // Add assignment helper for each destructuring parameter
-             for (Map.Entry<String, Node> param: destructuring.entrySet()) {
-                 Node assign = createDestructuringAssignment(Token.VAR,
-                                                             param.getValue(), createName(param.getKey()));
-                 destructuringNode.addChildToBack(assign);
-             }
-             fnNode.putProp(Node.DESTRUCTURING_PARAMS, destructuringNode);
-         }
-
-         fnNode.setBody(parseFunctionBody(FunctionNode.ARROW_FUNCTION, fnNode));
-         fnNode.setEncodedSourceBounds(functionSourceStart, ts.tokenEnd);
-         fnNode.setLength(ts.tokenEnd - functionSourceStart);
-     } finally {
-         savedVars.restore();
-     }
-
-     if (fnNode.isGenerator()) {
-         reportError("msg.arrowfunction.generator");
-         return makeErrorNode();
-     }

```

```

-     }
-
-     fnNode.setSourceName(sourceURI);
-     fnNode.setBaseLineno(baseLineno);
-     fnNode.setEndLineno(ts.lineno);
-
-     return fnNode;
- }
-
- private void arrowFunctionParams(FunctionNode fnNode, AstNode params, Map<String, Node> destructuring,
Set<String> paramNames) {
-     if (params instanceof ArrayLiteral || params instanceof ObjectLiteral) {
-         markDestructuring(params);
-         fnNode.addParam(params);
-         String pname = currentScriptOrFn.getNextTempName();
-         defineSymbol(Token.LP, pname, false);
-         destructuring.put(pname, params);
-     } else if (params instanceof InfixExpression && params.getType() == Token.COMMA) {
-         arrowFunctionParams(fnNode, ((InfixExpression)params).getLeft(), destructuring, paramNames);
-         arrowFunctionParams(fnNode, ((InfixExpression)params).getRight(), destructuring, paramNames);
-     } else if (params instanceof Name) {
-         fnNode.addParam(params);
-         String paramName = ((Name)params).getIdentifier();
-         defineSymbol(Token.LP, paramName);
-
-         if (this.inUseStrictDirective) {
-             if ("eval".equals(paramName) ||
-                 "arguments".equals(paramName))
-             {
-                 reportError("msg.bad.id.strict", paramName);
-             }
-             if (paramNames.contains(paramName))
-                 addError("msg.dup.param.strict", paramName);
-             paramNames.add(paramName);
-         }
-     } else {
-         reportError("msg.no.parm", params.getPosition(), params.getLength());
-         fnNode.addParam(makeErrorNode());
-     }
- }
-
- // This function does not match the closing RC: the caller matches
- // the RC so it can provide a suitable error message if not matched.
- // This means it's up to the caller to set the length of the node to
@@ -1360,7 +1278,7 @@ public class Parser
    if (currentToken != Token.FOR) codeBug();
    consumeToken();
    int forPos = ts.tokenBeg, lineno = ts.lineno;

```

```

-   boolean isForEach = false, isForIn = false, isForOf = false;
+   boolean isForEach = false, isForIn = false;
    int eachPos = -1, inPos = -1, lp = -1, rp = -1;
    AstNode init = null; // init is also foo in 'foo in object'
    AstNode cond = null; // cond is also object in 'foo in object'
@@ -1385,15 +1303,11 @@ public class Parser
    int tt = peekToken();

    init = forLoopInit(tt);
+
    if (matchToken(Token.IN)) {
        isForIn = true;
        inPos = ts.tokenBeg - forPos;
        cond = expr(); // object over which we're iterating
-    } else if (compilerEnv.getLanguageVersion() >= Context.VERSION_ES6 &&
-        matchToken(Token.NAME) && "of".equals(ts.getString())) {
-        isForOf = true;
-        inPos = ts.tokenBeg - forPos;
-        cond = expr(); // object over which we're iterating
    } else { // ordinary for-loop
        mustMatchToken(Token.SEMI, "msg.no.semi.for");
        if (peekToken() == Token.SEMI) {
@@ -1417,7 +1331,7 @@ public class Parser
        if (mustMatchToken(Token.RP, "msg.no.paren.for.ctrl"))
            rp = ts.tokenBeg - forPos;

-        if (isForIn || isForOf) {
+        if (isForIn) {
            ForInLoop fis = new ForInLoop(forPos);
            if (init instanceof VariableDeclaration) {
                // check that there was only one variable given
@@ -1425,15 +1339,11 @@ public class Parser
                reportError("msg.mult.index");
            }
        }
-        if (isForOf && isForEach) {
-            reportError("msg.invalid.for.each");
-        }
        fis.setIterator(init);
        fis.setIteratedObject(cond);
        fis.setInPosition(inPos);
        fis.setIsForEach(isForEach);
        fis.setEachPosition(eachPos);
-        fis.setIsForOf(isForOf);
        pn = fis;
    } else {
        ForLoop fl = new ForLoop(forPos);
@@ -2172,12 +2082,7 @@ public class Parser

```

```

        return returnOrYield(tt, true);
    }
    AstNode pn = condExpr();
-   boolean hasEOL = false;
-   tt = peekTokenOrEOL();
-   if (tt == Token.EOL) {
-       hasEOL = true;
-       tt = peekToken();
-   }
+   tt = peekToken();
    if (Token.FIRST_ASSIGN <= tt && tt <= Token.LAST_ASSIGN) {
        consumeToken();

@@ -2198,9 +2103,6 @@ public class Parser
        if (currentJsDocComment != null) {
            pn.setJsDocNode(getAndResetJsDoc());
        }
-   } else if (!hasEOL && tt == Token.ARROW) {
-       consumeToken();
-       pn = arrowFunction(pn);
    }
    return pn;
}

@@ -2718,7 +2620,7 @@ public class Parser
    int maybeName = nextToken();
    if (maybeName != Token.NAME
        && !(compilerEnv.isReservedKeywordAsIdentifier()
-         && TokenStream.isKeyword(ts.getString(), compilerEnv.getLanguageVersion(),
inUseStrictDirective))) {
+         && TokenStream.isKeyword(ts.getString())) {
        reportError("msg.no.name.after.dot");
    }

@@ -2755,13 +2657,6 @@ public class Parser
    ref = attributeAccess();
    break;

-   case Token.RESERVED: {
-       String name = ts.getString();
-       saveNameTokenData(ts.tokenBeg, name, ts.lineno);
-       ref = propertyName(-1, name, memberTypeFlags);
-       break;
-   }
-
    default:
        if (compilerEnv.isReservedKeywordAsIdentifier()) {
            // allow keywords as property names, e.g. ({if: 1})
@@ -2921,53 +2816,39 @@ public class Parser

```

```

private AstNode primaryExpr()
    throws IOException
{
-   int ttFlagged = peekFlaggedToken();
+   int ttFlagged = nextFlaggedToken();
    int tt = ttFlagged & CLEAR_TI_MASK;

    switch(tt) {
        case Token.FUNCTION:
-            consumeToken();
            return function(FunctionNode.FUNCTION_EXPRESSION);

        case Token.LB:
-            consumeToken();
            return arrayLiteral();

        case Token.LC:
-            consumeToken();
            return objectLiteral();

        case Token.LET:
-            consumeToken();
            return let(false, ts.tokenBeg);

        case Token.LP:
-            consumeToken();
            return parenExpr();

        case Token.XMLATTR:
-            consumeToken();
            mustHaveXML();
            return attributeAccess();

        case Token.NAME:
-            consumeToken();
            return name(ttFlagged, tt);

        case Token.NUMBER: {
-            consumeToken();
            String s = ts.getString();
-            if (this.inUseStrictDirective && ts.isNumberOldOctal()) {
-                reportError("msg.no.old.octal.strict");
-            }
-            if (ts.isNumberBinary()) {
-                s = "0b"+s;
-            }
-            if (ts.isNumberOldOctal()) {
-                s = "0"+s;

```

```

+         if (this.inUseStrictDirective && ts.isNumberOctal()) {
+             reportError("msg.no.octal.strict");
+         }
+         if (ts.isNumberOctal()) {
-             s = "0o"+s;
+             s = "0"+s;
+         }
+         if (ts.isNumberHex()) {
+             s = "0x"+s;
@@ -2978,12 +2859,10 @@ public class Parser
    }

    case Token.STRING:
-        consumeToken();
        return createStringLiteral();

    case Token.DIV:
    case Token.ASSIGN_DIV:
-        consumeToken();
        // Got / or /= which in this context means a regexp
        ts.readRegExp(tt);
        int pos = ts.tokenBeg, end = ts.tokenEnd;
@@ -2996,35 +2875,26 @@ public class Parser
    case Token.THIS:
    case Token.FALSE:
    case Token.TRUE:
-        consumeToken();
        pos = ts.tokenBeg; end = ts.tokenEnd;
        return new KeywordLiteral(pos, end - pos, tt);

-    case Token.RP:
-        return new EmptyExpression();
-
    case Token.RESERVED:
-        consumeToken();
        reportError("msg.reserved.id");
        break;

    case Token.ERROR:
-        consumeToken();
        // the scanner or one of its subroutines reported the error.
        break;

    case Token.EOF:
-        consumeToken();
        reportError("msg.unexpected.eof");
        break;

```

```

    default:
-     consumeToken();
      reportError("msg.syntax");
      break;
    }
    // should only be reachable in IDE/error-recovery mode
-   consumeToken();
    return makeErrorNode();
  }

@@ -3047,10 +2917,6 @@ public class Parser
    pn.setJsDocNode(jsdocNode);
  }
  mustMatchToken(Token.RP, "msg.no.paren");
-  if (e.getType() == Token.EMPTY && peekToken() != Token.ARROW) {
-    reportError("msg.syntax");
-    return makeErrorNode();
-  }
  pn.setLength(ts.tokenEnd - pn.getPosition());
  pn.setLineno(lineno);
  return pn;
@@ -3182,7 +3048,6 @@ public class Parser
  if (nextToken() != Token.FOR) codeBug();
  int pos = ts.tokenBeg;
  int eachPos = -1, lp = -1, rp = -1, inPos = -1;
-  boolean isForIn = false, isForOf = false;
  ArrayComprehensionLoop pn = new ArrayComprehensionLoop(pos);

  pushScope(pn);
@@ -3220,23 +3085,8 @@ public class Parser
    defineSymbol(Token.LET, ts.getString(), true);
  }

-  switch (nextToken()) {
-  case Token.IN:
+  if (mustMatchToken(Token.IN, "msg.in.after.for.name"))
    inPos = ts.tokenBeg - pos;
-    isForIn = true;
-    break;
-  case Token.NAME:
-    if ("of".equals(ts.getString())) {
-      if (eachPos != -1) {
-        reportError("msg.invalid.for.each");
-      }
-      inPos = ts.tokenBeg - pos;
-      isForOf = true;
-      break;
-    }

```

```

-     default:
-         reportError("msg.in.after.for.name");
-     }
    AstNode obj = expr();
    if (mustMatchToken(Token.RP, "msg.no.paren.for.ctrl"))
        rp = ts.tokenBeg - pos;
@@ -3248,7 +3098,6 @@ public class Parser
    pn.setEachPosition(eachPos);
    pn.setIsForEach(eachPos != -1);
    pn.setParens(lp, rp);
-    pn.setIsForOf(isForOf);
    return pn;
} finally {
    popScope();
@@ -3345,10 +3194,9 @@ public class Parser
}
}

```

```

- private static final int PROP_ENTRY = 1;
- private static final int GET_ENTRY = 2;
- private static final int SET_ENTRY = 4;
- private static final int METHOD_ENTRY = 8;
+ private static final int PROP_ENTRY = 1;
+ private static final int GET_ENTRY = 2;
+ private static final int SET_ENTRY = 4;

```

```

private ObjectLiteral objectLiteral()
    throws IOException
@@ -3370,70 +3218,68 @@ public class Parser
    int entryKind = PROP_ENTRY;
    int tt = peekToken();
    Comment jsdocNode = getAndResetJsDoc();
+    switch(tt) {
+        case Token.NAME:
+            Name name = createNameNode();
+            propertyName = ts.getString();
+            int ppos = ts.tokenBeg;
+            consumeToken();

-    if (tt == Token.RC) {
-        if (afterComma != -1)
-            warnTrailingComma(pos, elems, afterComma);
-        break commaLoop;
-    } else {
-        AstNode pname = objliteralProperty();
-        if (pname == null) {
-            propertyName = null;
-            reportError("msg.bad.prop");

```



```

-     } else {
-         propertyName = ts.getString();
-         int ppos = ts.tokenBeg;
-         consumeToken();
+         // This code path needs to handle both destructuring object
+         // literals like:
+         // var {get, b} = {get: 1, b: 2};
+         // and getters like:
+         // var x = {get 1() { return 2; }};
+         // So we check a whitelist of tokens to check if we're at the
+         // first case. (Because of keywords, the second case may be
+         // many tokens.)
+         int peeked = peekToken();
+         boolean maybeGetterOrSetter =
+             "get".equals(propertyName)
+             || "set".equals(propertyName);
+         if (maybeGetterOrSetter
+             && peeked != Token.COMMA
+             && peeked != Token.COLON
+             && peeked != Token.RC)
+         {
+             boolean isGet = "get".equals(propertyName);
+             entryKind = isGet ? GET_ENTRY : SET_ENTRY;
+             AstNode pname = objliteralProperty();
+             if (pname == null) {
+                 propertyName = null;
+             } else {
+                 propertyName = ts.getString();
+                 ObjectProperty objectProp = getterSetterProperty(
+                     ppos, pname, isGet);
+                 pname.setJsDocNode(jsdocNode);
+                 elems.add(objectProp);
+             }
+         } else {
+             name.setJsDocNode(jsdocNode);
+             elems.add(plainProperty(name, tt));
+         }
+         break;

-         // This code path needs to handle both destructuring object
-         // literals like:
-         // var {get, b} = {get: 1, b: 2};
-         // and getters like:
-         // var x = {get 1() { return 2; }};
-         // So we check a whitelist of tokens to check if we're at the
-         // first case. (Because of keywords, the second case may be
-         // many tokens.)
-         int peeked = peekToken();

```

```

-         if (peeked != Token.COMMA
-             && peeked != Token.COLON
-             && peeked != Token.RC)
-         {
-             if (peeked == Token.LP) {
-                 entryKind = METHOD_ENTRY;
-             } else if (pname.getType() == Token.NAME) {
-                 if ("get".equals(propertyName)) {
-                     entryKind = GET_ENTRY;
-                 } else if ("set".equals(propertyName)) {
-                     entryKind = SET_ENTRY;
-                 }
-             }
-         }
-         if (entryKind == GET_ENTRY || entryKind == SET_ENTRY) {
-             pname = objliteralProperty();
-             if (pname == null) {
-                 reportError("msg.bad.prop");
-             }
-             consumeToken();
-         }
-         if (pname == null) {
-             propertyName = null;
-         } else {
-             propertyName = ts.getString();
-             ObjectProperty objectProp = methodDefinition(
-                 ppos, pname, entryKind);
-             pname.setJsDocNode(jsdocNode);
-             elems.add(objectProp);
-         }
-     } else {
-         pname.setJsDocNode(jsdocNode);
-         elems.add(plainProperty(pname, tt));
-     }
- }
+ case Token.RC:
+     if (afterComma != -1)
+         warnTrailingComma(pos, elems, afterComma);
+     break commaLoop;
+
+ default:
+     AstNode pname = objliteralProperty();
+     if (pname == null) {
+         propertyName = null;
+     } else {
+         propertyName = ts.getString();
+         pname.setJsDocNode(jsdocNode);
+         elems.add(plainProperty(pname, tt));
+     }

```

```

+         break;
    }

    if (this.inUseStrictDirective && propertyName != null) {
        switch (entryKind) {
            case PROP_ENTRY:
-           case METHOD_ENTRY:
                if (getterNames.contains(propertyName)
                    || setterNames.contains(propertyName)) {
                    addError("msg.dup.obj.lit.prop.strict", propertyName);
@@ -3495,14 +3341,16 @@ public class Parser

                default:
                    if (compilerEnv.isReservedKeywordAsIdentifier()
-                       && TokenStream.isKeyword(ts.getString(), compilerEnv.getLanguageVersion(),
inUseStrictDirective)) {
+                       && TokenStream.isKeyword(ts.getString())) {
                        // convert keyword to property name, e.g. ({if: 1})
                        pname = createNameNode();
                        break;
                    }
+                reportError("msg.bad.prop");
                return null;
            }

+        consumeToken();
        return pname;
    }

@@ -3530,7 +3378,8 @@ public class Parser
    return pn;
}

- private ObjectProperty methodDefinition(int pos, AstNode propName, int entryKind)
+ private ObjectProperty getterSetterProperty(int pos, AstNode propName,
+                                             boolean isGetter)
    throws IOException
    {
        FunctionNode fn = function(FunctionNode.FUNCTION_EXPRESSION);
@@ -3540,19 +3389,12 @@ public class Parser
        reportError("msg.bad.prop");
    }
    ObjectProperty pn = new ObjectProperty(pos);
-   switch (entryKind) {
-   case GET_ENTRY:
-       pn.setIsGetterMethod();
-       fn.setFunctionIsGetterMethod();
-       break;

```

```

- case SET_ENTRY:
-     pn.setIsSetterMethod();
-     fn.setFunctionIsSetterMethod();
-     break;
- case METHOD_ENTRY:
-     pn.setIsNormalMethod();
-     fn.setFunctionIsNormalMethod();
-     break;
+ if (isGetter) {
+     pn.setIsGetter();
+     fn.setFunctionIsGetter();
+ } else {
+     pn.setIsSetter();
+     fn.setFunctionIsSetter();
+ }
    int end = getNodeEnd(fn);
    pn.setLeft(propName);
@@ -3613,12 +3455,10 @@ public class Parser
    return;
}
boolean activation = false;
- if ("arguments".equals(name) &&
-     // An arrow function not generate arguments. So it not need activation.
-     ((FunctionNode)currentScriptOrFn).getFunctionType() != FunctionNode.ARROW_FUNCTION) {
-     activation = true;
- } else if (compilerEnv.getActivationNames() != null
-           && compilerEnv.getActivationNames().contains(name)) {
+ if ("arguments".equals(name)
+     || (compilerEnv.getActivationNames() != null
+         && compilerEnv.getActivationNames().contains(name)))
+ {
+     activation = true;
+ } else if ("length".equals(name)) {
+     if (token == Token.GETPROP
@@ -4035,11 +3875,11 @@ public class Parser
    int nodeType = left.getType();
    switch (nodeType) {
    case Token.NAME:
-     String name = ((Name) left).getIdentifier();
-     if (inUseStrictDirective &&
-         ("eval".equals(name) || "arguments".equals(name)))
+     "eval".equals(((Name) left).getIdentifier()))
+     {
warning: LF will be replaced by CRLF in src/org/mozilla/javascript/Parser.java.
The file will have its original line endings in your working directory.
-     reportError("msg.bad.id.strict", name);
+     reportError("msg.bad.id.strict",
+                 ((Name) left).getIdentifier());

```

```

    }
    left.setType(Token.BINDNAME);
    return new Node(Token.SETNAME, left, right);
@@ -4117,12 +3957,4 @@ public class Parser
    + ", ts.tokenBeg=" + ts.tokenBeg
    + ", currentToken=" + currentToken);
}

```

```

-
- public void setDefaultUseStrictDirective(boolean useStrict) {
-     defaultUseStrictDirective = useStrict;
- }
-
- public boolean inUseStrictDirective() {
-     return inUseStrictDirective;
- }
}

```

```

diff --git a/src/org/mozilla/javascript/ScriptRuntime.java b/src/org/mozilla/javascript/ScriptRuntime.java
index faca843..0b70e74 100644

```

```

--- a/src/org/mozilla/javascript/ScriptRuntime.java
+++ b/src/org/mozilla/javascript/ScriptRuntime.java
@@ -7,16 +7,21 @@
package org.mozilla.javascript;

```

```

import java.io.Serializable;
-import java.lang.reflect.*;
+import java.lang.reflect.Constructor;
+import java.lang.reflect.Method;
import java.text.MessageFormat;
+import java.util.ArrayList;
+import java.util.List;
import java.util.Locale;
import java.util.ResourceBundle;
+import java.util.Set;
+import java.util.TreeSet;

```

```

import org.mozilla.javascript.ast.FunctionNode;
import org.mozilla.javascript.v8dtoa.DoubleConversion;
import org.mozilla.javascript.v8dtoa.FastDtoa;
-import org.mozilla.javascript.xml.XMLObject;
import org.mozilla.javascript.xml.XMLLib;
+import org.mozilla.javascript.xml.XMLObject;

```

```

/**

```

```

 * This is the class that implements the runtime.

```

```

@@ -198,9 +203,6 @@ public class ScriptRuntime {

```

```

    NativeIterator.init(scope, sealed); // Also initializes NativeGenerator

```

```

-   NativeArrayIterator.init(scope, sealed);
-   NativeStringIterator.init(scope, sealed);
-
-   boolean withXml = cx.hasFeature(Context.FEATURE_E4X) &&
-       cx.getE4xImplementationFactory() != null;

@@ -218,10 +220,8 @@ public class ScriptRuntime {
    new LazilyLoadedCtor(scope, "QName", xmlImpl, sealed, true);
}

-   if (((cx.getLanguageVersion() >= Context.VERSION_1_8) &&
-       cx.hasFeature(Context.FEATURE_V8_EXTENSIONS)) ||
-       (cx.getLanguageVersion() >= Context.VERSION_ES6))
-   {
+   if (((cx.getLanguageVersion() >= Context.VERSION_1_8) &&
+       cx.hasFeature(Context.FEATURE_V8_EXTENSIONS)) {
    new LazilyLoadedCtor(scope, "ArrayBuffer",
        "org.mozilla.javascript.typedarrays.NativeArrayBuffer",
        sealed, true);
@@ -256,15 +256,7 @@ public class ScriptRuntime {
    "org.mozilla.javascript.typedarrays.NativeDataView",
    sealed, true);
}

-
-   if (cx.getLanguageVersion() >= Context.VERSION_ES6) {
-       new LazilyLoadedCtor(scope, NativeSymbol.CLASS_NAME,
-           NativeSymbol.class.getName(),
-           sealed, true);
-   }
-
-
+   if (scope instanceof TopLevel) {
+       ((TopLevel)scope).cacheBuiltins();
+   }
@@ -294,7 +286,7 @@ public class ScriptRuntime {

    return s;
}

-
+
static String[] getTopPackageNames() {
    // Include "android" top package if running on Android
    return "Dalvik".equals(System.getProperty("java.vm.name")) ?
@@ -784,7 +776,7 @@ public class ScriptRuntime {
    return (sb == null) ? s : sb.toString();
}

```

```

- static boolean isValidIdentifierName(String s, Context cx, boolean isStrict)
+ static boolean isValidIdentifierName(String s)
  {
    int L = s.length();
    if (L == 0)
@@ -795,7 +787,7 @@ public class ScriptRuntime {
    if (!Character.isJavaIdentifierPart(s.charAt(i)))
      return false;
  }
- return !TokenStream.isKeyword(s, cx.getLanguageVersion(), isStrict);
+ return !TokenStream.isKeyword(s);
  }

  public static CharSequence toCharSequence(Object val) {
@@ -815,7 +807,7 @@ public class ScriptRuntime {
    if (val == null) {
      return "null";
    }
-   if (val == Undefined.instance || val == Undefined.SCRIPTABLE_UNDEFINED) {
+   if (val == Undefined.instance) {
      return "undefined";
    }
    if (val instanceof String) {
@@ -842,10 +834,6 @@ public class ScriptRuntime {

    static String defaultObjectToString(Scriptable obj)
    {
-   if (obj == null)
-     return "[object Null]";
-   if (Undefined.isUndefined(obj))
-     return "[object Undefined]";
    return "[object " + obj.getClassName() + ']';
  }

@@ -978,7 +966,7 @@ public class ScriptRuntime {
    continue; // a property has been removed
    if (i > 0)
      result.append(", ");
-   if (ScriptRuntime.isValidIdentifierName(strId, cx, cx.isStrictMode())) {
+   if (ScriptRuntime.isValidIdentifierName(strId)) {
      result.append(strId);
    } else {
      result.append("\");
@@ -1035,7 +1023,10 @@ public class ScriptRuntime {
    public static Scriptable toObjectOrNull(Context cx, Object obj,
      Scriptable scope)
    {

```

```

-   if (obj instanceof Scriptable) {
+   if (obj instanceof Delegator) {
+   return ((Delegator) obj).getDelegee();
+   }
+   else if (obj instanceof Scriptable) {
+       return (Scriptable)obj;
+   } else if (obj != null && obj != Undefined.instance) {
+       return toObject(cx, scope, obj);
@@ -2108,7 +2099,7 @@ public class ScriptRuntime {
    ObjToIntMap used;
    Object currentId;
    int enumType; /* one of ENUM_INIT_KEYS, ENUM_INIT_VALUES,
-       ENUM_INIT_ARRAY, ENUMERATE_VALUES_IN_ORDER */
+       ENUM_INIT_ARRAY */

    // if true, integer ids will be returned as numbers rather than strings
    boolean enumNumbers;
@@ -2157,7 +2148,6 @@ public class ScriptRuntime {
    public static final int ENUMERATE_KEYS_NO_ITERATOR = 3;
    public static final int ENUMERATE_VALUES_NO_ITERATOR = 4;
    public static final int ENUMERATE_ARRAY_NO_ITERATOR = 5;
-   public static final int ENUMERATE_VALUES_IN_ORDER = 6;

    /**
     * @deprecated Use {@link #enumInit(Object, Context, Scriptable, int)} instead
@@ -2173,12 +2163,6 @@ public class ScriptRuntime {
    {
        IdEnumeration x = new IdEnumeration();
        x.obj = toObjectOrNull(cx, value, scope);
-       // "for of" loop
-       if (enumType == ENUMERATE_VALUES_IN_ORDER) {
-           x.enumType = enumType;
-           x.iterator = null;
-           return enumInitInOrder(cx, x);
-       }
        if (x.obj == null) {
            // null or undefined do not cause errors but rather lead to empty
            // "for in" loop
@@ -2202,25 +2186,6 @@ public class ScriptRuntime {
        return x;
    }

-   private static Object enumInitInOrder(Context cx, IdEnumeration x) {
-       if (x.obj == null || !ScriptableObject.hasProperty(x.obj, NativeSymbol.ITERATOR_PROPERTY)) {
-           throw TypeError1("msg.not.iterable", toString(x.obj));
-       }
-       Object iterator = ScriptableObject.getProperty(x.obj, NativeSymbol.ITERATOR_PROPERTY);
-       if (!(iterator instanceof Callable)) {

```



```

-     throw TypeError1("msg.not.iterable", toString(x.obj));
-   }
-   Callable f = (Callable) iterator;
-   Scriptable scope = x.obj.getParentScope();
-   Object[] args = new Object[] { };
-   Object v = f.call(cx, scope, x.obj, args);
-   if (!(v instanceof Scriptable)) {
-     throw TypeError1("msg.not.iterable", toString(x.obj));
-   }
-   x.iterator = (Scriptable) v;
-   return x;
- }
-
public static void setEnumNumbers(Object enumObj, boolean enumNumbers) {
  ((IdEnumeration)enumObj).enumNumbers = enumNumbers;
}
@@ -2229,9 +2194,6 @@ public class ScriptRuntime {
{
  IdEnumeration x = (IdEnumeration)enumObj;
  if (x.iterator != null) {
-   if (x.enumType == ENUMERATE_VALUES_IN_ORDER) {
-     return enumNextInOrder(x);
-   }
  Object v = ScriptableObject.getProperty(x.iterator, "next");
  if (!(v instanceof Callable))
    return Boolean.FALSE;
@@ -2243,7 +2205,7 @@ public class ScriptRuntime {
  return Boolean.TRUE;
} catch (JavaScriptException e) {
  if (e.getValue() instanceof NativeIterator.StopIteration) {
-   return Boolean.FALSE;
+   return Boolean.FALSE;
  }
  throw e;
}
@@ -2277,25 +2239,6 @@ public class ScriptRuntime {
}
}

- private static Boolean enumNextInOrder(IdEnumeration enumObj)
- {
-   Object v = ScriptableObject.getProperty(enumObj.iterator, ES6Iterator.NEXT_METHOD);
-   if (!(v instanceof Callable)) {
-     throw notFunctionError(enumObj.iterator, ES6Iterator.NEXT_METHOD);
-   }
-   Callable f = (Callable) v;
-   Context cx = Context.getContext();
-   Scriptable scope = enumObj.iterator.getParentScope();

```

```

-   Object r = f.call(cx, scope, enumObj.iterator, emptyArgs);
-   Scriptable iteratorResult = toObject(cx, scope, r);
-   Object done = ScriptableObject.getProperty(iteratorResult, ES6Iterator.DONE_PROPERTY);
-   if (done != ScriptableObject.NOT_FOUND && toBoolean(done)) {
-       return Boolean.FALSE;
-   }
-   enumObj.currentId = ScriptableObject.getProperty(iteratorResult, ES6Iterator.VALUE_PROPERTY);
-   return Boolean.TRUE;
- }
-
public static Object enumId(Object enumObj, Context cx)
{
    IdEnumeration x = (IdEnumeration)enumObj;
@@ -2354,6 +2297,24 @@ public class ScriptRuntime {
        x.used.intern(previous[i]);
    }
}
+   if (ids != null &&
Context.getCurrentContext().hasFeature(Context.FEATURE_HTMLUNIT_ENUM_NUMBERS_FIRST)) {
+       Set<Integer> integers = new TreeSet<Integer>();
+       List<Object> others = new ArrayList<Object>();
+       for (Object o : ids) {
+           if (o instanceof Integer) {
+               integers.add((Integer) o);
+           }
+           else {
+               others.add(o);
+           }
+       }
+       if (!integers.isEmpty()) {
+           Object[] newIds = new Object[ids.length];
+           System.arraycopy(integers.toArray(), 0, newIds, 0, integers.size());
+           System.arraycopy(others.toArray(), 0, newIds, integers.size(), others.size());
+           ids = newIds;
+       }
+   }
    x.ids = ids;
    x.index = 0;
}
@@ -2369,6 +2330,9 @@ public class ScriptRuntime {
        Context cx,
        Scriptable scope)
    {
+       if ("eval".equals(name)) {
+           lastEvalTopCalled_ = true;
+       }
        Scriptable parent = scope.getParentScope();
        if (parent == null) {

```

```

        Object result = topScopeName(cx, scope, name);
@@ -2466,6 +2430,9 @@ public class ScriptRuntime {
            String property,
            Context cx, Scriptable scope)
    {
+   if ("eval".equals(property)) {
+       lastEvalTopCalled_ = false;
+   }
        Scriptable thisObj = toObjectOrNull(cx, obj, scope);
        return getPropFunctionAndThisHelper(obj, property, cx, thisObj);
    }
@@ -2568,6 +2535,18 @@ public class ScriptRuntime {
    return function.construct(cx, scope, args);
}

+ /**
+  * This indicates whether last call of "eval" was at the top scope (i.e. "eval()")
+  * or not (i.e. "scope.eval()"), as each one has different behavior.
+  *
+  * Ideally, we should have "eval" at top scope and we use Context.FEATURE_DYNAMIC_SCOPE,
+  * but it will complex the code.
+  *
+  * The current implementation sets this value to true when "eval" is called, and
+  * false on "something.eval()"
+  */
+ private static boolean lastEvalTopCalled_;
+
    public static Object callSpecial(Context cx, Callable fun,
        Scriptable thisObj,
        Object[] args, Scriptable scope,
@@ -2576,6 +2555,12 @@ public class ScriptRuntime {
    {
        if (callType == Node.SPECIALCALL_EVAL) {
            if (thisObj.getParentScope() == null && NativeGlobal.isEvalFunction(fun)) {
+               final boolean isNative = scope instanceof NativeCall;
+               final boolean hasFeature = cx.hasFeature(Context.FEATURE_HTMLUNIT_EVAL_LOCAL_SCOPE);
+
                if (!lastEvalTopCalled_ && (!hasFeature || !isNative)) {
                    scope = thisObj;
                }
                return evalSpecial(cx, scope, callerThis, args,
                    filename, lineNumber);
            }
        }
@@ -2624,14 +2609,11 @@ public class ScriptRuntime {

        Scriptable callThis = null;
        if (L != 0) {
-           if (cx.hasFeature(Context.FEATURE_OLD_UNDEF_NULL_THIS)) {

```

```

-         callThis = toObjectOrNull(cx, args[0], scope);
-     } else {
-         callThis = args[0] == Undefined.instance ? Undefined.SCRIPTABLE_UNDEFINED :
toObjectOrNull(cx, args[0], scope);
-     }
+     callThis = toObjectOrNull(cx, args[0], scope);
    }
-     if (callThis == null && cx.hasFeature(Context.FEATURE_OLD_UNDEF_NULL_THIS)) {
-         callThis = getTopCallScope(cx); // This covers the case of args[0] == (null|undefined) as well.
+     if (callThis == null) {
+         // This covers the case of args[0] == (null|undefined) as well.
+         callThis = getTopCallScope(cx);
    }

```

```
Object[] callArgs;
```

```

@@ -2656,7 +2638,7 @@ public class ScriptRuntime {
    {
        if (arg1 == null || arg1 == Undefined.instance) {
            return ScriptRuntime.emptyArgs;
-        } else if (arg1 instanceof NativeArray || arg1 instanceof Arguments) {
+        } else if (arg1 instanceof Scriptable) {
            return cx.getElements((Scriptable) arg1);
        } else {
            throw ScriptRuntime.typeError0("msg.arg.isnt.array");

```

```

@@ -2741,6 +2723,8 @@ public class ScriptRuntime {
    return "undefined";
    if (value instanceof ScriptableObject)
        return ((ScriptableObject) value).getTypeOf();
+    if (value instanceof Delegator)
+        return typeof(((Delegator) value).getDelegee());
    if (value instanceof Scriptable)
        return (value instanceof Callable) ? "function" : "object";
    if (value instanceof CharSequence)

```

```

@@ -2749,6 +2733,10 @@ public class ScriptRuntime {
    return "number";
    if (value instanceof Boolean)
        return "boolean";
+    if (value instanceof MemberBox)
+        return typeof(((MemberBox) value).member());
+    if (value instanceof Method)
+        return "function";
    throw errorWithClassName("msg.invalid.type", value);
    }

```

```

@@ -3171,9 +3159,7 @@ public class ScriptRuntime {
    double d = ((Number)x).doubleValue();
    return d == d;
    }

```

```

-   if (x == null || x == Undefined.instance || x == Undefined.SCRIPTABLE_UNDEFINED) {
-       if ((x == Undefined.instance && y == Undefined.SCRIPTABLE_UNDEFINED)
-           || (x == Undefined.SCRIPTABLE_UNDEFINED && y == Undefined.instance)) return true;
+   if (x == null || x == Undefined.instance) {
+       return false;
+   } else if (x instanceof Number) {
+       if (y instanceof Number) {
@@ -3191,6 +3177,15 @@ public class ScriptRuntime {
+       if (x instanceof Wrapper && y instanceof Wrapper) {
+           return ((Wrapper)x).unwrap() == ((Wrapper)y).unwrap();
+       }
+   if (x instanceof Delegator && y instanceof Delegator) {
+       return shallowEq(((Delegator)x).getDelegee(), ((Delegator)y).getDelegee());
+   }
+   if (x instanceof Delegator && ((Delegator)x).getDelegee() == y) {
+       return true;
+   }
+   if (y instanceof Delegator && ((Delegator)y).getDelegee() == x) {
+       return true;
+   }
+   } else {
+       warnAboutNonJSObject(x);
+       return x == y;
@@ -3334,20 +3329,10 @@ public class ScriptRuntime {
+       return scope;
+   }

- /**
-  * @deprecated Use {@link #doTopCall(Callable, Context, Scriptable, Scriptable, Object[], boolean)} instead
-  */
+ public static Object doTopCall(Callable callable,
+                               Context cx, Scriptable scope,
+                               Scriptable thisObj, Object[] args)
+ {
-   return doTopCall(callable, cx, scope, thisObj, args, cx.isTopLevelStrict);
- }
-
- public static Object doTopCall(Callable callable,
-                               Context cx, Scriptable scope,
-                               Scriptable thisObj, Object[] args, boolean isTopLevelStrict)
- {
+   if (scope == null)
+       throw new IllegalArgumentException();
+   if (cx.topCallScope != null) throw new IllegalStateException();
@@ -3355,8 +3340,6 @@ public class ScriptRuntime {
+   Object result;
+   cx.topCallScope = ScriptableObject.getTopLevelScope(scope);
+   cx.useDynamicScope = cx.hasFeature(Context.FEATURE_DYNAMIC_SCOPE);

```

```

-   boolean previousTopLevelStrict = cx.isTopLevelStrict;
-   cx.isTopLevelStrict = isTopLevelStrict;
ContextFactory f = cx.getFactory();
try {
    result = f.doTopCall(callable, cx, scope, thisObj, args);
@@ -3364,7 +3347,6 @@ public class ScriptRuntime {
    cx.topCallScope = null;
    // Cleanup cached references
    cx.cachedXMLLib = null;
-   cx.isTopLevelStrict = previousTopLevelStrict;

    if (cx.currentActivationCall != null) {
        // Function should always call exitActivationFunction
@@ -3433,13 +3415,27 @@ public class ScriptRuntime {
    // Don't overwrite existing def if already defined in object
    // or prototypes of object.
    if (!ScriptableObject.hasProperty(scope, name)) {
-   if (isConst) {
-       ScriptableObject.defineConstProperty(varScope, name);
-   } else if (!evalScript) {
+   if (!evalScript) {
        // Global var definitions are supposed to be DONTDELETE
-       ScriptableObject.defineProperty(
-           varScope, name, Undefined.instance,
-           ScriptableObject.PERMANENT);
+       if (isConst)
+           ScriptableObject.defineConstProperty(varScope, name);
+       else {
+           boolean define = true;
+           if (funObj instanceof InterpretedFunction) {
+               InterpreterData idata = ((InterpretedFunction) funObj).idata;
+               for (int f = 0; f < idata.getFunctionCount(); f++) {
+                   if (name.equals(idata.getFunction(f).getFunctionName())) {
+                       define = false;
+                       break;
+                   }
+               }
+           }
+           if (define) {
+               ScriptableObject.defineProperty(
+                   varScope, name, Undefined.instance,
+                   ScriptableObject.PERMANENT);
+           }
+       }
+   } else {
        varScope.put(name, varScope, Undefined.instance);
    }
@@ -3450,32 +3446,13 @@ public class ScriptRuntime {

```

```

    }
}

- /**
-  * @deprecated Use {@link #createFunctionActivation(NativeFunction, Scriptable, Object[], boolean)} instead
-  */
- @Deprecated
public static Scriptable createFunctionActivation(NativeFunction funObj,
                                                Scriptable scope,
                                                Object[] args)
{
-   return createFunctionActivation(funObj, scope, args, false);
+   return new NativeCall(funObj, scope, args);
}

- public static Scriptable createFunctionActivation(NativeFunction funObj,
-                                                 Scriptable scope,
-                                                 Object[] args,
-                                                 boolean isStrict)
- {
-   return new NativeCall(funObj, scope, args, false, isStrict);
- }
-
- public static Scriptable createArrowFunctionActivation(NativeFunction funObj,
-                                                       Scriptable scope,
-                                                       Object[] args,
-                                                       boolean isStrict)
- {
-   return new NativeCall(funObj, scope, args, true, isStrict);
- }

public static void enterActivationFunction(Context cx,
                                         Scriptable scope)
@@ -3485,7 +3462,6 @@ public class ScriptRuntime {
    NativeCall call = (NativeCall)scope;
    call.parentActivationCall = cx.currentActivationCall;
    cx.currentActivationCall = call;
-   call.defineAttributesForArguments();
}

public static void exitActivationFunction(Context cx)
@@ -3841,7 +3817,7 @@ public class ScriptRuntime {
    ++skip;
    continue;
}
-   array.put(i, array, objects[j]);
+   ScriptableObject.putProperty(array, i, objects[j]);
    ++j;

```

```

    }
    return array;
@@ -4091,20 +4067,24 @@ public class ScriptRuntime {

    public static RuntimeException undefReadError(Object object, Object id)
    {
-   return typeError2("msg.undef.prop.read", toString(object), toString(id));
+   final String idStr = toString(id);
+   return typeError2("msg.undef.prop.read", toString(object), idStr);
    }

    public static RuntimeException undefCallError(Object object, Object id)
    {
-   return typeError2("msg.undef.method.call", toString(object), toString(id));
+   final String idStr = toString(id);
+   return typeError2("msg.undef.method.call", toString(object), idStr);
    }

    public static RuntimeException undefWriteError(Object object,
                                                Object id,
                                                Object value)
    {
-   return typeError3("msg.undef.prop.write", toString(object), toString(id),
-                   toString(value));
+   final String idStr = toString(id);
+   final String valueStr = toString(value);
+   return typeError3("msg.undef.prop.write", toString(object), idStr,
+                   valueStr);
    }

    private static RuntimeException undefDeleteError(Object object, Object id)
@@ -4372,4 +4352,12 @@ public class ScriptRuntime {
    public static final String[] emptyStrings = new String[0];

+   public static Scriptable requireObjectCoercible(Scriptable val, IdFunctionObject idFuncObj) {
+   Scriptable val1 = val.getParentScope() != null ? val : null;
+   if (val1 == null || val1 == Undefined.instance)
+   throw ScriptRuntime.typeError2("msg.called.null.or.undefined", idFuncObj.getTag(),
idFuncObj.getFunctionName());
+
+   return val1;
+   }
+
}
diff --git a/src/org/mozilla/javascript/ScriptRuntimeES6.java b/src/org/mozilla/javascript/ScriptRuntimeES6.java
deleted file mode 100644
index c7614e6..0000000

```



```

--- a/src/org/mozilla/javascript/ScriptRuntimeES6.java
+++ /dev/null
@@ -1,17 +0,0 @@
-/* -*- Mode: java; tab-width: 8; indent-tabs-mode: nil; c-basic-offset: 4 -*-
- *
- * This Source Code Form is subject to the terms of the Mozilla Public
- * License, v. 2.0. If a copy of the MPL was not distributed with this
- * file, You can obtain one at http://mozilla.org/MPL/2.0/. */
-
-package org.mozilla.javascript;
-
-public class ScriptRuntimeES6 {
-
-    public static Scriptable requireObjectCoercible(Context cx, Scriptable val, IdFunctionObject idFuncObj) {
-        if (val == null || Undefined.isUndefined(val)) {
-            throw ScriptRuntime.typeError2("msg.called.null.or.undefined", idFuncObj.getTag(),
idFuncObj.getFunctionName());
-        }
-        return val;
-    }
-}
diff --git a/src/org/mozilla/javascript/ScriptableObject.java b/src/org/mozilla/javascript/ScriptableObject.java
index 46fe810..5218a68 100644
--- a/src/org/mozilla/javascript/ScriptableObject.java
+++ b/src/org/mozilla/javascript/ScriptableObject.java
@@ -19,8 +19,6 @@ import java.lang.reflect.InvocationTargetException;
import java.lang.reflect.Member;
import java.lang.reflect.Method;
import java.lang.reflect.Modifier;
- import java.util.Arrays;
- import java.util.Comparator;
import java.util.HashMap;
import java.util.HashSet;
import java.util.Map;
@@ -176,10 +174,6 @@ public abstract class ScriptableObject implements Scriptable, Serializable,

    boolean setValue(Object value, Scriptable owner, Scriptable start) {
        if ((attributes & READONLY) != 0) {
-            Context cx = Context.getContext();
-            if (cx.isStrictMode()) {
-                throw ScriptRuntime.typeError1("msg.modify.readonly", name);
-            }
            return true;
        }
        if (owner == start) {
@@ -248,9 +242,6 @@ public abstract class ScriptableObject implements Scriptable, Serializable,
        ScriptRuntime.setBuiltinProtoAndParent(desc, scope, TopLevel.Builtins.Object);
        desc.defineProperty("enumerable", (attr & DONTENUM) == 0, EMPTY);

```

```

desc.defineProperty("configurable", (attr & PERMANENT) == 0, EMPTY);
-   if (getter == null && setter == null) {
-       desc.defineProperty("writable", (attr & READONLY) == 0, EMPTY);
-   }
    if (getter != null) desc.defineProperty("get", getter, EMPTY);
    if (setter != null) desc.defineProperty("set", setter, EMPTY);
    return desc;
@@ -260,16 +251,33 @@ public abstract class ScriptableObject implements Scriptable, Serializable,
    boolean setValue(Object value, Scriptable owner, Scriptable start) {
        if (setter == null) {
            if (getter != null) {
-                Context cx = Context.getContext();
-                if (cx.isStrictMode() ||
+                if (Context.getContext().hasFeature(Context.FEATURE_STRICT_MODE)) {
                    // Based on TC39 ES3.1 Draft of 9-Feb-2009, 8.12.4, step 2,
                    // we should throw a TypeError in this case.
-                cx.hasFeature(Context.FEATURE_STRICT_MODE)) {
-                throw ScriptRuntime.typeError1("msg.set.prop.no.setter", name);
+                throw ScriptRuntime.typeError3("msg.set.prop.no.setter", name, start.getClassName(),
Context.toString(value));
+                }
+                if
(Context.getContext().hasFeature(Context.FEATURE_HTMLUNIT_ASK_OBJECT_TO_WRITE_READONLY))
{
+                Scriptable scriptable = start;
+
+                if (scriptable instanceof Delegator) {
+                    scriptable = ((Delegator) scriptable).getDeleegee();
+                }
+
+                if (scriptable instanceof ScriptableObject) {
+                    boolean allowSetting = ((ScriptableObject) scriptable).isReadOnlySettable(name, value);
+                    if (!allowSetting) {
+                        return true;
+                    }
+                }
+                if (owner == start) {
+                    getter = null;
+                }
+            }
+            else {
+                // Based on TC39 ES3.1 Draft of 9-Feb-2009, 8.12.4, step 2,
+                // we should throw a TypeError in this case.
+                throw ScriptRuntime.typeError3("msg.set.prop.no.setter", name, start.getClassName(),
Context.toString(value));
            }
-            // Assignment to a property with only a getter defined. The
-            // assignment is ignored. See bug 478047.

```

```

-         return true;
-     }
-     } else {
-         Context cx = Context.getContext();
@@ -2274,6 +2282,10 @@ public abstract class ScriptableObject implements Scriptable, Serializable,
-     */
-     public static Object getProperty(Scriptable obj, String name)
-     {
+     if ("constructor".equals(name) && !(obj instanceof IdScriptableObject)
+         && !Context.getContext().hasFeature(Context.FEATURE_HTMLUNIT_CONSTRUCTOR)) {
+         return NOT_FOUND;
+     }
-     Scriptable start = obj;
-     Object result;
-     do {
@@ -2720,12 +2732,6 @@ public abstract class ScriptableObject implements Scriptable, Serializable,
-     {
-         // This method is very hot (basically called on each assignment)
-         // so we inline the extensible/sealed checks below.
-         if (!isExtensible) {
-             Context cx = Context.getContext();
-             if (cx.isStrictMode()) {
-                 throw ScriptRuntime.typeError0("msg.not.extensible");
-             }
-         }
-     }
-     Slot slot;
-     if (this != start) {
-         slot = getSlot(name, index, SLOT_QUERY);
@@ -2760,12 +2766,6 @@ public abstract class ScriptableObject implements Scriptable, Serializable,
-         Object value, int constFlag)
-     {
-         assert (constFlag != EMPTY);
-         if (!isExtensible) {
-             Context cx = Context.getContext();
-             if (cx.isStrictMode()) {
-                 throw ScriptRuntime.typeError0("msg.not.extensible");
-             }
-         }
-     }
-     Slot slot;
-     if (this != start) {
-         slot = getSlot(name, index, SLOT_QUERY);
@@ -2977,15 +2977,7 @@ public abstract class ScriptableObject implements Scriptable, Serializable,
-         prev = slot;
-         slot = slot.next;
-     }
-     if (slot != null) {
-         // non-configurable
-         if ((slot.getAttributes() & PERMANENT) != 0) {

```

```

-         Context cx = Context.getContext();
-         if (cx.isStrictMode()) {
-             throw ScriptRuntime.typeError1("msg.delete.property.with.configurable.false", name);
-         }
-         return;
-     }
+     if (slot != null && (slot.getAttributes() & PERMANENT) == 0) {
+         count--;
+         // remove slot from hash table
+         if (prev == slot) {
@@ -3120,13 +3112,6 @@ public abstract class ScriptableObject implements Scriptable, Serializable,
    }
    Object[] result = new Object[c];
    System.arraycopy(a, 0, result, 0, c);
-
-     Context cx = Context.getCurrentContext();
-     if ((cx != null) && cx.hasFeature(Context.FEATURE_ENUMERATE_IDS_FIRST)) {
-         // Move all the numeric IDs to the front in numeric order
-         Arrays.sort(result, KEY_COMPARATOR);
-     }
-
-     return result;
    }

@@ -3245,38 +3230,20 @@ public abstract class ScriptableObject implements Scriptable, Serializable,
    }
}

- private static final Comparator<Object> KEY_COMPARATOR = new KeyComparator();
-
- /**
-  * This comparator sorts property fields in spec-compliant order. Numeric ids first, in numeric
-  * order, folowed by string ids, in insertion order. Since this class already keeps string keys
-  * in insertion-time order, we treat all as equal. The "Arrays.sort" method will then not
-  * change their order, but simply move all the numeric properties to the front.
+  * Special to HtmlUnit's Rhino fork.
+  *
+  * Decides what to do when setting a ReadOnly property.
+  * The SimpleScriptable can return <tt>>true<tt> for allowing to value to be set, <tt>>false<tt> for not allowing
  * (ignoring),
+  * or can simply throw { @link ScriptRuntime#typeError3(String, String, String, String)} with
+  * "msg.set.prop.no.setter", name, this.getClassName() and Context.toString(value).
+  *
+  * By default, this method returns <tt>>true<tt>
+  * @param name the property name
+  * @param value the value
+  * @return <tt>>true<tt> for allowing setting the value, <tt>>false<tt> for ignoring the setting, or we can throw an
  * exception

```

```

*/
- private static final class KeyComparator
-     implements Comparator<Object>
- {
-     @Override
-     public int compare(Object o1, Object o2)
-     {
-         if (o1 instanceof Integer) {
-             if (o2 instanceof Integer) {
-                 int i1 = (Integer) o1;
-                 int i2 = (Integer) o2;
-                 if (i1 < i2) {
-                     return -1;
-                 }
-                 if (i1 > i2) {
-                     return 1;
-                 }
-                 return 0;
-             }
-             return -1;
-         }
-         if (o2 instanceof Integer) {
-             return 1;
-         }
-         return 0;
-     }
+ protected boolean isReadOnlySettable(final String name, final Object value) {
+     return true;
+ }
}

```

```

diff --git a/src/org/mozilla/javascript/Token.java b/src/org/mozilla/javascript/Token.java
index 4559262..3dbfd49 100644

```

```

--- a/src/org/mozilla/javascript/Token.java

```

```

+++ b/src/org/mozilla/javascript/Token.java

```

```

@@ -102,136 +102,133 @@ public class Token

```

```

    ENUM_INIT_KEYS = 58,
    ENUM_INIT_VALUES = 59,
    ENUM_INIT_ARRAY = 60,
-   ENUM_INIT_VALUES_IN_ORDER = 61,
-   ENUM_NEXT = 62,
-   ENUM_ID = 63,
-   THISFN = 64,
-   RETURN_RESULT = 65, // to return previously stored return result
-   ARRAYLIT = 66, // array literal
-   OBJECTLIT = 67, // object literal
-   GET_REF = 68, // *reference
-   SET_REF = 69, // *reference = something
-   DEL_REF = 70, // delete reference

```

```

- REF_CALL    = 71, // f(args) = something or f(args)++
- REF_SPECIAL = 72, // reference for special properties like __proto
- YIELD      = 73, // JS 1.7 yield pseudo keyword
- STRICT_SETNAME = 74,
+ ENUM_NEXT  = 61,
+ ENUM_ID    = 62,
+ THISFN     = 63,
+ RETURN_RESULT = 64, // to return previously stored return result
+ ARRAYLIT   = 65, // array literal
+ OBJECTLIT  = 66, // object literal
+ GET_REF    = 67, // *reference
+ SET_REF    = 68, // *reference = something
+ DEL_REF    = 69, // delete reference
+ REF_CALL    = 70, // f(args) = something or f(args)++
+ REF_SPECIAL = 71, // reference for special properties like __proto
+ YIELD      = 72, // JS 1.7 yield pseudo keyword
+ STRICT_SETNAME = 73,

```

```
// For XML support:
```

```

- DEFAULTNAMESPACE = 75, // default xml namespace =
- ESCXMLATTR      = 76,
- ESCXMLTEXT      = 77,
- REF_MEMBER      = 78, // Reference for x.@y, x.y etc.
- REF_NS_MEMBER   = 79, // Reference for x.ns::y, x.ns::y etc.
- REF_NAME        = 80, // Reference for @y, @[y] etc.
- REF_NS_NAME     = 81; // Reference for ns::y, @ns::y@[y] etc.
+ DEFAULTNAMESPACE = 74, // default xml namespace =
+ ESCXMLATTR      = 75,
+ ESCXMLTEXT      = 76,
+ REF_MEMBER      = 77, // Reference for x.@y, x.y etc.
+ REF_NS_MEMBER   = 78, // Reference for x.ns::y, x.ns::y etc.
+ REF_NAME        = 79, // Reference for @y, @[y] etc.
+ REF_NS_NAME     = 80; // Reference for ns::y, @ns::y@[y] etc.

```

```
// End of interpreter bytecodes
```

```
public final static int
```

```
    LAST_BYTECODE_TOKEN = REF_NS_NAME,
```

```

- TRY        = 82,
- SEMI      = 83, // semicolon
- LB        = 84, // left and right brackets
- RB        = 85,
- LC        = 86, // left and right curlies (braces)
- RC        = 87,
- LP        = 88, // left and right parentheses
- RP        = 89,
- COMMA     = 90, // comma operator
+ TRY        = 81,

```

```

+ SEMI      = 82, // semicolon
+ LB        = 83, // left and right brackets
+ RB        = 84,
+ LC        = 85, // left and right curlies (braces)
+ RC        = 86,
+ LP        = 87, // left and right parentheses
+ RP        = 88,
+ COMMA     = 89, // comma operator

- ASSIGN    = 91, // simple assignment (=)
- ASSIGN_BITOR = 92, // |=
- ASSIGN_BITXOR = 93, // ^=
- ASSIGN_BITAND = 94, // |=
- ASSIGN_LSH  = 95, // <<=
- ASSIGN_RSH  = 96, // >>=
- ASSIGN_URSH = 97, // >>>=
- ASSIGN_ADD  = 98, // +=
- ASSIGN_SUB  = 99, // -=
- ASSIGN_MUL  = 100, // *=
- ASSIGN_DIV  = 101, // /=
- ASSIGN_MOD  = 102; // %=
+ ASSIGN    = 90, // simple assignment (=)
+ ASSIGN_BITOR = 91, // |=
+ ASSIGN_BITXOR = 92, // ^=
+ ASSIGN_BITAND = 93, // |=
+ ASSIGN_LSH  = 94, // <<=
+ ASSIGN_RSH  = 95, // >>=
+ ASSIGN_URSH = 96, // >>>=
+ ASSIGN_ADD  = 97, // +=
+ ASSIGN_SUB  = 98, // -=
+ ASSIGN_MUL  = 99, // *=
+ ASSIGN_DIV  = 100, // /=
+ ASSIGN_MOD  = 101; // %=

```

```
public final static int
```

```

    FIRST_ASSIGN = ASSIGN,
    LAST_ASSIGN  = ASSIGN_MOD,

```

```

- HOOK      = 103, // conditional (?)
- COLON     = 104,
- OR        = 105, // logical or (||)
- AND       = 106, // logical and (&&)
- INC       = 107, // increment/decrement (++ --)
- DEC       = 108,
- DOT       = 109, // member operator (.)
- FUNCTION  = 110, // function keyword
- EXPORT    = 111, // export keyword
- IMPORT    = 112, // import keyword

```

```

- IF      = 113, // if keyword
- ELSE   = 114, // else keyword
- SWITCH = 115, // switch keyword
- CASE   = 116, // case keyword
- DEFAULT = 117, // default keyword
- WHILE  = 118, // while keyword
- DO     = 119, // do keyword
- FOR    = 120, // for keyword
- BREAK  = 121, // break keyword
- CONTINUE = 122, // continue keyword
- VAR    = 123, // var keyword
- WITH   = 124, // with keyword
- CATCH  = 125, // catch keyword
- FINALLY = 126, // finally keyword
- VOID   = 127, // void keyword
- RESERVED = 128, // reserved keywords
+ HOOK   = 102, // conditional (?)
+ COLON  = 103,
+ OR     = 104, // logical or (||)
+ AND    = 105, // logical and (&&)
+ INC    = 106, // increment/decrement (++ --)
+ DEC    = 107,
+ DOT    = 108, // member operator (.)
+ FUNCTION = 109, // function keyword
+ EXPORT = 110, // export keyword
+ IMPORT = 111, // import keyword
+ IF     = 112, // if keyword
+ ELSE   = 113, // else keyword
+ SWITCH = 114, // switch keyword
+ CASE   = 115, // case keyword
+ DEFAULT = 116, // default keyword
+ WHILE  = 117, // while keyword
+ DO     = 118, // do keyword
+ FOR    = 119, // for keyword
+ BREAK  = 120, // break keyword
+ CONTINUE = 121, // continue keyword
+ VAR    = 122, // var keyword
+ WITH   = 123, // with keyword
+ CATCH  = 124, // catch keyword
+ FINALLY = 125, // finally keyword
+ VOID   = 126, // void keyword
+ RESERVED = 127, // reserved keywords

- EMPTY  = 129,
+ EMPTY  = 128,

```

/* types used for the parse tree - these never get returned

* by the scanner.


```

*/

- BLOCK      = 130, // statement block
- LABEL      = 131, // label
- TARGET     = 132,
- LOOP       = 133,
- EXPR_VOID  = 134, // expression statement in functions
- EXPR_RESULT = 135, // expression statement in scripts
- JSR        = 136,
- SCRIPT     = 137, // top-level node for entire script
- TYPEOFNAME = 138, // for typeof(simple-name)
- USE_STACK  = 139,
- SETPROP_OP = 140, // x.y op= something
- SETELEM_OP = 141, // x[y] op= something
- LOCAL_BLOCK = 142,
- SET_REF_OP = 143, // *reference op= something
+ BLOCK      = 129, // statement block
+ LABEL      = 130, // label
+ TARGET     = 131,
+ LOOP       = 132,
+ EXPR_VOID  = 133, // expression statement in functions
+ EXPR_RESULT = 134, // expression statement in scripts
+ JSR        = 135,
+ SCRIPT     = 136, // top-level node for entire script
+ TYPEOFNAME = 137, // for typeof(simple-name)
+ USE_STACK  = 138,
+ SETPROP_OP = 139, // x.y op= something
+ SETELEM_OP = 140, // x[y] op= something
+ LOCAL_BLOCK = 141,
+ SET_REF_OP = 142, // *reference op= something

// For XML support:
- DOTDOT     = 144, // member operator (..)
- COLONCOLON = 145, // namespace::name
- XML        = 146, // XML type
- DOTQUERY   = 147, // .() -- e.g., x.emps.emp.(name == "terry")
- XMLATTR    = 148, // @
- XMLEND     = 149,
+ DOTDOT     = 143, // member operator (..)
+ COLONCOLON = 144, // namespace::name
+ XML        = 145, // XML type
+ DOTQUERY   = 146, // .() -- e.g., x.emps.emp.(name == "terry")
+ XMLATTR    = 147, // @
+ XMLEND     = 148,

// Optimizer-only-tokens
- TO_OBJECT  = 150,
- TO_DOUBLE  = 151,

```

```

+ TO_OBJECT    = 149,
+ TO_DOUBLE    = 150,

- GET          = 152, // JS 1.5 get pseudo keyword
- SET          = 153, // JS 1.5 set pseudo keyword
- LET          = 154, // JS 1.7 let pseudo keyword
- CONST        = 155,
- SETCONST     = 156,
- SETCONSTVAR  = 157,
- ARRAYCOMP    = 158, // array comprehension
- LETEXPR      = 159,
- WITHEXPR     = 160,
- DEBUGGER     = 161,
- COMMENT      = 162,
- GENEXPR      = 163,
- METHOD        = 164, // ES6 MethodDefinition
- ARROW        = 165, // ES6 ArrowFunction
- LAST_TOKEN   = 166;
+ GET          = 151, // JS 1.5 get pseudo keyword
+ SET          = 152, // JS 1.5 set pseudo keyword
+ LET          = 153, // JS 1.7 let pseudo keyword
+ CONST        = 154,
+ SETCONST     = 155,
+ SETCONSTVAR  = 156,
+ ARRAYCOMP    = 157, // array comprehension
+ LETEXPR      = 158,
+ WITHEXPR     = 159,
+ DEBUGGER     = 160,
+ COMMENT      = 161,
+ GENEXPR      = 162,
+ LAST_TOKEN   = 163;

```

```
/**
```

```
 * Returns a name for the token. If Rhino is compiled with certain
```

```
@@ -316,7 +313,6 @@ public class Token
```

```
    case ENUM_INIT_KEYS: return "ENUM_INIT_KEYS";
```

```
    case ENUM_INIT_VALUES: return "ENUM_INIT_VALUES";
```

```
    case ENUM_INIT_ARRAY: return "ENUM_INIT_ARRAY";
```

warning: LF will be replaced by CRLF in src/org/mozilla/javascript/ScriptRuntime.java.

The file will have its original line endings in your working directory.

warning: LF will be replaced by CRLF in src/org/mozilla/javascript/ScriptableObject.java.

The file will have its original line endings in your working directory.

warning: LF will be replaced by CRLF in src/org/mozilla/javascript/Token.java.

The file will have its original line endings in your working directory.

```
-    case ENUM_INIT_VALUES_IN_ORDER: return "ENUM_INIT_VALUES_IN_ORDER";
```

```
    case ENUM_NEXT:    return "ENUM_NEXT";
```

```
    case ENUM_ID:      return "ENUM_ID";
```

```
    case THISFN:      return "THISFN";
```

```

@@ -417,8 +413,6 @@ public class Token
    case DEBUGGER:    return "DEBUGGER";
    case COMMENT:    return "COMMENT";
    case GENEXPR:    return "GENEXPR";
-   case METHOD:     return "METHOD";
-   case ARROW:     return "ARROW";
    }

    // Token without name
diff --git a/src/org/mozilla/javascript/TokenStream.java b/src/org/mozilla/javascript/TokenStream.java
index 259325b..b0fd002 100644
--- a/src/org/mozilla/javascript/TokenStream.java
+++ b/src/org/mozilla/javascript/TokenStream.java
@@ -74,24 +74,12 @@ class TokenStream
    return "";
    }

-   static boolean isKeyword(String s, int version, boolean isStrict)
+   static boolean isKeyword(String s)
    {
-   return Token.EOF != stringToKeyword(s, version, isStrict);
+   return Token.EOF != stringToKeyword(s);
    }

-   private static int stringToKeyword(String name, int version, boolean isStrict)
-   {
-   if (version < Context.VERSION_ES6) {
-   return stringToKeywordForJS(name);
-   } else {
-   return stringToKeywordForES(name, isStrict);
-   }
-   }
-
-   /**
-   * JavaScript 1.8 and earlier
-   */
-   private static int stringToKeywordForJS(String name)
+   private static int stringToKeyword(String name)
    {
    // #string_id_map#
    // The following assumes that Token.EOF == 0
@@ -267,161 +255,6 @@ class TokenStream
    return id & 0xff;
    }

-   /**
-   * ECMAScript 6.
-   */

```

```

- private static int stringToKeywordForES(String name, boolean isStrict)
- {
-// #string_id_map#
-// The following assumes that Token.EOF == 0
- final int
- // 11.6.2.1 Keywords (ECMAScript2015)
- Id_break    = Token.BREAK,
- Id_case     = Token.CASE,
- Id_catch    = Token.CATCH,
- Id_class    = Token.RESERVED,
- Id_const    = Token.CONST,
- Id_continue = Token.CONTINUE,
- Id_debugger = Token.DEBUGGER,
- Id_default  = Token.DEFAULT,
- Id_delete   = Token.DELPROP,
- Id_do       = Token.DO,
- Id_else     = Token.ELSE,
- Id_export   = Token.RESERVED,
- Id_extends  = Token.RESERVED,
- Id_finally  = Token.FINALLY,
- Id_for      = Token.FOR,
- Id_function = Token.FUNCTION,
- Id_if       = Token.IF,
- Id_import   = Token.RESERVED,
- Id_in       = Token.IN,
- Id_instanceof = Token.INSTANCEOF,
- Id_new      = Token.NEW,
- Id_return   = Token.RETURN,
- Id_super    = Token.RESERVED,
- Id_switch   = Token.SWITCH,
- Id_this     = Token.THIS,
- Id_throw    = Token.THROW,
- Id_try      = Token.TRY,
- Id_typeof   = Token.TYPEOF,
- Id_var      = Token.VAR,
- Id_void     = Token.VOID,
- Id_while    = Token.WHILE,
- Id_with     = Token.WITH,
- Id_yield    = Token.YIELD,
-
- // 11.6.2.2 Future Reserved Words
- Id_await    = Token.RESERVED,
- Id_enum     = Token.RESERVED,
-
- // 11.6.2.2 NOTE Strict Future Reserved Words
- Id_implements = Token.RESERVED,
- Id_interface  = Token.RESERVED,
- Id_package    = Token.RESERVED,

```

```

-     Id_private    = Token.RESERVED,
-     Id_protected  = Token.RESERVED,
-     Id_public     = Token.RESERVED,
-
- // 11.8 Literals
-     Id_false     = Token.FALSE,
-     Id_null      = Token.NULL,
-     Id_true      = Token.TRUE,
-
- // Non ReservedWord, but Non IdentifierName in strict mode code.
- // 12.1.1 Static Semantics: Early Errors
-     Id_let       = Token.LET, // TODO : Valid IdentifierName in non-strict mode.
-     Id_static    = Token.RESERVED;
-
- int id;
- String s = name;
-// #generated# Last update: 2007-04-18 13:53:30 PDT
-     L0: { id = 0; String X = null; int c;
-         L: switch (s.length()) {
-         case 2: c=s.charAt(1);
-             if (c=='f') { if (s.charAt(0)=='i') {id=Id_if; break L0;} }
-             else if (c=='n') { if (s.charAt(0)=='i') {id=Id_in; break L0;} }
-             else if (c=='o') { if (s.charAt(0)=='d') {id=Id_do; break L0;} }
-             break L;
-         case 3: switch (s.charAt(0)) {
-             case 'f': if (s.charAt(2)=='r' && s.charAt(1)=='o') {id=Id_for; break L0;} break L;
-             case 'l': if (s.charAt(2)=='t' && s.charAt(1)=='e') {id=Id_let; break L0;} break L;
-             case 'n': if (s.charAt(2)=='w' && s.charAt(1)=='e') {id=Id_new; break L0;} break L;
-             case 't': if (s.charAt(2)=='y' && s.charAt(1)=='r') {id=Id_try; break L0;} break L;
-             case 'v': if (s.charAt(2)=='r' && s.charAt(1)=='a') {id=Id_var; break L0;} break L;
-             } break L;
-         case 4: switch (s.charAt(0)) {
-             case 'c': c=s.charAt(3);
-                 if (c=='e') { if (s.charAt(2)=='s' && s.charAt(1)=='a') {id=Id_case; break L0;} }
-                 break L;
-             case 'e': c=s.charAt(3);
-                 if (c=='e') { if (s.charAt(2)=='s' && s.charAt(1)=='l') {id=Id_else; break L0;} }
-                 else if (c=='m') { if (s.charAt(2)=='u' && s.charAt(1)=='n') {id=Id_enum; break L0;} }
-                 break L;
-             case 'n': X="null";id=Id_null; break L;
-             case 't': c=s.charAt(3);
-                 if (c=='e') { if (s.charAt(2)=='u' && s.charAt(1)=='r') {id=Id_true; break L0;} }
-                 else if (c=='s') { if (s.charAt(2)=='i' && s.charAt(1)=='h') {id=Id_this; break L0;} }
-                 break L;
-             case 'v': X="void";id=Id_void; break L;
-             case 'w': X="with";id=Id_with; break L;
-             } break L;
-         case 5: switch (s.charAt(2)) {

```

```

-     case 'a': c=s.charAt(0);
-         if (c=='c') { X="class";id=Id_class; }
-         else if (c=='a') { X="await";id=Id_await; }
-         break L;
-     case 'e': c=s.charAt(0);
-         if (c=='b') { X="break";id=Id_break; }
-         else if (c=='y') { X="yield";id=Id_yield; }
-         break L;
-     case 'i': X="while";id=Id_while; break L;
-     case 'l': X="false";id=Id_false; break L;
-     case 'n': X="const";id=Id_const; break L;
-     case 'p': X="super";id=Id_super; break L;
-     case 'r': X="throw";id=Id_throw; break L;
-     case 't': X="catch";id=Id_catch; break L;
-     } break L;
- case 6: switch (s.charAt(1)) {
-     case 'e': c=s.charAt(0);
-         if (c=='d') { X="delete";id=Id_delete; }
-         else if (c=='r') { X="return";id=Id_return; }
-         break L;
-     case 'm': X="import";id=Id_import; break L;
-     case 't': if (isStrict) { X="static";id=Id_static; break L; }
-     case 'u': if (isStrict) { X="public";id=Id_public; break L; }
-     case 'w': X="switch";id=Id_switch; break L;
-     case 'x': X="export";id=Id_export; break L;
-     case 'y': X="typeof";id=Id_typeof; break L;
-     } break L;
- case 7: switch (s.charAt(1)) {
-     case 'a': if (isStrict) { X="package";id=Id_package; break L; }
-     case 'e': X="default";id=Id_default; break L;
-     case 'i': X="finally";id=Id_finally; break L;
-     case 'r': if (isStrict) { X="private";id=Id_private; break L; }
-     case 'x': X="extends";id=Id_extends; break L;
-     } break L;
- case 8: switch (s.charAt(0)) {
-     case 'c': X="continue";id=Id_continue; break L;
-     case 'd': X="debugger";id=Id_debugger; break L;
-     case 'f': X="function";id=Id_function; break L;
-     } break L;
- case 9: c=s.charAt(0);
-     if (c=='i' && isStrict) { X="interface";id=Id_interface; }
-     else if (c=='p' && isStrict) { X="protected";id=Id_protected; }
-     break L;
- case 10: c=s.charAt(1);
-     if (c=='m' && isStrict) { X="implements";id=Id_implements; }
-     else if (c=='n') { X="instanceof";id=Id_instanceof; }
-     break L;
- }

```

```

-     if (X!=null && X!=s && !X.equals(s)) id = 0;
-     }
- // #/generated#
- // #/string_id_map#
-     if (id == 0) { return Token.EOF; }
-     return id & 0xff;
-     }
-
-     final String getSourceString() { return sourceString; }

-     final int getLineno() { return lineno; }
@@ -433,8 +266,6 @@ class TokenStream
    }

-     final double getNumber() { return number; }
-     final boolean isNumberBinary() { return isBinary; }
-     final boolean isNumberOldOctal() { return isOldOctal; }
-     final boolean isNumberOctal() { return isOctal; }
-     final boolean isNumberHex() { return isHex; }

@@ -547,7 +378,7 @@ class TokenStream
    // check if it's a keyword.

    // Return the corresponding token if it's a keyword
-     int result = stringToKeyword(str, parser.compilerEnv.getLanguageVersion(),
parser.inUseStrictDirective());
+     int result = stringToKeyword(str);
    if (result != Token.EOF) {
        if ((result == Token.LET || result == Token.YIELD) &&
            parser.compilerEnv.getLanguageVersion()
@@ -562,13 +393,13 @@ class TokenStream
        this.string = (String)allStrings.intern(str);
        if (result != Token.RESERVED) {
            return result;
-         } else if (parser.compilerEnv.getLanguageVersion() >= Context.VERSION_ES6) {
-             return result;
-         } else if (!parser.compilerEnv.isReservedKeywordAsIdentifier()) {
+         } else if (!parser.compilerEnv.
+             isReservedKeywordAsIdentifier())
+         {
            return result;
        }
    }
-     } else if (isKeyword(str, parser.compilerEnv.getLanguageVersion(), parser.inUseStrictDirective())) {
+     } else if (isKeyword(str)) {
        // If a string contains unicodes, and converted to a keyword,
        // we convert the last character back to unicode
        str = convertLastCharToHex(str);

```

```

@@ -579,10 +410,10 @@ class TokenStream

    // is it a number?
    if (isDigit(c) || (c == '.' && isDigit(peekChar())) {
+       isOctal = false;
       stringBufferTop = 0;
       int base = 10;
-       isHex = isOldOctal = isOctal = isBinary = false;
-       boolean es6 = parser.compilerEnv.getLanguageVersion() >= Context.VERSION_ES6;
+       isHex = isOctal = false;

       if (c == '0') {
           c = getChar();
@@ -590,59 +421,36 @@ class TokenStream
           base = 16;
           isHex = true;
           c = getChar();
-       } else if (es6 && (c == 'o' || c == 'O')) {
-           base = 8;
-           isOctal = true;
-           c = getChar();
-       } else if (es6 && (c == 'b' || c == 'B')) {
-           base = 2;
-           isBinary = true;
-           c = getChar();
-       } else if (isDigit(c)) {
-           base = 8;
-           isOldOctal = true;
+           isOctal = true;
-       } else {
-           addToString('0');
-       }
-   }

-   boolean isEmpty = true;
  if (base == 16) {
      while (0 <= Kit.xDigitToInt(c, 0)) {
          addToString(c);
          c = getChar();
-       isEmpty = false;
      }
  } else {
      while ('0' <= c && c <= '9') {
+         /*
+         * We permit 08 and 09 as decimal numbers, which
+         * makes our behavior a superset of the ECMA
+         * numeric grammar. We might not always be so
+         * permissive, so we warn about it.

```



```

+         */
-         if (base == 8 && c >= '8') {
-             if (isOldOctal) {
-                 /*
-                  * We permit 08 and 09 as decimal numbers, which
-                  * makes our behavior a superset of the ECMA
-                  * numeric grammar. We might not always be so
-                  * permissive, so we warn about it.
-                  */
-                 parser.addWarning("msg.bad.octal.literal",
-                                 c == '8' ? "8" : "9");
-                 base = 10;
-             } else {
-                 parser.addError("msg.caught.nfe");
-                 return Token.ERROR;
-             }
-         } else if (base == 2 && c >= '2') {
-             parser.addError("msg.caught.nfe");
-             return Token.ERROR;
+             parser.addWarning("msg.bad.octal.literal",
+                             c == '8' ? "8" : "9");
+             base = 10;
+         }
-         addToString(c);
-         c = getChar();
-         isEmpty = false;
-     }
- }
- if (isEmpty && (isBinary || isOctal || isHex)) {
-     parser.addError("msg.caught.nfe");
-     return Token.ERROR;
- }

```

```

boolean isInteger = true;

```

```

@@ -862,8 +670,6 @@ class TokenStream
    } else {
        return Token.EQ;
    }
- } else if (matchChar('>')) {
-     return Token.ARROW;
    } else {
        return Token.ASSIGN;
    }
@@ -1807,8 +1613,6 @@ class TokenStream
// code.
private String string = "";
private double number;

```

```
- private boolean isBinary;
- private boolean isOldOctal;
  private boolean isOctal;
  private boolean isHex;
```

```
diff --git a/src/org/mozilla/javascript/Undefined.java b/src/org/mozilla/javascript/Undefined.java
```

```
index 07cf6e9..f652bd8 100644
```

```
--- a/src/org/mozilla/javascript/Undefined.java
+++ b/src/org/mozilla/javascript/Undefined.java
@@ -7,9 +7,6 @@
package org.mozilla.javascript;
```

```
import java.io.Serializable;
- import java.lang.reflect.InvocationHandler;
- import java.lang.reflect.Method;
- import java.lang.reflect.Proxy;
```

```
/**
```

```
 * This class implements the Undefined value in JavaScript.
```

```
@@ -28,29 +25,4 @@ public class Undefined implements Serializable
```

```
  {
    return instance;
  }
-
- @Override
- public boolean equals(Object obj) {
-   return isUndefined(obj) || super.equals(obj);
- }
-
- public static final Scriptable SCRIPTABLE_UNDEFINED;
-
- static {
```

```
warning: LF will be replaced by CRLF in src/org/mozilla/javascript/TokenStream.java.
```

```
The file will have its original line endings in your working directory.
```

```
warning: LF will be replaced by CRLF in src/org/mozilla/javascript/Undefined.java.
```

```
The file will have its original line endings in your working directory.
```

```
warning: LF will be replaced by CRLF in src/org/mozilla/javascript/ast/ArrayComprehensionLoop.java.
```

```
The file will have its original line endings in your working directory.
```

```
warning: LF will be replaced by CRLF in src/org/mozilla/javascript/ast/AstRoot.java.
```

```
The file will have its original line endings in your working directory.
```

```
warning: LF will be replaced by CRLF in src/org/mozilla/javascript/ast/ForInLoop.java.
```

```
The file will have its original line endings in your working directory.
```

```
-   SCRIPTABLE_UNDEFINED = (Scriptable) Proxy.newProxyInstance(Undefined.class.getClassLoader(), new
Class[]{Scriptable.class}, new InvocationHandler() {
```

```
-   @Override
-   public Object invoke(Object proxy, Method method, Object[] args) throws Throwable {
-     if (method.getName().equals("toString")) return "undefined";
-     if (method.getName().equals("equals")) {
```

```

-         return args.length > 0 && isUndefined(args[0]);
-     }
-     throw new UnsupportedOperationException("undefined doesn't support " + method.getName());
- }
- });
- }
-
- public static boolean isUndefined(Object obj)
- {
-     return Undefined.instance == obj || Undefined.SCRIPTABLE_UNDEFINED == obj;
- }
}

```

diff --git a/src/org/mozilla/javascript/ast/ArrayComprehensionLoop.java

b/src/org/mozilla/javascript/ast/ArrayComprehensionLoop.java

index c57c9d7..bb54180 100644

--- a/src/org/mozilla/javascript/ast/ArrayComprehensionLoop.java

+++ b/src/org/mozilla/javascript/ast/ArrayComprehensionLoop.java

```

@@ -53,7 +53,7 @@ public class ArrayComprehensionLoop extends ForInLoop {
+     + (isForEach()?"each ":"")
+ "("
+ iterator.getSource(0)
-     + (isForOf()?" of ":" in ")
+     + " in "
+ iteratedObject.getSource(0)
+ ");
}

```

diff --git a/src/org/mozilla/javascript/ast/AstRoot.java b/src/org/mozilla/javascript/ast/AstRoot.java

index bb09040..9a3e1d6 100644

--- a/src/org/mozilla/javascript/ast/AstRoot.java

+++ b/src/org/mozilla/javascript/ast/AstRoot.java

@@ -25,6 +25,7 @@ import java.util.TreeSet;

public class AstRoot extends ScriptNode {

```

+     private SortedSet<Comment> comments;

```

```

+     private boolean inStrictMode;

```

```

+     {
+         type = Token.SCRIPT;

```

@@ -75,6 +76,14 @@ public class AstRoot extends ScriptNode {

```

+         comment.setParent(this);

```

```

+     }

```

```

+     public void setInStrictMode(boolean inStrictMode) {

```

```

+         this.inStrictMode = inStrictMode;

```

```

+     }

```

```

+

```

```

+     public boolean isInStrictMode() {

```

```

+         return inStrictMode;

```

```

+ }
+
/**
 * Visits the comment nodes in the order they appear in the source code.
 * The comments are not visited by the { @link #visit} function - you must
diff --git a/src/org/mozilla/javascript/ast/ForInLoop.java b/src/org/mozilla/javascript/ast/ForInLoop.java
index e557745..e5e98a6 100644
--- a/src/org/mozilla/javascript/ast/ForInLoop.java
+++ b/src/org/mozilla/javascript/ast/ForInLoop.java
@@ -9,12 +9,10 @@ package org.mozilla.javascript.ast;
import org.mozilla.javascript.Token;

/**
- * For-in or for-each-in or for-of statement. Node type is { @link Token#FOR }.<p>
+ * For-in or for-each-in statement. Node type is { @link Token#FOR }.<p>
 *
 * <pre><b>for</b> [<b>each</b>] ( LeftHandSideExpression <b>in</b> Expression ) Statement</pre>
 * <pre><b>for</b> [<b>each</b>] ( <b>var</b> VariableDeclarationNoIn <b>in</b> Expression )
Statement</pre>
- * <pre><b>for</b> ( LeftHandSideExpression <b>of</b> Expression ) Statement</pre>
- * <pre><b>for</b> ( ForDeclaration <b>of</b> Expression ) Statement</pre>
 */
public class ForInLoop extends Loop {

@@ -23,7 +21,6 @@ public class ForInLoop extends Loop {
    protected int inPosition = -1;
    protected int eachPosition = -1;
    protected boolean isForEach;
-   protected boolean isForOf;

    {
        type = Token.FOR;
@@ -48,7 +45,7 @@ public class ForInLoop extends Loop {
    }

/**
- * Sets loop iterator expression: the part before the "in" or "of" keyword.
+ * Sets loop iterator expression: the part before the "in" keyword.
 * Also sets its parent to this node.
 * @throws IllegalArgumentException if { @code iterator} is { @code null}
 */
@@ -90,29 +87,15 @@ public class ForInLoop extends Loop {
    }

/**
- * Returns whether the loop is a for-of loop
- */
- public boolean isForOf() {

```

```

-     return isForOf;
- }
-
- /**
-  * Sets whether the loop is a for-each loop
-  */
- public void setIsForOf(boolean isForOf) {
-     this.isForOf = isForOf;
- }
-
- /**
-  * Returns position of "in" or "of" keyword
+  * Returns position of "in" keyword
-  */
- public int getInPosition() {
-     return inPosition;
- }
-
- /**
-  * Sets position of "in" or "of" keyword
-  * @param inPosition position of "in" or "of" keyword,
+  * Sets position of "in" keyword
+  * @param inPosition position of "in" keyword,
-  * or -1 if not present (e.g. in presence of a syntax error)
-  */
- public void setInPosition(int inPosition) {
@@ -145,11 +128,7 @@ public class ForInLoop extends Loop {
-     }
-     sb.append("(");
-     sb.append(iterator.getSource(0));
-     if (isForOf) {
-         sb.append(" of ");
-     } else {
-         sb.append(" in ");
-     }
+     sb.append(" in ");
-     sb.append(iteratedObject.getSource(0));
-     sb.append(" ");
-     if (body.getType() == Token.BLOCK) {
diff --git a/src/org/mozilla/javascript/ast/FunctionNode.java b/src/org/mozilla/javascript/ast/FunctionNode.java
index 6dd58c0..315b0f1 100644
--- a/src/org/mozilla/javascript/ast/FunctionNode.java
+++ b/src/org/mozilla/javascript/ast/FunctionNode.java
@@ -63,9 +63,8 @@ public class FunctionNode extends ScriptNode {
-     public static final int FUNCTION_STATEMENT      = 1;
-     public static final int FUNCTION_EXPRESSION    = 2;
-     public static final int FUNCTION_EXPRESSION_STATEMENT = 3;
-     public static final int ARROW_FUNCTION         = 4;

```

```

- public static enum Form { FUNCTION, GETTER, SETTER, METHOD }
+ public static enum Form { FUNCTION, GETTER, SETTER }

private static final List<AstNode> NO_PARAMS =
    Collections.unmodifiableList(new ArrayList<AstNode>());
@@ -271,7 +270,7 @@ public class FunctionNode extends ScriptNode {
    * if there is a lexical closure, or in a number of other situations.
    */
    public boolean requiresActivation() {
-     return needsActivation;
+     return true;
    }

    public void setRequiresActivation() {
@@ -326,34 +325,26 @@ public class FunctionNode extends ScriptNode {
    functionType = type;
    }

- public boolean isMethod() {
-     return functionForm == Form.GETTER || functionForm == Form.SETTER || functionForm ==
Form.METHOD;
+ public boolean isGetterOrSetter() {
+     return functionForm == Form.GETTER || functionForm == Form.SETTER;
    }

- public boolean isGetterMethod() {
+ public boolean isGetter() {
    return functionForm == Form.GETTER;
    }

- public boolean isSetterMethod() {
+ public boolean isSetter() {
    return functionForm == Form.SETTER;
    }

- public boolean isNormalMethod() {
-     return functionForm == Form.METHOD;
- }
-
- public void setFunctionIsGetterMethod() {
+ public void setFunctionIsGetter() {
    functionForm = Form.GETTER;
    }

- public void setFunctionIsSetterMethod() {
+ public void setFunctionIsSetter() {
    functionForm = Form.SETTER;

```

```

    }

-   public void setFunctionIsNormalMethod() {
-       functionForm = Form.METHOD;
-   }
-
-   /**
-    * Rhino supports a nonstandard Ecma extension that allows you to
-    * say, for instance, function a.b.c(arg1, arg) {...}, and it will
@@ -377,12 +368,9 @@ public class FunctionNode extends ScriptNode {
    @Override
    public String toSource(int depth) {
        StringBuilder sb = new StringBuilder();
-       boolean isArrow = functionType == ARROW_FUNCTION;
-       if (!isMethod()) {
+       if (!isGetterOrSetter()) {
            sb.append(makeIndent(depth));
-           if (!isArrow) {
-               sb.append("function");
-           }
+           sb.append("function");
        }
        if (functionName != null) {
            sb.append(" ");
@@ -390,18 +378,11 @@ public class FunctionNode extends ScriptNode {
        }
        if (params == null) {
            sb.append("(");
-       } else if (isArrow && lp == -1) {
-           // no paren
-           printList(params, sb);
-           sb.append(" ");
        } else {
warning: LF will be replaced by CRLF in src/org/mozilla/javascript/ast/FunctionNode.java.
The file will have its original line endings in your working directory.
warning: LF will be replaced by CRLF in src/org/mozilla/javascript/ast/GeneratorExpressionLoop.java.
The file will have its original line endings in your working directory.
warning: LF will be replaced by CRLF in src/org/mozilla/javascript/ast/ObjectProperty.java.
The file will have its original line endings in your working directory.
warning: LF will be replaced by CRLF in src/org/mozilla/javascript/ast/ScriptNode.java.
The file will have its original line endings in your working directory.
            sb.append("(");
            printList(params, sb);
            sb.append(" ");
        }
-       if (isArrow) {
-           sb.append("=> ");
-       }

```

```

        if (isExpressionClosure) {
            AstNode body = getBody();
            if (body.getLastChild() instanceof ReturnStatement) {
@@ -419,7 +400,7 @@ public class FunctionNode extends ScriptNode {
            } else {
                sb.append(getBody().toSource(depth).trim());
            }
-         if (functionType == FUNCTION_STATEMENT || isMethod()) {
+         if (functionType == FUNCTION_STATEMENT || isGetterOrSetter()) {
                sb.append("\n");
            }
            return sb.toString();
diff --git a/src/org/mozilla/javascript/ast/GeneratorExpressionLoop.java
b/src/org/mozilla/javascript/ast/GeneratorExpressionLoop.java
index 04190bf..def55f2 100644
--- a/src/org/mozilla/javascript/ast/GeneratorExpressionLoop.java
+++ b/src/org/mozilla/javascript/ast/GeneratorExpressionLoop.java
@@ -44,7 +44,7 @@ public class GeneratorExpressionLoop extends ForInLoop {
        + (isForEach()?"each ":"")
        + "("
        + iterator.toSource(0)
-        + (isForOf()?" of ":" in ")
+        + " in "
        + iteratedObject.toSource(0)
        + ")";
    }
diff --git a/src/org/mozilla/javascript/ast/ObjectProperty.java b/src/org/mozilla/javascript/ast/ObjectProperty.java
index 7fc347b..b01338f 100644
--- a/src/org/mozilla/javascript/ast/ObjectProperty.java
+++ b/src/org/mozilla/javascript/ast/ObjectProperty.java
@@ -44,8 +44,7 @@ public class ObjectProperty extends InfixExpression {
    public void setNodeType(int nodeType) {
        if (nodeType != Token.COLON
            && nodeType != Token.GET
-            && nodeType != Token.SET
-            && nodeType != Token.METHOD)
+            && nodeType != Token.SET)
            throw new IllegalArgumentException("invalid node type: "
                + nodeType);
        setType(nodeType);
@@ -65,51 +64,39 @@ public class ObjectProperty extends InfixExpression {
    /**
     * Marks this node as a "getter" property.
     */
-    public void setIsGetterMethod() {
+    public void setIsGetter() {
        type = Token.GET;
    }
}

```



```

/**
 * Returns true if this is a getter function.
 */
- public boolean isGetterMethod() {
+ public boolean isGetter() {
    return type == Token.GET;
}

/**
 * Marks this node as a "setter" property.
 */
- public void setIsSetterMethod() {
+ public void setIsSetter() {
    type = Token.SET;
}

/**
 * Returns true if this is a setter function.
 */
- public boolean isSetterMethod() {
+ public boolean isSetter() {
    return type == Token.SET;
}

- public void setIsNormalMethod() {
-     type = Token.METHOD;
- }
-
- public boolean isNormalMethod() {
-     return type == Token.METHOD;
- }
-
- public boolean isMethod() {
-     return isGetterMethod() || isSetterMethod() || isNormalMethod();
- }
-
@Override
public String toSource(int depth) {
    StringBuilder sb = new StringBuilder();
    sb.append("\n");
    sb.append(makeIndent(depth+1));
-     if (isGetterMethod()) {
+     if (isGetter()) {
        sb.append("get ");
-     } else if (isSetterMethod()) {
+     } else if (isSetter()) {
        sb.append("set ");

```

```

    }
    sb.append(left.toSource(getType()==Token.COLON ? 0 : depth));
diff --git a/src/org/mozilla/javascript/ast/ScriptNode.java b/src/org/mozilla/javascript/ast/ScriptNode.java
index 5841bb9..0788d62 100644
--- a/src/org/mozilla/javascript/ast/ScriptNode.java
+++ b/src/org/mozilla/javascript/ast/ScriptNode.java
@@ -36,7 +36,6 @@ public class ScriptNode extends Scope {

    private Object compilerData;
    private int tempNumber = 0;
-   private boolean inStrictMode;

    {
        // during parsing, a ScriptNode or FunctionNode's top scope is itself
@@ -306,14 +305,6 @@ public class ScriptNode extends Scope {
        return "$" + tempNumber++;
    }

-   public void setInStrictMode(boolean inStrictMode) {
-       this.inStrictMode = inStrictMode;
-   }
-
-   public boolean isInStrictMode() {
-       return inStrictMode;
-   }
-
    @Override
    public void visit(NodeVisitor v) {
        if (v.visit(this)) {
diff --git a/src/org/mozilla/javascript/optimizer/Codegen.java b/src/org/mozilla/javascript/optimizer/Codegen.java
index 9ecceda..9d4a94a 100644
--- a/src/org/mozilla/javascript/optimizer/Codegen.java
+++ b/src/org/mozilla/javascript/optimizer/Codegen.java
@@ -264,7 +264,6 @@ public class Codegen implements Evaluator
    {
        boolean hasScript = (scriptOrFnNodes[0].getType() == Token.SCRIPT);
        boolean hasFunctions = (scriptOrFnNodes.length > 1 || !hasScript);
-       boolean isStrictMode = scriptOrFnNodes[0].isInStrictMode();

        String sourceFile = null;
        if (compilerEnv.isGenerateDebugInfo()) {
@@ -287,7 +286,7 @@ public class Codegen implements Evaluator
            generateExecute(cfw);
        }

-       generateCallMethod(cfw, isStrictMode);
+       generateCallMethod(cfw);
        generateResumeGenerator(cfw);

```

```

        generateNativeFunctionOverrides(cfw, encodedSource);
@@ -466,7 +465,7 @@ public class Codegen implements Evaluator
        cfw.stopMethod((short)6);
    }

- private void generateCallMethod(ClassFileWriter cfw, boolean isStrictMode)
+ private void generateCallMethod(ClassFileWriter cfw)
    {
        cfw.startMethod("call",
            "(Lorg/mozilla/javascript/Context;" +
@@ -493,7 +492,6 @@ public class Codegen implements Evaluator
        cfw.addALoad(2);
        cfw.addALoad(3);
        cfw.addALoad(4);
-        cfw.addPush(isStrictMode);
        cfw.addInvoke(ByteCode.INVOKESTATIC,
            "org/mozilla/javascript/ScriptRuntime",
            "doTopCall",
@@ -502,7 +500,6 @@ public class Codegen implements Evaluator
            +"Lorg/mozilla/javascript/Scriptable;"
            +"Lorg/mozilla/javascript/Scriptable;"
            +"[Ljava/lang/Object;"
-            +"Z"
            +"Lorg/mozilla/javascript/Scriptable;");
        cfw.add(ByteCode.ARETURN);
        cfw.markLabel(nonTopCallLabel);
@@ -1349,12 +1346,10 @@ class BodyCodegen
        cfw.addALoad(funObjLocal);
        cfw.addALoad(variableObjectLocal);
        cfw.addALoad(argsLocal);
-        cfw.addPush(scriptOrFn.isInStrictMode());
        addScriptRuntimeInvoke("createFunctionActivation",
            "(Lorg/mozilla/javascript/NativeFunction;"
            +"Lorg/mozilla/javascript/Scriptable;"
            +"[Ljava/lang/Object;"
-            +"Z"
            +"Lorg/mozilla/javascript/Scriptable;");
        cfw.addAStore(variableObjectLocal);

@@ -1622,22 +1617,15 @@ class BodyCodegen

        String debugVariableName;
-        boolean isArrow = false;
-        if (scriptOrFn instanceof FunctionNode) {
-            isArrow = ((FunctionNode)scriptOrFn).getFunctionType() == FunctionNode.ARROW_FUNCTION;
-        }

```

```

if (fnCurrent != null) {
    debugVariableName = "activation";
    cfw.addALoad(funObjLocal);
    cfw.addALoad(variableObjectLocal);
    cfw.addALoad(argsLocal);
-   String methodName = isArrow ? "createArrowFunctionActivation" : "createFunctionActivation";
-   cfw.addPush(scriptOrFn.isInStrictMode());
-   addScriptRuntimeInvoke(methodName,
+   addScriptRuntimeInvoke("createFunctionActivation",
        "(Lorg/mozilla/javascript/NativeFunction;"
        +"Lorg/mozilla/javascript/Scriptable;"
        +"[Ljava/lang/Object;"
-        +"Z"
        +"Lorg/mozilla/javascript/Scriptable;");
    cfw.addAStore(variableObjectLocal);
    cfw.addALoad(contextLocal);
@@ -2011,7 +1999,6 @@ class BodyCodegen
    case Token.ENUM_INIT_KEYS:
    case Token.ENUM_INIT_VALUES:
    case Token.ENUM_INIT_ARRAY:
-   case Token.ENUM_INIT_VALUES_IN_ORDER:
        generateExpression(child, node);
        cfw.addALoad(contextLocal);
        cfw.addALoad(variableObjectLocal);
@@ -2019,8 +2006,6 @@ class BodyCodegen
        ? ScriptRuntime.ENUMERATE_KEYS :
        type == Token.ENUM_INIT_VALUES
        ? ScriptRuntime.ENUMERATE_VALUES :
-   type == Token.ENUM_INIT_VALUES_IN_ORDER
-   ? ScriptRuntime.ENUMERATE_VALUES_IN_ORDER :
        ScriptRuntime.ENUMERATE_ARRAY;
    cfw.addPush(enumType);
    addScriptRuntimeInvoke("enumInit",
@@ -2187,8 +2172,7 @@ class BodyCodegen
    OptFunctionNode ofn = OptFunctionNode.get(scriptOrFn,
        fnIndex);
    int t = ofn.fnnode.getFunctionType();
-   if (t != FunctionNode.FUNCTION_EXPRESSION &&
-       t != FunctionNode.ARROW_FUNCTION) {
+   if (t != FunctionNode.FUNCTION_EXPRESSION) {
        throw Codegen.badTree();
    }
    visitFunction(ofn, t);
@@ -2976,20 +2960,7 @@ class BodyCodegen
    cfw.addInvoke(ByteCode.INVOKESPECIAL, codegen.mainClassName,
        "<init>", Codegen.FUNCTION_CONSTRUCTOR_SIGNATURE);
-   if (functionType == FunctionNode.ARROW_FUNCTION) {

```

```

-     cfw.addALoad(contextLocal);        // load 'cx'
-     cfw.addALoad(variableObjectLocal);
-     cfw.addALoad(thisObjLocal);
-     addOptRuntimeInvoke("bindThis",
-         "(Lorg/mozilla/javascript/NativeFunction;"
-         +"Lorg/mozilla/javascript/Context;"
-         +"Lorg/mozilla/javascript/Scriptable;"
-         +"Lorg/mozilla/javascript/Scriptable;"
-         +"Lorg/mozilla/javascript/Function;");
-     }
-
-     if (functionType == FunctionNode.FUNCTION_EXPRESSION ||
-         functionType == FunctionNode.ARROW_FUNCTION) {
+     if (functionType == FunctionNode.FUNCTION_EXPRESSION) {
        // Leave closure object on stack and do not pass it to
        // initFunction which suppose to connect statements to scope
        return;
@@ -3180,7 +3151,7 @@ class BodyCodegen
    // see bug 757410 for an explanation why we need to split this
    for (int i = 0; i != count; ++i) {
        int childType = child.getType();
-        if (childType == Token.GET || childType == Token.SET || childType == Token.METHOD) {
+        if (childType == Token.GET || childType == Token.SET) {
            generateExpression(child.getFirstChild(), node);
        } else {
            generateExpression(child, node);
@@ -3202,7 +3173,7 @@ class BodyCodegen
    cfw.add(ByteCode.DUP);
    cfw.addPush(i);
    int childType = child2.getType();
-    if (childType == Token.GET || childType == Token.SET || childType == Token.METHOD) {
+    if (childType == Token.GET || childType == Token.SET) {
        generateExpression(child2.getFirstChild(), node);
    } else {
        generateExpression(child2, node);
@@ -4465,10 +4436,10 @@ Else pass the JS object in the aReg and 0.0 in the dReg.
    } else {
        cfw.addALoad(reg);
    }
-    addObjectToDouble();
    if (post) {
-        cfw.add(ByteCode.DUP2);
+        cfw.add(ByteCode.DUP);
    }
+    addObjectToDouble();
    cfw.addPush(1.0);
    if ((incrDecrMask & Node.DECR_FLAG) == 0) {
        cfw.add(ByteCode.DADD);

```

```

@@ -4480,9 +4451,6 @@ Else pass the JS object in the aReg and 0.0 in the dReg.
        cfw.add(ByteCode.DUP);
    }
    cfw.addAStore(reg);
-   if (post) {
-       addDoubleWrap();
-   }
    }
    break;
    case Token.NAME:
diff --git a/src/org/mozilla/javascript/optimizer/OptRuntime.java
b/src/org/mozilla/javascript/optimizer/OptRuntime.java
index 78b8072..ef5856f 100644
--- a/src/org/mozilla/javascript/optimizer/OptRuntime.java
+++ b/src/org/mozilla/javascript/optimizer/OptRuntime.java
@@ -133,11 +133,6 @@ public final class OptRuntime extends ScriptRuntime
    ScriptRuntime.initFunction(cx, scope, fn, functionType, false);
    }

-   public static Function bindThis(NativeFunction fn, Context cx, Scriptable scope, Scriptable thisObj)
-   {
-       return new ArrowFunction(cx, scope, fn, thisObj);
-   }
-
    public static Object callSpecial(Context cx, Callable fun,
        Scriptable thisObj, Object[] args,
        Scriptable scope,
diff --git a/src/org/mozilla/javascript/regexp/NativeRegExp.java
b/src/org/mozilla/javascript/regexp/NativeRegExp.java
index 5689a07..cc02af5 100644
--- a/src/org/mozilla/javascript/regexp/NativeRegExp.java
+++ b/src/org/mozilla/javascript/regexp/NativeRegExp.java
@@ -39,7 +39,8 @@ public class NativeRegExp extends IdScriptableObject implements Function
    {
        static final long serialVersionUID = 4965263491464903264L;

-       private static final Object REGEXP_TAG = new Object();
+       private static final Object REGEXP_TAG = new Serializable() {
+       };

        public static final int JSREG_GLOB = 0x1;    // 'g' flag: global
        public static final int JSREG_FOLD = 0x2;    // 'i' flag: fold
diff --git a/src/org/mozilla/javascript/resources/Messages.properties
b/src/org/mozilla/javascript/resources/Messages.properties
index 2d65514..9943d49 100644
--- a/src/org/mozilla/javascript/resources/Messages.properties
+++ b/src/org/mozilla/javascript/resources/Messages.properties
@@ -498,8 +498,8 @@ msg.var.hides.arg =\

```

msg.destruct.assign.no.init =\
Missing = in destructuring declaration

-msg.no.old.octal.strict =\
- Old octal numbers prohibited in strict mode.
+msg.no.octal.strict =\
+ Octal numbers prohibited in strict mode.

msg.dup.obj.lit.prop.strict =\
Property "{0}" already defined in this object literal.
@@ -526,12 +526,6 @@ msg.invalid.iterator =\
msg.iterator.primitive =\
__iterator__ returned a primitive value

-msg.not.iterable = \
- {0} is not iterable
-

-msg.invalid.for.each = \
- invalid for each loop
-

msg.assn.create.strict =\
Assignment to undeclared variable {0}

@@ -542,7 +536,7 @@ msg.prop.not.found =\
Property {0} not found.

msg.set.prop.no.setter =\
- Cannot set property {0} that has only a getter.
+ Cannot set property [{1}].{0} that has only a getter to {2}.

msg.invalid.type =\
Invalid JavaScript value of type {0}
@@ -707,9 +701,6 @@ msg.change.property.accessor.to.data.with.configurable.false =\
msg.not.extensible =\
Cannot add properties to this object because extensible is false.

-msg.delete.property.with.configurable.false =\
- Cannot delete "{0}" property because configurable is false.
-

TokenStream

msg.missing.exponent =\
missing exponent
@@ -852,10 +843,3 @@ msg.called.null.or.undefined=\
-

msg.first.arg.not.regexp=\
First argument to {0}.prototype.{1} must not be a regular expression
-

-msg.arrowfunction.generator =\
-

```

- arrow function can not become generator
-
-# Arguments
-msg.arguments.not.access.strict =\
- Cannot access "{0}" property of the arguments object in strict mode.
diff --git a/src/org/mozilla/javascript/typedarrays/NativeTypedArrayView.java
b/src/org/mozilla/javascript/typedarrays/NativeTypedArrayView.java
index d6f7bc4..c676a8a 100644
--- a/src/org/mozilla/javascript/typedarrays/NativeTypedArrayView.java
+++ b/src/org/mozilla/javascript/typedarrays/NativeTypedArrayView.java
@@ -10,7 +10,6 @@ import org.mozilla.javascript.Context;
import org.mozilla.javascript.ExternalArrayData;
import org.mozilla.javascript.IdFunctionObject;
import org.mozilla.javascript.NativeArray;
-import org.mozilla.javascript.NativeArrayIterator;
import org.mozilla.javascript.ScriptRuntime;
import org.mozilla.javascript.Scriptable;
import org.mozilla.javascript.Undefined;
@@ -22,8 +21,6 @@ import java.util.List;
import java.util.ListIterator;
import java.util.RandomAccess;

-import static org.mozilla.javascript.NativeSymbol.ITERATOR_PROPERTY;
-
/**
 * This class is the abstract parent for all of the various typed arrays. Each one
 * shows a view of a specific NativeArrayBuffer, and modifications here will affect the rest.
@@ -284,9 +281,6 @@ public abstract class NativeTypedArrayView<T>
    } else {
        throw ScriptRuntime.constructError("Error", "invalid arguments");
    }
-
- case Id_iterator:
-     return new NativeArrayIterator(scope, thisObj);
    }
    throw new IllegalArgumentException(String.valueOf(id));
}
@@ -294,17 +288,16 @@ public abstract class NativeTypedArrayView<T>
    @Override
    protected void initPrototypeId(int id)
    {
-     String s, fnName = null;;
+     String s;
        int arity;
        switch (id) {
            case Id_constructor:     arity = 1; s = "constructor"; break;
            case Id_get:             arity = 1; s = "get"; break;
            case Id_set:             arity = 2; s = "set"; break;

```



```

    case Id_subarray:      arity = 2; s = "subarray"; break;
-   case Id_iterator:     arity = 0; s = ITERATOR_PROPERTY; fnName="[Symbol.iterator]"; break;
    default: throw new IllegalArgumentException(String.valueOf(id));
  }
-   initPrototypeMethod(getClassName(), id, s, fnName, arity);
+   initPrototypeMethod(getClassName(), id, s, arity);
  }

  // #string_id_map#
@@ -322,7 +315,6 @@ public abstract class NativeTypedArrayView<T>
    else if (c=='s') { if (s.charAt(2)=='t' && s.charAt(1)=='e') {id=Id_set; break L0;} }
  }
  else if (s_length==8) { X="subarray";id=Id_subarray; }
-   else if (s_length==10) { X="@iterator";id=Id_iterator; }
  else if (s_length==11) { X="constructor";id=Id_constructor; }
  if (X!=null && X!=s && !X.equals(s)) id = 0;
  break L0;
@@ -336,11 +328,10 @@ public abstract class NativeTypedArrayView<T>
  Id_constructor      = 1,
  Id_get              = 2,
  Id_set              = 3,
-   Id_subarray       = 4,
-   Id_iterator        = 5;
+   Id_subarray       = 4;

  protected static final int
-   MAX_PROTOTYPE_ID   = Id_iterator;
+   MAX_PROTOTYPE_ID   = Id_subarray;

  // #/string_id_map#

diff --git a/test262 b/test262
deleted file mode 160000
index acf2d0c..0000000
--- a/test262
+++ /dev/null
@@ -1 +0,0 @@
-Subproject commit acf2d0cb11659139e6821edc0aa971a160b15562
diff --git a/testsrc/benchmarks/caliper/fieldTests.js b/testsrc/benchmarks/caliper/fieldTests.js
deleted file mode 100644
index 4b84eb7..0000000
--- a/testsrc/benchmarks/caliper/fieldTests.js
+++ /dev/null
@@ -1,75 +0,0 @@
-function createObject(iterations, strings, ints) {
-  var o;
-  for (var ct = 0; ct < iterations; ct++) {
-    o = {};

```

```

-   var s = 0;
-   var i = 0;
-
-   while ((s < strings.length) && (i < ints.length)) {
-       if (s < strings.length) {
-           o[strings[s]] = strings[s];
-           s++;
-       }
-       if (i < ints.length) {
-           o[ints[i]] = ints[i];
-           i++;
-       }
-   }
-   return o;
-}
-
-function iterateObject(iterations, o) {
-   var x;
-   for (var ct = 0; ct < iterations; ct++) {
-       for (var k in o) {
-           x = o[k];
-       }
-   }
-   return x;
-}
-
-function iterateOwnKeysObject(iterations, o) {
-   var pn;
-   for (var ct = 0; ct < iterations; ct++) {
warning: LF will be replaced by CRLF in src/org/mozilla/javascript/optimizer/Codegen.java.
The file will have its original line endings in your working directory.
warning: LF will be replaced by CRLF in src/org/mozilla/javascript/optimizer/OptRuntime.java.
The file will have its original line endings in your working directory.
warning: LF will be replaced by CRLF in src/org/mozilla/javascript/regexp/NativeRegExp.java.
The file will have its original line endings in your working directory.
warning: LF will be replaced by CRLF in src/org/mozilla/javascript/resources/Messages.properties.
The file will have its original line endings in your working directory.
warning: LF will be replaced by CRLF in src/org/mozilla/javascript/typedarrays/NativeTypedArrayView.java.
The file will have its original line endings in your working directory.
warning: LF will be replaced by CRLF in testsrc/build.xml.
The file will have its original line endings in your working directory.
-       pn = Object.getOwnPropertyNames(o);
-   }
-   return pn;
-}
-
-function accessObject(iterations, o, strings, ints) {

```

```

- var s = 0;
- var i = 0;
- for (var ct = 0; ct < iterations; ct++) {
-   if (strings.length > 0) {
-     var x = o[strings[s]];
-     s++;
-     if (s === strings.length) {
-       s = 0;
-     }
-   }
-   if (ints.length > 0) {
-     var x = o[ints[i]];
-     i++;
-     if (i === ints.length) {
-       i = 0;
-     }
-   }
- }
-}
-
-function deleteObject(iterations, o, strings, ints) {
- var s = 0;
- var i = 0;
-
- for (var ct = 0; ct < iterations; ct++) {
-   if (s < strings.length) {
-     delete o[strings[s]];
-     s++;
-   }
-   if (i < ints.length) {
-     delete o[ints[i]];
-     i++;
-   }
- }
-}
\ No newline at end of file
diff --git a/testsrc/build.xml b/testsrc/build.xml
index bc50d94..769ccf6 100644
--- a/testsrc/build.xml
+++ b/testsrc/build.xml
@@ -15,7 +15,6 @@
-->
<property name="test.junit.url" value="http://repo1.maven.org/maven2/junit/junit/4.12/junit-4.12.jar"/>
<property name="test.hamcrest.url" value="http://central.maven.org/maven2/org/hamcrest/hamcrest-
core/1.3/hamcrest-core-1.3.jar"/>
- <property name="test.snakeyaml.url"
value="http://central.maven.org/maven2/org/yaml/snakeyaml/1.15/snakeyaml-1.15.jar"/>

```

```

<!--
  URL from which emma.jar can be retrieved
@@ -51,7 +50,6 @@
  <mkdir dir="lib"/>
  <get src="${test.junit.url}" dest="lib/junit.jar" useimestamp="true"/>
  <get src="${test.hamcrest.url}" dest="lib/hamcrest.jar" useimestamp="true"/>
- <get src="${test.snakeyaml.url}" dest="lib/snakeyaml.jar" useimestamp="true"/>
</target>

<target name="junit-compile">
@@ -66,7 +64,6 @@
  <classpath>
    <pathelement path="lib/junit.jar" />
    <pathelement path="lib/hamcrest.jar" />
-   <pathelement path="lib/snakeyaml.jar" />
    <pathelement path="{classes}" />
  </classpath>
  <src path="testsrc"/>
@@ -88,7 +85,6 @@
  <classpath>
    <pathelement path="lib/junit.jar" />
    <pathelement path="lib/hamcrest.jar" />
-   <pathelement path="lib/snakeyaml.jar" />
    <pathelement path="{classes}" />
  </classpath>
  <sourcepath path="testsrc" />
@@ -162,7 +158,6 @@
    <pathelement path="lib/emma.jar"/>
    <pathelement path="lib/junit.jar" />
    <pathelement path="lib/hamcrest.jar" />
-   <pathelement path="lib/snakeyaml.jar" />
    <pathelement location="{test.jstests.jar}"/>
  </classpath>
  <batchtest todir="build/test">
@@ -195,7 +190,6 @@
    <pathelement path="{test.classes}" />
    <pathelement path="lib/junit.jar" />
    <pathelement path="lib/hamcrest.jar" />
-   <pathelement path="lib/snakeyaml.jar" />
    <pathelement location="{test.jstests.jar}"/>
  </classpath>

@@ -217,7 +211,6 @@
    <pathelement path="{test.classes}" />
    <pathelement path="lib/junit.jar" />
    <pathelement path="lib/hamcrest.jar" />
-   <pathelement path="lib/snakeyaml.jar" />
    <pathelement location="{test.jstests.jar}"/>

```

```

</classpath>
<batchtest todir="build/test/benchmark">
diff --git a/testsrc/doctests/467396.doctest b/testsrc/doctests/467396.doctest
index e1519d3..543d554 100644
--- a/testsrc/doctests/467396.doctest
+++ b/testsrc/doctests/467396.doctest
@@ -2,17 +2,17 @@
// License, v. 2.0. If a copy of the MPL was not distributed with this
// file, You can obtain one at http://mozilla.org/MPL/2.0/.

-js> var a = java.lang.reflect.Array.newInstance(java.lang.Integer, [17,4]);
-js> a
-[[Ljava.lang.Integer;@1543c88
-js> a.length
-17
-js> a[0].length
-4
-js> var a = java.lang.reflect.Array.newInstance(java.lang.Integer, 17, 4);
-js> a
-[[Ljava.lang.Integer;@f11404
-js> a.length
-17
-js> a[0].length
-4
+js> var a = java.lang.reflect.Array.newInstance(java.lang.Integer, [17,4]);
+js> a
+[[Ljava.lang.Integer;@1543c88
+js> a.length
+17
+js> a[0].length
+4
+js> var a = java.lang.reflect.Array.newInstance(java.lang.Integer, 17, 4);
+js> a
+[[Ljava.lang.Integer;@f11404
+js> a.length
+17
+js> a[0].length
+4
diff --git a/testsrc/doctests/480758.doctest b/testsrc/doctests/480758.doctest
index 68ebe18..9a50bb0 100644
--- a/testsrc/doctests/480758.doctest
+++ b/testsrc/doctests/480758.doctest
@@ -2,20 +2,20 @@
// License, v. 2.0. If a copy of the MPL was not distributed with this
// file, You can obtain one at http://mozilla.org/MPL/2.0/.

-js> function primBeget(proto) {
- > if (proto === null) { fail("Cannot beget from null."); }

```

```

- > if (proto === (void 0)) { fail("Cannot beget from undefined."); }
- > function F() {}
- > F.prototype = proto;
- > var result = new F();
- > return result;
- > }
-js> var x = [1].concat(primBeget(Array.prototype));
-js> x
-1,
-js> x[1]
-
-js> typeof x[1]
-object
-js> x[1] instanceof Array
+js> function primBeget(proto) {
+ > if (proto === null) { fail("Cannot beget from null."); }
+ > if (proto === (void 0)) { fail("Cannot beget from undefined."); }
+ > function F() {}
+ > F.prototype = proto;
+ > var result = new F();
+ > return result;
+ > }
+js> var x = [1].concat(primBeget(Array.prototype));
+js> x
+1,
+js> x[1]
+
+js> typeof x[1]
+object
+js> x[1] instanceof Array
true
\ No newline at end of file
diff --git a/testsrc/doctests/iteratorKeys.doctest b/testsrc/doctests/iteratorKeys.doctest
index d623cd6..0558ba4 100644
--- a/testsrc/doctests/iteratorKeys.doctest
+++ b/testsrc/doctests/iteratorKeys.doctest
@@ -2,15 +2,15 @@
// License, v. 2.0. If a copy of the MPL was not distributed with this
// file, You can obtain one at http://mozilla.org/MPL/2.0/.

-js> version(170)
-0
-js> var foo = {
- > __iterator__: function(onlyKeys) {
- > print(onlyKeys);
- > yield [0, "a"];
- > }
- > };

```

```

warning: LF will be replaced by CRLF in testsrc/doctests/object.getownpropertydescriptor.doctest.-js> for each (let
f in foo) {}
>false
-js> for (let f in foo) {}
+js> version(170)
+0

+js> var foo = {
+ > __iterator__ : function(onlyKeys) {The file will have its original line endings in your working directory.
warning: LF will be replaced by CRLF in testsrc/jstests/extensions/stack-traces.js.
The file will have its original line endings in your working directory.

+ > print(onlyKeys);
+ > yield [0, "a"];
+ > }
+ > };
+js> for each (let f in foo) {}
>false
+js> for (let f in foo) {}
true
\ No newline at end of file
diff --git a/testsrc/doctests/object.getownpropertydescriptor.doctest
b/testsrc/doctests/object.getownpropertydescriptor.doctest
index b0cac1b..b0eaff8 100644
--- a/testsrc/doctests/object.getownpropertydescriptor.doctest
+++ b/testsrc/doctests/object.getownpropertydescriptor.doctest
@@ -32,7 +32,8 @@ true
js> var desc = Object.getOwnPropertyDescriptor({ get p() {} , set p() {} }, 'p');
js> desc.value === undefined;
true
-js> desc.writable
+js> desc.writable === undefined;
+true
js> desc.get.toSource()
(function () {})
js> desc.set.toSource()
diff --git a/testsrc/jstests/arrowfn.jstest b/testsrc/jstests/arrowfn.jstest
deleted file mode 100644
index 635989f..0000000
--- a/testsrc/jstests/arrowfn.jstest
+++ /dev/null
@@ -1,182 +0,0 @@
-function assertEq(actual, expected) {
- if (expected !== actual) {
- throw "Expected '" + expected + "' but was '" + actual + "'";
- }
-}
-

```

```

-function assertException(exception, fn) {
- try {
-   fn();
- } catch (e if e instanceof exception) {
-   return;
- }
- throw "Expected to throw '" + exception + "' but not thrown";
-}
-
-
-
-var f = a => a * a;
-assertEq(f(2), 4);
-assertEq(f.toString(), '\na => a * a\n');
-
-
-var f = (a) => a * a;
-assertEq(f(2), 4);
-assertEq(f.toString(), '\n(a) => a * a\n');
-
-
-var f = (a, b) => a * b;
-assertEq(f(2, 3), 6);
-
-
-var f = (a, b, c) => a * b + c;
-assertEq(f(2, 3, 4), 10);
-
-
-var f = () => 10;
-assertEq(f(), 10);
-
-
-var f = () => 10 * 2;
-assertEq(f(), 20);
-
-
-assertException(SyntaxError, function() {
- eval('var f = ) => a * b;');
-});
-
-
-assertException(SyntaxError, function() {
- eval('var f = ();');
-});
-
-
-var f = ([a, b]) => a * b;
-assertEq(f([2, 3]), 6);
-
-
-var f = ({ a: a, b: b }) => a * b;
-assertEq(f({ a: 10, b: 20 }), 200);
-
-
-var f = a => {
- return a * a;
-};
-assertEq(f(10), 100);
-assertEq(f.toString(), '\na => {\n  return a * a;\n}\n');

```



```

-
-var f = a => {
- a * a;
-};
-assertEq(f(10), undefined);
-
-var f = (a) => {
- return a * a;
-};
-assertEq(f(10), 100);
-
-var f = (a) => {
- a * a;
-};
-assertEq(f(10), undefined);
-
-var f = () => {
- return 10;
-};
-assertEq(f(), 10);
-
-var f = () => {
- 10;
-};
-assertEq(f(), undefined);
-
-assertException(SyntaxError, function() {
- eval("function() { 'use strict'; var f = (a, a) => {} }");
-});
-
-assertException(SyntaxError, function() {
- eval("function() { 'use strict'; var f = (eval) => {} }");
-});
-
-assertException(SyntaxError, function() {
- eval("function() { 'use strict'; var f = (arguments) => {} }");
-});
-
-assertException(SyntaxError, function() {
- eval("function() { 'use strict'; var f = (123) => {} }");
-});
-
-assertException(SyntaxError, function() {
- eval("var f = () => { yield 10; };");
-});
-
-var o = {
- a: 1

```

```

-};
-(function() {
- var f = () => this;
- assertEq(f(), o);
- assertEq(f().a, 1);
-}).call(o);
-
-var o = {
- a: 1
-};
-var f = (function() {
- return () => this;
-}).call(o);
-assertEq(f(), o);
-assertEq(f().a, 1);
-
-var o = {};
-(function() {
- var f = () => () => this;
- assertEq(f()(), o);
-}).call(o);
-
-var o1 = {}, o2 = {};
-(function() {
- (function() {
- var f = () => this;
- assertEq(f(), o2);
- }).call(o2);
-}).call(o1);
-
-var o = {};
-(function() {
- var f;
- if (String) {
- f = () => this;
- }
- assertEq(f(), o);
-}).call(o);
-
-var o = {};
-(function() {
- var f;
- with (String) {
- f = () => this;
- }
- assertEq(f(), o);
-}).call(o);
-

```

```

-var f = (function() {
- return () => this.a + 3;
-}).call({ a: 1 });
-assertEq(f(), 4);
-
-assertException(TypeError, function() {
- var f = () => 10;
- new f();
-});
-
-assertException(TypeError, function() {
- var f = () => 10, g = f.bind();
- new g();
-});
-
-var f = (function() {
- return () => arguments[0] + arguments[1];
-})(1, 2);
-assertEq(f(3, 4), 3);
-
-var f = () => 10;
-assertEq(f.prototype, undefined);
-
-var f = () => {
- var n = 0;
- return () => n++;
-};
-var g = f();
-assertEq(g(), 0);
-assertEq(g(), 1);
-
-"success";
diff --git a/testsrc/jstests/extensions/stack-traces.js b/testsrc/jstests/extensions/stack-traces.js
index f99602f..532dfa7 100644
--- a/testsrc/jstests/extensions/stack-traces.js
+++ b/testsrc/jstests/extensions/stack-traces.js
@@ -180,48 +180,4 @ @ try {
    assertTrue(/Custom 2/.test(e.stack));
    assertTrue(/nestedThrower/.test(e.stack));
    assertTrue(/parentThrower/.test(e.stack));
-}
-
-// test that all the functions on a stack frame work
-
-function printFrame(l, f) {
- var o =
- { typeofThis: typeof f.getThis(),
-   typeName: f.getTypeName(),

```

```

-   function: f.getFunction(),
-   functionName: f.getFunctionName(),
-   methodName: f.getMethodName(),
-   fileName: f.getFileName(),
-   lineNumber: f.getLineNumber(),
-   columnNumber: f.getColumnNumber(),
-   evalOrigin: f.getEvalOrigin(),
-   topLevel: f.isToplevel(),
-   eval: f.isEval(),
-   native: f.isNative(),
-   constructor: f.isConstructor()
-   };
-
-   l.push(o);
-   return l;
-}
-
-Error.prepareStackTrace = function (e, frames) {
-   return frames.reduce(printFrame, []);
-};
-
-try {
-   grandparentThrower('testing stack');
-} catch (e) {
-   e.stack.forEach(function (f) {
-       verifyFrame(f);
-   });
-}
-
-function verifyFrame(f) {
-   assertEquals(typeof f.fileName, 'string');
-   assertEquals(typeof f.lineNumber, 'number');
-   assertEquals(typeof f.topLevel, 'boolean');
-   assertEquals(typeof f.eval, 'boolean');
-   assertEquals(typeof f.native, 'boolean');
-   assertEquals(typeof f.constructor, 'boolean');
-}
+}
\ No newline at end of file
diff --git a/testsrc/jstests/harmony/array-find.js b/testsrc/jstests/harmony/array-find.js
index c45924f..bebb193 100644
--- a/testsrc/jstests/harmony/array-find.js
+++ b/testsrc/jstests/harmony/array-find.js
@@ -4,307 +4,216 @@
load("testsrc/assert.js");

-//

```

```

-// Test The length of 'Array.prototype.find' is 1
-// (22.1.3.8)
-(function () {
-  assertEquals(1, Array.prototype.find.length);
-})();
+assertEquals(1, Array.prototype.find.length);

-//
-// Quick check for base cases
-//
-(function () {
-  var a = [21, 22, 23, 24];
+var a = [21, 22, 23, 24];
+assertEquals(undefined, a.find(function() { return false; }));
+assertEquals(21, a.find(function() { return true; }));
+assertEquals(undefined, a.find(function(val) { return 121 === val; }));
+assertEquals(24, a.find(function(val) { return 24 === val; }));
+assertEquals(23, a.find(function(val) { return 23 === val; }), null);
+assertEquals(22, a.find(function(val) { return 22 === val; }), undefined);

-  // well, it works
-  assertEquals(a[0], a.find(function () { return true; }));
-
-  // predicate is called with current value, index and object on which `find()` was called
-  assertEquals(a[3], a.find(function (val, i, array) { return array === a && i === 3; }));
-
-  // 'this' can be augmented by second optional parameter
-  var thisArg = { };
-  assertEquals(a[0], a.find(function () { return this === thisArg; }, thisArg));
-
-  // when nothing found, `undefined` is returned
-  assertEquals(undefined, a.find(function () { return false; }));
-
-  // it is not required to return Boolean, it will be automatically casted
-  assertEquals(a[2], a.find(function (val) { return (val === a[2] ? "true" : null); }));
-})();

-//
-// Test predicate is anything that has [[Call]] internal method
-//
-(function () {
-  var a = [21, 22, 23, 24];
-
-  // `InterpretedFunction` or `?` extends `NativeFunction`
-  assertEquals(a[0], a.find(function () { return true; }));
-  // `IdScriptableObject`
-  assertEquals(a[0], a.find(Object.prototype.toString));
-  assertEquals(a[0], a.find(String));

```

```

-  `BoundFunction`
-  assertEquals(a[0], a.find((function () { return true; }).bind({})))
-})();

//
// Test predicate is not called when array is empty
//
-(function () {
-  var l = -1;
-  var o = -1;
-  var v = -1;
-  var k = -1;
+(function() {
+  var a = [];
+  var l = -1;
+  var o = -1;
+  var v = -1;
+  var k = -1;

-  [].find(function (val, key, obj) {
-    o = obj;
-    l = obj.length;
-    v = val;
-    k = key;
+  a.find(function(val, key, obj) {
+    o = obj;
+    l = obj.length;
+    v = val;
+    k = key;

-    return false;
-  });
+  return false;
+ });

-  assertEquals(-1, l);
-  assertEquals(-1, o);
-  assertEquals(-1, v);
-  assertEquals(-1, k);
+  assertEquals(-1, l);
+  assertEquals(-1, o);
+  assertEquals(-1, v);
+  assertEquals(-1, k);
})();

+
//
-// Test predicate is called with correct arguments

```

```

+// Test predicate is called with correct argumetns
//
-(function () {
-  var a = ["b"];
-  var l = -1;
-  var o = -1;
-  var v = -1;
-  var k = -1;
+(function() {
+  var a = ["b"];
+  var l = -1;
+  var o = -1;
+  var v = -1;
+  var k = -1;

-  var found = a.find(function (val, key, obj) {
-    o = obj;
-    l = obj.length;
-    v = val;
-    k = key;
+  var found = a.find(function(val, key, obj) {
+    o = obj;
+    l = obj.length;
+    v = val;
+    k = key;

-    return false;
-  });
+  return false;
+ });

-  assertArrayEquals(a, o);
-  assertEquals(a.length, l);
-  assertEquals("b", v);
-  assertEquals(0, k);
-  assertEquals(undefined, found);
+  assertArrayEquals(a, o);
+  assertEquals(a.length, l);
+  assertEquals("b", v);
+  assertEquals(0, k);
+  assertEquals(undefined, found);
  });

+
//
// Test predicate is called array.length times
//
-(function () {

```

```

- var a = [1, 2, 3, 4, 5];
- var l = 0;
- var sawUndefined = false;
- var predicate = function p(v) {
-   l++;
-   sawUndefined = sawUndefined || (v === undefined);
- };
+(function() {
+ var a = [1, 2, 3, 4, 5];
+ var l = 0;
+ var found = a.find(function() {
+   l++;
+   return false;
+ });

- a.find(predicate);
- assertEquals(a.length, l);
- assertFalse(sawUndefined);
-
- // even for sparse arrays
- a = new Array(10);
- l = 0;
- a.find(predicate);
- assertEquals(a.length, l);
- assertTrue(sawUndefined);
-
- a = [];
- a[10] = 1;
- l = 0;
- sawUndefined = false;
- a.find(predicate);
- assertEquals(a.length, l);
- assertTrue(sawUndefined);
+ assertEquals(a.length, l);
+ assertEquals(undefined, found);
})());

//
-// Test Array.prototype.find is generic and works with String
+// Test Array.prototype.find works with String
//
-(function () {
- var a = "abcd";
- var l = -1;
- var o = -1;
- var v = -1;
- var k = -1;

```



```

-   var found = Array.prototype.find.call(a, function (val, key, obj) {
-       o = obj.toString();
-       l = obj.length;
-       v = val;
-       k = key;
+(function() {
+   var a = "abcd";
+   var l = -1;
+   var o = -1;
+   var v = -1;
+   var k = -1;
+   var found = Array.prototype.find.call(a, function(val, key, obj) {
+       o = obj.toString();
+       l = obj.length;
+       v = val;
+       k = key;

-       return false;
-   });
+   return false;
+ });

-   assertEquals(a, o);
-   assertEquals(a.length, l);
-   assertEquals("d", v);
-   assertEquals(3, k);
-   assertEquals(undefined, found);
+   assertEquals(a, o);
+   assertEquals(a.length, l);
+   assertEquals("d", v);
+   assertEquals(3, k);
+   assertEquals(undefined, found);

-   found = Array.prototype.find.apply(a, [function (val, key, obj) {
-       o = obj.toString();
-       l = obj.length;
-       v = val;
-       k = key;
+   found = Array.prototype.find.apply(a, [function(val, key, obj) {
+       o = obj.toString();
+       l = obj.length;
+       v = val;
+       k = key;

-       return true;
-   }]);
+   return true;
+ });

```

```

-   assertEquals(a, o);
-   assertEquals(a.length, 1);
-   assertEquals("a", v);
-   assertEquals(0, k);
-   assertEquals("a", found);
+   assertEquals(a, o);
+   assertEquals(a.length, 1);
+   assertEquals("a", v);
+   assertEquals(0, k);
+   assertEquals("a", found);
})0;

-//
-// Test Array.prototype.find works with simple arraylike objects
-//
-(function () {
-   var o = {0: 0, 1: 1, 2: 2, length: 3};
-   assertEquals(o[2], Array.prototype.find.call(o, function (v) { return v === o[2]; }));
-   assertEquals(o[1], Array.prototype.find.apply(o, [function (v) { return v === o[1]; }]));

-   // object without `length` property defined,
-   // behaves as if it has `length` set 0
-   var empty = {0: 0, 1: 1, 2: 2};
-   var called = false;
-   Array.prototype.find.call(empty, function () { called = true; });
-   assertEquals(false, called);
+//
+// Test Array.prototype.find works with exotic object
+//
+(function() {
+   var l = -1;
+   var o = -1;
+   var v = -1;
+   var k = -1;
+   var a = {
+     prop1: "val1",
+     prop2: "val2",
+     isValid: function() {
+       return this.prop1 === "val1" && this.prop2 === "val2";
+     }
+   };
+
+   Array.prototype.push.apply(a, [30, 31, 32]);
+   var found = Array.prototype.find.call(a, function(val, key, obj) {
+     o = obj;
+     l = obj.length;
+     v = val;

```

```

+   k = key;
+
+   return !obj.isValid();
+ });
+
+   assertArrayEquals(a, o);
+   assertEquals(3, l);
+   assertEquals(32, v);
+   assertEquals(2, k);
+   assertEquals(undefined, found);
+ });

-//
-// Test Array.prototype.find works with mixed arraylike objects
-//
-(function () {
-   var l = -1;
-   var o = -1;
-   var v = -1;
-   var k = -1;
-   var a = {
-     prop1: "val1",
-     prop2: "val2",
-     isValid: function () {
-       return this.prop1 === "val1" && this.prop2 === "val2";
-     },
-     length: 0
-   };
-
-   Array.prototype.push.apply(a, [30, 31, 32]);
-   var found = Array.prototype.find.call(a, function (val, key, obj) {
-     o = obj;
-     l = obj.length;
-     v = val;
-     k = key;
-
-     return !obj.isValid();
-   });
-
-   assertArrayEquals(a, o);
-   assertEquals(3, l);
-   assertEquals(32, v);
-   assertEquals(2, k);
-   assertEquals(undefined, found);
-})();

-//
-// Test Array.prototype.find works with arraylike object with getters

```

```

-//
-(function () {
-  var count = 0;
-  var a = { get 0() { return count++; }, length: 1 };
-  // FIXME: right now, Rhino will get raw getter function
-  //   during iteration and use it as a value passed to predicate
-  //Array.prototype.find.call(a, (function () { return true; }));
-  //assertEquals(1, count);
-})();
-
-//
-// Test Array.prototype.find iteration includes inherited properties
-//
-(function () {
-  var o1 = {0: 0, 1: 1};
-  var o2 = {2: 2, length: 3};
-  // FIXME: use Object.setPrototypeOf instead
-  o2.__proto__ = o1;
-  var a = [];
-  Array.prototype.find.call(o2, function (v) { a.push(v); });
-  assertEquals([0, 1, 2], a);
-  assertEquals(o1[0], Array.prototype.find.call(o2, function () { return true; }));
-})();

//
// Test array modifications
//
-(function () {
-  var a = [1, 2, 3];
-  var found = a.find(function (val) {
-    a.push(val);
-    return false;
-  });
-  assertEquals([1, 2, 3, 1, 2, 3], a);
-  assertEquals(6, a.length);
-  assertEquals(undefined, found);
+(function() {
+  var a = [1, 2, 3];
+  var found = a.find(function(val) { a.push(val); return false; });
+  assertEquals([1, 2, 3, 1, 2, 3], a);
+  assertEquals(6, a.length);
+  assertEquals(undefined, found);

-  a = [1, 2, 3];
-  found = a.find(function (val, key) {
-    a[key] = ++val;
-    return false;
-  });

```

```

-   assertEquals([2, 3, 4], a);
-   assertEquals(3, a.length);
-   assertEquals(undefined, found);
+   a = [1, 2, 3];
+   found = a.find(function(val, key) { a[key] = ++val; return false; });
+   assertEquals([2, 3, 4], a);
+   assertEquals(3, a.length);
+   assertEquals(undefined, found);
    });

+
+//
+// Test predicate is only called for existing elements
+//
+(function() {
+   var a = new Array(30);
+   a[11] = 21;
+   a[7] = 10;
+   a[29] = 31;
+
+   var count = 0;
+   a.find(function() { count++; return false; });
+   assertEquals(3, count);
+})();

+
+
+//
+// Test thisArg
+//
-(function () {
-   // If thisArg is not provided, predicate is invoked with this set to `undefined`
-   // FIXME:
-   // var o = -1;
-   // [1,2].find(function () { o = this; });
-   // assertEquals(undefined, o);
+(function() {
+   // Test String as a thisArg
+   var found = [1, 2, 3].find(function(val, key) {
+   return this.charAt(Number(key)) === String(val);
+   }, "321");
+   assertEquals(2, found);

-   // Test String as a thisArg
-   var found = [1, 2, 3].find(function (val, key) {
-   return this.charAt(Number(key)) === String(val);
-   }, "321");
-   assertEquals(2, found);
+   // Test object as a thisArg

```

```

+ var thisArg = {
+   elementAt: function(key) {
+     return this[key];
+   }
+ };
+ Array.prototype.push.apply(thisArg, ["c", "b", "a"]);

- // Test object as a thisArg
- var thisArg = {
-   elementAt: function (key) {
-     return this[key];
-   }
- };
- Array.prototype.push.apply(thisArg, ["c", "b", "a"]);
-
- found = ["a", "b", "c"].find(function (val, key) {
-   return this.elementAt(key) === val;
- }, thisArg);
- assertEquals("b", found);
-
- // Test array itself as thisArg
- var o;
- var a = [1, 2];
- a.find(function () { o = this; }, a);
- assertEquals(a, o);
+ found = ["a", "b", "c"].find(function(val, key) {
+   return this.elementAt(key) === val;
+ }, thisArg);
+ assertEquals("b", found);
+ });

// Test exceptions
diff --git a/testsrc/jstests/harmony/array-findIndex.js b/testsrc/jstests/harmony/array-findIndex.js
index 6a7ce28..000e3db 100644
--- a/testsrc/jstests/harmony/array-findIndex.js
+++ b/testsrc/jstests/harmony/array-findIndex.js
@@ -1,64 +1,27 @@
-// This Source Code Form is subject to the terms of the Mozilla Public
-// License, v. 2.0. If a copy of the MPL was not distributed with this
-// file, You can obtain one at http://mozilla.org/MPL/2.0/.
-
load("testsrc/assert.js");

-//
-// Test The length of 'Array.prototype.findIndex' is 1
-// (22.1.3.9)
-(function () {
-   assertEquals(1, Array.prototype.findIndex.length);

```

```

-})();
+assertEquals(1, Array.prototype.findIndex.length);

-//
-// Quick check for base cases
-//
-(function () {
-  var a = [21, 22, 23, 24];
+var a = [21, 22, 23, 24];
+assertEquals(-1, a.findIndex(function() { return false; }));
+assertEquals(-1, a.findIndex(function(val) { return 121 === val; }));
+assertEquals(0, a.findIndex(function() { return true; }));
+assertEquals(1, a.findIndex(function(val) { return 22 === val; }), undefined);
+assertEquals(2, a.findIndex(function(val) { return 23 === val; }), null);
+assertEquals(3, a.findIndex(function(val) { return 24 === val; }));

-  // well, it works
-  assertEquals(0, a.findIndex(function () { return true; }));
-
-  // predicate is called with current value, index and object on which `findIndex()` was called
-  assertEquals(3, a.findIndex(function (val, i, array) { return array === a && i === 3; }));
-
-  // 'this' can be augmented by second optional parameter
-  var thisArg = {};
-  assertEquals(0, a.findIndex(function () { return this === thisArg; }, thisArg));
-
-  // when nothing found, `-1` is returned
-  assertEquals(-1, a.findIndex(function () { return false; }));
-
-  // it is not required to return Boolean, it will be automatically casted
-  assertEquals(2, a.findIndex(function (val) { return (val === a[2] ? "true" : null); }));
-})();
-
-//
-// Test predicate is anything that has [[Call]] internal method
-//
-(function () {
-  var a = [21, 22, 23, 24];
-
-  // `InterpretedFunction` or `?` extends `NativeFunction`
-  assertEquals(0, a.findIndex(function () { return true; }));
-  // `IdScriptableObject`
-  assertEquals(0, a.findIndex(Object.prototype.toString));
-  assertEquals(0, a.findIndex(String));
-  // `BoundFunction`
-  assertEquals(0, a.findIndex((function () { return true; }).bind({})))
-})();

```

```

//
// Test predicate is not called when array is empty
//
-(function () {
+(function() {
+  var a = [];
  var l = -1;
  var o = -1;
  var v = -1;
  var k = -1;

-  [].findIndex(function (val, key, obj) {
+  a.findIndex(function(val, key, obj) {
    o = obj;
    l = obj.length;
    v = val;
@@ -73,17 +36,18 @@ load("testsrc/assert.js");
    assertEquals(-1, k);
  })();

+
//
-// Test predicate is called with correct arguments
+// Test predicate is called with correct argumetns
//
-(function () {
+(function() {
  var a = ["b"];
  var l = -1;
  var o = -1;
  var v = -1;
  var k = -1;

-  var found = a.findIndex(function (val, key, obj) {
+  var index = a.findIndex(function(val, key, obj) {
    o = obj;
    l = obj.length;
    v = val;
@@ -96,52 +60,37 @@ load("testsrc/assert.js");
    assertEquals(a.length, l);
    assertEquals("b", v);
    assertEquals(0, k);
-  assertEquals(-1, found);
+  assertEquals(-1, index);
  })();

+
//

```



```

// Test predicate is called array.length times
//
-(function () {
+(function() {
  var a = [1, 2, 3, 4, 5];
  var l = 0;
-   var sawUndefined = false;
-   var predicate = function p(v) {
+
+   a.findIndex(function() {
      l++;
-     sawUndefined = sawUndefined || (v === undefined);
-   });
+     return false;
+   });

-   a.findIndex(predicate);
  assertEquals(a.length, l);
-   assertFalse(sawUndefined);
-
-   // even for sparse arrays
-   a = new Array(10);
-   l = 0;
-   a.findIndex(predicate);
-   assertEquals(a.length, l);
-   assertTrue(sawUndefined);
-
-   a = [];
-   a[10] = 1;
-   l = 0;
-   sawUndefined = false;
-   a.findIndex(predicate);
-   assertEquals(a.length, l);
-   assertTrue(sawUndefined);
  })();

//
-// Test Array.prototype.findIndex is generic and works with String
+// Test Array.prototype.findIndex works with String
//
-(function () {
+(function() {
  var a = "abcd";
  var l = -1;
  var o = -1;
  var v = -1;
  var k = -1;

```

```

-   var found = Array.prototype.findIndex.call(a, function (val, key, obj) {
+
+   var index = Array.prototype.findIndex.call(a, function(val, key, obj) {
      o = obj.toString();
      l = obj.length;
      v = val;
@@ -154,9 +103,9 @@ load("testsrc/assert.js");
      assertEquals(a.length, l);
      assertEquals("d", v);
      assertEquals(3, k);
-   assertEquals(-1, found);
+   assertEquals(-1, index);

-   found = Array.prototype.findIndex.apply(a, [function (val, key, obj) {
+   index = Array.prototype.findIndex.apply(a, [function(val, key, obj) {
      o = obj.toString();
      l = obj.length;
      v = val;
@@ -169,29 +118,14 @@ load("testsrc/assert.js");
      assertEquals(a.length, l);
      assertEquals("a", v);
      assertEquals(0, k);
-   assertEquals(0, found);
+   assertEquals(0, index);
    })();

-//
-// Test Array.prototype.findIndex works with simple arraylike objects
-//
-(function () {
-   var o = {0: 0, 1: 1, 2: 2, length: 3};
-   assertEquals(2, Array.prototype.findIndex.call(o, function (v) { return v == o[2]; }));
-   assertEquals(1, Array.prototype.findIndex.apply(o, [function (v) { return v == o[1]; }]));
-
-   // object without `length` property defined,
-   // behaves as if it has `length` set 0
-   var empty = {0: 0, 1: 1, 2: 2};
-   var called = false;
-   Array.prototype.findIndex.call(empty, function () { called = true; });
-   assertEquals(false, called);
-})();

//
-// Test Array.prototype.findIndex works with mixed arraylike objects
+// Test Array.prototype.findIndex works with exotic object
//
-(function () {
+(function() {

```

```

var l = -1;
var o = -1;
var v = -1;
@@ -199,14 +133,14 @@ load("testsrc/assert.js");
var a = {
  prop1: "val1",
  prop2: "val2",
-  isValid: function () {
+  isValid: function() {
    return this.prop1 === "val1" && this.prop2 === "val2";
-  },
-  length: 0
+  }
};

Array.prototype.push.apply(a, [30, 31, 32]);
- var found = Array.prototype.findIndex.call(a, function (val, key, obj) {
+
+ var index = Array.prototype.findIndex.call(a, function(val, key, obj) {
  o = obj;
  l = obj.length;
  v = val;
@@ -219,92 +153,63 @@ load("testsrc/assert.js");
  assertEquals(3, l);
  assertEquals(32, v);
  assertEquals(2, k);
-  assertEquals(-1, found);
+  assertEquals(-1, index);
})();

-//
-// Test Array.prototype.findIndex works with arraylike object with getters
-//
-(function () {
-  var count = 0;
-  var a = { get 0() { return count++; }, length: 1 };
-  // FIXME: right now, Rhino will get raw getter function
-  //   during iteration and use it as a value passed to predicate
-  //Array.prototype.findIndex.call(a, (function () { return true; }));
-  //assertEquals(1, count);
-})();
-
-//
-// Test Array.prototype.findIndex iteration includes inherited properties
-//
-(function () {
-  var o1 = {0: 0, 1: 1};
-  var o2 = {2: 2, length: 3};

```

```

- // FIXME: use Object.setPrototypeOf instead
- o2.__proto__ = o1;
- var a = [];
- Array.prototype.findIndex.call(o2, function (v) { a.push(v); });
- assertEquals([0, 1, 2], a);
- assertEquals(0, Array.prototype.findIndex.call(o2, function () { return true; }));
-})();

//
// Test array modifications
//
-(function () {
+(function() {
  var a = [1, 2, 3];
-   var found = a.findIndex(function (val) {
-     a.push(val);
-     return false;
-   });
+   a.findIndex(function(val) { a.push(val); return false; });
  assertEquals([1, 2, 3, 1, 2, 3], a);
  assertEquals(6, a.length);
-   assertEquals(-1, found);

  a = [1, 2, 3];
-   found = a.findIndex(function (val, key) {
-     a[key] = ++val;
-     return false;
-   });
+   a.findIndex(function(val, key) { a[key] = ++val; return false; });
  assertEquals([2, 3, 4], a);
  assertEquals(3, a.length);
-   assertEquals(-1, found);
})();

+
+//
+// Test predicate is only called for existing elements
+//
+(function() {
+  var a = new Array(30);
+  a[11] = 21;
+  a[7] = 10;
+  a[29] = 31;
+
+  var count = 0;
+  a.findIndex(function() { count++; return false; });
+  assertEquals(3, count);
+})();

```

```

+
+
//
// Test thisArg
//
-(function () {
- // If thisArg is not provided, predicate is invoked with this set to `undefined`
- // FIXME:
- // var o = -1;
- //[1,2].findIndex(function () { o = this; });
- //assertEquals(undefined, o);
-
- // Test String as a thisArg
- var found = [1, 2, 3].findIndex(function (val, key) {
+(function() {
+// Test String as a thisArg
+ var index = [1, 2, 3].findIndex(function(val, key) {
+   return this.charAt(Number(key)) === String(val);
+ }, "321");
- assertEquals(1, found);
+ assertEquals(1, index);

- // Test object as a thisArg
+// Test object as a thisArg
  var thisArg = {
-   elementAt: function (key) {
+   elementAt: function(key) {
+     return this[key];
+   }
+ };
  Array.prototype.push.apply(thisArg, ["c", "b", "a"]);

- found = ["a", "b", "c"].findIndex(function (val, key) {
+ index = ["a", "b", "c"].findIndex(function(val, key) {
+   return this.elementAt(key) === val;
+ }, thisArg);
- assertEquals(1, found);
-
- // Test array itself as thisArg
- var o;
- var a = [1, 2];
- a.findIndex(function () { o = this; }, a);
- assertEquals(a, o);
+ assertEquals(1, index);
})());

// Test exceptions
@@ -343,4 +248,4 @@ assertThrows('Array.prototype.findIndex.apply({}, {}, [])', TypeError);

```

```

assertThrows('Array.prototype.findIndex.apply({}, [], [])', TypeError);
assertThrows('Array.prototype.findIndex.apply({}, ^d+/, [])', TypeError);

-"success";
+"success";
\ No newline at end of file
diff --git a/testsrc/jstests/harmony/for-of.js b/testsrc/jstests/harmony/for-of.js
deleted file mode 100644
index af51d6f..0000000
--- a/testsrc/jstests/harmony/for-of.js
+++ /dev/null
@@ -1,162 +0,0 @@
-
-load("testsrc/assert.js");
-
-// Array
-var r = [];
-for (var n of [1, 2, 3]) {
- r.push(n*2);
-}
-assertEquals('2,4,6', r.join());
-
-var r = [];
-for (var n of [1, 2, 3]) {
- for (var m of [4, 5, 6]) {
- r.push(n + m);
- }
-}
-assertEquals('5,6,7,6,7,8,7,8,9', r.join());
-
-var a = [0];
-var r = [];
-var i = 0;
-for (var n of a) {
- i++;
- if (i < 3) {
- a[i] = i;
- }
- r.push(n);
-}
-assertEquals('0,1,2', r.join());
-
-var a = [0, 1, 2];
-var r = [];
-var i = 0;
-for (var n of a) {
- a.length = 0;
- r.push(n);

```

```

-}
-assertEquals('0', r.join());
-
-// Array like
-var a = {
- '0': 'foo',
- '1': 'bar',
- length: 2
-};
-var ite = Array.prototype[Symbol.iterator].call(a);
-var r;
-r = ite.next();
-assertEquals('foo', r.value);
-assertFalse(r.done);
-r = ite.next();
-assertEquals('bar', r.value);
-assertFalse(r.done);
-r = ite.next();
-assertTrue(r.done);
-
-// Other
-var a = {};
-a[Symbol.iterator] = function() {
- var n = 0;
- return {
- next: function() {
- if (n >= 3) {
- return {
- done: true
- };
- }
- return {
- value: n++,
- done: false
- };
- }
- };
-};
-var r = [];
-for (var n of a) {
- r.push(n);
-}
-assertEquals('0,1,2', r.join());
-
-var a = [12];
-Object.defineProperty(a, 0, {
- enumerable: false
-});

```

```

-for (var n of a) {
- assertEquals(12, n);
-}
-
-// String
-var a = 'abc';
-var r = '';
-for (var c of a) {
- r += c.toUpperCase();
-}
-assertEquals('ABC', r);
-
-// No iterable
-assertThrows(function() {
- for (var n of null) {}
-}, TypeError);
-
-assertThrows(function() {
- for (var n of 0) {}
-}, TypeError);
-
-assertThrows(function() {
- var a = {};
- a[Symbol.iterator] = function() {
- return 0;
- };
- for (var n of 1) {}
-}, TypeError);
-
-// Array comprehension
-assertEquals('1,4,9', [n*n for (n of [1, 2, 3]).join());
-assertEquals('5,6,7,6,7,8,7,8,9', [n+m for (n of [1, 2, 3]) for (m of [4, 5, 6]).join());
-
-// 'of' is not ECMAScript keywords.
-var of = 10;
-assertEquals(10, of);
-
-(function() {
- function of() { return 12; }
- assertEquals(12, of());
-})();
-
-function f(of) { return of*2; }
-assertEquals(24, f(12));
-
-// for each-of is SyntaxError
-assertThrows('for each (n of [1,2]) {}', SyntaxError);
-

```



```

-assertThrows('[n*n for each (n of [1,2])]', SyntaxError);
-
-assertEquals('[Symbol.iterator]', Array.prototype[Symbol.iterator].name);
-assertEquals('[Symbol.iterator]', String.prototype[Symbol.iterator].name);
-
-// should have `value` and `done` property.
-var a = { };
-a[Symbol.iterator] = function() {
- return {
- next() {
- return null;
- }
- };
-};
-assertThrows(function() {
- for (var b of a);
-}, TypeError);
-
-var string = "";
-var first = "";
-var second = "";
-var third = "";
-for (var c of string) {
- assertEquals(c, first);
- first = second;
- second = third;
- third = null;
-}
-
-"success"
diff --git a/testsrc/jstests/harmony/math-functions.js b/testsrc/jstests/harmony/math-functions.js
deleted file mode 100644
index 5b0eabe..0000000
--- a/testsrc/jstests/harmony/math-functions.js
+++ /dev/null
@@ -1,57 +0,0 @@
-load("testsrc/assert.js");
-
-assertEquals(Math.cbrt(-1), -1);
-assertEquals(Math.cbrt(0), 0);
-assertEquals(Math.cbrt(1), 1);
-assertEquals(Math.cbrt(2), 1.2599210498948732);
-
-assertEquals(Math.cosh(0), 1);
-assertEquals(Math.cosh(1), 1.543080634815244);
-assertEquals(Math.cosh(-1), 1.543080634815244);
-
-assertEquals(Math.expm1(-1), -0.6321205588285577);

```

```
-assertEquals(Math.expm1(0), 0);
-assertEquals(Math.expm1(1), 1.718281828459045);
-
-assertEquals(Math.hypot(3, 4), 5);
-assertEquals(Math.hypot(3, 4, 5), 7.0710678118654755);
-assertEquals(Math.hypot(), 0);
-assertEquals(Math.hypot(NaN), NaN);
-assertEquals(Math.hypot(3, 4, 'foo'), NaN);
-assertEquals(Math.hypot(3, 4, '5'), 7.0710678118654755);
-assertEquals(Math.hypot(-3), 3);
-
-assertEquals(Math.log1p(1), 0.6931471805599453);
-assertEquals(Math.log1p(0), 0);
-assertEquals(Math.log1p(-1), -Infinity);
-assertEquals(Math.log1p(-2), NaN);
-
-assertEquals(Math.log10(2), 0.3010299956639812);
-assertEquals(Math.log10(1), 0);
-assertEquals(Math.log10(0), -Infinity);
-assertEquals(Math.log10(-2), NaN);
-assertEquals(Math.log10(100000), 5);
-
-assertEquals(Math.sinh(0), 0);
-assertEquals(Math.sinh(1), 1.1752011936438014);
-
-assertEquals(Math.tanh(0), 0);
-assertEquals(Math.tanh(Infinity), 1);
-assertEquals(Math.tanh(1), 0.7615941559557649);
-
-assertEquals(Math.trunc(13.37), 13);
-assertEquals(Math.trunc(42.84), 42);
-assertEquals(Math.trunc(0.123), 0);
-assertEquals(Math.trunc(-0.123), -0);
-assertEquals(Math.trunc('-1.123'), -1);
-assertEquals(Math.trunc(NaN), NaN);
-assertEquals(Math.trunc('foo'), NaN);
-assertEquals(Math.trunc(), NaN);
-
-assertEquals(Math.imul(2, 4), 8);
-assertEquals(Math.imul(-1, 8), -8);
-assertEquals(Math.imul(-2, -2), 4);
-assertEquals(Math.imul(0xffffffff, 5), -5);
-assertEquals(Math.imul(0xffffffe, 5), -10);
-
-"success";
diff --git a/testsrc/jstests/harmony/method-definition.js b/testsrc/jstests/harmony/method-definition.js
deleted file mode 100644
index 77f2581..0000000
```

```

--- a/testsrc/jstests/harmony/method-definition.js
+++ /dev/null
@@ -1,82 +0,0 @@
-// This Source Code Form is subject to the terms of the Mozilla Public
-// License, v. 2.0. If a copy of the MPL was not distributed with this
-// file, You can obtain one at http://mozilla.org/MPL/2.0/.
-
-load("testsrc/assert.js");
-
-var obj;
-
-obj = {
-  a() {
-    return 123;
-  }
-};
-assertEquals(123, obj.a());
-// assertEquals("a", obj.a.name);
-
-assertEquals("abcefg", {
-  abc() {
-    return "abc";
-  },
-  efg() {
-    return this.abc() + "efg";
-  }
-}.efg());
-
-obj = {
-  get() {
-    return 123;
-  }
-};
-assertEquals(123, obj.get());
-// assertEquals("get", obj.get.name);
-
-obj = {
-  set() {
-    return 123;
-  }
-};
-assertEquals(123, obj.set());
-// assertEquals("set", obj.set.name);
-
-assertEquals("\n" +
-"function () {\n" +
-"  +f() {\n" +
-"    print(1);\n" +

```

```

-"  });\n" +
-"}\n", (function() { +{ f() { print(1); }}; }).toString());
-
-// Allow reserved word
-assertEquals(123, {
-  if() {
-    return 123;
-  }
-}.if());
-
-// Allow NumericLiteral
-assertEquals(123, {
-  123() {
-    return 123;
-  }
-}[123]());
-
-// Allow StringLiteral
-assertEquals(123, {
-  'abc'() {
-    return 123;
-  }
-}.abc());
-
-// Method is the kind of function, that is non-constructor.
-// assertThrows('new ({ a() { } }).a', TypeError);
-
-var desc = Object.getOwnPropertyDescriptor({
-  a() {
-    return 123;
-  }
-}, 'a');
-assertEquals(true, desc.writable);
-assertEquals(true, desc.enumerable);
-assertEquals(true, desc.configurable);
-
-"success";
diff --git a/testsrc/jstests/harmony/number-is.js b/testsrc/jstests/harmony/number-is.js
deleted file mode 100644
index cca8193..0000000
--- a/testsrc/jstests/harmony/number-is.js
+++ /dev/null
@@ -1,131 +0,0 @@
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-// modification, are permitted provided that the following conditions are
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```

```

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-// THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
-// (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
-// OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
-
-// Test number predicates that Harmony adds to the Number constructor:
-// isFinite(), isNaN(), isInteger(), isSafeInteger().
-
-load("testsrc/assert.js");
-
-assertTrue(Number.isFinite(0));
-assertTrue(Number.isFinite(Number.MIN_VALUE));
-assertTrue(Number.isFinite(Number.MAX_VALUE));
-assertTrue(Number.isFinite(Number.MIN_SAFE_INTEGER));
-assertTrue(Number.isFinite(Number.MIN_SAFE_INTEGER - 13));
-assertTrue(Number.isFinite(Number.MAX_SAFE_INTEGER));
-assertTrue(Number.isFinite(Number.MAX_SAFE_INTEGER + 23));
-assertFalse(Number.isFinite(Number.NaN));
-assertFalse(Number.isFinite(Number.POSITIVE_INFINITY));
-assertFalse(Number.isFinite(Number.NEGATIVE_INFINITY));
-assertFalse(Number.isFinite(new Number(0)));
-assertFalse(Number.isFinite(1/0));
-assertFalse(Number.isFinite(-1/0));
-assertFalse(Number.isFinite({}));
-assertFalse(Number.isFinite([]));
-assertFalse(Number.isFinite("s"));
-assertFalse(Number.isFinite(null));
-assertFalse(Number.isFinite(undefined));
-
-assertFalse(Number.isNaN(0));
-assertFalse(Number.isNaN(Number.MIN_VALUE));

```

```

-assertFalse(Number.isNaN(Number.MAX_VALUE));
-assertFalse(Number.isNaN(Number.MIN_SAFE_INTEGER - 13));
-assertFalse(Number.isNaN(Number.MAX_SAFE_INTEGER + 23));
-assertTrue(Number.isNaN(Number.NaN));
-assertFalse(Number.isNaN(Number.POSITIVE_INFINITY));
-assertFalse(Number.isNaN(Number.NEGATIVE_INFINITY));
-assertFalse(Number.isNaN(Number.EPSILON));
-assertFalse(Number.isNaN(new Number(0)));
-assertFalse(Number.isNaN(1/0));
-assertFalse(Number.isNaN(-1/0));
-assertFalse(Number.isNaN({ }));
-assertFalse(Number.isNaN([]));
-assertFalse(Number.isNaN("s"));
-assertFalse(Number.isNaN(null));
-assertFalse(Number.isNaN(undefined));
-
-assertFalse(Number.isInteger({ }));
-assertFalse(Number.isInteger([]));
-assertFalse(Number.isInteger("s"));
-assertFalse(Number.isInteger(null));
-assertFalse(Number.isInteger(undefined));
-assertFalse(Number.isInteger(new Number(2)));
-assertTrue(Number.isInteger(0));
-assertFalse(Number.isInteger(Number.MIN_VALUE));
-assertTrue(Number.isInteger(Number.MAX_VALUE));
-assertTrue(Number.isInteger(Number.MIN_SAFE_INTEGER));
-assertTrue(Number.isInteger(Number.MIN_SAFE_INTEGER - 13));
-assertTrue(Number.isInteger(Number.MAX_SAFE_INTEGER));
-assertTrue(Number.isInteger(Number.MAX_SAFE_INTEGER + 23));
-assertFalse(Number.isInteger(Number.NaN));
-assertFalse(Number.isInteger(Number.POSITIVE_INFINITY));
-assertFalse(Number.isInteger(Number.NEGATIVE_INFINITY));
-assertFalse(Number.isInteger(1/0));
-assertFalse(Number.isInteger(-1/0));
-assertFalse(Number.isInteger(Number.EPSILON));
-
-assertFalse(Number.isSafeInteger({ }));
-assertFalse(Number.isSafeInteger([]));
-assertFalse(Number.isSafeInteger("s"));
-assertFalse(Number.isSafeInteger(null));
-assertFalse(Number.isSafeInteger(undefined));
-assertFalse(Number.isSafeInteger(new Number(2)));
-assertTrue(Number.isSafeInteger(0));
-assertTrue(Number.isSafeInteger(Number.MIN_SAFE_INTEGER));
-assertFalse(Number.isSafeInteger(Number.MIN_SAFE_INTEGER - 13));
-assertTrue(Number.isSafeInteger(Number.MIN_SAFE_INTEGER + 13));
-assertTrue(Number.isSafeInteger(Number.MAX_SAFE_INTEGER));
-assertFalse(Number.isSafeInteger(Number.MAX_SAFE_INTEGER + 23));

```

```

-assertTrue(Number.isSafeInteger(Number.MAX_SAFE_INTEGER - 23));
-assertFalse(Number.isSafeInteger(Number.MIN_VALUE));
-assertFalse(Number.isSafeInteger(Number.MAX_VALUE));
-assertFalse(Number.isSafeInteger(Number.NaN));
-assertFalse(Number.isSafeInteger(Number.POSITIVE_INFINITY));
-assertFalse(Number.isSafeInteger(Number.NEGATIVE_INFINITY));
-assertFalse(Number.isSafeInteger(1/0));
-assertFalse(Number.isSafeInteger(-1/0));
-assertFalse(Number.isSafeInteger(Number.EPSILON));
-
-var near_upper = Math.pow(2, 52);
-assertTrue(Number.isSafeInteger(near_upper));
-assertFalse(Number.isSafeInteger(2 * near_upper));
-assertTrue(Number.isSafeInteger(2 * near_upper - 1));
-assertTrue(Number.isSafeInteger(2 * near_upper - 2));
-assertFalse(Number.isSafeInteger(2 * near_upper + 1));
-assertFalse(Number.isSafeInteger(2 * near_upper + 2));
-assertFalse(Number.isSafeInteger(2 * near_upper + 7));
-
-var near_lower = -near_upper;
-assertTrue(Number.isSafeInteger(near_lower));
-assertFalse(Number.isSafeInteger(2 * near_lower));
-assertTrue(Number.isSafeInteger(2 * near_lower + 1));
-assertTrue(Number.isSafeInteger(2 * near_lower + 2));
-assertFalse(Number.isSafeInteger(2 * near_lower - 1));
-assertFalse(Number.isSafeInteger(2 * near_lower - 2));
-assertFalse(Number.isSafeInteger(2 * near_lower - 7));
-
-"success";
-
diff --git a/testsrc/jstests/harmony/parse-int-float.js b/testsrc/jstests/harmony/parse-int-float.js
deleted file mode 100644
index f07b23f..0000000
--- a/testsrc/jstests/harmony/parse-int-float.js
+++ /dev/null
@@ -1,134 +0,0 @@
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-// THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
-// (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
-// OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
-
-load("testsrc/assert.js");
-
-assertEquals(0, parseInt('0'));
-assertEquals(0, parseInt(' 0'));
-assertEquals(0, parseInt(' 0 '));
-
-// Not yet supported in Rhino
-/*
-assertEquals(77, parseInt('077'));
-assertEquals(77, parseInt(' 077'));
-assertEquals(77, parseInt(' 077 '));
-assertEquals(-77, parseInt(' -077'));
-*/
-
-assertEquals(3, parseInt('11', 2));
-assertEquals(4, parseInt('11', 3));
-assertEquals(4, parseInt('11', 3.8));
-
-assertEquals(0x12, parseInt('0x12'));
-assertEquals(0x12, parseInt('0x12', 16));
-assertEquals(0x12, parseInt('0x12', 16.1));
-assertEquals(0x12, parseInt('0x12', NaN));
-assertTrue(isNaN(parseInt('0x ')));
-assertTrue(isNaN(parseInt('0x')));
-assertTrue(isNaN(parseInt('0x ', 16)));
-assertTrue(isNaN(parseInt('0x', 16)));
-assertEquals(12, parseInt('12aaa'));
-
-assertEquals(0.1, parseFloat('0.1'));
-assertEquals(0.1, parseFloat('0.1aaa'));
-assertEquals(0, parseFloat('0aaa'));
-assertEquals(0, parseFloat('0x12'));
-assertEquals(77, parseFloat('077'));

```



```

-var throwingRadix = { valueOf: function() { state = "throwingRadix"; throw null; } };
-var throwingString = { toString: function() { state = "throwingString"; throw null; } };
-state = null;
-try { parseInt('123', throwingRadix); } catch (e) {}
-assertEquals(state, "throwingRadix");
-
-state = null;
-try { parseInt(throwingString, 10); } catch (e) {}
-assertEquals(state, "throwingString");
-
-state = null;
-try { parseInt(throwingString, throwingRadix); } catch (e) {}
-assertEquals(state, "throwingString");
-
-// And finally, check that the Harmony additions to the Number
-// constructor is available:
-assertTrue("parseInt" in Number);
-assertTrue("parseFloat" in Number);
-// V8 makes these the same function -- no reason to do that (or way) in Rhino.
-//assertSame( Number.parseInt, parseInt);
-//assertSame(Number.parseFloat, parseFloat);
-assertEquals(Number.parseFloat('0.1'), parseFloat('0.1'));
-assertEquals(Number.parseInt('0xea'), parseInt('0xEA'));
-
-"success";
-
diff --git a/testsrc/jstests/harmony/property-ordering.js b/testsrc/jstests/harmony/property-ordering.js
deleted file mode 100644
index 096fe55..0000000
--- a/testsrc/jstests/harmony/property-ordering.js
+++ /dev/null
@@ -1,37 +0,0 @@
-load("testsrc/assert.js");
-
-function verifyOrder(o, a) {
-  assertArrayEquals(a, Object.keys(o));
-  n = [];
-  for (var k in o) {
-    n.push(k);
-  }
-  assertArrayEquals(a, n);
-}
-
-var o = {
-  "z": 1,
-  "b": 2,
-  "d": 3,
-};

```

```

-o.x = 4;
-verifyOrder(o, [ "z", "b", "d", "x" ]);
-
-o = {
- 10: 1,
- 2: 2,
- 9: 3,
-};
-o[3] = 4;
-verifyOrder(o, [ "2", "3", "9", "10" ]);
-
-o = {
- "z": 1,
- 3: 2,
- "c": 3,
-};
-o.b = 4;
-o[99] = 5;
-verifyOrder(o, [ "3", "99", "z", "c", "b" ]);
-
-"success";
diff --git a/testsrc/jstests/harmony/symbols.js b/testsrc/jstests/harmony/symbols.js
deleted file mode 100644
index 459336c..0000000
--- a/testsrc/jstests/harmony/symbols.js
+++ /dev/null
@@ -1,24 +0,0 @@
-load("testsrc/assert.js");
-
-assertTrue(Symbol.iterator !== undefined);
-let desc = Object.getOwnPropertyDescriptor(Symbol, "iterator");
-assertFalse(desc.writable);
-assertFalse(desc.configurable);
-assertFalse(desc.enumerable);
-
-assertTrue(Symbol.toStringTag !== undefined);
-desc = Object.getOwnPropertyDescriptor(Symbol, "toStringTag");
-assertFalse(desc.writable);
-assertFalse(desc.configurable);
-assertFalse(desc.enumerable);
-
-assertTrue(Symbol.species !== undefined);
-desc = Object.getOwnPropertyDescriptor(Symbol, "species");
-assertFalse(desc.writable);
-assertFalse(desc.configurable);
-assertFalse(desc.enumerable);
-
-assertEquals("symbol", typeof Symbol());

```

```

-assertEquals("symbol", typeof Symbol("qwe"));
-
-"success";
diff --git a/testsrc/jstests/inc-dec.js b/testsrc/jstests/inc-dec.js
deleted file mode 100644
index a64189a..0000000
--- a/testsrc/jstests/inc-dec.js
+++ /dev/null
@@ -1,61 +0,0 @@
-load("testsrc/assert.js");
-
-var v1, v2, v3, v4;
-
-assertEquals(NaN, ++v1);
-assertEquals(NaN, --v2);
-assertEquals(NaN, v3++);
-assertEquals(NaN, v4--);
-
-const c1 = undefined, c2 = undefined, c3 = undefined, c4 = undefined;
-
-assertEquals(NaN, ++c1);
-assertEquals(NaN, --c2);
-assertEquals(NaN, c3++);
-assertEquals(NaN, c4--);
-assertEquals(undefined, c1);
-assertEquals(undefined, c2);
-assertEquals(undefined, c3);
-assertEquals(undefined, c4);
-
-let l1, l2, l3, l4;
-
-assertEquals(NaN, ++l1);
-assertEquals(NaN, --l2);
-assertEquals(NaN, l3++);
-assertEquals(NaN, l4--);
-
-(function(a1, a2, a3, a4) {
- var v1, v2, v3, v4;
-
- assertEquals(NaN, ++v1);
- assertEquals(NaN, --v2);
- assertEquals(NaN, v3++);
- assertEquals(NaN, v4--);
-
- assertEquals(NaN, ++a1);
- assertEquals(NaN, --a2);
- assertEquals(NaN, a3++);
- assertEquals(NaN, a4--);

```

```

-
- // const c1 = undefined, c2 = undefined, c3 = undefined, c4 = undefined;
-
- // assertThrows('++c1',TypeError);
- // assertThrows('--c2',TypeError);
- // assertThrows('c3++',TypeError);
- // assertThrows('c4--',TypeError);
- // assertEquals(undefined, c1);
- // assertEquals(undefined, c2);
- // assertEquals(undefined, c3);
- // assertEquals(undefined, c4);
-
- let l1, l2, l3, l4;
-
- assertEquals(NaN, ++l1);
- assertEquals(NaN, --l2);
- assertEquals(NaN, l3++);
- assertEquals(NaN, l4--);
-})();
-
-
-"success";
diff --git a/testsrc/jstests/inside-strict-mode.js b/testsrc/jstests/inside-strict-mode.js
deleted file mode 100644
index b8ff5e8..0000000
--- a/testsrc/jstests/inside-strict-mode.js
+++ /dev/null
@@ -1,30 +0,0 @@
-load("testsrc/assert.js");
-
-assertThrows(function() {
- 'use strict';
- return arguments.caller;
-}, TypeError);
-
-assertThrows(function() {
- 'use strict';
- return arguments.callee;
-}, TypeError);
-
-assertEquals(undefined, function() {
- return arguments.caller;
-})();
-
-function f1() {
- return arguments.callee;
-}
-

```

```

-assertEquals(f1, f1());
-
-// A simple function is not required activation.
-// But when it changes to strict mode, requires activation.
-assertThrows(function() {
- 'use strict';
- delete Math.LN2;
-}, TypeError);
-
-"success";
diff --git a/testsrc/jstests/top-level-strict-mode.js b/testsrc/jstests/top-level-strict-mode.js
deleted file mode 100644
index 0f8402d..0000000
--- a/testsrc/jstests/top-level-strict-mode.js
+++ /dev/null
@@ -1,13 +0,0 @@
-'use strict';
-
-load("testsrc/assert.js");
-
-assertThrows(function() {
- return arguments.caller;
-}, TypeError);
-
-assertThrows(function() {
- return arguments.callee;
-}, TypeError);
-
-"success";
diff --git a/testsrc/org/mozilla/javascript/benchmarks/CaliperObjectBenchmark.java
b/testsrc/org/mozilla/javascript/benchmarks/CaliperObjectBenchmark.java
deleted file mode 100644
index eb26928..0000000
--- a/testsrc/org/mozilla/javascript/benchmarks/CaliperObjectBenchmark.java
+++ /dev/null
@@ -1,131 +0,0 @@
-package org.mozilla.javascript.benchmarks;
-
-import com.google.caliper.AfterExperiment;
-import com.google.caliper.BeforeExperiment;
-import com.google.caliper.Benchmark;
-import com.google.caliper.Param;
-import org.mozilla.javascript.Context;
-import org.mozilla.javascript.Function;
-import org.mozilla.javascript.Scriptable;
-import org.mozilla.javascript.ScriptableObject;
-import org.mozilla.javascript.tools.shell.Global;
-

```

```

-import java.io.FileReader;
-import java.io.IOException;
-import java.util.Random;
-
-@SuppressWarnings("unused")
-public class CaliperObjectBenchmark
- {
-   static final Random rand = new Random();
-
-   static void runCode(Context cx, Scriptable scope, String fileName)
-       throws IOException
-   {
-       FileReader rdr = new FileReader(fileName);
-       try {
-           cx.evaluateReader(scope, rdr, "test.js", 1, null);
-       } finally {
-           rdr.close();
-       }
-   }
-
-   @SuppressWarnings("unused")
-   public static class FieldAccess
-   {
-       @Param("10") int stringKeys;
-       @Param("10") int intKeys;
-       @Param("9") int optLevel;
-
-       private Context cx;
-       private Scriptable scope;
-
-       private Scriptable strings;
-       private Scriptable ints;
-
-       @BeforeExperiment
-       @SuppressWarnings("unused")
-       void create()
-           throws IOException
-       {
-           cx = Context.enter();
-           cx.setOptimizationLevel(optLevel);
-           cx.setLanguageVersion(Context.VERSION_ES6);
-
-           scope = new Global(cx);
-           runCode(cx, scope, "testsrc/benchmarks/caliper/fieldTests.js");
-
-           Object[] sarray = new Object[stringKeys];
-           for (int i = 0; i < stringKeys; i++) {
-               int len = rand.nextInt(49) + 1;

```

```

-     char[] c = new char[len];
-     for (int cc = 0; cc < len; cc++) {
-         c[cc] = (char) ('a' + rand.nextInt(25));
-     }
-     sarray[i] = new String(c);
- }
- strings = cx.newArray(scope, sarray);
-
- Object[] iarray = new Object[intKeys];
- for (int i = 0; i < intKeys; i++) {
-     iarray[i] = rand.nextInt(10000);
- }
- ints = cx.newArray(scope, iarray);
- }
-
- @AfterExperiment
- @SuppressWarnings("unused")
- void close()
- {
-     Context.exit();
- }
-
- @Benchmark
- @SuppressWarnings("unused")
- void createFields(int count)
- {
-     Function create = (Function)ScriptableObject.getProperty(scope, "createObject");
-     create.call(cx, scope, null, new Object[]{count, strings, ints});
- }
-
- @Benchmark
- @SuppressWarnings("unused")
- void accessFields(int count)
- {
-     Function create = (Function)ScriptableObject.getProperty(scope, "createObject");
-     Object o = create.call(cx, scope, null, new Object[]{1, strings, ints});
-     Function access = (Function)ScriptableObject.getProperty(scope, "accessObject");
-     access.call(cx, scope, null, new Object[] {count, o, strings, ints});
- }
-
- @Benchmark
- @SuppressWarnings("unused")
- void iterateFields(long count)
- {
-     Function create = (Function)ScriptableObject.getProperty(scope, "createObject");
-     Object o = create.call(cx, scope, null, new Object[]{1, strings, ints});
-     Function iterate = (Function)ScriptableObject.getProperty(scope, "iterateObject");
-     iterate.call(cx, scope, null, new Object[] {count, o});

```



```

-     }
-
-     @Benchmark
-     @SuppressWarnings("unused")
-     void ownKeysFields(long count)
-     {
-         Function create = (Function)ScriptableObject.getProperty(scope, "createObject");
-         Object o = create.call(cx, scope, null, new Object[] {1, strings, ints});
-         Function iterate = (Function)ScriptableObject.getProperty(scope, "iterateOwnKeysObject");
-         iterate.call(cx, scope, null, new Object[] {count, o});
-     }
-
-     @Benchmark
-     @SuppressWarnings("unused")
-     void deleteFields(int count)
-     {
-         Function create = (Function)ScriptableObject.getProperty(scope, "createObject");
-         Object o = create.call(cx, scope, null, new Object[] {1, strings, ints});
-         Function delete = (Function)ScriptableObject.getProperty(scope, "deleteObject");
-         delete.call(cx, scope, null, new Object[] {count, o, strings, ints});
-     }
- }
-}

```

diff --git a/testsrc/org/mozilla/javascript/benchmarks/CaliperSpiderBenchmark.java

b/testsrc/org/mozilla/javascript/benchmarks/CaliperSpiderBenchmark.java

deleted file mode 100644

index 6021b16..0000000

--- a/testsrc/org/mozilla/javascript/benchmarks/CaliperSpiderBenchmark.java

+++ /dev/null

@@ -1,269 +0,0 @@

-package org.mozilla.javascript.benchmarks;

-

-import com.google.caliper.AfterExperiment;

-import com.google.caliper.BeforeExperiment;

-import com.google.caliper.Benchmark;

-import com.google.caliper.Param;

-import com.google.caliper.api.Macrobenchmark;

-import org.mozilla.javascript.Context;

-import org.mozilla.javascript.Script;

-import org.mozilla.javascript.Scriptable;

-import org.mozilla.javascript.tools.shell.Global;

-

-import java.io.File;

-import java.io.FileReader;

-import java.io.IOException;

-import java.util.HashMap;

-

-@SuppressWarnings("unused")

```

-public class CaliperSpiderBenchmark
-{
- public static final File FILE_BASE = new File("testsrc/benchmarks/sunspider-0.9.1");
-
- static Script compileBenchmark(Context cx, String fileName)
-     throws IOException
- {
-     File f = new File(FILE_BASE, fileName);
-     FileReader rdr = new FileReader(f);
-     try {
-         return cx.compileReader(rdr, fileName, 1, null);
-     } finally {
-         rdr.close();
-     }
- }
-
- @SuppressWarnings("unused")
- public static class Spider
- {
-     @Param("9") int optLevel;
-
-     private Context cx;
-     private Scriptable scope;
-
-     private final HashMap<String, Script> scripts = new HashMap<String, Script>();
-
-     private static final String[] BENCHMARKS = {
-         "3d-cube.js", "3d-morph.js", "3d-raytrace.js",
-         "access-binary-trees.js", "access-fannkuch.js", "access-nbody.js", "access-nsieve.js",
-         "bitops-3bit-bits-in-byte.js", "bitops-bits-in-byte.js", "bitops-bitwise-and.js", "bitops-nsieve-bits.js",
-         "controlflow-recursive.js", "crypto-aes.js", "crypto-md5.js", "crypto-sha1.js",
-         "date-format-tofte.js", "date-format-xparb.js",
-         "math-cordic.js", "math-partial-sums.js", "math-spectral-norm.js",
-         "regexp-dna.js",
-         "string-base64.js", "string-fasta.js", "string-tagcloud.js",
-         "string-unpack-code.js", "string-validate-input.js"
-     };
-
-     @BeforeExperiment
-     @SuppressWarnings("unused")
-     void create()
-         throws IOException
-     {
-         cx = Context.enter();
-         cx.setOptimizationLevel(optLevel);
-         cx.setLanguageVersion(Context.VERSION_ES6);
-         scope = new Global(cx);
-     }
- }
- }

```

```

-     for (String bn : BENCHMARKS) {
-         compileScript(cx, bn);
-     }
- }
-
- private void compileScript(Context cx, String fileName)
-     throws IOException
- {
-     Script s = compileBenchmark(cx, fileName);
-     scripts.put(fileName, s);
- }
-
- @AfterExperiment
- @SuppressWarnings("unused")
- void close()
- {
-     Context.exit();
- }
-
- @Macrobenchmark
- @SuppressWarnings("unused")
- public void threeDCube(int iterations)
- {
-     runBenchmark("3d-cube.js", iterations);
- }
-
- @Macrobenchmark
- @SuppressWarnings("unused")
- public void threeDMorph(int iterations)
- {
-     runBenchmark("3d-morph.js", iterations);
- }
-
- @Macrobenchmark
- @SuppressWarnings("unused")
- public void accessBinaryTrees(int iterations)
- {
-     runBenchmark("access-binary-trees.js", iterations);
- }
-
- @Macrobenchmark
- @SuppressWarnings("unused")
- public void accessFannkuch(int iterations)
- {
-     runBenchmark("access-fannkuch.js", iterations);
- }
-
- @Macrobenchmark

```

```

- @SuppressWarnings("unused")
- public void accessNBody(int iterations)
- {
-     runBenchmark("access-nbody.js", iterations);
- }
-
- @Macrobenchmark
- @SuppressWarnings("unused")
- public void accessNSieve(int iterations)
- {
-     runBenchmark("access-nsieve.js", iterations);
- }
-
- @Macrobenchmark
- @SuppressWarnings("unused")
- public void bitops3BitBitsInByte(int iterations)
- {
-     runBenchmark("bitops-3bit-bits-in-byte.js", iterations);
- }
-
- @Macrobenchmark
- @SuppressWarnings("unused")
- public void bitopsBitsInByte(int iterations)
- {
-     runBenchmark("bitops-bits-in-byte.js", iterations);
- }
-
- @Macrobenchmark
- @SuppressWarnings("unused")
- public void BitopsBitwiseAnd(int iterations)
- {
-     runBenchmark("bitops-bitwise-and.js", iterations);
- }
-
- @Macrobenchmark
- @SuppressWarnings("unused")
- public void bisopsNsieveBits(int iterations)
- {
-     runBenchmark("bitops-nsieve-bits.js", iterations);
- }
-
- @Macrobenchmark
- @SuppressWarnings("unused")
- public void controlFlowRecursive(int iterations)
- {
-     runBenchmark("controlflow-recursive.js", iterations);
- }
-

```

```
- @Macrobenchmark
- @SuppressWarnings("unused")
- public void cryptoAES(int iterations)
- {
-     runBenchmark("crypto-aes.js", iterations);
- }
-
- @Macrobenchmark
- @SuppressWarnings("unused")
- public void cryptoMD5(int iterations)
- {
-     runBenchmark("crypto-md5.js", iterations);
- }
-
- @Macrobenchmark
- @SuppressWarnings("unused")
- public void cryptoSHA1(int iterations)
- {
-     runBenchmark("crypto-sha1.js", iterations);
- }
-
- @Macrobenchmark
- @SuppressWarnings("unused")
- public void dateFormatToFTE(int iterations)
- {
-     runBenchmark("date-format-tofte.js", iterations);
- }
-
- @Macrobenchmark
- @SuppressWarnings("unused")
- public void dateFormatXparb(int iterations)
- {
-     runBenchmark("date-format-xparb.js", iterations);
- }
-
- @Macrobenchmark
- @SuppressWarnings("unused")
- public void mathCordic(int iterations)
- {
-     runBenchmark("math-cordic.js", iterations);
- }
-
- @Macrobenchmark
- @SuppressWarnings("unused")
- public void mathPartialSums(int iterations)
- {
-     runBenchmark("math-partial-sums.js", iterations);
- }
```

```

-
- @Macrobenchmark
- @SuppressWarnings("unused")
- public void mathSpectralNorm(int iterations)
- {
-     runBenchmark("math-spectral-norm.js", iterations);
- }
-
- @Macrobenchmark
- @SuppressWarnings("unused")
- public void regexpDNA(int iterations)
- {
-     runBenchmark("regexp-dna.js", iterations);
- }
-
- @Macrobenchmark
- @SuppressWarnings("unused")
- public void stringBase64(int iterations)
- {
-     runBenchmark("string-base64.js", iterations);
- }
-
- @Macrobenchmark
- @SuppressWarnings("unused")
- public void stringFasta(int iterations)
- {
-     runBenchmark("string-fasta.js", iterations);
- }
-
- @Macrobenchmark
- @SuppressWarnings("unused")
- public void stringTagCloud(int iterations)
- {
-     runBenchmark("string-tagcloud.js", iterations);
- }
-
- @Macrobenchmark
- @SuppressWarnings("unused")
- public void stringUnpackCode(int iterations)
- {
-     runBenchmark("string-unpack-code.js", iterations);
- }
-
- @Macrobenchmark
- @SuppressWarnings("unused")
- public void stringValidateInput(int iterations)
- {
-     runBenchmark("string-validate-input.js", iterations);

```

```
-    }  
-  
-    private void runBenchmark(String name, int iterations)  
-    {  
-        Script s = scripts.get(name);  
-        for (int i = 0; i < iterations; i++) {  
-            s.exec(cx, scope);  
-        }  
-    }  
- }  
-}  
diff --git a/testsrc/org/mozilla/javascript/benchmarks/ResultPlotter.java  
b/testsrc/org/mozilla/javascript/benchmarks/ResultPlotter.java  
deleted file mode 100644  
index 6e05363..0000000  
--- a/testsrc/org/mozilla/javascript/benchmarks/ResultPlotter.java  
+++ /dev/null  
@@ -1,70 +0,0 @@  
-package org.mozilla.javascript.benchmarks;  
-  
-import com.google.caliper.api.ResultProcessor;  
-import com.google.caliper.model.Measurement;  
-import com.google.caliper.model.Trial;  
-import com.google.caliper.model.Value;  
-  
-import java.io.File;  
-import java.io.FileWriter;  
-import java.io.IOException;  
-import java.io.PrintWriter;  
-import java.util.HashMap;  
-import java.util.Map;  
-  
-public class ResultPlotter  
-    implements ResultProcessor  
-  
- {  
-    private PrintWriter out;  
-    private final HashMap<String, Double> results = new HashMap<String, Double>();  
-  
-    public ResultPlotter()  
-        throws IOException  
-    {  
-        out = new PrintWriter(  
-            new FileWriter(new File(System.getProperty("rhino.benchmark.report"), "caliper-spider.csv"))  
-        );  
-    }  
-  
-    @Override
```

```

- public void close()
- {
-     boolean once = false;
-     for (String n : results.keySet()) {
-         if (once) {
-             out.print(',');
-         } else {
-             once = true;
-         }
-         out.print(n);
-     }
-     out.println();
-
-     once = false;
-     for (Double v : results.values()) {
-         if (once) {
-             out.print(',');
-         } else {
-             once = true;
-         }
-         out.printf("%.2f", v);
-     }
-     out.println();
-
-     out.close();
- }
-
- @Override
- public void processTrial(Trial trial)
- {
-     if (trial.instrumentSpec().className().contains("RuntimeInstrument")) {
-         double runningAvg = 0.0;
-         for (Measurement m : trial.measurements()) {
-             runningAvg += (m.value().magnitude() / m.weight());
-         }
-         double avg = runningAvg / (double) trial.measurements().size();
-         results.put(trial.scenario().benchmarkSpec().methodName(), avg);
-     }
- }
-}

```

diff --git a/testsrc/org/mozilla/javascript/drivers/JsTestsBase.java

b/testsrc/org/mozilla/javascript/drivers/JsTestsBase.java

index 2f6faac..f628e25 100644

--- a/testsrc/org/mozilla/javascript/drivers/JsTestsBase.java

+++ b/testsrc/org/mozilla/javascript/drivers/JsTestsBase.java

```

@@ -28,7 +28,7 @@ public abstract class JsTestsBase extends TestCase {
     System.out.print(name + ": ");
     Object result;

```



```

    try {
-       result = cx.evaluateString(scope, source, "jstest input: " + name, 1, null);
+       result = cx.evaluateString(scope, source, "jstest input", 1, null);
    } catch (RuntimeException e) {
        e.printStackTrace(System.err);
        System.out.println("FAILED");
diff --git a/testsrc/org/mozilla/javascript/drivers/ScriptTestsBase.java
b/testsrc/org/mozilla/javascript/drivers/ScriptTestsBase.java
index d20edc4..7be6dec 100644
--- a/testsrc/org/mozilla/javascript/drivers/ScriptTestsBase.java
+++ b/testsrc/org/mozilla/javascript/drivers/ScriptTestsBase.java
@@ -12,7 +12,10 @@ import org.mozilla.javascript.JavaScriptException;
import org.mozilla.javascript.Scriptable;
import org.mozilla.javascript.tools.shell.Global;

-import java.io.*;
+import java.io.FileReader;
+import java.io.IOException;
+import java.io.Reader;
+import java.io.StringReader;

import static org.junit.Assert.*;

@@ -42,7 +45,7 @@ public abstract class ScriptTestsBase {
    Context cx = Context.enter();
    try {
        if (!"".equals(anno.value())) {
-           script = new InputStreamReader(new FileInputStream(anno.value()), "UTF-8");
+           script = new FileReader(anno.value());
            suiteName = anno.value();
        } else if (!"".equals(anno.inline())) {
            script = new StringReader("load('testsrc/assert.js');\n" + anno.inline() + "\n" + "success;");
diff --git a/testsrc/org/mozilla/javascript/drivers/TestUtils.java b/testsrc/org/mozilla/javascript/drivers/TestUtils.java
index d251d83..e872d8f 100644
--- a/testsrc/org/mozilla/javascript/drivers/TestUtils.java
+++ b/testsrc/org/mozilla/javascript/drivers/TestUtils.java
@@ -80,12 +80,4 @@ public class TestUtils {
    }
    return false;
}

-
- public static final FileFilter JS_FILE_FILTER = new FileFilter() {
-     @Override
-     public boolean accept(File pathname) {
-         return pathname.getAbsolutePath().endsWith(".js");
-     }
- };
-

```

```

}
diff --git a/testsrc/org/mozilla/javascript/tests/Bug421071Test.java
b/testsrc/org/mozilla/javascript/tests/Bug421071Test.java
index 1a9bc11..d74d667 100644
--- a/testsrc/org/mozilla/javascript/tests/Bug421071Test.java
+++ b/testsrc/org/mozilla/javascript/tests/Bug421071Test.java
@@ -2,120 +2,120 @@
 * License, v. 2.0. If a copy of the MPL was not distributed with this
 * file, You can obtain one at http://mozilla.org/MPL/2.0/. */

-/*
- * @(#)Bug421071Test.java
- *
- */
-
-package org.mozilla.javascript.tests;
-
-
-import junit.framework.TestCase;
-import org.mozilla.javascript.Context;
-import org.mozilla.javascript.ContextFactory;
-import org.mozilla.javascript.ImporterTopLevel;
-import org.mozilla.javascript.Script;
-import org.mozilla.javascript.Scriptable;
-
-
-public class Bug421071Test extends TestCase {
-    private ContextFactory factory;
-    private TopLevelScope globalScope;
-    private Script testScript;
-
-
-    public void testProblemReplicator() throws Exception {
-        // before debugging please put the breakpoint in the
-        // NativeJavaPackage.getPkgProperty()
-        // and observe names passed in there
-        testScript = compileScript();
-        runTestScript(); // this one does not get to the
-            // NativeJavaPackage.getPkgProperty() on my
-            // variables
-        runTestScript(); // however this one does
-    }
-
-
-    private Script compileScript() {
-        String scriptSource = "importPackage(java.util);\n"
-            + "var searchmon = 3;\n"
-            + "var searchday = 10;\n"
-            + "var searchyear = 2008;\n"
-            + "var searchwkday = 0;\n"
-            + "\n"
-            + "var myDate = Calendar.getInstance();\n // this is a java.util.Calendar"

```

```

-         + "myDate.set(Calendar.MONTH, searchmon);\n"
-         + "myDate.set(Calendar.DATE, searchday);\n"
-         + "myDate.set(Calendar.YEAR, searchyear);\n"
-         + "searchwkday.value = myDate.get(Calendar.DAY_OF_WEEK);";
-     Script script;
-     Context context = factory.enterContext();
-     try {
-         script = context.compileString(scriptSource, "testScript", 1, null);
-         return script;
-     } finally {
-         Context.exit();
-     }
- }
-
- private void runTestScript() throws InterruptedException {
-     // will start new thread to get as close as possible to original
-     // environment, however the same behavior is exposed using new
-     // ScriptRunner(script).run();
-     Thread thread = new Thread(new ScriptRunner(testScript));
-     thread.start();
-     thread.join();
- }
-
- static class DynamicScopeContextFactory extends ContextFactory {
-     @Override
-     public boolean hasFeature(Context cx, int featureIndex) {
-         if (featureIndex == Context.FEATURE_DYNAMIC_SCOPE)
-             return true;
-         return super.hasFeature(cx, featureIndex);
-     }
- }
-
- private TopLevelScope createGlobalScope() {
-     factory = new DynamicScopeContextFactory();
-     Context context = factory.enterContext();
-     // noinspection deprecation
-     TopLevelScope globalScope = new TopLevelScope(context);
-     Context.exit();
-     return globalScope;
- }
-
- @Override
- protected void setUp() throws Exception {
-     super.setUp();
-     globalScope = createGlobalScope();
- }
-
- private class TopLevelScope extends ImporterTopLevel {

```

```

- private static final long serialVersionUID = 7831526694313927899L;
-
- public TopLevelScope(Context context) {
-     super(context);
- }
- }
-
- private class ScriptRunner implements Runnable {
-     private Script script;
-
-     public ScriptRunner(Script script) {
-         this.script = script;
-     }
-
-     public void run() {
-         Context context = factory.enterContext();
-         try {
-             // Run each script in its own scope, to keep global variables
-             // defined in each script separate
-             Scriptable threadScope = context.newObject(globalScope);
-             threadScope.setPrototype(globalScope);
-             threadScope.setParentScope(null);
-             script.exec(context, threadScope);
-         } catch (Exception ee) {
-             ee.printStackTrace();
-         } finally {
-             Context.exit();
-         }
-     }
- }
- }
- }
- }
+/*
+ * @(#)Bug421071Test.java
+ *
+ */
+
+package org.mozilla.javascript.tests;
+
+import junit.framework.TestCase;
+import org.mozilla.javascript.Context;
+import org.mozilla.javascript.ContextFactory;
+import org.mozilla.javascript.ImporterTopLevel;
+import org.mozilla.javascript.Script;
+import org.mozilla.javascript.Scriptable;
+
+public class Bug421071Test extends TestCase {
+    private ContextFactory factory;
+    private TopLevelScope globalScope;

```

```

+ private Script testScript;
+
+ public void testProblemReplicator() throws Exception {
+     // before debugging please put the breakpoint in the
+     // NativeJavaPackage.getPkgProperty()
+     // and observe names passed in there
+     testScript = compileScript();
+     runTestScript(); // this one does not get to the
+         // NativeJavaPackage.getPkgProperty() on my
+         // variables
+     runTestScript(); // however this one does
+ }
+
+ private Script compileScript() {
+     String scriptSource = "importPackage(java.util);\n"
+         + "var searchmon = 3;\n"
+         + "var searchday = 10;\n"
+         + "var searchyear = 2008;\n"
+         + "var searchwkday = 0;\n"
+         + "\n"
+         + "var myDate = Calendar.getInstance();\n // this is a java.util.Calendar"
+         + "myDate.set(Calendar.MONTH, searchmon);\n"
+         + "myDate.set(Calendar.DATE, searchday);\n"
+         + "myDate.set(Calendar.YEAR, searchyear);\n"
+         + "searchwkday.value = myDate.get(Calendar.DAY_OF_WEEK);";
+     Script script;
+     Context context = factory.enterContext();
+     try {
+         script = context.compileString(scriptSource, "testScript", 1, null);
+         return script;
+     } finally {
+         Context.exit();
+     }
+ }
+
+ private void runTestScript() throws InterruptedException {
+     // will start new thread to get as close as possible to original
+     // environment, however the same behavior is exposed using new
+     // ScriptRunner(script).run();
+     Thread thread = new Thread(new ScriptRunner(testScript));
+     thread.start();
+     thread.join();
+ }
+
+ static class DynamicScopeContextFactory extends ContextFactory {
+     @Override
+     public boolean hasFeature(Context cx, int featureIndex) {
+         if (featureIndex == Context.FEATURE_DYNAMIC_SCOPE)

```

```

+         return true;
+     return super.hasFeature(cx, featureIndex);
+ }
+ }
+
+ private TopLevelScope createGlobalScope() {
+     factory = new DynamicScopeContextFactory();
+     Context context = factory.enterContext();
+     // noinspection deprecation
+     TopLevelScope globalScope = new TopLevelScope(context);
+     Context.exit();
+     return globalScope;
+ }
+
+ @Override
+ protected void setUp() throws Exception {
+     super.setUp();
+     globalScope = createGlobalScope();
+ }
+
+ private class TopLevelScope extends ImporterTopLevel {
+     private static final long serialVersionUID = 7831526694313927899L;
+
+     public TopLevelScope(Context context) {
+         super(context);
+     }
+ }
+
+ private class ScriptRunner implements Runnable {
+     private Script script;
+
+     public ScriptRunner(Script script) {
+         this.script = script;
+     }
+
+     public void run() {
+         Context context = factory.enterContext();
+         try {
+             // Run each script in its own scope, to keep global variables
+             // defined in each script separate
+             Scriptable threadScope = context.newObject(globalScope);
+             threadScope.setPrototype(globalScope);
+             threadScope.setParentScope(null);
+             script.exec(context, threadScope);
+         } catch (Exception ee) {
+             ee.printStackTrace();
+         } finally {
+             Context.exit();
+         }
+     }
+ }

```

```

+     }
+   }
+ }
+}
diff --git a/testsrc/org/mozilla/javascript/tests/ConsStringTest.java
b/testsrc/org/mozilla/javascript/tests/ConsStringTest.java
deleted file mode 100644
index 215b0c2..0000000
--- a/testsrc/org/mozilla/javascript/tests/ConsStringTest.java
+++ /dev/null
@@ -1,38 +0,0 @@
-package org.mozilla.javascript.tests;
-
-
-import junit.framework.TestCase;
-import org.mozilla.javascript.ConsString;
-
-public class ConsStringTest extends TestCase {
-    public void testAppend() {
-        ConsString current = new ConsString("a", "b");
-        current = new ConsString(current, "c");
-        current = new ConsString(current, "d");
-
-        assertEquals("abcd", current.toString());
-    }
-
-    public void testAppendManyStrings() {
-        ConsString current = new ConsString("a", "a");
-        for(int i = 0; i < 1000000; i++) {
-            current = new ConsString(current, "a");
-        }
-        assertNotNull(current.toString());
-    }
-
-    public void testAppendManyStringsRecursive() {
-        recurseAndAppend(4000);
-    }
-
-    private void recurseAndAppend(int depth) {
-        if (depth == 0) {
-            ConsString current = new ConsString("a", "a");
-            for(int i = 0; i < 1000000; i++) {
-                current = new ConsString(current, "a");
-            }
-            assertNotNull(current.toString());
-        } else {
-            recurseAndAppend(depth-1);
-        }
-    }
-}

```

```

-}
diff --git a/testsrc/org/mozilla/javascript/tests/ContextFactoryTest.java
b/testsrc/org/mozilla/javascript/tests/ContextFactoryTest.java
index f8ea0c9..a981d70 100644
--- a/testsrc/org/mozilla/javascript/tests/ContextFactoryTest.java
+++ b/testsrc/org/mozilla/javascript/tests/ContextFactoryTest.java
@@ -9,51 +9,45 @@ package org.mozilla.javascript.tests;

import junit.framework.TestCase;

-import org.junit.*;
-import org.junit.runner.RunWith;
-import org.junit.runners.BlockJUnit4ClassRunner;
import org.mozilla.javascript.Context;
import org.mozilla.javascript.ContextFactory;
import org.mozilla.javascript.Scriptable;
import org.mozilla.javascript.RhinoException;

-import static org.junit.Assert.assertFalse;
-import static org.junit.Assert.assertTrue;
-
-@RunWith(BlockJUnit4ClassRunner.class)
-public class ContextFactoryTest {
-
-    private static Context CTX;
-    private static int LV;
-
-    @BeforeClass
-    public static void setUpClass() throws Exception {
-        CTX = Context.enter();
-        LV = CTX.getLanguageVersion();
+/**
+ * @author Norris Boyd
+ */
+public class ContextFactoryTest extends TestCase {
+    static class MyFactory extends ContextFactory {
+        @Override
+        public boolean hasFeature(Context cx, int featureIndex)
+        {
+            switch (featureIndex) {
+                case Context.FEATURE_MEMBER_EXPR_AS_FUNCTION_NAME:
+                    return true;
+            }
+            return super.hasFeature(cx, featureIndex);
+        }
+    }

-    @AfterClass

```



```

- public static void tearDownClass() throws Exception {
-     CTX.setLanguageVersion(LV);
-     CTX.exit();
+ public void testCustomContextFactory() {
+     ContextFactory factory = new MyFactory();
+     Context cx = factory.enterContext();
+     try {
+         Scriptable globalScope = cx.initStandardObjects();
+         // Test that FEATURE_MEMBER_EXPR_AS_FUNCTION_NAME is enabled
+         /* TODO(steve): fix this functionality in parser
+         Object result = cx.evaluateString(globalScope,
+             "var obj = {};" +
+             "function obj.foo() { return 'bar'; }" +
+             "obj.foo();",
+             "test source", 1, null);
+         assertEquals("bar", result);
+         */
+     } catch (RhinoException e) {
+         fail(e.toString());
+     } finally {
+         Context.exit();
+     }
+ }
-
- @Test
- public void whenVersionLessEq17ThenOldUndefNullThis() throws Exception {
-     CTX.setLanguageVersion(Context.VERSION_1_7);
-     assertTrue(CTX.hasFeature(Context.FEATURE_OLD_UNDEF_NULL_THIS));
-
-     CTX.setLanguageVersion(Context.VERSION_1_6);
-     assertTrue(CTX.hasFeature(Context.FEATURE_OLD_UNDEF_NULL_THIS));
- }
-
- @Test
- public void whenVersionGt17ThenNewUndefNullThis() throws Exception {
-     CTX.setLanguageVersion(Context.VERSION_1_8);
-     assertFalse(CTX.hasFeature(Context.FEATURE_OLD_UNDEF_NULL_THIS));
-
-     CTX.setLanguageVersion(Context.VERSION_ES6);
-     assertFalse(CTX.hasFeature(Context.FEATURE_OLD_UNDEF_NULL_THIS));
- }
- }
+ }
diff --git a/testsrc/org/mozilla/javascript/tests/DoctestsTest.java
b/testsrc/org/mozilla/javascript/tests/DoctestsTest.java
index 7de06aa..56c9427 100644
--- a/testsrc/org/mozilla/javascript/tests/DoctestsTest.java

```

```

+++ b/testsrc/org/mozilla/javascript/tests/DoctestsTest.java
@@ -60,7 +60,7 @@ public class DoctestsTest {
    return new String(buf);
}

- @Parameters(name = "{0}")
+ @Parameters
  public static Collection<Object[]> doctestValues() throws IOException {
    File[] doctests = getDoctestFiles();
    List<Object[]> result = new ArrayList<Object[]>();
diff --git a/testsrc/org/mozilla/javascript/tests/IncDecTest.java b/testsrc/org/mozilla/javascript/tests/IncDecTest.java
deleted file mode 100644
index b0a706f..0000000
--- a/testsrc/org/mozilla/javascript/tests/IncDecTest.java
+++ /dev/null
@@ -1,12 +0,0 @@
-package org.mozilla.javascript.tests;
-
-
-import org.mozilla.javascript.drivers.RhinoTest;
-import org.mozilla.javascript.drivers.ScriptTestsBase;
-
-@RhinoTest(
- value = "testsrc/jstests/inc-dec.js"
-)
-public class IncDecTest
- extends ScriptTestsBase
-{
-}
diff --git a/testsrc/org/mozilla/javascript/tests/InsideStrictModeTest.java
b/testsrc/org/mozilla/javascript/tests/InsideStrictModeTest.java
deleted file mode 100644
index 0341c4d..0000000
--- a/testsrc/org/mozilla/javascript/tests/InsideStrictModeTest.java
+++ /dev/null
@@ -1,12 +0,0 @@
-package org.mozilla.javascript.tests;
-
-
-import org.mozilla.javascript.drivers.RhinoTest;
-import org.mozilla.javascript.drivers.ScriptTestsBase;
-
-@RhinoTest(
- value = "testsrc/jstests/inside-strict-mode.js"
-)
-public class InsideStrictModeTest
- extends ScriptTestsBase
-{
-}
diff --git a/testsrc/org/mozilla/javascript/tests/OverloadTest.java

```

```

b/testsrc/org/mozilla/javascript/tests/OverloadTest.java
deleted file mode 100644
index de60f72..0000000
--- a/testsrc/org/mozilla/javascript/tests/OverloadTest.java
+++ /dev/null
@@ -1,80 +0,0 @@
-/* This Source Code Form is subject to the terms of the Mozilla Public
- * License, v. 2.0. If a copy of the MPL was not distributed with this
- * file, You can obtain one at http://mozilla.org/MPL/2.0/. */
-
-/**
- *
- */
-package org.mozilla.javascript.tests;
-
-
-import org.junit.Test;
-import static org.junit.Assert.assertEquals;
-import static org.junit.Assert.assertTrue;
-import static org.junit.Assert.fail;
-
-
-import java.util.Collection;
-import java.util.Map;
-
-
-import org.mozilla.javascript.Context;
-import org.mozilla.javascript.ContextAction;
-import org.mozilla.javascript.EvaluatorException;
-import org.mozilla.javascript.Scriptable;
-
-
-public class OverloadTest {
-
-
-    public static String x(Collection<String> x) {
-        return "collection";
-    }
-
-    public static String x(Map<String, String> x) {
-        return "map";
-    }
-
-    public static String x(Runnable r) {
-        return "runnable";
-    }
-
-
-
-
-    @Test
-    public void testJSObjectToMap() {
-        assertEquals("map", "String(org.mozilla.javascript.tests.OverloadTest.x({}));");
-        assertEquals("map", "String(org.mozilla.javascript.tests.OverloadTest.x({ run: function() { } }));");
-    }
-
-
-    @Test

```

```

- public void testJSArrayToCollection() {
-     assertEvaluates("collection", "String(org.mozilla.javascript.tests.OverloadTest.x([]));");
- }
-
- @Test
- public void testJSFunctionToInterface() {
-     assertThrows(EvaluatorException.class, "String(org.mozilla.javascript.tests.OverloadTest.x(function() {}));");
- }
-
- private void assertEvaluates(final Object expected, final String source) {
-     final ContextAction action = new ContextAction() {
-         public Object run(Context cx) {
-             final Scriptable scope = cx.initStandardObjects();
-             final Object rep = cx.evaluateString(scope, source, "test.js",
-                 0, null);
-             assertEquals(expected, rep);
-             return null;
-         }
-     };
-     Utils.runWithAllOptimizationLevels(action);
- }
-
- private void assertThrows(final Class<? extends Exception> exceptionClass, final String source) {
-     final ContextAction action = new ContextAction() {
-         public Object run(Context cx) {
-             final Scriptable scope = cx.initStandardObjects();
-             try {
-                 cx.evaluateString(scope, source, "test.js", 0, null);
-                 fail("Did not throw exception");
-             } catch (Exception e) {
-                 assertTrue(exceptionClass.isInstance(e));
-             }
-             return null;
-         }
-     };
-     Utils.runWithAllOptimizationLevels(action);
- }
- }
diff --git a/testsrc/org/mozilla/javascript/tests/ParserTest.java b/testsrc/org/mozilla/javascript/tests/ParserTest.java
index 507e41f..b521eb1 100644
--- a/testsrc/org/mozilla/javascript/tests/ParserTest.java
+++ b/testsrc/org/mozilla/javascript/tests/ParserTest.java
@@ -1183,11 +1183,6 @@ public class ParserTest extends TestCase {
     parse("({import:1}).import;");
 }

- public void testReportError() {
-     expectParseErrors("'use strict';(function(eval) {}))();",

```

```

-         new String[] { "\"eval\" is not a valid identifier for this use in strict mode." });
-     }
-
-     private void expectParseErrors(String string, String [] errors) {
-         parse(string, errors, null, false);
-     }
diff --git a/testsrc/org/mozilla/javascript/tests/Test262SuiteTest.java
b/testsrc/org/mozilla/javascript/tests/Test262SuiteTest.java
deleted file mode 100644
index 44b5fc5..0000000
--- a/testsrc/org/mozilla/javascript/tests/Test262SuiteTest.java
+++ /dev/null
@@ -1,260 +0,0 @@
-/* This Source Code Form is subject to the terms of the Mozilla Public
- * License, v. 2.0. If a copy of the MPL was not distributed with this
- * file, You can obtain one at http://mozilla.org/MPL/2.0/. */
-
-
-package org.mozilla.javascript.tests;
-
-
-import org.junit.AfterClass;
-import org.junit.BeforeClass;
-import org.junit.Test;
-import org.junit.runner.RunWith;
-import org.junit.runners.Parameterized;
-import org.junit.runners.Parameterized.Parameters;
-import org.mozilla.javascript.Context;
-import org.mozilla.javascript.EvaluatorException;
-import org.mozilla.javascript.RhinoException;
-import org.mozilla.javascript.Script;
-import org.mozilla.javascript.Scriptable;
-import org.mozilla.javascript.drivers.TestUtils;
-import org.mozilla.javascript.tools.SourceReader;
-import org.mozilla.javascript.tools.shell.ShellContextFactory;
-import org.yaml.snakeyaml.Yaml;
-
-
-import java.io.*;
-import java.util.*;
-import java.util.regex.Matcher;
-import java.util.regex.Pattern;
-
-
-import static org.junit.Assert.assertEquals;
-import static org.junit.Assert.fail;
-import static org.mozilla.javascript.drivers.TestUtils.JS_FILE_FILTER;
-import static org.mozilla.javascript.drivers.TestUtils.recursiveListFilesHelper;
-
-
-@RunWith(Parameterized.class)
-public class Test262SuiteTest {
-

```

```

- static final int[] OPT_LEVELS = {-1, 0, 9};
-
- static Map<Integer, Map<String, Script>> HARNESS_SCRIPT_CACHE = new HashMap<Integer, Map<String,
Script>>();
-
- static ShellContextFactory CTX_FACTORY = new ShellContextFactory();
-
- @BeforeClass
- public static void setUpClass() throws Exception {
-     HARNESS_SCRIPT_CACHE.put(-1, new HashMap<String, Script>());
-     HARNESS_SCRIPT_CACHE.put(0, new HashMap<String, Script>());
-     HARNESS_SCRIPT_CACHE.put(9, new HashMap<String, Script>());
-
-     CTX_FACTORY.setLanguageVersion(Context.VERSION_ES6);
-     TestUtils.setGlobalContextFactory(CTX_FACTORY);
- }
-
- @AfterClass
- public static void tearDownClass() throws Exception {
-     TestUtils.setGlobalContextFactory(null);
- }
-
- private static final Pattern EXCLUDE_PATTERN = Pattern.compile("\\s{1,4}!\\s*(.+)");
-
- private final String jsFilePath;
- private final String jsFileStr;
- private final int optLevel;
- private final boolean useStrict;
- private List<String> harnessFiles;
- private EcmaErrorType errorType;
-
- public Test262SuiteTest(String jsFilePath, String jsFileStr, List<String> harnessFiles, int optLevel, boolean
useStrict, EcmaErrorType errorType) {
-     this.jsFilePath = jsFilePath;
-     this.jsFileStr = jsFileStr;
-     this.optLevel = optLevel;
-     this.useStrict = useStrict;
-     this.harnessFiles = harnessFiles;
-     this.errorType = errorType;
- }
-
- private Object executeRhinoScript() {
-     Context cx = Context.enter();
-
-     try {
-         cx.setOptimizationLevel(optLevel);
-
-         Scriptable scope = cx.initStandardObjects();

```

```

-     for (String harnessFile : harnessFiles) {
-         if (!HARNESSE_SCRIPT_CACHE.get(optLevel).containsKey(harnessFile)) {
-             HARNESSE_SCRIPT_CACHE.get(optLevel).put(
-                 harnessFile,
-                 cx.compileReader(new FileReader("test262/harness/" + harnessFile), "test262/harness/" +
harnessFile, 1, null)
-             );
-         }
-         HARNESSE_SCRIPT_CACHE.get(optLevel).get(harnessFile).exec(cx, scope);
-     }
-
-     String str = jsFileStr;
-     if (useStrict) { // taken from test262.py
-         str = "\"use strict\";\nvar strict_mode = true;\n" + jsFileStr;
-     }
-
-     Object result = cx.evaluateString(scope, str, jsFilePath.replaceAll("\\\\", "/"), 1, null);
-
-     if (errorType != EcmaErrorType.NONE) {
-         fail(String.format("failed negative test. expected error: %s", errorType));
-         return null;
-     }
-
-     return result;
- } catch (RhinoException ex) {
-     if (errorType == EcmaErrorType.NONE) {
-         fail(String.format("%s%n%s", ex.getMessage(), ex.getScriptStackTrace()));
-     } else {
-         if (errorType == EcmaErrorType.ANY) {
-             // passed
-         } else {
-             String exceptionName;
-             if (ex instanceof EvaluatorException) {
-                 exceptionName = "SyntaxError";
-             } else {
-                 exceptionName = ex.details();
-                 if (exceptionName.contains(":")) {
-                     exceptionName = exceptionName.substring(0, exceptionName.indexOf(":"));
-                 }
-             }
-             assertEquals(ex.details(), errorType.name(), exceptionName);
-         }
-     }
-     return null;
- } catch (Exception e) {
-     throw new RuntimeException(e);
- } finally {
-     Context.exit();

```

```

-     }
- }
-
- private static final Yaml YAML = new Yaml();
-
- public static List<File> getTestFiles() throws IOException {
-     File testDir = new File("test262/test");
-
-     List<File> testFiles = new LinkedList<File>();
-
-     List<File> dirFiles = new LinkedList<File>();
-
-     Scanner scanner = new Scanner(new File("testsrc/test262.properties"));
-
-     String curLine = "", nxtLine = "";
-
-     while (true) {
-         curLine = nxtLine;
-         nxtLine = scanner.hasNextLine() ? scanner.nextLine() : null;
-
-         if (curLine == null) break;
-
-         if (curLine.isEmpty() || curLine.startsWith("#")) continue;
-
-         File file = new File(testDir, curLine);
-
-         if (file.isFile()) {
-             testFiles.add(file);
-         } else if (file.isDirectory()) {
-             recursiveListFilesHelper(file, JS_FILE_FILTER, dirFiles);
-
-             while (true) {
-                 curLine = nxtLine;
-                 nxtLine = scanner.hasNextLine() ? scanner.nextLine() : null;
-
-                 if (curLine == null) {
-                     testFiles.addAll(dirFiles);
-                     break;
-                 }
-
-                 if (curLine.isEmpty() || curLine.startsWith("#")) continue;
-
-                 Matcher m = EXCLUDE_PATTERN.matcher(curLine);
-                 if (m.matches()) {
-                     Iterator<File> it = dirFiles.iterator();
-                     while (it.hasNext()) {
-                         String path = it.next().getPath().replaceAll("\\\\", "/");
-                         if (path.contains(m.group(1))) it.remove();
-                     }
-                 }
-             }
-         }
-     }
- }

```



```

-         }
-     } else {
-         testFiles.addAll(dirFiles);
-         dirFiles.clear();
-         file = new File(testDir, curLine);
-         if (file.isFile()) {
-             testFiles.add(file);
-             break;
-         } else if (file.isDirectory()) {
-             recursiveListFilesHelper(file, JS_FILE_FILTER, dirFiles);
-         }
-     }
- }
- }
- }
- scanner.close();
-
- return testFiles;
- }
-
-
- @Parameters(name = "js={0}, opt={3}, strict={4}")
- public static Collection<Object[]> test262SuiteValues() throws IOException {
-     List<Object[]> result = new ArrayList<Object[]>();
-     List<File> tests = getTestFiles();
-     for (File jsTest : tests) {
-         String jsFileStr = (String) SourceReader.readFileOrUrl(jsTest.getPath(), true, "UTF-8");
-         List<String> harnessFiles = new ArrayList<String>();
-         harnessFiles.add("sta.js");
-         harnessFiles.add("assert.js");
-
-         Map header = (Map) YAML.load(jsFileStr.substring(jsFileStr.indexOf("/*---") + 5, jsFileStr.lastIndexOf("--
- */")));
-         if (header.containsKey("includes")) {
-             harnessFiles.addAll((Collection)header.get("includes"));
-         }
-
-         EcmaErrorType errorType = EcmaErrorType._valueOf((String)header.get("negative"));
-         List<String> flags = header.containsKey("flags") ? (List<String>) header.get("flags") :
- Collections.EMPTY_LIST;
-         for (int optLevel : OPT_LEVELS) {
-             if (!flags.contains("onlyStrict")) {
-                 result.add(new Object[]{jsTest.getPath(), jsFileStr, harnessFiles, optLevel, false, errorType});
-             }
-             if (!flags.contains("noStrict")) {
-                 result.add(new Object[]{jsTest.getPath(), jsFileStr, harnessFiles, optLevel, true, errorType});
-             }
-         }
-     }
- }

```

```

-     return result;
- }
-
- @Test
- public void test262() throws Exception {
-     executeRhinoScript();
- }
-
- static enum EcmaErrorType {
-     NONE,
-     ANY,
-     NotEarlyError,
-     ReferenceError,
-     SyntaxError,
-     Test262Error,
-     TypeError,
-     expected_message;
-
-     static EcmaErrorType _valueOf(String s) {
-         if (s == null || s.equals("")) {
-             return NONE;
-         } else if (s.equals("NotEarlyError")) {
-             return NotEarlyError;
-         } else if (s.equals("ReferenceError")) {
-             return ReferenceError;
-         } else if (s.equals("SyntaxError")) {
-             return SyntaxError;
-         } else if (s.equals("Test262Error")) {
-             return Test262Error;
-         } else if (s.equals("TypeError")) {
-             return TypeError;
-         } else if (s.equals("expected_message")) {
-             return expected_message;
-         }
-         return ANY;
-     }
- }
- }
-}
diff --git a/testsrc/org/mozilla/javascript/tests/TopLevelStrictModeTest.java
b/testsrc/org/mozilla/javascript/tests/TopLevelStrictModeTest.java
deleted file mode 100644
index 0f9d6d0..0000000
--- a/testsrc/org/mozilla/javascript/tests/TopLevelStrictModeTest.java
+++ /dev/null
@@ -1,12 +0,0 @@
-package org.mozilla.javascript.tests;
-
-
-import org.mozilla.javascript.drivers.RhinoTest;

```

```

-import org.mozilla.javascript.drivers.ScriptTestsBase;
-
-@RhinoTest(
-  value = "testsrc/jstests/top-level-strict-mode.js"
-)
-public class TopLevelStrictModeTest
-  extends ScriptTestsBase
-  {
-  }
diff --git a/testsrc/org/mozilla/javascript/tests/UndefinedOrNullThisInFunctionCallOrApplyTest.java
b/testsrc/org/mozilla/javascript/tests/UndefinedOrNullThisInFunctionCallOrApplyTest.java
deleted file mode 100644
index 4d8b46d..0000000
--- a/testsrc/org/mozilla/javascript/tests/UndefinedOrNullThisInFunctionCallOrApplyTest.java
+++ /dev/null
@@ -1,189 +0,0 @@
-/* This Source Code Form is subject to the terms of the Mozilla Public
- * License, v. 2.0. If a copy of the MPL was not distributed with this
- * file, You can obtain one at http://mozilla.org/MPL/2.0/. */
-
-package org.mozilla.javascript.tests;
-
-import org.junit.After;
-import org.junit.Before;
-import org.junit.Ignore;
-import org.junit.Test;
-import org.mozilla.javascript.*;
-
-import java.util.HashMap;
-
-import static org.junit.Assert.assertEquals;
-import static org.junit.Assert.assertNotEquals;
-import static org.junit.Assert.assertTrue;
-
-public class UndefinedOrNullThisInFunctionCallOrApplyTest {
-
-  private Context cx;
-
-  private BaseFunction function;
-
-  @Before
-  public void setUp() throws Exception {
-    cx = Context.enter();
-    function = new BaseFunction() {
-      @Override
-      public Object call(Context cx, Scriptable scope, Scriptable thisObj, Object[] args) {
-        System.out.println("QWE");
-        return thisObj;
-      }
-    };
-  }

```

```

-     }
-   };
- }
-
- @After
- public void tearDown() throws Exception {
-   cx.setLanguageVersion(Context.VERSION_DEFAULT);
-   Context.exit();
- }
-
- @Test
- @Ignore
- public void whenVersionGt17ThenPassNullAsThisObjJavaFunc() {
-   HashMap<String, Scriptable> bindings = new HashMap<String, Scriptable>();
-   bindings.put("F2", function);
-
-   cx.setLanguageVersion(Context.VERSION_1_8);
-   NativeArray arr = (NativeArray) Evaluator.eval("[this, F2.apply(), F2.apply(undefined)];", bindings);
-
-   assertNotEquals(arr.get(0), arr.get(1));
-   assertNotEquals(arr.get(0), arr.get(2));
-   assertEquals(arr.get(1), arr.get(2));
-
-   arr = (NativeArray) Evaluator.eval("[this, F2.apply(), F2.apply(null)];", bindings);
-   assertNotEquals(arr.get(0), arr.get(1));
-   assertNotEquals(arr.get(0), arr.get(2));
-   assertEquals(arr.get(1), arr.get(2));
-
-   cx.setLanguageVersion(Context.VERSION_ES6);
-   arr = (NativeArray) Evaluator.eval("[this, F2.apply(), F2.apply(undefined)];", bindings);
-
-   assertNotEquals(arr.get(0), arr.get(1));
-   assertNotEquals(arr.get(0), arr.get(2));
-   assertEquals(arr.get(1), arr.get(2));
-
-   arr = (NativeArray) Evaluator.eval("[this, F2.apply(), F2.apply(null)];", bindings);
-   assertNotEquals(arr.get(0), arr.get(1));
-   assertNotEquals(arr.get(0), arr.get(2));
-   assertEquals(arr.get(1), arr.get(2));
- }
-
- @Test
- @Ignore
- public void whenVersionLtEq17ThenPassGlobalThisObjJavaFunc() {
-   HashMap<String, Scriptable> bindings = new HashMap<String, Scriptable>();
-   bindings.put("F2", function);
-
-   cx.setLanguageVersion(Context.VERSION_1_7);

```

```

-     NativeArray arr = (NativeArray) Evaluator.eval("{return this;};[this, F2.apply(), F2.apply(undefined)];",
bindings);
-
-     assertEquals(arr.get(0), arr.get(1));
-     assertEquals(arr.get(0), arr.get(2));
-     assertEquals(arr.get(1), arr.get(2));
-
-     arr = (NativeArray) Evaluator.eval("[this, F2.apply(), F2.apply(null)];", bindings);
-
-     assertEquals(arr.get(0), arr.get(1));
-     assertEquals(arr.get(0), arr.get(2));
-     assertEquals(arr.get(1), arr.get(2));
- }
-
- @Test
- public void whenVersionGt17ThenPassNullAsThisObjForApplyJS() {
-     cx.setLanguageVersion(Context.VERSION_1_8);
-     NativeArray arr = (NativeArray) Evaluator.eval("function F2() {return this;};[this, F2.apply(),
F2.apply(undefined)];");
-
-     assertEquals(arr.get(0), arr.get(1));
-     assertEquals(arr.get(0), arr.get(2));
-     assertEquals(arr.get(1), arr.get(2));
-     assertEquals(Undefined.instance, arr.get(2));
-     assertEquals(Undefined.SCRIPTABLE_UNDEFINED, arr.get(2));
-
-     arr = (NativeArray) Evaluator.eval("function F2() {return this;};[this, F2.apply(), F2.apply(null)];");
-     assertEquals(arr.get(0), arr.get(1));
-     assertEquals(arr.get(0), arr.get(2));
-     assertEquals(arr.get(1), arr.get(2));
-
-     cx.setLanguageVersion(Context.VERSION_ES6);
-     arr = (NativeArray) Evaluator.eval("function F2() {return this;};[this, F2.apply(), F2.apply(undefined)];");
-
-     assertEquals(arr.get(0), arr.get(1));
-     assertEquals(arr.get(0), arr.get(2));
-     assertEquals(arr.get(1), arr.get(2));
-     assertEquals(Undefined.instance, arr.get(2));
-     assertEquals(Undefined.SCRIPTABLE_UNDEFINED, arr.get(2));
-
-     arr = (NativeArray) Evaluator.eval("function F2() {return this;};[this, F2.apply(), F2.apply(null)];");
-     assertEquals(arr.get(0), arr.get(1));
-     assertEquals(arr.get(0), arr.get(2));
-     assertEquals(arr.get(1), arr.get(2));
-
- }
-
- @Test

```

```

- public void whenVersionLtEq17ThenPassGlobalThisObjForApplyJS() {
-     cx.setLanguageVersion(Context.VERSION_1_7);
-     NativeArray arr = (NativeArray) Evaluator.eval("function F2() {return this;};[this, F2.apply(),
F2.apply(undefined)];");
-
-     assertEquals(arr.get(0), arr.get(1));
-     assertEquals(arr.get(0), arr.get(2));
-     assertEquals(arr.get(1), arr.get(2));
-
-     arr = (NativeArray) Evaluator.eval("function F2() {return this;};[this, F2.apply(), F2.apply(null)];");
-
-     assertEquals(arr.get(0), arr.get(1));
-     assertEquals(arr.get(0), arr.get(2));
-     assertEquals(arr.get(1), arr.get(2));
- }
-
- @Test
- public void whenVersionGt17ThenPassNullAsThisObjForCallJS() {
-     cx.setLanguageVersion(Context.VERSION_1_8);
-     NativeArray arr = (NativeArray) Evaluator.eval("function F2() {return this;};[this, F2.call(),
F2.call(undefined)];");
-
-     assertNotEquals(arr.get(0), arr.get(1));
-     assertNotEquals(arr.get(0), arr.get(2));
-     assertNotEquals(arr.get(1), arr.get(2));
-     assertEquals(Undefined.instance, arr.get(2));
-     assertEquals(Undefined.SCRIPTABLE_UNDEFINED, arr.get(2));
-
-     arr = (NativeArray) Evaluator.eval("function F2() {return this;};[this, F2.call(), F2.call(null)];");
-     assertNotEquals(arr.get(0), arr.get(1));
-     assertNotEquals(arr.get(0), arr.get(2));
-     assertEquals(arr.get(1), arr.get(2));
-
-     cx.setLanguageVersion(Context.VERSION_ES6);
-     arr = (NativeArray) Evaluator.eval("function F2() {return this;};[this, F2.call(), F2.call(undefined)];");
-
-     assertNotEquals(arr.get(0), arr.get(1));
-     assertNotEquals(arr.get(0), arr.get(2));
-     assertNotEquals(arr.get(1), arr.get(2));
-     assertEquals(Undefined.instance, arr.get(2));
-     assertEquals(Undefined.SCRIPTABLE_UNDEFINED, arr.get(2));
-
-     arr = (NativeArray) Evaluator.eval("function F2() {return this;};[this, F2.call(), F2.call(null)];");
-     assertNotEquals(arr.get(0), arr.get(1));
-     assertNotEquals(arr.get(0), arr.get(2));
-     assertEquals(arr.get(1), arr.get(2));
- }

```

```

-
- @Test
- public void whenVersionLtEq17ThenPassGlobalThisObjForCallJS() {
-     cx.setLanguageVersion(Context.VERSION_1_7);
-     NativeArray arr = (NativeArray) Evaluator.eval("function F2() {return this;};[this, F2.call(),
F2.call(undefined)];");
-
-     assertEquals(arr.get(0), arr.get(1));
-     assertEquals(arr.get(0), arr.get(2));
-     assertEquals(arr.get(1), arr.get(2));
-
-     arr = (NativeArray) Evaluator.eval("function F2() {return this;};[this, F2.call(), F2.call(null)];");
-
-     assertEquals(arr.get(0), arr.get(1));
-     assertEquals(arr.get(0), arr.get(2));
-     assertEquals(arr.get(1), arr.get(2));
- }
-}
diff --git a/testsrc/org/mozilla/javascript/tests/es5/ObjectToStringNullUndefinedTest.java
b/testsrc/org/mozilla/javascript/tests/es5/ObjectToStringNullUndefinedTest.java
deleted file mode 100644
index 452e1fb..0000000
--- a/testsrc/org/mozilla/javascript/tests/es5/ObjectToStringNullUndefinedTest.java
+++ /dev/null
@@ -1,49 +0,0 @@
-/* This Source Code Form is subject to the terms of the Mozilla Public
- * License, v. 2.0. If a copy of the MPL was not distributed with this
- * file, You can obtain one at http://mozilla.org/MPL/2.0/. */
-
-/*
- * Tests for Object.prototype.toString.call(...) on null & undefined
- */
-package org.mozilla.javascript.tests.es5;
-
-
-import org.junit.After;
-import org.junit.Before;
-import org.mozilla.javascript.*;
-
-
-import static org.mozilla.javascript.tests.Evaluator.eval;
-import static org.junit.Assert.assertEquals;
-
-
-import org.junit.Test;
-
-
-public class ObjectToStringNullUndefinedTest {
-    private Context cx;
-    private ScriptableObject scope;
-
-    @Before

```

```

- public void setUp() {
-     cx = Context.enter();
-     cx.setLanguageVersion(200);
-     scope = cx.initStandardObjects();
- }
-
- @After
- public void tearDown() {
-     Context.exit();
- }
-
- @Test
- public void testToStringNullUndefined() {
-     Object result0 = cx.evaluateString(
-         scope, "Object.prototype.toString.call(null)",
-         "15.2.4.2", 1, null
-     );
-     assertEquals("[object Null]", result0);
-
-     Object result1 = cx.evaluateString(
-         scope, "Object.prototype.toString.call(undefined)",
-         "15.2.4.2", 1, null
-     );
-     assertEquals("[object Undefined]", result1);
- }
-}
diff --git a/testsrc/org/mozilla/javascript/tests/harmony/ArrayFindIndexTest.java
b/testsrc/org/mozilla/javascript/tests/harmony/ArrayFindIndexTest.java
index 02fe954..dd7583d 100644
--- a/testsrc/org/mozilla/javascript/tests/harmony/ArrayFindIndexTest.java
+++ b/testsrc/org/mozilla/javascript/tests/harmony/ArrayFindIndexTest.java
@@ -4,13 +4,10 @@

```

```

package org.mozilla.javascript.tests.harmony;

```

```

-import org.mozilla.javascript.Context;
-import org.mozilla.javascript.drivers.LanguageVersion;
import org.mozilla.javascript.drivers.RhinoTest;
import org.mozilla.javascript.drivers.ScriptTestsBase;

@RhinoTest("testsrc/jstests/harmony/array-findIndex.js")
-@LanguageVersion(Context.VERSION_ES6)
public class ArrayFindIndexTest extends ScriptTestsBase
{
}

```

```

diff --git a/testsrc/org/mozilla/javascript/tests/harmony/ArrayFindTest.java
b/testsrc/org/mozilla/javascript/tests/harmony/ArrayFindTest.java
index c053dff..f073854 100644

```



```
--- a/testsrc/org/mozilla/javascript/tests/harmony/ArrayFindTest.java
+++ b/testsrc/org/mozilla/javascript/tests/harmony/ArrayFindTest.java
@@ -4,13 +4,10 @@
```

```
package org.mozilla.javascript.tests.harmony;
```

```
-import org.mozilla.javascript.Context;
-import org.mozilla.javascript.drivers.LanguageVersion;
import org.mozilla.javascript.drivers.RhinoTest;
import org.mozilla.javascript.drivers.ScriptTestsBase;
```

```
@RhinoTest("testsrc/jstests/harmony/array-find.js")
-@LanguageVersion(Context.VERSION_ES6)
public class ArrayFindTest extends ScriptTestsBase
{
}
```

```
diff --git a/testsrc/org/mozilla/javascript/tests/harmony/ForOfTest.java
b/testsrc/org/mozilla/javascript/tests/harmony/ForOfTest.java
deleted file mode 100644
index ffc4a15..0000000
```

```
--- a/testsrc/org/mozilla/javascript/tests/harmony/ForOfTest.java
+++ /dev/null
@@ -1,16 +0,0 @@
```

```
/* This Source Code Form is subject to the terms of the Mozilla Public
 * License, v. 2.0. If a copy of the MPL was not distributed with this
 * file, You can obtain one at http://mozilla.org/MPL/2.0/. */
```

```
-package org.mozilla.javascript.tests.harmony;
```

```
-import org.mozilla.javascript.Context;
-import org.mozilla.javascript.drivers.LanguageVersion;
-import org.mozilla.javascript.drivers.RhinoTest;
-import org.mozilla.javascript.drivers.ScriptTestsBase;
```

```
-@RhinoTest("testsrc/jstests/harmony/for-of.js")
-@LanguageVersion(Context.VERSION_ES6)
-public class ForOfTest extends ScriptTestsBase
-{
-}
```

```
diff --git a/testsrc/org/mozilla/javascript/tests/harmony/MathFunctionsTest.java
b/testsrc/org/mozilla/javascript/tests/harmony/MathFunctionsTest.java
deleted file mode 100644
index 7702dd9..0000000
```

```
--- a/testsrc/org/mozilla/javascript/tests/harmony/MathFunctionsTest.java
+++ /dev/null
@@ -1,12 +0,0 @@
```

```
-package org.mozilla.javascript.tests.harmony;
```

```
-
```

```

-import org.mozilla.javascript.drivers.RhinoTest;
-import org.mozilla.javascript.drivers.ScriptTestsBase;
-
-@RhinoTest(
-  value = "testsrc/jstests/harmony/math-functions.js"
-)
-public class MathFunctionsTest
-  extends ScriptTestsBase
-{
-}
diff --git a/testsrc/org/mozilla/javascript/tests/harmony/MethodDefinitionTest.java
b/testsrc/org/mozilla/javascript/tests/harmony/MethodDefinitionTest.java
deleted file mode 100644
index e0f36b0..0000000
--- a/testsrc/org/mozilla/javascript/tests/harmony/MethodDefinitionTest.java
+++ /dev/null
@@ -1,13 +0,0 @@
-/* This Source Code Form is subject to the terms of the Mozilla Public
- * License, v. 2.0. If a copy of the MPL was not distributed with this
- * file, You can obtain one at http://mozilla.org/MPL/2.0/. */
-
-package org.mozilla.javascript.tests.harmony;
-
-import org.mozilla.javascript.drivers.RhinoTest;
-import org.mozilla.javascript.drivers.ScriptTestsBase;
-
-@RhinoTest("testsrc/jstests/harmony/method-definition.js")
-public class MethodDefinitionTest extends ScriptTestsBase
-{
-}
diff --git a/testsrc/org/mozilla/javascript/tests/harmony/NumberIsTest.java
b/testsrc/org/mozilla/javascript/tests/harmony/NumberIsTest.java
deleted file mode 100644
index 501f056..0000000
--- a/testsrc/org/mozilla/javascript/tests/harmony/NumberIsTest.java
+++ /dev/null
@@ -1,16 +0,0 @@
-/* This Source Code Form is subject to the terms of the Mozilla Public
warning: LF will be replaced by CRLF in testsrc/jstests/harmony/array-find.js.
The file will have its original line endings in your working directory.
warning: LF will be replaced by CRLF in testsrc/jstests/harmony/array-findIndex.js.
The file will have its original line endings in your working directory.
warning: LF will be replaced by CRLF in testsrc/org/mozilla/javascript/drivers/JsTestsBase.java.
The file will have its original line endings in your working directory.
warning: LF will be replaced by CRLF in testsrc/org/mozilla/javascript/drivers/ScriptTestsBase.java.
The file will have its original line endings in your working directory.
warning: LF will be replaced by CRLF in testsrc/org/mozilla/javascript/drivers/TestUtils.java.
The file will have its original line endings in your working directory.

```

warning: LF will be replaced by CRLF in testsrc/org/mozilla/javascript/tests/ContextFactoryTest.java.
The file will have its original line endings in your working directory.

warning: LF will be replaced by CRLF in testsrc/org/mozilla/javascript/tests/DoctestsTest.java.
The file will have its original line endings in your working directory.

warning: LF will be replaced by CRLF in testsrc/org/mozilla/javascript/tests/ParserTest.java.
The file will have its original line endings in your working directory.

warning: LF will be replaced by CRLF in testsrc/org/mozilla/javascript/tests/harmony/ArrayFindIndexTest.java.
The file will have its original line endings in your working directory.

warning: LF will be replaced by CRLF in testsrc/org/mozilla/javascript/tests/harmony/ArrayFindTest.java.
The file will have its original line endings in your working directory.

warning: LF will be replaced by CRLF in testsrc/org/mozilla/javascript/tests/harmony/StringCodePointAtTest.java.
The file will have its original line endings in your working directory.

warning: LF will be replaced by CRLF in testsrc/org/mozilla/javascript/tests/harmony/StringEndsWithTest.java.
The file will have its original line endings in your working directory.

warning: LF will be replaced by CRLF in testsrc/org/mozilla/javascript/tests/harmony/StringIncludesTest.java.
The file will have its original line endings in your working directory.

warning: LF will be replaced by CRLF in testsrc/org/mozilla/javascript/tests/harmony/StringNormalizeTest.java.
The file will have its original line endings in your working directory.

warning: LF will be replaced by CRLF in testsrc/org/mozilla/javascript/tests/harmony/StringRepeatTest.java.
The file will have its original line endings in your working directory.

- * License, v. 2.0. If a copy of the MPL was not distributed with this
- * file, You can obtain one at <http://mozilla.org/MPL/2.0/>. */
-
- package org.mozilla.javascript.tests.harmony;
-
- import org.mozilla.javascript.drivers.RhinoTest;
- import org.mozilla.javascript.drivers.ScriptTestsBase;
-
- @RhinoTest(
- value = "testsrc/jstests/harmony/number-is.js"
-)
- public class NumberIsTest
- extends ScriptTestsBase
- {
- }
diff --git a/testsrc/org/mozilla/javascript/tests/harmony/ParseIntFloatTest.java
b/testsrc/org/mozilla/javascript/tests/harmony/ParseIntFloatTest.java
deleted file mode 100644
index 3fdffb4..0000000
--- a/testsrc/org/mozilla/javascript/tests/harmony/ParseIntFloatTest.java
+++ /dev/null
@@ -1,12 +0,0 @@
- package org.mozilla.javascript.tests.harmony;
-
- import org.mozilla.javascript.drivers.RhinoTest;
- import org.mozilla.javascript.drivers.ScriptTestsBase;
-
- @RhinoTest(

```

- value = "testsrc/jstests/harmony/parse-int-float.js"
-)
-public class ParseIntFloatTest
- extends ScriptTestsBase
- {
- }
diff --git a/testsrc/org/mozilla/javascript/tests/harmony/PropertyOrderingTest.java
b/testsrc/org/mozilla/javascript/tests/harmony/PropertyOrderingTest.java
deleted file mode 100644
index 15f2ce0..0000000
--- a/testsrc/org/mozilla/javascript/tests/harmony/PropertyOrderingTest.java
+++ /dev/null
@@ -1,13 +0,0 @@
-package org.mozilla.javascript.tests.harmony;
-
-import org.mozilla.javascript.Context;
-import org.mozilla.javascript.drivers.LanguageVersion;
-import org.mozilla.javascript.drivers.RhinoTest;
-import org.mozilla.javascript.drivers.ScriptTestsBase;
-
-@RhinoTest("testsrc/jstests/harmony/property-ordering.js")
-@LanguageVersion(Context.VERSION_ES6)
-public class PropertyOrderingTest
- extends ScriptTestsBase
- {
- }
diff --git a/testsrc/org/mozilla/javascript/tests/harmony/StringCodePointAtTest.java
b/testsrc/org/mozilla/javascript/tests/harmony/StringCodePointAtTest.java
index 62d8f83..abacb55 100644
--- a/testsrc/org/mozilla/javascript/tests/harmony/StringCodePointAtTest.java
+++ b/testsrc/org/mozilla/javascript/tests/harmony/StringCodePointAtTest.java
@@ -4,13 +4,11 @@
package org.mozilla.javascript.tests.harmony;

-import org.mozilla.javascript.Context;
-import org.mozilla.javascript.drivers.LanguageVersion;
import org.mozilla.javascript.drivers.RhinoTest;
import org.mozilla.javascript.drivers.ScriptTestsBase;

-@RhinoTest("testsrc/jstests/harmony/string-codePointAt.js")
-@LanguageVersion(Context.VERSION_ES6)
-public class StringCodePointAtTest extends ScriptTestsBase
- {
+@RhinoTest(
+ value = "testsrc/jstests/harmony/string-codePointAt.js"
+)
+public class StringCodePointAtTest extends ScriptTestsBase {

```

```
}
diff --git a/testsrc/org/mozilla/javascript/tests/harmony/StringEndsWithTest.java
b/testsrc/org/mozilla/javascript/tests/harmony/StringEndsWithTest.java
index a1e3593..fb32556 100644
--- a/testsrc/org/mozilla/javascript/tests/harmony/StringEndsWithTest.java
+++ b/testsrc/org/mozilla/javascript/tests/harmony/StringEndsWithTest.java
@@ -4,13 +4,11 @@
```

```
package org.mozilla.javascript.tests.harmony;
```

```
-import org.mozilla.javascript.Context;
-import org.mozilla.javascript.drivers.LanguageVersion;
import org.mozilla.javascript.drivers.RhinoTest;
import org.mozilla.javascript.drivers.ScriptTestsBase;
```

```
-@RhinoTest("testsrc/jstests/harmony/string-endsWith.js")
-@LanguageVersion(Context.VERSION_ES6)
-public class StringEndsWithTest extends ScriptTestsBase
-{
+@RhinoTest(
+ value = "testsrc/jstests/harmony/string-endsWith.js"
+)
+public class StringEndsWithTest extends ScriptTestsBase {
}
}
```

```
diff --git a/testsrc/org/mozilla/javascript/tests/harmony/StringIncludesTest.java
b/testsrc/org/mozilla/javascript/tests/harmony/StringIncludesTest.java
index 64ae194..71e2641 100644
--- a/testsrc/org/mozilla/javascript/tests/harmony/StringIncludesTest.java
+++ b/testsrc/org/mozilla/javascript/tests/harmony/StringIncludesTest.java
@@ -4,13 +4,10 @@
```

```
package org.mozilla.javascript.tests.harmony;
```

```
-import org.mozilla.javascript.Context;
-import org.mozilla.javascript.drivers.LanguageVersion;
import org.mozilla.javascript.drivers.RhinoTest;
import org.mozilla.javascript.drivers.ScriptTestsBase;
```

```
@RhinoTest("testsrc/jstests/harmony/string-includes.js")
-@LanguageVersion(Context.VERSION_ES6)
public class StringIncludesTest extends ScriptTestsBase
{
}
}
```

```
diff --git a/testsrc/org/mozilla/javascript/tests/harmony/StringNormalizeTest.java
b/testsrc/org/mozilla/javascript/tests/harmony/StringNormalizeTest.java
index 1b48274..ce2ad67 100644
--- a/testsrc/org/mozilla/javascript/tests/harmony/StringNormalizeTest.java
+++ b/testsrc/org/mozilla/javascript/tests/harmony/StringNormalizeTest.java
```

@@ -4,12 +4,11 @@

```
package org.mozilla.javascript.tests.harmony;
```

```
-import org.mozilla.javascript.Context;  
-import org.mozilla.javascript.drivers.LanguageVersion;  
import org.mozilla.javascript.drivers.RhinoTest;  
import org.mozilla.javascript.drivers.ScriptTestsBase;
```

```
-@RhinoTest("testsrc/jstests/harmony/string-normalize.js")  
-@LanguageVersion(Context.VERSION_ES6)  
+@RhinoTest(  
+  value = "testsrc/jstests/harmony/string-normalize.js"  
+)  
public class StringNormalizeTest extends ScriptTestsBase {  
}  
diff --git a/testsrc/org/mozilla/javascript/tests/harmony/StringRepeatTest.java  
b/testsrc/org/mozilla/javascript/tests/harmony/StringRepeatTest.java  
index 09458b5..dd21401 100644  
--- a/testsrc/org/mozilla/javascript/tests/harmony/StringRepeatTest.java  
+++ b/testsrc/org/mozilla/javascript/tests/harmony/StringRepeatTest.java  
@@ -4,12 +4,11 @@
```

```
package org.mozilla.javascript.tests.harmony;
```

```
-import org.mozilla.javascript.Context;  
-import org.mozilla.javascript.drivers.LanguageVersion;  
import org.mozilla.javascript.drivers.RhinoTest;  
import org.mozilla.javascript.drivers.ScriptTestsBase;
```

```
-@RhinoTest("testsrc/jstests/harmony/string-repeat.js")  
-@LanguageVersion(Context.VERSION_ES6)  
+@RhinoTest(  
+  value = "testsrc/jstests/harmony/string-repeat.js"  
+)  
public class StringRepeatTest extends ScriptTestsBase {  
}  
diff --git a/testsrc/org/mozilla/javascript/tests/harmony/StringStartsWithTest.java  
b/testsrc/org/mozilla/javascript/tests/harmony/StringStartsWithTest.java  
index 4b696b5..b1c8c50 100644  
--- a/testsrc/org/mozilla/javascript/tests/harmony/StringStartsWithTest.java  
+++ b/testsrc/org/mozilla/javascript/tests/harmony/StringStartsWithTest.java  
@@ -4,13 +4,11 @@
```

```
package org.mozilla.javascript.tests.harmony;
```

```
-import org.mozilla.javascript.Context;  
-import org.mozilla.javascript.drivers.LanguageVersion;
```

```

import org.mozilla.javascript.drivers.RhinoTest;
import org.mozilla.javascript.drivers.ScriptTestsBase;

-@RhinoTest("testsrc/jstests/harmony/string-startsWith.js")
-@LanguageVersion(Context.VERSION_ES6)
-public class StringStartsWithTest extends ScriptTestsBase
- {
+@RhinoTest(
+ value = "testsrc/jstests/harmony/string-startsWith.js"
+)
+public class StringStartsWithTest extends ScriptTestsBase {
}
diff --git a/testsrc/org/mozilla/javascript/tests/harmony/SymbolTest.java
b/testsrc/org/mozilla/javascript/tests/harmony/SymbolTest.java
deleted file mode 100644
index 7dc2d86..0000000
--- a/testsrc/org/mozilla/javascript/tests/harmony/SymbolTest.java
+++ /dev/null
@@ -1,16 +0,0 @@
-/* This Source Code Form is subject to the terms of the Mozilla Public
- * License, v. 2.0. If a copy of the MPL was not distributed with this
- * file, You can obtain one at http://mozilla.org/MPL/2.0/. */
-
-package org.mozilla.javascript.tests.harmony;
-
-import org.mozilla.javascript.Context;
-import org.mozilla.javascript.drivers.LanguageVersion;
-import org.mozilla.javascript.drivers.RhinoTest;
-import org.mozilla.javascript.drivers.ScriptTestsBase;
-
-@RhinoTest("testsrc/jstests/harmony/symbols.js")
-@LanguageVersion(Context.VERSION_ES6)
-public class SymbolTest extends ScriptTestsBase
- {
- }
diff --git a/testsrc/org/mozilla/javascript/tests/harmony/ToSourceTest.java
b/testsrc/org/mozilla/javascript/tests/harmony/ToSourceTest.java
deleted file mode 100644
index 542471c..0000000
--- a/testsrc/org/mozilla/javascript/tests/harmony/ToSourceTest.java
+++ /dev/null
@@ -1,34 +0,0 @@
-/* This Source Code Form is subject to the terms of the Mozilla Public
- * License, v. 2.0. If a copy of the MPL was not distributed with this
- * file, You can obtain one at http://mozilla.org/MPL/2.0/. */
-
-package org.mozilla.javascript.tests.harmony;
-

```

```

-import org.junit.Assert;
-import org.junit.Test;
-import org.mozilla.javascript.CompilerEnvirons;
-import org.mozilla.javascript.Context;
-import org.mozilla.javascript.Parser;
-import org.mozilla.javascript.ast.AstRoot;
-
-
-public class ToSourceTest {
-
- private void assertSource(String source, String expectedOutput) {
-   CompilerEnvirons env = new CompilerEnvirons();
-   env.setLanguageVersion(Context.VERSION_ES6);
-   Parser parser = new Parser(env);
-   AstRoot root = parser.parse(source, null, 0);
-   Assert.assertEquals(expectedOutput, root.toSource());
- }
-
-
- /**
-  * Tests that var declaration AST nodes is properly decompiled.
-  */
- @Test
- public void testArrowFunctionToSource() {
-   assertSource("var a3 = a.map(s => s.length);", "var a3 = a.map(s => s.length);\n");
- }
-
-}

```

```
diff --git a/testsrc/test262.properties b/testsrc/test262.properties
```

```
deleted file mode 100644
```

```
index 241b6dd..0000000
```

```
--- a/testsrc/test262.properties
```

```
+++ /dev/null
```

```
@@ -1,291 +0,0 @@
```

```
-built-ins/String
```

```

- ! prototype/replace/15.5.4.11-1.js
- ! prototype/replace/S15.5.4.11_A12.js
- ! prototype/S15.5.4_A1.js
- ! prototype/S15.5.4_A2.js
- ! prototype/S15.5.4_A3.js
- ! prototype/split/S15.5.4.14_A2_T37.js
- ! prototype/substring/S15.5.4.15_A1_T5.js
- ! raw
- ! fromCodePoint
- ! prototype/Symbol.iterator/this-val-non-obj-coercible.js
- ! prototype/endsWith/return-abrupt-from-searchstring-regexp-test.js
- ! prototype/includes/return-abrupt-from-searchstring-regexp-test.js
- ! prototype/includes/return-true-if-searchstring-is-empty.js

```


- ! prototype/normalize/return-normalized-string-using-default-parameter.js
- ! prototype/replace/cstm-replace-get-err.js
- ! prototype/replace/cstm-replace-invocation.js
- ! prototype/startsWith/return-abrupt-from-searchstring-regexp-test.js
- ! prototype/toLocaleLowerCase/special_casing_conditional.js
- ! prototype/toLowerCase/special_casing_conditional.js

-

-built-ins/StringIteratorPrototype

-

-language/statements/for-of

- ! Array.prototype.entries.js
- ! Array.prototype.keys.js
- ! body-dstr-assign-error.js
- ! body-put-error.js
- ! for-of/break
- ! const-bound-names-fordecl-tdz-for-of.js
- ! const-fresh-binding-per-iteration-for-of.js
- ! for-of/continue
- ! for-of/generator
- ! generic-iterable.js
- ! iterator-as-proxy.js
- ! iterator-close-get-method-error.js
- ! iterator-close-non-object.js
- ! iterator-close-via-break.js
- ! iterator-close-via-return.js
- ! iterator-close-via-throw.js
- ! iterator-next-result-type.js
- ! let-bound-names-fordecl-tdz-for-of.js
- ! let-fresh-binding-per-iteration-for-of.js
- ! for-of/map
- ! nested.js
- ! for-of/return
- ! for-of/set
- ! for-of/throw
- ! for-of/yield

-

-built-ins/Array

-# incorrect length handling

- ! every/15.4.4.16-3-7
- ! every/15.4.4.16-3-8
- ! every/15.4.4.16-3-12
- ! every/15.4.4.16-3-14
- ! every/15.4.4.16-3-25
- ! every/15.4.4.16-3-29
- ! filter/15.4.4.20-3-7
- ! filter/15.4.4.20-3-12
- ! filter/15.4.4.20-3-25
- ! forEach/15.4.4.18-3-7

- ! forEach/15.4.4.18-3-12
- ! forEach/15.4.4.18-3-25
- ! indexOf/15.4.4.14-3-7
- ! indexOf/15.4.4.14-3-8
- ! indexOf/15.4.4.14-3-12
- ! indexOf/15.4.4.14-3-14
- ! indexOf/15.4.4.14-3-25
- ! indexOf/15.4.4.14-3-28
- ! indexOf/15.4.4.14-3-29
- ! join/S15.4.4.5_A4_T3
- ! lastIndexOf/15.4.4.15-3-7
- ! lastIndexOf/15.4.4.15-3-12
- ! lastIndexOf/15.4.4.15-3-25
- ! lastIndexOf/15.4.4.15-3-28
- ! map/15.4.4.19-3-7
- ! map/15.4.4.19-3-8
- ! map/15.4.4.19-3-12
- ! map/15.4.4.19-3-14
- ! map/15.4.4.19-3-25
- ! map/15.4.4.19-3-28
- ! map/15.4.4.19-3-29
- ! pop/S15.4.4.6_A2_T2
- ! pop/S15.4.4.6_A3_T1
- ! pop/S15.4.4.6_A3_T2
- ! pop/S15.4.4.6_A3_T3
- ! push/S15.4.4.7_A2_T2
- ! push/S15.4.4.7_A4_T1
- ! push/S15.4.4.7_A4_T3
- ! reduce/15.4.4.21-3-7
- ! reduce/15.4.4.21-3-12
- ! reduce/15.4.4.21-3-25
- ! reduceRight/15.4.4.22-3-7
- ! reduceRight/15.4.4.22-3-12
- ! reduceRight/15.4.4.22-3-25
- ! reverse/S15.4.4.8_A3_T3
- ! shift/S15.4.4.9_A3_T3
- ! slice/S15.4.4.10_A3_T1
- ! slice/S15.4.4.10_A3_T2
- ! slice/S15.4.4.10_A3_T3
- ! some/15.4.4.17-3-7
- ! some/15.4.4.17-3-8
- ! some/15.4.4.17-3-12
- ! some/15.4.4.17-3-14
- ! some/15.4.4.17-3-25
- ! some/15.4.4.17-3-28
- ! some/15.4.4.17-3-29
- ! sort/S15.4.4.11_A4_T3
- ! splice/S15.4.4.12_A3_T1

- ! splice/S15.4.4.12_A3_T3
- ! splice/S15.4.4.12_A6.1_T2
- ! unshift/S15.4.4.13_A3_T2
- # bugs?
- ! splice/S15.4.4.12_A6.1_T3
- # 'this === null' or 'this === undefined'
- ! every/15.4.4.16-1-1
- ! every/15.4.4.16-1-2
- ! filter/15.4.4.20-1-1
- ! filter/15.4.4.20-1-2
- ! forEach/15.4.4.18-1-1
- ! forEach/15.4.4.18-1-2
- ! indexOf/15.4.4.14-1-1
- ! indexOf/15.4.4.14-1-2
- ! indexOf/15.4.4.14-5-28
- ! lastIndexOf/15.4.4.15-1-1
- ! lastIndexOf/15.4.4.15-1-2
- ! lastIndexOf/15.4.4.15-5-28
- ! map/15.4.4.19-1-1
- ! map/15.4.4.19-1-2
- ! reduce/15.4.4.21-1-1
- ! reduce/15.4.4.21-1-2
- ! reduceRight/15.4.4.22-1-1
- ! reduceRight/15.4.4.22-1-2
- ! some/15.4.4.17-1-1
- ! some/15.4.4.17-1-2
- # strictness issues
- ! every/15.4.4.16-5-1-s
- ! filter/15.4.4.20-5-1-s
- ! find/Array.prototype.find_this-arg
- ! find/Array.prototype.find_this-arg-receiver-primitive
- ! find/Array.prototype.find_this-undefined
- ! findIndex/Array.prototype.findIndex_this-arg
- ! findIndex/Array.prototype.findIndex_this-arg-receiver-coercion
- ! findIndex/Array.prototype.findIndex_this-arg-receiver-primitive
- ! forEach/15.4.4.18-5-1-s
- ! map/15.4.4.19-5-1-s
- ! reduce/15.4.4.21-9-c-ii-4-s
- ! reduceRight/15.4.4.22-9-c-ii-4-s
- ! some/15.4.4.17-5-1-s
- ! sort/S15.4.4.11_A8
- ! prototype/findIndex/predicate-call-this-strict.js
- ! prototype/find/predicate-call-this-strict.js
- ! prototype/splice/set_length_no_args.js
- ! prototype/toLocaleString/primitive_this_value.js
- ! prototype/toLocaleString/primitive_this_value_getter.js
-
- # not implemented

- ! Proxy
- ! symbol
- ! Symbol
- ! from/
- ! of/
- ! fill/
- ! concat/
- ! entries/
- ! keys/
- ! copyWithin
- ! values
-
- built-ins/ArrayIteratorPrototype
-
- language/expressions/arrow-function
- # not implemented
- ## strict mode
- ! ArrowFunction_restricted-properties.js
- ## class syntax
- ! lexical-new.target-closure-returned.js
- ! lexical-new.target.js
- ! lexical-super-call-from-within-constructor.js
- ! lexical-super-property-from-within-constructor.js
- ! lexical-super-property.js
- ! lexical-supercall-from-immediately-invoked-arrow.js
- ! syntax/early-errors/arrowparameters-bindingidentifier-no-yield.js
- ## generator
- ! syntax/arrowparameters-bindingidentifier-yield.js
- ! syntax/arrowparameters-cover-formalparameters-yield.js
- ! syntax/early-errors/arrowparameters-cover-no-yield.js
- ## spread operator
- ! syntax/arrowparameters-cover-includes-rest-concisebody-functionbody.js
- ! syntax/arrowparameters-cover-rest-concisebody-functionbody.js
- ! syntax/arrowparameters-cover-rest-lineterminator-concisebody-functionbody.js
- ! syntax/early-errors/arrowparameters-bindingidentifier-rest.js
- ## default parameter
- ! syntax/arrowparameters-cover-initialize-1.js
- ! syntax/arrowparameters-cover-initialize-2.js
- ## destructuring assignment
- ! syntax/early-errors/arrowparameters-cover-no-duplicates-binding-array-1.js
- ! syntax/early-errors/arrowparameters-cover-no-duplicates-binding-array-2.js
- ! syntax/early-errors/arrowparameters-cover-no-duplicates-binding-array-3.js
- ! syntax/early-errors/arrowparameters-cover-no-duplicates-binding-object-1.js
- ! syntax/early-errors/arrowparameters-cover-no-duplicates-binding-object-2.js
- ! syntax/early-errors/arrowparameters-cover-no-duplicates-binding-object-3.js
- ! syntax/early-errors/arrowparameters-cover-no-duplicates-binding-object-4.js
- ! syntax/early-errors/arrowparameters-cover-no-duplicates-binding-object-5.js
- ! syntax/early-errors/arrowparameters-cover-no-duplicates-binding-object-6.js

- ! syntax/early-errors/arrowparameters-cover-no-duplicates-rest.js
- ! syntax/early-errors/arrowparameters-cover-no-duplicates.js
-
- language/arguments-object
- ! arguments-object/mapped/Symbol.iterator.js
- ! arguments-object/mapped/mapped-arguments-nonconfigurable-3.js
- ! arguments-object/mapped/mapped-arguments-nonconfigurable-delete-1.js
- ! arguments-object/mapped/mapped-arguments-nonconfigurable-delete-2.js
- ! arguments-object/mapped/mapped-arguments-nonconfigurable-delete-3.js
- ! arguments-object/mapped/mapped-arguments-nonconfigurable-delete-4.js
- ! arguments-object/mapped/mapped-arguments-nonconfigurable-nonwritable-1.js
- ! arguments-object/mapped/mapped-arguments-nonconfigurable-nonwritable-2.js
- ! arguments-object/mapped/mapped-arguments-nonconfigurable-nonwritable-3.js
- ! arguments-object/mapped/mapped-arguments-nonconfigurable-nonwritable-4.js
- ! arguments-object/mapped/mapped-arguments-nonconfigurable-nonwritable-5.js
- ! arguments-object/mapped/mapped-arguments-nonconfigurable-strict-delete-1.js
- ! arguments-object/mapped/mapped-arguments-nonconfigurable-strict-delete-2.js
- ! arguments-object/mapped/mapped-arguments-nonconfigurable-strict-delete-3.js
- ! arguments-object/mapped/mapped-arguments-nonconfigurable-strict-delete-4.js
- ! arguments-object/mapped/mapped-arguments-nonwritable-nonconfigurable-1.js
- ! arguments-object/mapped/mapped-arguments-nonwritable-nonconfigurable-2.js
- ! arguments-object/mapped/mapped-arguments-nonwritable-nonconfigurable-3.js
- ! arguments-object/mapped/mapped-arguments-nonwritable-nonconfigurable-4.js
- ! arguments-object/unmapped/Symbol.iterator.js
-
- language/types/reference
- ! S8.7.2_A1_T1.js
- ! S8.7.2_A1_T2.js
- ! 8.7.2-3-a-1gs.js
-
- built-ins/Object/defineProperties/15.2.3.7-6-a-26.js
- built-ins/Object/defineProperties/15.2.3.7-6-a-27.js
- built-ins/Object/defineProperties/15.2.3.7-6-a-32.js
- built-ins/Object/getOwnPropertyDescriptor/15.2.3.3-4-230.js
-
- language/expressions/delete/11.4.1-4-a-1-s.js
- language/expressions/delete/11.4.1-4-a-2-s.js
- language/expressions/delete/11.4.1-4-a-4-s.js
- language/expressions/delete/11.4.1-4.a-2.js
- language/expressions/delete/11.4.1-4.a-3-s.js
- language/expressions/delete/11.4.1-4.a-3.js
- language/expressions/delete/11.4.1-4.a-4.js
- language/expressions/delete/11.4.1-4.a-8-s.js
- language/expressions/delete/11.4.1-4.a-9-s.js
- language/expressions/delete/11.4.1-4.a-9.js
- language/expressions/delete/11.4.4-4.a-3-s.js
-
- language/keywords

```

-# expected:<ReferenceError> but was:<SyntaxError>
- ! S7.6.1.1_A1.18.js
-
-language/future-reserved-words
-
-expressions/postfix-decrement
-expressions/postfix-increment
-expressions/prefix-decrement
-expressions/prefix-increment
-
-language/literals/numeric
-
-built-ins/Date
- ! 15.9.1.15-1.js
- ! construct_with_date.js
- ! prototype/setFullYear/15.9.5.40_1.js
-
-built-ins/Object
- ! assign
- ! create
- ! defineProperties
- ! defineProperty
- ! freeze
- ! getOwnPropertyDescriptor
- ! getOwnPropertySymbols
- ! getPrototypeOf
- ! prototype/hasOwnProperty
- ! prototype/propertyIsEnumerable
- ! prototype/toLocaleString
- ! prototype/toString
- ! prototype/valueOf
- ! is
- ! isExtensible
- ! preventExtensions
- ! setPrototypeOf
- ! seal
- ! symbol_object-returns-fresh-symbol.js
diff --git a/testsrc/tests/js1_5/Regress/regress-416628.js b/testsrc/tests/js1_5/Regress/regress-416628.js
index 871af42..166b70e 100755
--- a/testsrc/tests/js1_5/Regress/regress-416628.js
+++ b/testsrc/tests/js1_5/Regress/regress-416628.js
@@ -66,7 +66,7 @@ function test()
    printStatus(msg);
    printStatus('Order: ' + order);

- reportCompare(true, order < 4, 'BigO ' + order + ' < 4');
+ reportCompare(true, order < 2, 'BigO ' + order + ' < 2');

```

```

    exitFunc ('test');
}
diff --git a/testsrc/tests/lc2/Methods/method-006.js b/testsrc/tests/lc2/Methods/method-006.js
new file mode 100644
index 0000000..4318f3f
--- /dev/null
+++ b/testsrc/tests/lc2/Methods/method-006.js
@@ -0,0 +1,56 @@
+/* -*- Mode: C++; tab-width: 2; indent-tabs-mode: nil; c-basic-offset: 2 -*- */
+/* This Source Code Form is subject to the terms of the Mozilla Public
+ * License, v. 2.0. If a copy of the MPL was not distributed with this
+ * file, You can obtain one at http://mozilla.org/MPL/2.0/. */
+
+gTestfile = 'method-006.js';
+
+/**
+ * File Name:    method-006.js
+ * Description:
+ *
+ * Assigning a Java method to a JavaScript object should not change the
+ * context associated with the Java method -- its this object should
+ * be the Java object, not the JavaScript object.
+ *
+ * That is from Flanagan. In practice, this fails all implementations.
+ *
+ * @author    christine@netscape.com
+ * @version   1.00
+ */
+var SECTION = "LiveConnect Objects";
+var VERSION = "1_3";
+var TITLE   = "Assigning a Non-Static Java Method to a JavaScript Object";
+
+startTest();
+writeHeaderToLog( SECTION + " " + TITLE);
+
+var java_string = new java.lang.String("LiveConnect");
+var js_string   = "JavaScript";
+
+DESCRIPTION = "var java_string = new java.lang.String(\"LiveConnect\"); " +
+ "var js_string = \"JavaScript\" " +
+ "js_string.startsWith = java_string.startsWith" +
+ "js_string.startsWith(\"J\")";
+
+EXPECTED = "error";
+
+js_string.startsWith = java_string.startsWith;
+
+new TestCase(

```

```

+ SECTION,
+ "var java_string = new java.lang.String(\"LiveConnect\");" +
+ "var js_string = \"JavaScript\"" +
+ "js_string.startsWith = java_string.startsWith"+
+ "js_string.startsWith(\"J\")",
+ true,
+ js_string.startsWith("J") );
+
+test();
+
+function MyObject() {
+ this.println = java.lang.System.out.println;
+ this.className = java.lang.Class.forName;
+ return this;
+}
+
diff --git a/toolsrc/org/mozilla/javascript/tools/SourceReader.java
b/toolsrc/org/mozilla/javascript/tools/SourceReader.java
index 762d26f..1db218f 100644
--- a/toolsrc/org/mozilla/javascript/tools/SourceReader.java
+++ b/toolsrc/org/mozilla/javascript/tools/SourceReader.java
@@ -2,132 +2,132 @@
 * License, v. 2.0. If a copy of the MPL was not distributed with this
 * file, You can obtain one at http://mozilla.org/MPL/2.0/. */

-package org.mozilla.javascript.tools;
-
-import java.io.File;
-import java.io.FileInputStream;
-import java.io.IOException;
-import java.io.InputStream;
-import java.net.MalformedURLException;
-import java.net.URL;
-import java.net.URLConnection;
-
-import org.mozilla.javascript.Kit;
-import org.mozilla.javascript.commonjs.module.provider.ParsedContentType;
-
-/**
- * @author Attila Szegedi
- * @version $Id: SourceReader.java,v 1.2 2010/02/15 19:31:17 szegedia%freemail.hu Exp $
- */
-public class SourceReader
- {
+package org.mozilla.javascript.tools;
+
+import java.io.File;
+import java.io.FileInputStream;

```



```

+import java.io.IOException;
+import java.io.InputStream;
+import java.net.MalformedURLException;
+import java.net.URL;
+import java.net.URLConnection;
+
+import org.mozilla.javascript.Kit;
+import org.mozilla.javascript.commonjs.module.provider.ParsedContentType;
+
+/**
+ * @author Attila Szegedi
+ * @version $Id: SourceReader.java,v 1.2 2010/02/15 19:31:17 szegedia%freemail.hu Exp $
+ */
+public class SourceReader
+{
+    public static URL toUrl(String path) {
+        // Assume path is URL if it contains a colon and there are at least
+        - // 2 characters in the protocol part. The later allows under Windows
+        - // to interpret paths with driver letter as file, not URL.
+        - if (path.indexOf(':') >= 2) {
+        -     try {
+        + // 2 characters in the protocol part. The later allows under Windows
+        + // to interpret paths with driver letter as file, not URL.
+        + if (path.indexOf(':') >= 2) {
+        +     try {
+        +         return new URL(path);
+        -     } catch (MalformedURLException ex) {
+        +     } catch (MalformedURLException ex) {
+        +         // not a URL
+        -     }
+        - }
+        + }
+        + }
+        return null;
+    }
+
+
+
+    public static Object readFileOrUrl(String path, boolean convertToString,
+        String defaultEncoding) throws IOException
+    {
+        URL url = toUrl(path);
+        - InputStream is = null;
+        - int capacityHint = 0;
+        - String encoding;
+        - final String contentType;
+        - byte[] data;
+        - try {
+        -     if (url == null) {

```

```

-     File file = new File(path);
-     contentType = encoding = null;
-     capacityHint = (int)file.length();
-     is = new FileInputStream(file);
- } else {
-     URLConnection uc = url.openConnection();
-     is = uc.getInputStream();
-     if(convertToString) {
-         ParsedContentType pct = new ParsedContentType(uc.getContentType());
-         contentType = pct.getContentType();
-         encoding = pct.getEncoding();
-     }
-     else {
-         contentType = encoding = null;
-     }
-     capacityHint = uc.getContentLength();
-     // Ignore insane values for Content-Length
-     if (capacityHint > (1 << 20)) {
-         capacityHint = -1;
-     }
- }
- if (capacityHint <= 0) {
-     capacityHint = 4096;
- }
-
- data = Kit.readStream(is, capacityHint);
- } finally {
-     if(is != null) {
-         is.close();
-     }
- }
-
- Object result;
- if (!convertToString) {
-     result = data;
- } else {
-     if(encoding == null) {
-         // None explicitly specified in Content-type header. Use RFC-4329
-         // 4.2.2 section to autodetect
-         if(data.length > 3 && data[0] == -1 && data[1] == -2 && data[2] == 0 && data[3] == 0) {
-             encoding = "UTF-32LE";
-         }
-         else if(data.length > 3 && data[0] == 0 && data[1] == 0 && data[2] == -2 && data[3] == -1) {
-             encoding = "UTF-32BE";
-         }
-         else if(data.length > 2 && data[0] == -17 && data[1] == -69 && data[2] == -65) {
-             encoding = "UTF-8";
-         }
-     }

```

```

-     else if(data.length > 1 && data[0] == -1 && data[1] == -2) {
-         encoding = "UTF-16LE";
-     }
-     else if(data.length > 1 && data[0] == -2 && data[1] == -1) {
-         encoding = "UTF-16BE";
-     }
-     else {
-         // No autodetect. See if we have explicit value on command line
-         encoding = defaultEncoding;
-         if(encoding == null) {
-             // No explicit encoding specification
-             if(url == null) {
-                 // Local files default to system encoding
-                 encoding = System.getProperty("file.encoding");
-             }
-             else if(contentType != null && contentType.startsWith("application/")) {
-                 // application/* types default to UTF-8
-                 encoding = "UTF-8";
-             }
-             else {
-                 // text/* MIME types default to US-ASCII
-                 encoding = "US-ASCII";
-             }
-         }
-     }
-     String strResult = new String(data, encoding);
-     // Skip BOM
-     if(strResult.length() > 0 && strResult.charAt(0) == '\uFEFF')
-     {
-         strResult = strResult.substring(1);
-     }
-     result = strResult;
- }
- return result;
- }
-}

+     InputStream is = null;
+     int capacityHint = 0;
+     String encoding;
+     final String contentType;
+     byte[] data;
+     try {
+         if (url == null) {
+             File file = new File(path);
+             contentType = encoding = null;
+             capacityHint = (int)file.length();
+             is = new FileInputStream(file);

```

```

+     } else {
+         URLConnection uc = url.openConnection();
+         is = uc.getInputStream();
+         if(convertToString) {
+             ParsedContentType pct = new ParsedContentType(uc.getContentType());
+             contentType = pct.getContentType();
+             encoding = pct.getEncoding();
+         }
+         else {
+             contentType = encoding = null;
+         }
+         capacityHint = uc.getContentLength();
+         // Ignore insane values for Content-Length
+         if (capacityHint > (1 << 20)) {
+             capacityHint = -1;
+         }
+     }
+     if (capacityHint <= 0) {
+         capacityHint = 4096;
+     }
+
+     data = Kit.readStream(is, capacityHint);
+ } finally {
+     if(is != null) {
+         is.close();
+     }
+ }
+
+ Object result;
+ if (!convertToString) {
+     result = data;
+ } else {
+     if(encoding == null) {
+         // None explicitly specified in Content-type header. Use RFC-4329
+         // 4.2.2 section to autodetect
+         if(data.length > 3 && data[0] == -1 && data[1] == -2 && data[2] == 0 && data[3] == 0) {
+             encoding = "UTF-32LE";
+         }
+         else if(data.length > 3 && data[0] == 0 && data[1] == 0 && data[2] == -2 && data[3] == -1) {
+             encoding = "UTF-32BE";
+         }
+         else if(data.length > 2 && data[0] == -17 && data[1] == -69 && data[2] == -65) {
+             encoding = "UTF-8";
+         }
+         else if(data.length > 1 && data[0] == -1 && data[1] == -2) {
+             encoding = "UTF-16LE";
+         }
+         else if(data.length > 1 && data[0] == -2 && data[1] == -1) {

```

```

+         encoding = "UTF-16BE";
+     }
+     else {
+         // No autodetect. See if we have explicit value on command line
+         encoding = defaultEncoding;
+         if(encoding == null) {
+             // No explicit encoding specification
+             if(url == null) {
+                 // Local files default to system encoding
+                 encoding = System.getProperty("file.encoding");
+             }
+             else if(contentType != null && contentType.startsWith("application/")) {
+                 // application/* types default to UTF-8
+                 encoding = "UTF-8";
+             }
+             else {
+                 // text/* MIME types default to US-ASCII
+                 encoding = "US-ASCII";
+             }
+         }
+     }
+     }
+     String strResult = new String(data, encoding);
+     // Skip BOM
+     if(strResult.length() > 0 && strResult.charAt(0) == '\uFEFF')
+     {
+         strResult = strResult.substring(1);
+     }
+     result = strResult;
+ }
+ return result;
+ }
+ }

```

```

diff --git a/toolsrc/org/mozilla/javascript/tools/debugger/SwingGui.java
b/toolsrc/org/mozilla/javascript/tools/debugger/SwingGui.java
index a0328d1..9fcc1bd 100644

```

```

--- a/toolsrc/org/mozilla/javascript/tools/debugger/SwingGui.java
+++ b/toolsrc/org/mozilla/javascript/tools/debugger/SwingGui.java
@@ -41,6 +41,7 @@ import java.util.EventObject;
import java.util.Map;
import java.util.HashMap;
import java.util.Properties;
+import java.util.TreeMap;
import java.io.*;
import javax.swing.tree.DefaultTreeCellRenderer;
import javax.swing.tree.TreePath;
@@ -122,7 +123,7 @@ public class SwingGui extends JFrame implements GuiCallback {
    * Hash table of script URLs to their internal frames.

```

```

*/
private final Map<String,FileWindow> fileWindows =
- Collections.synchronizedMap(new HashMap<String,FileWindow>());
+ Collections.synchronizedMap(new TreeMap<String,FileWindow>());

/**
@@ -449,7 +450,19 @@ public class SwingGui extends JFrame implements GuiCallback {
* @param lineNumber the line number to select, or -1
*/
protected void showFileWindow(String sourceUrl, int lineNumber) {
- FileWindow w = getFileWindow(sourceUrl);
+ FileWindow w;
+ if (sourceUrl != null) {
+ w = getFileWindow(sourceUrl);
+ }
+ else {
+ JInternalFrame f = getSelectedFrame();
+ if (f != null && f instanceof FileWindow) {
+ w = (FileWindow) f;
+ }
+ else {
+ w = currentWindow;
+ }
+ }
+ if (w == null) {
+ Dim.SourceInfo si = dim.sourceInfo(sourceUrl);
+ createFileWindow(si, -1);
@@ -458,6 +471,9 @@ public class SwingGui extends JFrame implements GuiCallback {
if (lineNumber > -1) {
int start = w.getPosition(lineNumber-1);
int end = w.getPosition(lineNumber)-1;
+ if (start <= 0) {
+ return;
+ }
w.textArea.select(start);
w.textArea.setCaretPosition(start);
w.textArea.moveCaretPosition(end);
@@ -860,6 +876,26 @@ public class SwingGui extends JFrame implements GuiCallback {
FindFunction dlg = new FindFunction(this, "Go to function",
"Function");
dlg.showDialog(this);
+ } else if (cmd.equals("Go to line...")) {
+ final String s = (String) JOptionPane.showInputDialog(
+ this,
+ "Line number",
+ "Go to line...",
+ JOptionPane.QUESTION_MESSAGE,

```

```

+         null,
+         null,
+         null);
+     if (s == null) {
+         return;
+     }
+     try {
+         final int line = Integer.parseInt(s);
+         showFileWindow(null, line);
+     }
+     catch (final NumberFormatException nfe) {
+         // ignore
+     }
+
+     } else if (cmd.equals("Tile")) {
+         JInternalFrame[] frames = desk.getAllFrames();
+         int count = frames.length;
@@ -3219,8 +3255,9 @@ class Menubar extends JMenuBar implements ActionListener {
+         KeyEvent.VK_N,
+         0,
+         KeyEvent.VK_Q);
-     String[] editItems = {"Cut", "Copy", "Paste", "Go to function..."};
-     char[] editShortCuts = {'T', 'C', 'P', 'F'};
+     String[] editItems = {"Cut", "Copy", "Paste", "Go to function...", "Go to line..."};
+     char[] editShortCuts = {'T', 'C', 'P', 'F', 'L'};
+     int[] editAccelerators = {0, 0, 0, 0, KeyEvent.VK_L };
+     String[] debugItems = {"Break", "Go", "Step Into", "Step Over", "Step Out"};
+     char[] debugShortCuts = {'B', 'G', 'I', 'O', 'T'};
+     String[] plafItems = {"Metal", "Windows", "Motif"};
@@ -3262,6 +3299,10 @@ class Menubar extends JMenuBar implements ActionListener {
+         editShortCuts[i]);
+
+     item.addActionListener(this);
+     editMenu.add(item);
+
+     if (editAccelerators[i] != 0) {
+         KeyStroke k = KeyStroke.getKeyStroke(editAccelerators[i], Event.CTRL_MASK);
+         item.setAccelerator(k);
+     }
+ }
+
+ for (int i = 0; i < plafItems.length; ++i) {
+     JMenuItem item = new JMenuItem(plafItems[i],

```

warning: LF will be replaced by CRLF in testsrc/org/mozilla/javascript/tests/harmony/StringStartsWithTest.java.

The file will have its original line endings in your working directory.

warning: LF will be replaced by CRLF in testsrc/tests/js1_5/Regress/regress-416628.js.

The file will have its original line endings in your working directory.

warning: LF will be replaced by CRLF in testsrc/tests/lc2/Methods/method-006.js.

The file will have its original line endings in your working directory.

warning: LF will be replaced by CRLF in toolsrc/org/mozilla/javascript/tools/debugger/SwingGui.java.

The file will have its original line endings in your working directory.

warning: LF will be replaced by CRLF in toolsrc/org/mozilla/javascript/tools/resources/Messages.properties.

The file will have its original line endings in your working directory.

diff --git a/toolsrc/org/mozilla/javascript/tools/resources/Messages.properties

b/toolsrc/org/mozilla/javascript/tools/resources/Messages.properties

index 0c53545..47b8abc 100644

--- a/toolsrc/org/mozilla/javascript/tools/resources/Messages.properties

+++ b/toolsrc/org/mozilla/javascript/tools/resources/Messages.properties

@@ -32,7 +32,7 @@ msg.shell.usage =\

Valid options are:\n\

\ -?, -help Displays help messages.\n\

\ -w Enable warnings.\n\

- \ -version 100|110|120|130|140|150|160|170|180|200\n\

+ \ -version 100|110|120|130|140|150|160|170|180\n\

\ Set a specific language version.\n\

\ -opt [-1|0-9] Set optimization level.\n\

\ -f script-filename Execute script file, or "-" for interactive.\n\

@@ -60,7 +60,6 @@ msg.help =\

\ The class must be a script compiled to a \n\

\ class file. \n\

print([expr ...]) Evaluate and print expressions. \n\

- write([expr ...]) Evaluate and print just like "print" but without a trailing newline. \n\

quit() Quit the shell. \n\

version([number]) Get or set the JavaScript version number. \n\

gc() Runs the garbage collector.\n\

@@ -68,10 +67,6 @@ msg.help =\

sync(function [, obj]) Creates a synchronized version of the function, \n\

\ where the synchronization object is the obj \n\

\ argument or "this" if obj is undefined\n\

- readline([prompt])\n\

- \ Reads a line of input from the console terminal. \n\

- \ "prompt" is optional, and if included, will be printed \n\

- \ before taking the input. \n\

readFile(fileName [, encoding])\n\

\ Returns the content of the file as a string. \n\

\ Encoding of the string can be optionally specified. \n\

diff --git a/toolsrc/org/mozilla/javascript/tools/shell/Global.java

b/toolsrc/org/mozilla/javascript/tools/shell/Global.java

index 3d732bd..01626d6 100644

--- a/toolsrc/org/mozilla/javascript/tools/shell/Global.java

+++ b/toolsrc/org/mozilla/javascript/tools/shell/Global.java

@@ -98,7 +98,6 @@ public class Global extends ImporterTopLevel

"loadClass",

"print",

"quit",

- "readline",

"readFile",

"readUrl",

"runCommand",


```

@@ -108,7 +107,6 @@ public class Global extends ImporterTopLevel
    "sync",
    "toint32",
    "version",
-   "write"
    };
    defineFunctionProperties(names, Global.class,
        ScriptableObject.DONTENUM);
@@ -189,20 +187,6 @@ public class Global extends ImporterTopLevel
    public static Object print(Context cx, Scriptable thisObj,
        Object[] args, Function funObj)
    {
-   return doPrint(args, funObj, true);
-   }
-
-   /**
-   * Print just as in "print," but without the trailing newline.
-   */
-   public static Object write(Context cx, Scriptable thisObj,
-       Object[] args, Function funObj)
-   {
-   return doPrint(args, funObj, false);
-   }
-
-   private static Object doPrint(Object[] args, Function funObj, boolean newline)
-   {
        PrintStream out = getInstance(funObj).getOut();
        for (int i=0; i < args.length; i++) {
            if (i > 0)
@@ -213,9 +197,7 @@ public class Global extends ImporterTopLevel

            out.print(s);
        }
-   if (newline) {
-       out.println();
-   }
+   out.println();
        return Context.getUndefinedValue();
    }

@@ -1130,25 +1112,6 @@ public class Global extends ImporterTopLevel
    }
}

- /**
- * The readline reads one line from the standard input. "Prompt" is optional.
- * <p>
- * Usage:

```

```

- * <pre>
- * readline(prompt)
- * </pre>
- */
- public static Object readline(Context cx, Scriptable thisObj, Object[] args, Function funObj)
-     throws IOException
- {
-     Global self = getInstance(funObj);
-
-     if (args.length > 0) {
-         return self.console.readLine(Context.toString(args[0]));
-     }
-     return self.console.readLine();
- }
-
- private static String getCharCodingFromType(String type)
- {
-     int i = type.indexOf(';');

```

warning: LF will be replaced by CRLF in toolsrc/org/mozilla/javascript/tools/shell/Global.java.

The file will have its original line endings in your working directory.

Found in path(s):

* /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-jar/rhinoDiff.txt

No license file was found, but licenses were detected in source scan.

```
/* -*- Mode: java; tab-width: 8; indent-tabs-mode: nil; c-basic-offset: 4 -*-
```

```
*
```

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* This Source Code Form is subject to the terms of the Mozilla Public
```

```
* License, v. 2.0. If a copy of the MPL was not distributed with this
```

```
* file, You can obtain one at http://mozilla.org/MPL/2.0/. */
```

Found in path(s):

* /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-

jar/net/sourceforge/htmlunit/corejs/javascript/typedarrays/Conversions.java

No license file was found, but licenses were detected in source scan.

```
/*
```

```
* TreeTableModel.java
```

```
*
```

```
* Copyright 1998 Sun Microsystems, Inc. All Rights Reserved.
```

```
*
```

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* LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
* NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
* SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/
```

Found in path(s):

```
* /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-
jar/net/sourceforge/htmlunit/corejs/javascript/tools/debugger/treetable/TreeTableModel.java
```

No license file was found, but licenses were detected in source scan.

```
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- License, v. 2.0. If a copy of the MPL was not distributed with this
- file, You can obtain one at http://mozilla.org/MPL/2.0/. -->
```

Found in path(s):

```
* /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-
jar/net/sourceforge/htmlunit/corejs/javascript/commonjs/module/provider/package.html
* /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-
jar/net/sourceforge/htmlunit/corejs/javascript/commonjs/module/package.html
```

No license file was found, but licenses were detected in source scan.

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```

Found in path(s):

* /opt/cola/permits/1685982647_1684869410.7134833/0/htmlunit-core-js-2-23-sources-1-jar/net/sourceforge/htmlunit/corejs/javascript/v8dtoa/DoubleConversion.java

1.43 google-guava v23.6

1.43.1 Available under license :

Doug Lea

Apache License

Version 2.0, January 2004

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1.44 closure-compiler v20140407

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* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/rhino/jstype/SimpleSourceFile.java
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* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-
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* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-
jar/com/google/javascript/jscomp/parsing/parser/trees/DefaultParameterTree.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-
jar/com/google/javascript/jscomp/ClosureOptimizePrimitives.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-
jar/com/google/debugging/sourcemap/Base64VLQ.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-
jar/com/google/javascript/jscomp/parsing/parser/TokenType.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-
jar/com/google/javascript/jscomp/parsing/parser/trees/VariableStatementTree.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-
jar/com/google/javascript/jscomp/parsing/parser/trees/ObjectPatternTree.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-
jar/com/google/javascript/jscomp/parsing/parser/LiteralToken.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-
jar/com/google/javascript/jscomp/PeepholeReplaceKnownMethods.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-
jar/com/google/javascript/jscomp/ReorderConstantExpression.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-

jar/com/google/javascript/jscomp/graph/GraphPruner.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-
jar/com/google/javascript/jscomp/parsing/parser/trees/ImportDeclarationTree.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-
jar/com/google/javascript/jscomp/parsing/parser/trees/FinallyTree.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-
jar/com/google/debugging/sourcemap/SourceMappingReversable.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-
jar/com/google/javascript/jscomp/RescopeGlobalSymbols.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-
jar/com/google/javascript/jscomp/parsing/parser/ParseTreeValidator.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-
jar/com/google/javascript/jscomp/parsing/parser/trees/MemberExpressionTree.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-
jar/com/google/javascript/jscomp/parsing/parser/codegeneration/ParseTreeWriter.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-
jar/com/google/javascript/jscomp/parsing/parser/trees/CatchTree.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-
jar/com/google/debugging/sourcemap/SourceMapSection.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-
jar/com/google/javascript/jscomp/parsing/parser/trees/PostfixExpressionTree.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-
jar/com/google/javascript/jscomp/parsing/parser/util/SourceRange.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-
jar/com/google/javascript/jscomp/parsing/parser/trees/IfStatementTree.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-
jar/com/google/javascript/jscomp/parsing/parser/SourceFile.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-
jar/com/google/javascript/jscomp/parsing/parser/util/Pair.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-
jar/com/google/javascript/jscomp/parsing/parser/Parser.java
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- * /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/debugging/sourcemap/SourceMapLineDecoder.java
- * /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/jscomp/PeepholeOptimizationsPass.java
- * /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/jscomp/SpecializationAwareCompilerPass.java
- * /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/jscomp/ScopedAliases.java
- * /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/jscomp/SuppressDocWarningsGuard.java
- * /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/jscomp/ant/CompileTask.java
- * /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/jscomp/JoinOp.java
- * /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/jscomp/deps/SortedDependencies.java
- * /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/jscomp/parsing/Annotation.java
- * /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/jscomp/OptimizeCalls.java
- * /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/jscomp/SimpleFunctionAliasAnalysis.java
- * /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/jscomp/Strings.java
- * /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/jscomp/PeepholeFoldWithTypes.java
- * /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/jscomp/js/runtime_type_check.js
- * /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/jscomp/SpecializeModule.java
- * /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/jscomp/CheckRegExp.java
- * /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/jscomp/ReplaceStrings.java
- * /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/jscomp/RuntimeTypeCheck.java
- * /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/jscomp/PeepholeMinimizeConditions.java
- * /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/jscomp/graph/LatticeElement.java
- * /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/jscomp/AbstractPeepholeOptimization.java
- * /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/jscomp/CallGraph.java
- * /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/jscomp/PeepholeSubstituteAlternateSyntax.java

* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/jscomp/GroupVariableDeclarations.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/jscomp/VariableVisibilityAnalysis.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/jscomp/ant/AntErrorManager.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/jscomp/SideEffectsAnalysis.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/jscomp/ErrorPass.java

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* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/rhino/JSDocInfo.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/rhino/jstype/TemplatizedType.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/rhino/jstype/PrototypeObjectType.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/rhino/jstype/BooleanLiteralSet.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/rhino/jstype/UnionTypeBuilder.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/rhino/jstype/EnumElementType.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/rhino/jstype/StaticScope.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/rhino/jstype/TemplateTypeMap.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/rhino/jstype/InstanceObjectType.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/rhino/jstype/ProxyObjectType.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/rhino/jstype/StringType.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/rhino/jstype/EnumType.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/rhino/jstype/NullType.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/rhino/jstype/NoResolvedType.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/rhino/jstype/RecordType.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/rhino/jstype/JSType.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/rhino/jstype/Visitor.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/rhino/JSDocInfoBuilder.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/rhino/jstype/RecordTypeBuilder.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/rhino/jstype/ArrowType.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/rhino/jstype/TernaryValue.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/rhino/jstype/ErrorFunctionType.java

* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/rhino/testing/BaseJSTypeTestCase.java

* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/rhino/testing/TestErrorReporter.java

* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/rhino/jstype/UnionType.java

* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/rhino/jstype/JSTypeNative.java

* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/rhino/jstype/ValueType.java

* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/rhino/jstype/SimpleSlot.java

* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/rhino/SimpleErrorReporter.java

* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/rhino/jstype/FunctionParamBuilder.java

* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/rhino/jstype/FunctionBuilder.java

* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/rhino/jstype/AllType.java

* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/rhino/jstype/VoidType.java

* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/rhino/jstype/NoType.java

* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/rhino/jstype/TemplateTypeMapReplacer.java

* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/rhino/JSTypeExpression.java

* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/rhino/SourcePosition.java

* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/rhino/jstype/StaticSlot.java

* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/rhino/jstype/TemplateType.java

* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/rhino/jstype/NamedType.java

* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/rhino/jstype/FunctionType.java

* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/rhino/jstype/UnknownType.java

* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/rhino/jstype/JSTypeRegistry.java

* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/rhino/jstype/NumberType.java

* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/rhino/jstype/NoObjectType.java

* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/rhino/jstype/ObjectType.java

* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/rhino/jstype/BooleanType.java

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* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/rhino/jstype/ModificationVisitor.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/rhino/jstype/RelationshipVisitor.java

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* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/rhino/jstype/PropertyMap.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/rhino/testing/Asserts.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/rhino/jstype/EquivalenceMethod.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/rhino/jstype/SimpleReference.java

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- * /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/jscomp/InlineFunctions.java
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- * /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/jscomp/GoogleCodingConvention.java
- * /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/jscomp/AbstractMessageFormatter.java
- * /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/jscomp/CheckGlobalThis.java
- * /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/jscomp/ConvertToDottedProperties.java
- * /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-

jar/com/google/javascript/jscomp/LightweightMessageFormatter.java
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jar/com/google/javascript/jscomp/MessageFormatter.java
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jar/com/google/javascript/jscomp/InvocationsCallback.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-
jar/com/google/javascript/jscomp/LoggerErrorManager.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-
jar/com/google/javascript/jscomp/AliasStrings.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-
jar/com/google/javascript/jscomp/testing/TestErrorReporter.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-
jar/com/google/javascript/jscomp/VerboseMessageFormatter.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-
jar/com/google/javascript/jscomp/type/ClosureReverseAbstractInterpreter.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-
jar/com/google/javascript/jscomp/InlineSimpleMethods.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-
jar/com/google/javascript/jscomp/Region.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-
jar/com/google/javascript/jscomp/parsing/JsDocInfoParser.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-
jar/com/google/javascript/jscomp/SimpleRegion.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-
jar/com/google/javascript/jscomp/EventManager.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-
jar/com/google/javascript/jscomp/BasicErrorManager.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-
jar/com/google/javascript/jscomp/type/SemanticReverseAbstractInterpreter.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-
jar/com/google/javascript/jscomp/CodingConvention.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-
jar/com/google/javascript/jscomp/MethodCompilerPass.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-
jar/com/google/javascript/jscomp/CombinedCompilerPass.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-
jar/com/google/javascript/jscomp/StripCode.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-
jar/com/google/javascript/jscomp/DotFormatter.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-
jar/com/google/javascript/jscomp/ProcessDefines.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-
jar/com/google/javascript/jscomp/ClosureCodingConvention.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-
jar/com/google/javascript/jscomp/PrintStreamErrorManager.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-
jar/com/google/javascript/jscomp/type/ReverseAbstractInterpreter.java

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jar/com/google/javascript/jscomp/ScopeCreator.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-
jar/com/google/javascript/jscomp/XtbMessageBundle.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-
jar/com/google/javascript/jscomp/NameAnalyzer.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-
jar/com/google/javascript/jscomp/JsMessage.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-
jar/com/google/javascript/jscomp/CollapseVariableDeclarations.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-
jar/com/google/javascript/jscomp/CheckSideEffects.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-
jar/com/google/javascript/jscomp/AliasExternals.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-
jar/com/google/javascript/jscomp/RemoveUnusedPrototypeProperties.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-
jar/com/google/javascript/jscomp/AnalyzePrototypeProperties.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-
jar/com/google/javascript/jscomp/CollapseProperties.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-
jar/com/google/javascript/jscomp/ExploitAssigns.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-
jar/com/google/javascript/jscomp/GlobalNamespace.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-
jar/com/google/javascript/jscomp/TypeCheck.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-
jar/com/google/javascript/jscomp/ProcessClosurePrimitives.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-
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jar/com/google/javascript/jscomp/SyntacticScopeCreator.java

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jar/com/google/javascript/jscomp/parsing/Comment.java

* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-

jar/com/google/javascript/jscomp/newtypes/PersistentMap.java

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jar/com/google/javascript/jscomp/lint/CheckNullableReturn.java

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jar/com/google/javascript/jscomp/ES6ModuleLoader.java

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jar/com/google/javascript/jscomp/InferConsts.java

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jar/com/google/javascript/jscomp/newtypes/NaivePersistentMap.java

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jar/com/google/javascript/jscomp/parsing/CommentWrapper.java

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jar/com/google/javascript/jscomp/DeclaredGlobalExternsOnWindow.java

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jar/com/google/javascript/jscomp/newtypes/ObjectKind.java

* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-

jar/com/google/javascript/jscomp/GatherExternProperties.java

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jar/com/google/javascript/jscomp/CompilerOptionsValidator.java

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jar/com/google/javascript/jscomp/RenamePrototypes.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-
jar/com/google/javascript/jscomp/JsMessageExtractor.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-
jar/com/google/javascript/jscomp/NameAnonymousFunctionsMapped.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-
jar/com/google/javascript/jscomp/NodeUtil.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-
jar/com/google/javascript/jscomp/MessageBundle.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-
jar/com/google/javascript/jscomp/RenameVars.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-
jar/com/google/javascript/jscomp/VarCheck.java
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* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-
jar/com/google/javascript/jscomp/CheckLevel.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-
jar/com/google/javascript/jscomp/PeepholeRemoveDeadCode.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-
jar/com/google/javascript/jscomp/PeepholeFoldConstants.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-
jar/com/google/javascript/jscomp/JSError.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-
jar/com/google/javascript/jscomp/ConstCheck.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-
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jar/com/google/javascript/jscomp/NameAnonymousFunctions.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-
jar/com/google/javascript/jscomp/NodeNameExtractor.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-
jar/com/google/javascript/jscomp/ReplaceMessages.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-
jar/com/google/javascript/jscomp/RenameProperties.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-
jar/com/google/javascript/jscomp/Scope.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-
jar/com/google/javascript/jscomp/NodeTraversal.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-
jar/com/google/javascript/jscomp/AnonymousFunctionNamingCallback.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-
jar/com/google/javascript/jscomp/Compiler.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-
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*
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```
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-
jar/com/google/javascript/rhino/Token.java
```

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```
*/
```

```
// We make a special exception when the entire cfgNode is a chain
```

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```
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-
jar/com/google/javascript/jscomp/FlowSensitiveInlineVariables.java
```

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- * /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/jscomp/newtypes/FunctionTypeBuilder.java
- * /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/jscomp/newtypes/ObjectType.java
- * /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/jscomp/InstrumentMemoryAllocPass.java
- * /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/jscomp/fuzzing/StringNumberGenerator.java
- * /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/jscomp/newtypes/Property.java
- * /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/jscomp/fuzzing/ExpressionFuzzer.java
- * /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/jscomp/NewTypeInference.java
- * /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/jscomp/fuzzing/SourceElementFuzzer.java
- * /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/jscomp/fuzzing/StatementFuzzer.java
- * /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/jscomp/fuzzing/GetPropFuzzer.java
- * /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/jscomp/fuzzing/ForInFuzzer.java
- * /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/jscomp/fuzzing/TryFuzzer.java
- * /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/jscomp/newtypes/QualifiedName.java
- * /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/jscomp/fuzzing/Dispatcher.java
- * /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/jscomp/fuzzing/ReturnFuzzer.java
- * /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/jscomp/fuzzing/DiscreteDistribution.java
- * /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/jscomp/GatherCharacterEncodingBias.java
- * /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/jscomp/fuzzing/NumericFuzzer.java
- * /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/jscomp/fuzzing/IfFuzzer.java
- * /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/jscomp/fuzzing/ScopeManager.java

* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/jscomp/fuzzing/ThrowFuzzer.java

* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/jscomp/fuzzing/AssignableExprFuzzer.java

* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/jscomp/ConstParamCheck.java

* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/jscomp/RecentChange.java

* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/jscomp/fuzzing/ExistingIdentifierFuzzer.java

* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/jscomp/fuzzing/GetElemFuzzer.java

* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/jscomp/fuzzing/WhileFuzzer.java

* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/jscomp/newtypes/DeclaredFunctionType.java

* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/jscomp/newtypes/NominalType.java

* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/jscomp/fuzzing/LabelFuzzer.java

* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/jscomp/fuzzing/ArrayFuzzer.java

* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/jscomp/fuzzing/IdentifierFuzzer.java

* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/jscomp/parsing/NewIRFactory.java

* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/jscomp/RenamingMap.java

* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/jscomp/fuzzing/DoWhileFuzzer.java

* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/jscomp/fuzzing/FunctionFuzzer.java

* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/jscomp/GlobalTypeInfo.java

* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/jscomp/fuzzing/ObjectFuzzer.java

* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/jscomp/fuzzing/ScriptFuzzer.java

* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/jscomp/fuzzing/Symbol.java

* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/jscomp/newtypes/DeclaredTypeRegistry.java

* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/jscomp/newtypes/FunctionType.java

* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/jscomp/DisambiguatePrivateProperties.java

* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/jscomp/fuzzing/LiteralFuzzer.java

* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/jscomp/fuzzing/BinaryExprFuzzer.java

* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/jscomp/newtypes/JSType.java

* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/jscomp/fuzzing/FunctionCallFuzzer.java

* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/jscomp/fuzzing/SwitchFuzzer.java

* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/jscomp/fuzzing/AbstractFuzzer.java

* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/jscomp/fuzzing/Driver.java

* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/jscomp/fuzzing/ContinueFuzzer.java

* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/jscomp/fuzzing/VarFuzzer.java

* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/jscomp/fuzzing/UnaryExprFuzzer.java

* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/jscomp/fuzzing/RegularExprFuzzer.java

* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/jscomp/fuzzing/BlockFuzzer.java

* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/jscomp/fuzzing/FuzzingContext.java

* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/jscomp/ForbiddenChange.java

* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/jscomp/fuzzing/Scope.java

* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/jscomp/fuzzing/Type.java

* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/jscomp/fuzzing/SimpleFuzzer.java

* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/jscomp/newtypes/JSTypeCreatorFromJSDoc.java

* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/jscomp/fuzzing/ForFuzzer.java

* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/jscomp/fuzzing/BreakFuzzer.java

* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/jscomp/fuzzing/TernaryExprFuzzer.java

* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/jscomp/fuzzing/StringFuzzer.java

* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/jscomp/fuzzing/BooleanFuzzer.java

* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/jscomp/fuzzing/ExprStmtFuzzer.java

* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/jscomp/MinimizedCondition.java

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* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/rhino/package.html

* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/jscomp/package.html

* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/jscomp/parsing/package.html

* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/rhino/jstype/package.html

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// version.

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* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-
jar/com/google/javascript/jscomp/FunctionRewriter.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-
jar/com/google/javascript/jscomp/CssRenamingMap.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-
jar/com/google/javascript/jscomp/parsing/NullErrorReporter.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-
jar/com/google/javascript/jscomp/FunctionArgumentInjector.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-
jar/com/google/debugging/sourcemap/SourceMapConsumer.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-
jar/com/google/javascript/jscomp/FileInstrumentationData.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-
jar/com/google/javascript/jscomp/CompilationLevel.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-
jar/com/google/javascript/jscomp/Result.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-
jar/com/google/javascript/jscomp/web/service/common/Protocol.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-
jar/com/google/javascript/jscomp/parsing/IRFactory.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-
jar/com/google/javascript/jscomp/Denormalize.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-
jar/com/google/javascript/jscomp/OptimizeArgumentsArray.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-
jar/com/google/javascript/jscomp/AstParallelizer.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-
jar/com/google/debugging/sourcemap/SourceMapping.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-
```

jar/com/google/javascript/jscomp/parsing/JsDocTokenStream.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-
jar/com/google/javascript/jscomp/GatherRawExports.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-
jar/com/google/javascript/jscomp/ExportTestFunctions.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-
jar/com/google/javascript/jscomp/MemoizedScopeCreator.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-
jar/com/google/javascript/jscomp/UseSite.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-
jar/com/google/javascript/jscomp/web/service/common/ErrorCode.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-
jar/com/google/javascript/jscomp/ObjectPropertyStringPreprocess.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-
jar/com/google/debugging/sourcemap/SourceMapGenerator.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-
jar/com/google/javascript/jscomp/CustomPassExecutionTime.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-
jar/com/google/javascript/jscomp/ErrorFormat.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-
jar/com/google/javascript/jscomp/SyntheticAst.java
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* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-
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* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-
jar/com/google/javascript/jscomp/FunctionToBlockMutator.java
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*/
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jar/com/google/javascript/jscomp/CheckEventfulObjectDisposal.java
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jar/com/google/javascript/jscomp/AngularPass.java

* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/jscomp/js/base.js
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* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/jscomp/ErrorHandler.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/jscomp/CleanupPasses.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/jscomp/CheckSuspiciousCode.java
* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/javascript/jscomp/ClosureRewriteClass.java
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Found in path(s):

* /opt/cola/permits/1685982637_1684869272.732495/0/closure-compiler-v20140407-sources-1-jar/com/google/debugging/sourcemap/package.html

1.45 agm-overlays 1.3.2

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* /opt/cola/permits/1685982379_1684868943.396582/0/plexus-archiver-3-6-0-sources-
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* /opt/cola/permits/1685982379_1684868943.396582/0/plexus-archiver-3-6-0-sources-jar/org/codehaus/plexus/archiver/manager/DefaultArchiverManager.java
* /opt/cola/permits/1685982379_1684868943.396582/0/plexus-archiver-3-6-0-sources-jar/org/codehaus/plexus/archiver/manager/NoSuchArchiverException.java

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* /opt/cola/permits/1685982379_1684868943.396582/0/plexus-archiver-3-6-0-sources-jar/org/codehaus/plexus/archiver/xz/XZUnArchiver.java
* /opt/cola/permits/1685982379_1684868943.396582/0/plexus-archiver-3-6-0-sources-jar/org/codehaus/plexus/archiver/tar/PlexusIoTarXZFileResourceCollection.java
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* /opt/cola/permits/1685982379_1684868943.396582/0/plexus-archiver-3-6-0-sources-jar/org/codehaus/plexus/archiver/xz/XZArchiver.java
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* /opt/cola/permits/1685982379_1684868943.396582/0/plexus-archiver-3-6-0-sources-
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* /opt/cola/permits/1685982379_1684868943.396582/0/plexus-archiver-3-6-0-sources-jar/org/codehaus/plexus/archiver/zip/ZipSymlinkResource.java
* /opt/cola/permits/1685982379_1684868943.396582/0/plexus-archiver-3-6-0-sources-jar/org/codehaus/plexus/archiver/tar/TarSymlinkResource.java
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* /opt/cola/permits/1685982379_1684868943.396582/0/plexus-archiver-3-6-0-sources-jar/org/codehaus/plexus/archiver/jar/Manifest.java
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* /opt/cola/permits/1685982379_1684868943.396582/0/plexus-archiver-3-6-0-sources-jar/org/codehaus/plexus/archiver/bzip2/BZip2UnArchiver.java
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* /opt/cola/permits/1685982379_1684868943.396582/0/plexus-archiver-3-6-0-sources-jar/org/codehaus/plexus/archiver/ArchiveEntry.java
* /opt/cola/permits/1685982379_1684868943.396582/0/plexus-archiver-3-6-0-sources-jar/org/codehaus/plexus/archiver/jar/JarArchiver.java
* /opt/cola/permits/1685982379_1684868943.396582/0/plexus-archiver-3-6-0-sources-jar/org/codehaus/plexus/archiver/gzip/GZipArchiver.java
* /opt/cola/permits/1685982379_1684868943.396582/0/plexus-archiver-3-6-0-sources-jar/org/codehaus/plexus/archiver/bzip2/BZip2Archiver.java
* /opt/cola/permits/1685982379_1684868943.396582/0/plexus-archiver-3-6-0-sources-jar/org/codehaus/plexus/archiver/snappy/SnappyUnArchiver.java
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* /opt/cola/permits/1685982379_1684868943.396582/0/plexus-archiver-3-6-0-sources-
jar/org/codehaus/plexus/archiver/diags/DryRunArchiver.java

* /opt/cola/permits/1685982379_1684868943.396582/0/plexus-archiver-3-6-0-sources-jar/org/codehaus/plexus/archiver/util/FilePermissionUtils.java
* /opt/cola/permits/1685982379_1684868943.396582/0/plexus-archiver-3-6-0-sources-jar/org/codehaus/plexus/archiver/diags/TrackingArchiver.java
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* /opt/cola/permits/1685982379_1684868943.396582/0/plexus-archiver-3-6-0-sources-jar/org/codehaus/plexus/archiver/util/Streams.java

* /opt/cola/permits/1685982379_1684868943.396582/0/plexus-archiver-3-6-0-sources-jar/org/codehaus/plexus/archiver/resources/PlexusIoVirtualFileResource.java

* /opt/cola/permits/1685982379_1684868943.396582/0/plexus-archiver-3-6-0-sources-jar/org/codehaus/plexus/archiver/resources/PlexusIoVirtualSymlinkResource.java

* /opt/cola/permits/1685982379_1684868943.396582/0/plexus-archiver-3-6-0-sources-jar/org/codehaus/plexus/archiver/util/ArchiveEntryUtils.java

* /opt/cola/permits/1685982379_1684868943.396582/0/plexus-archiver-3-6-0-sources-jar/org/codehaus/plexus/archiver/util/AbstractFileSet.java

* /opt/cola/permits/1685982379_1684868943.396582/0/plexus-archiver-3-6-0-sources-jar/org/codehaus/plexus/archiver/diags/DelgatingArchiver.java

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jar/org/codehaus/plexus/archiver/zip/ConcurrentJarCreator.java

* /opt/cola/permits/1685982379_1684868943.396582/0/plexus-archiver-3-6-0-sources-
jar/org/codehaus/plexus/archiver/zip/DeferredScatterOutputStream.java

* /opt/cola/permits/1685982379_1684868943.396582/0/plexus-archiver-3-6-0-sources-
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1.48 logback-core 1.1.7

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1.49 findbugs-jsr305 3.0.2

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jar/org/apache/oro/text/awk/NegativeCharacterClassNode.java

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/*

* \$Id: MatchActionProcessor.java,v 1.10 2003/11/07 20:16:24 dfs Exp \$

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 jar/org/apache/oro/text/MatchActionProcessor.java

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 * \$Id: CatNode.java,v 1.7 2003/11/07 20:16:24 dfs Exp \$
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* \$Id: CharacterClassNode.java,v 1.7 2003/11/07 20:16:24 dfs Exp \$

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jar/org/apache/oro/text/awk/CharacterClassNode.java

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* \$Id: GlobFilenameFilter.java,v 1.7 2003/11/07 20:16:23 dfs Exp \$

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jar/org/apache/oro/io/GlobFilenameFilter.java

```

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* $Id: Util.java,v 1.15 2003/11/07 20:16:25 dfs Exp $
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 * /opt/cola/permits/1330679780_1653003181.5396817/0/jakarta-oro-2-0-8-sources-jar/org/apache/oro/text/regex/Util.java

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 * \$Id: Perl5Debug.java,v 1.11 2003/11/07 20:16:25 dfs Exp \$

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/*

* \$Id: EpsilonNode.java,v 1.7 2003/11/07 20:16:24 dfs Exp \$

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* \$Id: Substitution.java,v 1.7 2003/11/07 20:16:25 dfs Exp \$

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* \$Id: AwkStreamInput.java,v 1.7 2003/11/07 20:16:24 dfs Exp \$

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* \$Id: SyntaxNode.java,v 1.7 2003/11/07 20:16:24 dfs Exp \$

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*/
/**

* Determines if the contents of a `PatternMatcherInput`, starting from the
* current offset of the input contains a pattern.
* If a pattern match is found, a `MatchResult`
* instance representing the `first` such match is made accessible via
* `{@link #getMatch()}`. The current offset of the
* `PatternMatcherInput` is set to the offset corresponding to the end
* of the match, so that a subsequent call to this method will continue
* searching where the last call left off. You should remember that the
* region between the begin and end offsets of the `PatternMatcherInput` are
* considered the input to be searched, and that the current offset
* of the `PatternMatcherInput` reflects where a search will start from.
* Matches extending beyond the end offset of the `PatternMatcherInput`
* will not be matched. In other words, a match must occur entirely
* between the begin and end offsets of the input. See
* `{@link org.apache.oro.text.regex.PatternMatcherInput PatternMatcherInput}`
* for more details.

* `<p>`
* As a side effect, if a match is found, the `PatternMatcherInput` match
* offset information is updated. See the `PatternMatcherInput`


```

* { @link org.apache.oro.text.regex.PatternMatcherInput#setMatchOffsets
* setMatchOffsets(int, int) } method for more details.
* <p>
* The pattern must be an AwkPattern instance, otherwise a
* ClassCastException will be thrown. You are not required to, and
* indeed should NOT try to (for performance reasons), catch a
* ClassCastException because it will never be thrown as long as you use
* an AwkPattern as the pattern parameter.
* <p>
* This method is usually used in a loop as follows:
* <blockquote><pre>
* PatternMatcher matcher;
* PatternCompiler compiler;
* Pattern pattern;
* PatternMatcherInput input;
* MatchResult result;
*
* compiler = new AwkCompiler();
* matcher = new AwkMatcher();
*
* try {
* pattern = compiler.compile(somePatternString);
* } catch(MalformedPatternException e) {
* System.err.println("Bad pattern.");
* System.err.println(e.getMessage());
* return;
* }
*
* input = new PatternMatcherInput(someStringInput);
*
* while(matcher.contains(input, pattern)) {
* result = matcher.getMatch();
* // Perform whatever processing on the result you want.
* }
*
* </pre></blockquote>
* <p>
* @param input The PatternMatcherInput to test for a match.
* @param pattern The Pattern to be matched.
* @return True if the input contains a pattern match, false otherwise.
* @exception ClassCastException If a Pattern instance other than an
* AwkPattern is passed as the pattern parameter.
*/

```

Found in path(s):

```

* /opt/cola/permits/1330679780_1653003181.5396817/0/jakarta-oro-2-0-8-sources-
jar/org/apache/oro/text/awk/AwkMatcher.java

```

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```
/*
 * $Id: AwkFilenameFilter.java,v 1.7 2003/11/07 20:16:23 dfs Exp $
 *
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jar/org/apache/oro/io/awk/FileNameFilter.java

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/*

* \$Id: CacheLRU.java,v 1.10 2003/11/07 20:16:25 dfs Exp \$

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jar/org/apache/oro/util/CacheLRU.java

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/*

* \$Id: TokenNode.java,v 1.7 2003/11/07 20:16:24 dfs Exp \$

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jar/org/apache/oro/text/awk/TokenNode.java
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/*
* $Id: QuestionNode.java,v 1.7 2003/11/07 20:16:24 dfs Exp $
*
* =====

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jar/org/apache/oro/text/awk/QuestionNode.java

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/*

* \$Id: Perl5Compiler.java,v 1.21 2003/11/07 20:16:25 dfs Exp \$

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jar/org/apache/oro/text/regex/Perl5Compiler.java

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* \$Id: PatternMatcher.java,v 1.7 2003/11/07 20:16:25 dfs Exp \$

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* \$Id: GenericPatternCache.java,v 1.7 2003/11/07 20:16:24 dfs Exp \$

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* \$Id: PlusNode.java,v 1.7 2003/11/07 20:16:24 dfs Exp \$

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 jar/org/apache/oro/text/regex/PatternMatcherInput.java

No license file was found, but licenses were detected in source scan.

/*

* \$Id: ParsedSubstitutionEntry.java,v 1.7 2003/11/07 20:16:25 dfs Exp \$

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* \$Id: Perl5Pattern.java,v 1.8 2003/11/07 20:16:25 dfs Exp \$

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* \$Id: Perl5Util.java,v 1.19 2003/11/07 20:16:25 dfs Exp \$

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* \$Id: MalformedPatternException.java,v 1.8 2003/11/07 20:16:25 dfs Exp \$

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* \$Id: AwkPattern.java,v 1.7 2003/11/07 20:16:24 dfs Exp \$

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* \$Id: Perl5Repetition.java,v 1.7 2003/11/07 20:16:25 dfs Exp \$

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* \$Id: PatternCacheRandom.java,v 1.7 2003/11/07 20:16:24 dfs Exp \$

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* \$Id: CharStringPointer.java,v 1.7 2003/11/07 20:16:25 dfs Exp \$

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* /opt/cola/permits/1330679780_1653003181.5396817/0/jakarta-oro-2-0-8-sources-jar/org/apache/oro/util/CacheFIFO.java

No license file was found, but licenses were detected in source scan.

/*

* \$Id: AwkMatchResult.java,v 1.8 2003/11/07 20:16:24 dfs Exp \$

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jar/org/apache/oro/text/awk/awk/MatchResult.java

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/*

* \$Id: StringSubstitution.java,v 1.8 2003/11/07 20:16:25 dfs Exp \$

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* /opt/cola/permits/1330679780_1653003181.5396817/0/jakarta-oro-2-0-8-sources-
jar/org/apache/oro/text/regex/StringSubstitution.java

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* $Id: PatternCacheFIFO.java,v 1.7 2003/11/07 20:16:24 dfs Exp $
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 jar/org/apache/oro/text/PatternCacheFIFO.java

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* $Id: OpCode.java,v 1.11 2003/11/07 20:16:25 dfs Exp $
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jar/org/apache/oro/text/regex/OpCode.java

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* \$Id: PatternCompiler.java,v 1.7 2003/11/07 20:16:25 dfs Exp \$

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* $Id: MalformedCachePatternException.java,v 1.7 2003/11/07 20:16:24 dfs Exp $
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jar/org/apache/oro/text/MalformedCachePatternException.java
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* $Id: DefaultMatchAction.java,v 1.7 2003/11/07 20:16:24 dfs Exp $
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jar/org/apache/oro/text/DefaultMatchAction.java

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* \$Id: GenericCache.java,v 1.8 2003/11/07 20:16:25 dfs Exp \$

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* \$Id: RegexFilenameFilter.java,v 1.9 2003/11/07 20:16:23 dfs Exp \$

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/*

* \$Id: CacheFIFO2.java,v 1.7 2003/11/07 20:16:25 dfs Exp \$

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* \$Id: PatternCacheFIFO2.java,v 1.7 2003/11/07 20:16:24 dfs Exp \$

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* \$Id: MalformedPerl5PatternException.java,v 1.7 2003/11/07 20:16:25 dfs Exp \$

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* \$Id: MatchAction.java,v 1.7 2003/11/07 20:16:24 dfs Exp \$

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* \$Id: GenericCacheEntry.java,v 1.7 2003/11/07 20:16:25 dfs Exp \$

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* \$Id: PatternCacheLRU.java,v 1.7 2003/11/07 20:16:24 dfs Exp \$

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* \$Id: Perl5Matcher.java,v 1.27 2003/11/07 20:16:25 dfs Exp \$

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* \$Id: StarNode.java,v 1.7 2003/11/07 20:16:24 dfs Exp \$

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* /opt/cola/permits/1330679780_1653003181.5396817/0/jakarta-oro-2-0-8-sources-
jar/org/apache/oro/text/regex/Perl5Substitution.java

No license file was found, but licenses were detected in source scan.

/*

* \$Id: SyntaxTree.java,v 1.8 2003/11/07 20:16:24 dfs Exp \$

*

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* $Id: Perl5MatchResult.java,v 1.8 2003/11/07 20:16:25 dfs Exp $
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* \$Id: GlobCompiler.java,v 1.8 2003/11/07 20:16:24 dfs Exp \$

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1.51 com.google.auto.service:auto-service- annotations 1.0-rc6

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* /opt/cola/permits/1685982535_1684882567.9428499/0/auto-service-annotations-1-0-rc6-jar/META-
INF/maven/com.google.auto.service/auto-service-annotations/pom.xml

1.52 swiper 6.5.6

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1.56 @vgaidadei/react-tags 0.1.4

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* /opt/cola/permits/1685982559_1684869122.2200658/0/cssparser-0-9-21-sources-jar/META-INF/maven/net.sourceforge.cssparser/cssparser/pom.xml

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Found in path(s):

* /opt/cola/permits/1685982559_1684869122.2200658/0/cssparser-0-9-21-sources-jar/com/steadystate/css/parser/ExceptionResource.java

* /opt/cola/permits/1685982559_1684869122.2200658/0/cssparser-0-9-21-sources-jar/com/steadystate/css/parser/SelectorListImpl.java

* /opt/cola/permits/1685982559_1684869122.2200658/0/cssparser-0-9-21-sources-jar/com/steadystate/css/dom/CounterImpl.java

* /opt/cola/permits/1685982559_1684869122.2200658/0/cssparser-0-9-21-sources-jar/com/steadystate/css/parser/selectors/SelectorFactoryImpl.java

* /opt/cola/permits/1685982559_1684869122.2200658/0/cssparser-0-9-21-sources-jar/com/steadystate/css/parser/selectors/OneOfAttributeConditionImpl.java

* /opt/cola/permits/1685982559_1684869122.2200658/0/cssparser-0-9-21-sources-jar/com/steadystate/css/parser/selectors/GeneralAdjacentSelectorImpl.java

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* /opt/cola/permits/1685982559_1684869122.2200658/0/cssparser-0-9-21-sources-jar/com/steadystate/css/dom/RGBColorImpl.java

* /opt/cola/permits/1685982559_1684869122.2200658/0/cssparser-0-9-21-sources-jar/com/steadystate/css/util/ThrowCssExceptionHandler.java

* /opt/cola/permits/1685982559_1684869122.2200658/0/cssparser-0-9-21-sources-jar/com/steadystate/css/sac/DocumentHandlerExt.java

* /opt/cola/permits/1685982559_1684869122.2200658/0/cssparser-0-9-21-sources-jar/com/steadystate/css/parser/selectors/LangConditionImpl.java

* /opt/cola/permits/1685982559_1684869122.2200658/0/cssparser-0-9-21-sources-jar/com/steadystate/css/userdata/UserDataConstants.java

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jar/com/steadystate/css/dom/CSSStyleDeclarationImpl.java
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jar/com/steadystate/css/dom/DOMExceptionImpl.java
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* /opt/cola/permits/1685982559_1684869122.2200658/0/cssparser-0-9-21-sources-
jar/com/steadystate/css/dom/CSSImportRuleImpl.java
* /opt/cola/permits/1685982559_1684869122.2200658/0/cssparser-0-9-21-sources-

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jar/com/steadystate/css/parser/selectors/ClassConditionImpl.java
* /opt/cola/permits/1685982559_1684869122.2200658/0/cssparser-0-9-21-sources-
jar/com/steadystate/css/parser/selectors/BeginHyphenAttributeConditionImpl.java
* /opt/cola/permits/1685982559_1684869122.2200658/0/cssparser-0-9-21-sources-
jar/com/steadystate/css/parser/Locatable.java
```

1.58 scala-logging_2.12 3.4.0

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1.59 antlr 2.7.2

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1.60 jetty-websocket-common

9.2.20.v20161216

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Manifest-Version: 1.0

Archiver-Version: Plexus Archiver

Created-By: Apache Maven Bundle Plugin

Built-By: joakim

Build-Jdk: 1.7.0_75

Implementation-Vendor: Eclipse.org - Jetty

Implementation-Version: 9.2.20.v20161216

url: <http://www.eclipse.org/jetty>

Export-Package: org.eclipse.jetty.websocket.common.events;version="9.2.20",org.eclipse.jetty.websocket.common.io.http;version="9.2.20",org.eclipse.jetty.websocket.common.extensions;version="9.2.20",org.eclipse.jetty.websocket.common.extensions.fragment;version="9.2.20",org.eclipse.jetty.websocket.common.message;version="9.2.20",org.eclipse.jetty.websocket.common.extensions.identity;version="9.2.20",org.eclipse.jetty.websocket.common.util;version="9.2.20",org.eclipse.websocket.common.extensions.compress;version="9.2.20",org.eclipse.websocket.common.events.annotated;version="9.2.20",org.eclipse.websocket.common;version="9.2.20",org.eclipse.jetty.websocket.common.io.payload;version="9.2.20",org.eclipse.jetty.websocket.common.io;version="9.2.20",org.eclipse.jetty.websocket.common.frames;version="9.2.20"

Bundle-Classpath: .

Tool: Bnd-1.15.0

Bundle-Name: Jetty :: WebSocket :: Common

Bundle-RequiredExecutionEnvironment: JavaSE-1.7

Bundle-Copyright: Copyright (c) 2008-2016 Mort Bay Consulting Pty. Ltd.

Bundle-Vendor: Eclipse Jetty Project

Bundle-Version: 9.2.20.v20161216

Bnd-LastModified: 1481929256250

Bundle-ManifestVersion: 2

Bundle-Description: Administrative parent pom for Jetty modules

Bundle-License: <http://www.apache.org/licenses/LICENSE-2.0>, <http://www.eclipse.org/org/documents/epl-v10.php>

Import-Package: org.eclipse.jetty.io;version="[9.0,10.0)",org.eclipse.jetty.util;version="[9.0,10.0)",org.eclipse.jetty.util.annotation;version="[9.0,10.0)",org.eclipse.jetty.util.component;version="[9.0,10.0)",org.eclipse.jetty.util.log;version="[9.0,10.0)",org.eclipse.jetty.util.thread;version="[9.0,10.0)",org.eclipse.jetty.websocket.api;version="[9.0,10.0)",org.eclipse.jetty.websocket.api.annotations;version="[9.0,10.0)",org.eclipse.jetty.websocket.api.extensions;version="[9.0

,10.0)",org.eclipse.jetty.websocket.api.util;version="[9.0,10.0)"

Bundle-SymbolicName: org.eclipse.jetty.websocket.common

Bundle-DocURL: <http://www.eclipse.org/jetty>

Found in path(s):

* /opt/cola/permits/1685982446_1684945670.1861694/0/websocket-common-9-2-20-v20161216-jar/META-

INF/MANIFEST.MF

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* /opt/cola/permits/1685982446_1684945670.1861694/0/websocket-common-9-2-20-v20161216-jar/about.html

1.61 closure-compiler v20180204

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* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
jar/com/google/javascript/rhino/TypeI.java
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
jar/com/google/javascript/rhino/FunctionTypeI.java
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
jar/com/google/javascript/rhino/NominalTypeBuilder.java
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
jar/com/google/javascript/rhino/ObjectTypeI.java
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
jar/com/google/javascript/rhino/TypeIRegistry.java

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* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
jar/com/google/javascript/rhino/InputId.java
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
jar/com/google/javascript/rhino/IR.java

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* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
jar/com/google/javascript/jscomp/transpile/TranspileResult.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/js/es6/string/includes.js

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/js/es6/math/tanh.js

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* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/js/es6/math/trunc.js

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/js/es6/math/acosh.js

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/newtypes/SubtypeCache.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/js/es6/object/getownpropertysymbols.js

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/js/es6/util/iteratorfromarray.js

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/js/es6/util/makeiterator.js

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/debugging/sourcemap/super/com/google/debugging/sourcemap/SourceMapObjectParser.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/AggressiveInlineAliases.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/UniqueRenamingToken.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/js/es6/math/cosh.js

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/js/es6/number/isnan.js

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/Xid.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/parsing/parser/trees/AwaitExpressionTree.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/gwt/super/com/google/javascript/rhino/dtoa/DToA.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/js/es6/util/arrayfromiterator.js

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/CheckMissingSuper.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/Es6ExternsCheck.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/js/es6/math/log2.js

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/BranchCoverageInstrumentationCallback.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/J2clClinitPrunerPass.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/js/build_polyfill_table.js

- * /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/js/es6/nopolyfill.js
- * /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/js/es6/string/startswith.js
- * /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/ModuleIdentifier.java
- * /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/js/es6/math/asinh.js
- * /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/js/es6/array/values.js
- * /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/transpile/BaseTranspiler.java
- * /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/deps/ModuleNames.java
- * /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/PolymerBehaviorExtractor.java
- * /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/js/es6/weakmap.js
- * /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/DefaultExterns.java
- * /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/js/es6/object/setprototypeof.js
- * /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/lint/CheckDuplicateCase.java
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- * /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/RemoveSuperMethodsPass.java
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- * /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/js/es6/reflect/deleteproperty.js
- * /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/js/es6/math/clz32.js
- * /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/DeadPropertyAssignmentElimination.java
- * /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/J2clSourceFileChecker.java
- * /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/gwt/super/com/google/javascript/jscomp/PerformanceTrackerCodeSizeEstimator.java
- * /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/lint/CheckUselessBlocks.java
- * /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-

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* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
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* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
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* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
jar/com/google/javascript/jscomp/js/es6/object.js
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
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* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
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* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
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* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
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* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
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* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
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* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
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* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
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* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
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* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
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* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
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* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
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* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
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* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
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* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
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* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
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* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
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* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
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* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
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* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
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* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
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* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
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* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
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* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
jar/com/google/javascript/jscomp/js/es6/math/imul.js
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
jar/com/google/javascript/jscomp/J2clEqualitySameRewriterPass.java
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
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* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
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* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
jar/com/google/javascript/jscomp/js/es6/set.js
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
jar/com/google/javascript/jscomp/newtypes/MismatchInfo.java
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
jar/com/google/javascript/jscomp/RewriteJsonToModule.java
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
jar/com/google/javascript/jscomp/js/es6/string/repeat.js
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
jar/com/google/javascript/jscomp/NameBasedDefinitionProvider.java
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
jar/com/google/javascript/jscomp/js/es6/math/log10.js
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-

jar/com/google/javascript/jscomp/js/es6/map.js
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
jar/com/google/javascript/jscomp/js/es6/number.js
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
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* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
jar/com/google/javascript/jscomp/js/es6/array/findindex.js
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
jar/com/google/javascript/jscomp/js/es6/reflect/getprototypeof.js
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
jar/com/google/javascript/jscomp/newtypes/FunctionNamespace.java
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
jar/com/google/javascript/refactoring/examples/refasterjs/navigational_xss_sinks.js
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* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
jar/com/google/javascript/jscomp/RuntimeTypeCheck.java
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
jar/com/google/javascript/jscomp/Strings.java
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
jar/com/google/javascript/jscomp/parsing/Annotation.java
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
jar/com/google/javascript/jscomp/CheckRegExp.java
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
jar/com/google/javascript/jscomp/JoinOp.java
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
jar/com/google/javascript/jscomp/SideEffectsAnalysis.java
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
jar/com/google/javascript/jscomp/ErrorPass.java
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
jar/com/google/javascript/jscomp/deps/SortedDependencies.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/OptimizeCalls.java
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/ReplaceStrings.java
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/PeepholeOptimizationsPass.java
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/AbstractPeepholeOptimization.java
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/ScopedAliases.java
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/graph/LatticeElement.java
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/PeepholeMinimizeConditions.java
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/PeepholeSubstituteAlternateSyntax.java
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/SuppressDocWarningsGuard.java
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/ant/AntErrorManager.java
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/ant/CompileTask.java
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/js/runtime_type_check.js
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/VariableVisibilityAnalysis.java
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/RecoverableJsAst.java

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Found in path(s):

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-

jar/com/google/javascript/jscomp/gwt/linker/minimal_linker.frag.xml

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* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/Es6RewriteBlockScopedDeclaration.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/refactoring/Matcher.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/newtypes/NamespaceLit.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/refactoring/Scanner.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/newtypes/ClosurePersistentHashSet.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/AccessControlUtils.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/Es6SyntacticScopeCreator.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/parsing/parser/trees/ComprehensionForTree.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/refactoring/RefasterJsScanner.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/Es6RewriteModules.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/CompilerOptionsPreprocessor.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/Es6ConvertSuperConstructorCalls.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/ConformanceRules.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/parsing/parser/trees/AssignmentRestElementTree.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/newtypes/NaivePersistentSet.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/Es6ToEs3Util.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/newtypes/Namespace.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/parsing/parser/trees/TemplateLiteralExpressionTree.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/TemplateAstMatcher.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/ChromePass.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/lint/CheckEnums.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/refactoring/ErrorToFixMapper.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/newtypes/ClosurePersistentHashMap.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/refactoring/SuggestedFix.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/newtypes/PersistentSet.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/parsing/parser/trees/TemplateSubstitutionTree.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/refactoring/NodeMetadata.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/refactoring/testing/SuggestedFixes.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/parsing/parser/trees/ComputedPropertySetterTree.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/Es6RenameVariablesInParamLists.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/Es6RewriteGenerators.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/Es6ToEs3ClassSideInheritance.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/Es6ConvertSuper.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/Es6SplitVariableDeclarations.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/InferConsts.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/LateEs6ToEs3Converter.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/newtypes/NaivePersistentMap.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/lint/CheckInterfaces.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/newtypes/TypeWithPropertiesStatics.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/InjectRuntimeLibraries.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/refactoring/JsSourceMatcher.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/parsing/parser/trees/ComprehensionTree.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/deps/ClosureBundler.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/deps/SourceCodeEscapers.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/Es6TemplateLiterals.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/parsing/parser/trees/ComprehensionIfTree.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/CollectFileOverviewVisibility.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/newtypes/ObjectKind.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/newtypes/TypeWithProperties.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/JSDocInfoPrinter.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/ChromeCodingConvention.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/newtypes/JSTypes.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/ClosureRewriteModule.java

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* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/refactoring/Matchers.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/newtypes/EnumType.java

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* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/refactoring/examples/refasterjs/set_location_href.js

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/refactoring/ApplySuggestedFixes.java

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* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/newtypes/TypeEnv.java
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* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/refactoring/CodeReplacement.java
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/EarlyEs6ToEs3Converter.java

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- * /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/parsing/package.html
- * /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/rhino/package.html
- * /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/rhino/jstype/package.html

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jar/com/google/javascript/jscomp/InlineFunctions.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
jar/com/google/javascript/jscomp/VariableMap.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
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* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
jar/com/google/javascript/jscomp/JModule.java

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*  
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jar/com/google/javascript/rhino/jstype/EnumType.java
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jar/com/google/javascript/rhino/jstype/RecordType.java
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
jar/com/google/javascript/rhino/jstype/NoType.java
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
jar/com/google/javascript/rhino/jstype/NullType.java
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
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jar/com/google/javascript/rhino/jstype/FunctionType.java
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jar/com/google/javascript/rhino/jstype/NamedType.java
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* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
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jar/com/google/javascript/rhino/JSTypeExpression.java
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* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
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* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
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* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
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* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
jar/com/google/javascript/rhino/jstype/AllType.java
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
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* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
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* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
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jar/com/google/javascript/rhino/jstype/NoObjectType.java
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
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* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
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* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
jar/com/google/javascript/rhino/jstype/BooleanLiteralSet.java
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
jar/com/google/javascript/rhino/jstype/PrototypeObjectType.java
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
jar/com/google/javascript/rhino/jstype/NoResolvedType.java
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
jar/com/google/javascript/rhino/jstype/NominalTypeBuilderOti.java
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- * /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/StatementFusion.java
- * /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/parsing/parser/trees/MissingPrimaryExpressionTree.java
- * /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/parsing/parser/util/Timer.java
- * /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/debugging/sourcemap/SourceMapGeneratorV3.java
- * /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/TransformAMDTToCJSModule.java
- * /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/regex/RegExpTree.java
- * /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/parsing/parser/trees/PropertyNameAssignmentTree.java
- * /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/parsing/parser/trees/SwitchStatementTree.java
- * /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/parsing/parser/util/format/IllegalFormatConversionException.java
- * /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/parsing/parser/trees/CallExpressionTree.java
- * /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/parsing/parser/Keywords.java
- * /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/parsing/parser/trees/ImportDeclarationTree.java
- * /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/parsing/parser/trees/ParseTreeType.java
- * /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/parsing/parser/trees/ForInStatementTree.java
- * /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/parsing/parser/LiteralToken.java
- * /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/parsing/parser/Scanner.java
- * /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/parsing/parser/trees/ThrowStatementTree.java
- * /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/parsing/parser/util/format/IllegalFormatCodePointException.java
- * /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/parsing/parser/trees/ReturnStatementTree.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/parsing/parser/Token.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/RescopeGlobalSymbols.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/parsing/parser/trees/ExportDeclarationTree.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/debugging/sourcemap/SourceMapSection.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/parsing/parser/Parser.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/CheckDebuggerStatement.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/parsing/parser/trees/SpreadExpressionTree.java

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* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/parsing/parser/trees/ParseTree.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/parsing/parser/trees/RestParameterTree.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/DependencyOptions.java

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* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/parsing/parser/trees/YieldExpressionTree.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/parsing/parser/trees/ExportSpecifierTree.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/parsing/parser/trees/GetAccessorTree.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/parsing/parser/trees/ImportSpecifierTree.java

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* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/parsing/parser/trees/BinaryOperatorTree.java

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* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/parsing/parser/trees/IdentifierExpressionTree.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/debugging/sourcemap/SourceMapFormat.java

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* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/parsing/parser/trees/MemberExpressionTree.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/PeepholeReorderConstantExpression.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/parsing/parser/trees/ConditionalExpressionTree.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/parsing/parser/PredefinedName.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/parsing/parser/util/format/IllegalFormatPrecisionException.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/parsing/parser/trees/CaseClauseTree.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/parsing/parser/trees/ArrayLiteralExpressionTree.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/parsing/parser/util/SourceRange.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/parsing/parser/trees/DebuggerStatementTree.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/parsing/parser/trees/ArrayPatternTree.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/parsing/parser/trees/SuperExpressionTree.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/debugging/sourcemap/Base64.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/parsing/parser/trees/VariableDeclarationListTree.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/parsing/parser/trees/LiteralExpressionTree.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/parsing/parser/trees/DefaultClauseTree.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/parsing/parser/trees/ParenExpressionTree.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/parsing/parser/trees/EmptyStatementTree.java

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* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/AstValidator.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/parsing/parser/util/LookaheadErrorReporter.java

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* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/regex/CharRanges.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/parsing/parser/TokenType.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/PeepholeCollectPropertyAssignments.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/parsing/parser/trees/WithStatementTree.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/debugging/sourcemap/SourceMapConsumerFactory.java

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* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/regex/CaseCanonicalize.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/debugging/sourcemap/SourceMapConsumerV3.java

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* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/debugging/sourcemap/Util.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/parsing/parser/trees/NewExpressionTree.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/parsing/parser/util/Reporter.java

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* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
jar/com/google/javascript/jscomp/parsing/parser/trees/ObjectLiteralExpressionTree.java
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
jar/com/google/javascript/jscomp/parsing/parser/trees/ThisExpressionTree.java
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
jar/com/google/javascript/jscomp/parsing/parser/util/format/SimpleFormat.java
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
jar/com/google/javascript/jscomp/ProcessCommonJSMODULES.java
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
jar/com/google/javascript/jscomp/FieldCleanupPass.java
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
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// We make a special exception when the entire cfgNode is a chain
```

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* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
jar/com/google/javascript/jscomp/VerboseMessageFormatter.java
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
jar/com/google/javascript/jscomp/InlineSimpleMethods.java
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
jar/com/google/javascript/jscomp/ProcessDefines.java
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
jar/com/google/javascript/jscomp/CheckGlobalThis.java
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
jar/com/google/javascript/jscomp/CodingConvention.java
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
jar/com/google/javascript/jscomp/ConvertToDottedProperties.java
```


* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/Region.java
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/PrintStreamErrorManager.java
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/type/ClosureReverseAbstractInterpreter.java
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/DotFormatter.java
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/type/SemanticReverseAbstractInterpreter.java
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/GoogleCodingConvention.java
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/CombinedCompilerPass.java
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/type/ReverseAbstractInterpreter.java
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/AliasStrings.java
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/StripCode.java
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/SimpleRegion.java
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/LightweightMessageFormatter.java
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/InvocationsCallback.java
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/ErrorMessageManager.java
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/LoggerErrorMessageManager.java
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/BasicErrorMessageManager.java
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/AbstractMessageFormatter.java
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/MethodCompilerPass.java
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/parsing/JsDocInfoParser.java
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* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/ClosureCodingConvention.java
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* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/deps/WebpackModuleResolver.java
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/Es6RewriteModulesToCommonJsModules.java
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/js/modules.js
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* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/AbstractVar.java
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/EsNextToEs8Converter.java
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/AbstractScope.java
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* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/js/base.js
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/ErrorHandler.java
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* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/Tracer.java

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jar/com/google/javascript/rhino/TokenUtil.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
jar/com/google/javascript/rhino/TokenStream.java

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Found in path(s):

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jar/com/google/javascript/jscomp/CodePrinter.java
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Found in path(s):

```
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
jar/com/google/javascript/jscomp/FunctionTypeBuilder.java
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
jar/com/google/javascript/jscomp/Normalize.java
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
jar/com/google/javascript/jscomp/graph/GraphNode.java
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
jar/com/google/javascript/jscomp/DisambiguateProperties.java
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
jar/com/google/javascript/jscomp/ByPathWarningsGuard.java
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
jar/com/google/javascript/jscomp/PerformanceTracker.java
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
jar/com/google/javascript/jscomp/graph/GraphColoring.java
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
jar/com/google/javascript/jscomp/graph/DiGraph.java
```

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/CoalesceVariableNames.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/DataFlowAnalysis.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/AmbiguateProperties.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/graph/Annotatable.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/deps/DepsGenerator.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/graph/LinkedUndirectedGraph.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/LinkedFlowScope.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/deps/JsFileParser.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/graph/AdjacencyGraph.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/JsMessageDefinition.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/deps/JsFileLineParser.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/GenerateExports.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/StrictWarningsGuard.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/TypeInference.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/UnreachableCodeElimination.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/GoogleJsMessageIdGenerator.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/ControlFlowAnalysis.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/graph/UndiGraph.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/graph/UnionFind.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/graph/SubGraph.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/deps/DependencyFile.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/VariableReferenceCheck.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/FindExportableNodes.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/deps/DepsFileParser.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/type/FlowScope.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/CrossModuleCodeMotion.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/MustBeReachingVariableDef.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/Reference.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/ReferenceCollectingCallback.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/JSModuleGraph.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/DeadAssignmentsElimination.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/ExtractPrototypeMemberDeclarations.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/debugger/common/CompilationParam.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/deps/SourceFile.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/CheckMissingAndExtraRequires.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/RemoveUnusedCode.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/CollapseAnonymousFunctions.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/CheckMissingReturn.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/graph/Graph.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/DiagnosticGroupWarningsGuard.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/CheckPathsBetweenNodes.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/CheckGlobalNames.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/ClosureCodeRemoval.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/graph/GraphvizGraph.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/DiagnosticType.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/graph/StandardUnionFind.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/deps/ServiceException.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/InstrumentFunctions.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/ShowByPathWarningsGuard.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/FunctionInjector.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/ControlFlowGraph.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/CheckProvides.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/deps/PathUtil.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/deps/VirtualFile.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/CrossModuleMethodMotion.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/InlineVariables.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/graph/Annotation.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/RecordFunctionInformation.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/DiagnosticGroups.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/graph/FixedPointGraphTraversal.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/graph/LinkedDirectedGraph.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/DiagnosticGroup.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/CollectFunctionNames.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/EmptyMessageBundle.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/MoveFunctionDeclarations.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/LineNumberCheck.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/JsMessageVisitor.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/RenameLabels.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/WarningsGuard.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/CheckUnreachableCode.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/graph/GraphReachability.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/PrepareAst.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/CheckAccessControls.java
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/ComposeWarningsGuard.java
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/InlineCostEstimator.java
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```
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
jar/com/google/javascript/rhino/jstype/CanCastToVisitor.java
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
jar/com/google/javascript/rhino/jstype/RelationshipVisitor.java
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
jar/com/google/javascript/rhino/jstype/ModificationVisitor.java
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```
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
jar/com/google/javascript/jscomp/newtypes/QualifiedName.java
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
jar/com/google/javascript/jscomp/MinimizedCondition.java
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
jar/com/google/javascript/jscomp/newtypes/JSType.java
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
jar/com/google/javascript/jscomp/newtypes/RawNominalType.java
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
jar/com/google/javascript/jscomp/newtypes/DeclaredTypeRegistry.java
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
jar/com/google/javascript/jscomp/RenamingMap.java
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
jar/com/google/javascript/jscomp/newtypes/DeclaredFunctionType.java
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
jar/com/google/javascript/jscomp/newtypes/FunctionType.java
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
jar/com/google/javascript/jscomp/GlobalTypeInfoCollector.java
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
jar/com/google/javascript/jscomp/newtypes/Property.java
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
jar/com/google/javascript/jscomp/newtypes/NominalType.java
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
```

jar/com/google/javascript/jscomp/GlobalTypeInfo.java
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
jar/com/google/javascript/jscomp/SimpleInference.java
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
jar/com/google/javascript/jscomp/parsing/IRFactory.java
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
jar/com/google/javascript/jscomp/newtypes/FunctionTypeBuilder.java
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
jar/com/google/javascript/jscomp/newtypes/ObjectType.java
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
jar/com/google/javascript/jscomp/newtypes/JSTypeCreatorFromJSDoc.java
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
jar/com/google/javascript/jscomp/NewTypeInference.java
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
jar/com/google/javascript/jscomp/ConstParamCheck.java
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
jar/com/google/javascript/jscomp/ForbiddenChange.java
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
jar/com/google/javascript/jscomp/NTIScope.java
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
jar/com/google/javascript/jscomp/DisambiguatePrivateProperties.java
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
jar/com/google/javascript/jscomp/RecentChange.java

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* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/NodeUtil.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/Scope.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/RenameProperties.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/Compiler.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/TypedScopeCreator.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/CodeGenerator.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/CodeConsumer.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/MessageBundle.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/NodeTraversal.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/PeepholeFoldConstants.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/NameAnonymousFunctions.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/NodeNameExtractor.java

```
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
jar/com/google/javascript/jscomp/VarCheck.java
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
jar/com/google/javascript/jscomp/NameAnonymousFunctionsMapped.java
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
jar/com/google/javascript/jscomp/CheckLevel.java
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
jar/com/google/javascript/jscomp/JsMessageExtractor.java
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
jar/com/google/javascript/jscomp/PeepholeRemoveDeadCode.java
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
jar/com/google/javascript/jscomp/ConstCheck.java
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
jar/com/google/javascript/jscomp/ReplaceMessages.java
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
jar/com/google/javascript/jscomp/JSError.java
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
jar/com/google/javascript/jscomp/RenameVars.java
```

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```
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
jar/com/google/javascript/jscomp/lint/package.html
```

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```
# This file contains example JS conformance configurations for various problems
```

```
# with JavaScript. Since each project may want to opt-in to different rules, and
```

```
# each project may need its own specific whitelist, the examples in this file
```

```
# are meant to be copied to a project specific conformance_proto.textproto file.
```

```
requirement: {
```

```
  type: BANNED_NAME
```



```

error_message: 'eval is not allowed since it can be used to execute '
    'arbitrary JavaScript code. It is not typically necessary '
    'in ordinary programming.'

value: 'eval'

whitelist: 'javascript/closure/base.js'
whitelist: 'javascript/closure/json/json.js'
}

requirement: {
type: BANNED_PROPERTY
error_message: 'Arguments.prototype.callee is not allowed in ES5 Strict mode.'
    'The JavaScript compiler will also check this when '
    'CHECK_ES5_STRICT is enabled, but this conformance check also '
    'warns for possible violations.'

value: 'Arguments.prototype.callee'

whitelist: 'javascript/closure/base.js' # goog.base uses arguments.callee
whitelist: 'javascript/closure/debug/' # legacy stack trace support, etc
}

requirement: {
type: BANNED_PROPERTY_WRITE
error_message: 'Assignment to Element.prototype.innerHTML is not allowed '
    'since passing unsafe content can cause XSS vulnerabilities.'
    'Use goog.dom.safe.setInnerHTML instead.'

value: 'Element.prototype.innerHTML'

# Safe wrapper for this property.
whitelist: 'javascript/closure/dom/safe.js'

# Safely used in goog.string.unescapeEntitiesUsingDom_; the string assigned to
# innerHTML is a single HTML entity.
whitelist: 'javascript/closure/string/string.js'
}

requirement: {
type: BANNED_PROPERTY_WRITE
error_message: 'Assignment to Element.prototype.outerHTML is not allowed '
    'since passing unsafe content can cause XSS vulnerabilities.'
    'Use goog.dom.safe.setOuterHtml instead.'

value: 'Element.prototype.outerHTML'

# Safe wrapper for this property.

```

```

whitelist: 'javascript/closure/dom/safe.js'
}

requirement: {
  type: BANNED_PROPERTY_WRITE
  error_message: 'Assignment to Location.prototype.href is not allowed. '
    'Externally controlled content assigned to the href property '
    'can cause XSS vulnerabilities, such as executing '
    'javascript:evil() URLs. Use goog.dom.safe.setLocationHref '
    'instead.'

  value: 'Location.prototype.href'

  # Safe wrapper for this property.
  whitelist: 'javascript/closure/dom/safe.js'
}

requirement: {
  type: BANNED_PROPERTY_WRITE
  error_message: 'Assignment to Window.prototype.location is not allowed.'
    'Externally controlled content assigned to the location '
    'object can cause XSS vulnerabilities, such as executing '
    'javascript:evil() URLs. Use goog.dom.safe.setLocationHref '
    'instead.'

  value: 'Window.prototype.location'
}

requirement: {
  type: BANNED_PROPERTY_WRITE
  error_message: 'Assignment to .href property of Anchor, Link, etc elements, '
    'is not allowed. Externally controlled content assigned '
    'to the href property can cause XSS vulnerabilities, such as '
    'executing javascript:evil() URLs. '
    'Use goog.dom.safe.setAnchorHref instead.'

  # Types with .href properties that do not extend from Element.
  value: 'StyleSheet.prototype.href'
  value: 'CSSImportRule.prototype.href'

  # All other types extend from Element.
  value: 'Element.prototype.href'

  # Safe wrapper for this property.
  whitelist: 'javascript/closure/dom/safe.js'
}

requirement: {

```

```
type: BANNED_PROPERTY_WRITE
error_message: 'Use of document.domain is not allowed since it relaxes the '
               'the same origin protections of JavaScript and opens up the '
               'attack surface for the domain.'

value: 'Document.prototype.domain'
}
```

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```
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
jar/com/google/javascript/jscomp/example_conformance_proto.textproto
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- * /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/rhino/jstype/StaticTypedRef.java
- * /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/rhino/StaticSymbolTable.java
- * /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/rhino/SimpleSourceFile.java
- * /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/rhino/testing/AbstractStaticScope.java
- * /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/rhino/StaticSourceFile.java
- * /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/rhino/testing/MapBasedScope.java
- * /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/rhino/jstype/NamespaceType.java

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* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
jar/com/google/javascript/rhino/jstype/SimpleReference.java
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
jar/com/google/javascript/rhino/jstype/PropertyMap.java
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
jar/com/google/javascript/rhino/jstype/Property.java
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
jar/com/google/javascript/rhino/jstype/EquivalenceMethod.java

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* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/MakeDeclaredNamesUnique.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/PassFactory.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/StrictModeCheck.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/OptimizeArgumentsArray.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/PropertyRenamingPolicy.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/debugging/sourcemap/SourceMapping.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/OptimizeReturns.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/CompilerInput.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/PassConfig.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/testing/SimpleSourceExcerptProvider.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/CompilationLevel.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/parsing/JsDocToken.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/CheckLevelLegacy.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/RhinoErrorReporter.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/debugging/sourcemap/SourceMapConsumer.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/parsing/ParserRunner.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/MarkNoSideEffectCalls.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/CoverageUtil.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/GatherSideEffectSubexpressionsCallback.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/DevirtualizePrototypeMethods.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/debugging/sourcemap/SourceMapGeneratorFactory.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/parsing/Config.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/webservice/common/AbstractWebServiceException.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/SyntheticAst.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/GatherRawExports.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/JsAst.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/PhaseOptimizer.java

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* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/TypeInferencePass.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/CustomPassExecutionTime.java

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* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/ObjectPropertyStringPostprocess.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/NodeIterators.java

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* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/CoverageInstrumentationPass.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/CheckMissingGetCssName.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/CssRenamingMap.java

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* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/ObjectPropertyStringPreprocess.java
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/parsing/NullErrorReporter.java
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* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/gwt/super/com/google/javascript/jscomp/InstrumentationTemplate.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/gwt/super/com/google/javascript/jscomp/InstrumentationOrBuilder.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/NameGenerator.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/gwt/super/com/google/javascript/jscomp/Conformance.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/Linter.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/TypedVar.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/parsing/parser/trees/EnumDeclarationTree.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/Var.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/SubstituteEs6Syntax.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/debugging/sourcemap/super/com/google/debugging/sourcemap/proto/Mapping.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/gwt/super/com/google/javascript/jscomp/Tracer.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/js/license.js

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/parsing/parser/FeatureSet.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/parsing/parser/trees/TypeQueryTree.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/gwt/util.js

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/RandomNameGenerator.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/gwt/super/com/google/javascript/jscomp/OutputCharsetEncoder.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/parsing/parser/trees/IndexSignatureTree.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/gwt/super/com/google/common/io/Files.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/gwt/super/com/google/javascript/jscomp/ReplaceMessages.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/gwt/super/com/google/javascript/jscomp/deps/DependencyFile.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/deps/Es6SortedDependencies.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/gwt/super/com/google/javascript/jscomp/Linter.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/gwt/super/com/google/javascript/jscomp/FunctionInformationMap.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/gwt/client/Util.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/InlineAliases.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/parsing/parser/trees/AmbientDeclarationTree.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/gwt/super/com/google/javascript/jscomp/CompilerExecutor.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/Es6RenameReferences.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/parsing/parser/trees/NamespaceNameTree.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/CheckJSDoc.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/gwt/super/com/google/javascript/jscomp/newtypes/PersistentMap.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/resources/ResourceLoader.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/parsing/parser/trees/TypedParameterTree.java

* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-jar/com/google/javascript/jscomp/gwt/super/com/google/javascript/jscomp/Requirement.java

```
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
jar/com/google/javascript/jscomp/lint/CheckRequiresAndProvidesSorted.java
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
jar/com/google/javascript/jscomp/parsing/parser/trees/ComputedPropertyMemberVariableTree.java
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
jar/com/google/javascript/jscomp/TypeMatchingStrategy.java
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*/
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```
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
jar/com/google/javascript/jscomp/CompilerPass.java
```

```
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
jar/com/google/javascript/jscomp/deps/DefaultDependencyResolver.java
```

```
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
jar/com/google/javascript/jscomp/ProcessClosurePrimitives.java
```

```
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
jar/com/google/javascript/jscomp/JsMessage.java
```

```
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
jar/com/google/javascript/jscomp/TypeCheck.java
```

```
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
jar/com/google/javascript/jscomp/XtbMessageBundle.java
```

```
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
jar/com/google/javascript/jscomp/CheckSideEffects.java
```

```
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
jar/com/google/javascript/jscomp/SyntacticScopeCreator.java
```

```
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
jar/com/google/javascript/jscomp/CollapseVariableDeclarations.java
```

```
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
jar/com/google/javascript/jscomp/ExploitAssigns.java
```

```
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
jar/com/google/javascript/jscomp/ScopeCreator.java
```

```
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
```



```
jar/com/google/javascript/jscomp/AnalyzePrototypeProperties.java
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
jar/com/google/javascript/jscomp/GlobalNamespace.java
* /opt/cola/permits/1685982639_1684869203.891982/0/closure-compiler-v20180204-sources-
jar/com/google/javascript/jscomp/CollapseProperties.java
```

1.62 jetty-java-based-http-1-x-http-2-servlet- websocket-server 9.3.11.20160721

1.62.1 Available under license :

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```
Manifest-Version: 1.0
Archiver-Version: Plexus Archiver
Created-By: Apache Maven Bundle Plugin
Built-By: joakim
Build-Jdk: 1.8.0_74
Implementation-Vendor: Eclipse.org - Jetty
Implementation-Version: 9.3.11.v20160721
url: http://www.eclipse.org/jetty
Bnd-LastModified: 1469151509172
Bundle-Classpath: .
Bundle-Copyright: Copyright (c) 2008-2016 Mort Bay Consulting Pty. Ltd.
Bundle-Description: Jetty module for Jetty :: Http Utility
Bundle-DocURL: http://www.eclipse.org/jetty
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0, http://www
.eclipse.org/org/documents/epl-v10.php
Bundle-ManifestVersion: 2
Bundle-Name: Jetty :: Http Utility
Bundle-RequiredExecutionEnvironment: JavaSE-1.8
Bundle-SymbolicName: org.eclipse.jetty.http
Bundle-Vendor: Eclipse Jetty Project
Bundle-Version: 9.3.11.v20160721
Export-Package: org.eclipse.jetty.http;version="9.3.11";uses:="org.ecl
ipse.jetty.util,org.eclipse.jetty.util.log,org.eclipse.jetty.util.res
ource",org.eclipse.jetty.http.pathmap;version="9.3.11";uses:="org.ecl
ipse.jetty.util.annotation,org.eclipse.jetty.util.component"
Import-Package: org.eclipse.jetty.util;version="[9.3.11,9.3.12)",org.e
clipse.jetty.util.annotation;version="[9.3.11,9.3.12)",org.eclipse.je
tty.util.component;version="[9.3.11,9.3.12)",org.eclipse.jetty.util.l
og;version="[9.3.11,9.3.12)",org.eclipse.jetty.util.resource;version=
"[9.3.11,9.3.12)"
Originally-Created-By: Apache Maven Bundle Plugin
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-2.4.1.201501161923
```

Found in path(s):

* /opt/cola/permits/1204005458_1684945272.7510452/0/jetty-http-9-3-11-v20160721-jar/META-INF/MANIFEST.MF

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Found in path(s):

* /opt/cola/permits/1204005458_1684945272.7510452/0/jetty-http-9-3-11-v20160721-jar/about.html

1.63 plexus-io-components 2.7.1

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* /opt/cola/permits/1045557791_1684948190.4011142/0/plexus-io-3-0-1-sources-jar/org/codehaus/plexus/components/io/filemappers/MergeFileMapper.java

* /opt/cola/permits/1045557791_1684948190.4011142/0/plexus-io-3-0-1-sources-jar/org/codehaus/plexus/components/io/filemappers/AbstractFileMapper.java

* /opt/cola/permits/1045557791_1684948190.4011142/0/plexus-io-3-0-1-sources-jar/org/codehaus/plexus/components/io/resources/PlexusIoArchivedResourceCollection.java

* /opt/cola/permits/1045557791_1684948190.4011142/0/plexus-io-3-0-1-sources-

jar/org/codehaus/plexus/components/io/fileselectors/IncludeExcludeFileSelector.java
* /opt/cola/permits/1045557791_1684948190.4011142/0/plexus-io-3-0-1-sources-
jar/org/codehaus/plexus/components/io/attributes/SimpleResourceAttributes.java
* /opt/cola/permits/1045557791_1684948190.4011142/0/plexus-io-3-0-1-sources-
jar/org/codehaus/plexus/components/io/attributes/FileAttributes.java
* /opt/cola/permits/1045557791_1684948190.4011142/0/plexus-io-3-0-1-sources-
jar/org/codehaus/plexus/components/io/attributes/AttributeConstants.java
* /opt/cola/permits/1045557791_1684948190.4011142/0/plexus-io-3-0-1-sources-
jar/org/codehaus/plexus/components/io/resources/PlexusIoResourceCollection.java
* /opt/cola/permits/1045557791_1684948190.4011142/0/plexus-io-3-0-1-sources-
jar/org/codehaus/plexus/components/io/fileselectors/FileInfo.java
* /opt/cola/permits/1045557791_1684948190.4011142/0/plexus-io-3-0-1-sources-
jar/org/codehaus/plexus/components/io/fileselectors/AllFilesFileSelector.java
* /opt/cola/permits/1045557791_1684948190.4011142/0/plexus-io-3-0-1-sources-
jar/org/codehaus/plexus/components/io/attributes/PlexusIoResourceAttributeUtils.java
* /opt/cola/permits/1045557791_1684948190.4011142/0/plexus-io-3-0-1-sources-
jar/org/codehaus/plexus/components/io/filemappers/FileMapper.java
* /opt/cola/permits/1045557791_1684948190.4011142/0/plexus-io-3-0-1-sources-
jar/org/codehaus/plexus/components/io/resources/AbstractPlexusIoArchiveResourceCollection.java
* /opt/cola/permits/1045557791_1684948190.4011142/0/plexus-io-3-0-1-sources-
jar/org/codehaus/plexus/components/io/resources/AbstractPlexusIoResourceCollectionWithAttributes.java
* /opt/cola/permits/1045557791_1684948190.4011142/0/plexus-io-3-0-1-sources-
jar/org/codehaus/plexus/components/io/resources/AbstractPlexusIoResource.java
* /opt/cola/permits/1045557791_1684948190.4011142/0/plexus-io-3-0-1-sources-
jar/org/codehaus/plexus/components/io/resources/PlexusIoCompressedFileResourceCollection.java
* /opt/cola/permits/1045557791_1684948190.4011142/0/plexus-io-3-0-1-sources-
jar/org/codehaus/plexus/components/io/resources/PlexusIoURLResource.java
* /opt/cola/permits/1045557791_1684948190.4011142/0/plexus-io-3-0-1-sources-
jar/org/codehaus/plexus/components/io/filemappers/FlattenFileMapper.java
* /opt/cola/permits/1045557791_1684948190.4011142/0/plexus-io-3-0-1-sources-
jar/org/codehaus/plexus/components/io/resources/proxy/PlexusIoProxyResourceCollection.java
* /opt/cola/permits/1045557791_1684948190.4011142/0/plexus-io-3-0-1-sources-
jar/org/codehaus/plexus/components/io/filemappers/FileExtensionMapper.java
* /opt/cola/permits/1045557791_1684948190.4011142/0/plexus-io-3-0-1-sources-
jar/org/codehaus/plexus/components/io/attributes/PlexusIoResourceAttributes.java
* /opt/cola/permits/1045557791_1684948190.4011142/0/plexus-io-3-0-1-sources-
jar/org/codehaus/plexus/components/io/resources/PlexusIoFileResource.java
* /opt/cola/permits/1045557791_1684948190.4011142/0/plexus-io-3-0-1-sources-
jar/org/codehaus/plexus/components/io/fileselectors/FileSelector.java
* /opt/cola/permits/1045557791_1684948190.4011142/0/plexus-io-3-0-1-sources-
jar/org/codehaus/plexus/components/io/resources/AbstractPlexusIoResourceCollection.java
* /opt/cola/permits/1045557791_1684948190.4011142/0/plexus-io-3-0-1-sources-
jar/org/codehaus/plexus/components/io/resources/LinefeedMode.java
* /opt/cola/permits/1045557791_1684948190.4011142/0/plexus-io-3-0-1-sources-
jar/org/codehaus/plexus/components/io/filemappers/PrefixFileMapper.java
* /opt/cola/permits/1045557791_1684948190.4011142/0/plexus-io-3-0-1-sources-
jar/org/codehaus/plexus/components/io/resources/PlexusIoFileResourceCollection.java
* /opt/cola/permits/1045557791_1684948190.4011142/0/plexus-io-3-0-1-sources-

jar/org/codehaus/plexus/components/io/filemappers/IdentityMapper.java
* /opt/cola/permits/1045557791_1684948190.4011142/0/plexus-io-3-0-1-sources-
jar/org/codehaus/plexus/components/io/resources/PlexusIoResource.java
* /opt/cola/permits/1045557791_1684948190.4011142/0/plexus-io-3-0-1-sources-
jar/org/codehaus/plexus/components/io/filemappers/RegExpFileMapper.java
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jar/org/codehaus/plexus/components/io/functions/InputStreamTransformer.java  
* /opt/cola/permits/1045557791_1684948190.4011142/0/plexus-io-3-0-1-sources-  
jar/org/codehaus/plexus/components/io/functions/ContentSupplier.java  
* /opt/cola/permits/1045557791_1684948190.4011142/0/plexus-io-3-0-1-sources-  
jar/org/codehaus/plexus/components/io/attributes/SymlinkUtils.java  
* /opt/cola/permits/1045557791_1684948190.4011142/0/plexus-io-3-0-1-sources-  
jar/org/codehaus/plexus/components/io/functions/PlexusIoResourceConsumer.java  
* /opt/cola/permits/1045557791_1684948190.4011142/0/plexus-io-3-0-1-sources-  
jar/org/codehaus/plexus/components/io/functions/ResourceAttributeSupplier.java  
* /opt/cola/permits/1045557791_1684948190.4011142/0/plexus-io-3-0-1-sources-  
jar/org/codehaus/plexus/components/io/functions/SymlinkDestinationSupplier.java  
* /opt/cola/permits/1045557791_1684948190.4011142/0/plexus-io-3-0-1-sources-  
jar/org/codehaus/plexus/components/io/resources/Deferred.java  
* /opt/cola/permits/1045557791_1684948190.4011142/0/plexus-io-3-0-1-sources-  
jar/org/codehaus/plexus/components/io/resources/proxy/ForwardingIterator.java  
* /opt/cola/permits/1045557791_1684948190.4011142/0/plexus-io-3-0-1-sources-  
jar/org/codehaus/plexus/components/io/functions/SizeSupplier.java  
* /opt/cola/permits/1045557791_1684948190.4011142/0/plexus-io-3-0-1-sources-  
jar/org/codehaus/plexus/components/io/resources/Stream.java  
* /opt/cola/permits/1045557791_1684948190.4011142/0/plexus-io-3-0-1-sources-  
jar/org/codehaus/plexus/components/io/resources/EncodingSupported.java  
* /opt/cola/permits/1045557791_1684948190.4011142/0/plexus-io-3-0-1-sources-  
jar/org/codehaus/plexus/components/io/resources/proxy/ProxyFactory.java
```

* /opt/cola/permits/1045557791_1684948190.4011142/0/plexus-io-3-0-1-sources-jar/org/codehaus/plexus/components/io/resources/proxy/ResourceInvocationHandler.java
* /opt/cola/permits/1045557791_1684948190.4011142/0/plexus-io-3-0-1-sources-jar/org/codehaus/plexus/components/io/functions/NameSupplier.java
* /opt/cola/permits/1045557791_1684948190.4011142/0/plexus-io-3-0-1-sources-jar/org/codehaus/plexus/components/io/attributes/AttributeUtils.java
* /opt/cola/permits/1045557791_1684948190.4011142/0/plexus-io-3-0-1-sources-jar/org/codehaus/plexus/components/io/functions/FileSupplier.java

1.64 commons-compress 1.11

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1.65 org.seleniumhq.selenium:selenium-http 4.0.0-alpha-5

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- * /opt/cola/permits/1685982285_1684946823.939543/0/selenium-http-4-0-0-alpha-5-sources-jar/org/openqa/selenium/remote/http/HttpClient.java
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- * /opt/cola/permits/1685982285_1684946823.939543/0/selenium-http-4-0-0-alpha-5-sources-jar/org/openqa/selenium/remote/http/HttpRequest.java
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- * /opt/cola/permits/1685982285_1684946823.939543/0/selenium-http-4-0-0-alpha-5-sources-jar/org/openqa/selenium/remote/http/CloseMessage.java
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- * /opt/cola/permits/1685982285_1684946823.939543/0/selenium-http-4-0-0-alpha-5-sources-jar/org/openqa/selenium/remote/http/HttpHandler.java
- * /opt/cola/permits/1685982285_1684946823.939543/0/selenium-http-4-0-0-alpha-5-sources-jar/org/openqa/selenium/remote/http/Filter.java

1.66 xbean-reflect 3.4

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1.67 dnsjava 2.1.8

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1.69 angular-route 1.2.28

1.69.1 Available under license :

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```
/**
 * @license AngularJS v1.2.28
 * (c) 2010-2014 Google, Inc. http://angularjs.org
 * License: MIT
 */
```

Found in path(s):

```
* /opt/cola/permits/1685982241_1684869173.863246/0/angular-route-1-2-28-tgz/package/angular-route.js
```

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```
# packaged angular-route
```

This repo is for distribution on `npm` and `bower`. The source for this module is in the [main AngularJS repo](https://github.com/angular/angular.js/tree/master/src/ngRoute). Please file issues and pull requests against that repo.

```
## Install
```

You can install this package either with `npm` or with `bower`.

```
### npm
```

```
```shell
npm install angular-route
```
```

Add a ``<script>`` to your `index.html`:

```
```html
<script src="/node_modules/angular-route/angular-route.js"></script>
```
```

Then add `ngRoute` as a dependency for your app:

```
```javascript
angular.module('myApp', ['ngRoute']);
```
```

Note that this package is not in CommonJS format, so doing `require('angular-route')` will return `undefined`.

bower

```
```shell
bower install angular-route
```
```

Add a ``<script>`` to your `index.html`:

```
```html
<script src="/bower_components/angular-route/angular-route.js"></script>
```
```

Then add `ngRoute` as a dependency for your app:

```
```javascript
angular.module('myApp', ['ngRoute']);
```
```

Documentation

Documentation is available on the
[AngularJS docs site](<http://docs.angularjs.org/api/ngRoute>).

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/*

AngularJS v1.2.28

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License: MIT

*/

Found in path(s):

* /opt/cola/permits/1685982241_1684869173.863246/0/angular-route-1-2-28-tgz/package/angular-route.min.js

1.70 jackson-core 2.3.3

1.70.1 Available under license :

Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.

It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007.

It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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For more information, including possible other licensing options, contact FasterXML.com (<http://fasterxml.com>).

Credits

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1.71 littleproxy-mitm-module 2.1.5

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```
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 * WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
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 */
```

Found in path(s):

```
*/opt/cola/permits/1685982416_1684946345.226783/0/mitm-2-1-5-sources-
jar/net/lightbody/bmp/mitm/trustmanager/InsecureTrustManagerFactory.java
```

1.72 json-simple 1.1.1

1.72.1 Available under license :

Apache License

Version 2.0, January 2004

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1.73 asm 5.0.3

1.73.1 Available under license :

/**

* ASM: a very small and fast Java bytecode manipulation framework

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*/

1.74 findbugs-jformatstring 3.0.0

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```
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 * published by the Free Software Foundation. This
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 * 2 along with this work; if not, write to the Free Software Foundation,
 * Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.
 */
```

Found in path(s):

```
* /opt/cola/permits/1004914179_1684884157.4281244/0/jformatstring-3-0-0-
jar/edu/umd/cs/findbugs/formatStringChecker/FormatterNumberFormatException.java
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```

```
/*
 * Copyright 2003-2007 Sun Microsystems, Inc. All Rights Reserved.
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 *
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 * under the terms of the GNU General Public License version 2 only, as
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 *
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 * version 2 for more details (a copy is included in the LICENSE file that
 * accompanied this code).
 */
```

```
* You should have received a copy of the GNU General Public License version
* 2 along with this work; if not, write to the Free Software Foundation,
* Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.
*
* Please contact Sun Microsystems, Inc., 4150 Network Circle, Santa Clara,
* CA 95054 USA or visit www.sun.com if you need additional information or
* have any questions.
*/
/* This file has been extensively modified from the original Sun implementation
* to provide for compile time checking of Format Strings.
*
* These modifications were performed by Bill Pugh, this code is free software.
*
*/
```

Found in path(s):

```
* /opt/cola/permits/1004914179_1684884157.4281244/0/jformatstring-3-0-0-
jar/edu/umd/cs/findbugs/formatStringChecker/Conversion.java
* /opt/cola/permits/1004914179_1684884157.4281244/0/jformatstring-3-0-0-
jar/edu/umd/cs/findbugs/formatStringChecker/DateTime.java
* /opt/cola/permits/1004914179_1684884157.4281244/0/jformatstring-3-0-0-
jar/edu/umd/cs/findbugs/formatStringChecker/FormatSpecifier.java
* /opt/cola/permits/1004914179_1684884157.4281244/0/jformatstring-3-0-0-
jar/edu/umd/cs/findbugs/formatStringChecker/ExtraFormatArgumentsException.java
* /opt/cola/permits/1004914179_1684884157.4281244/0/jformatstring-3-0-0-
jar/edu/umd/cs/findbugs/formatStringChecker/Flags.java
* /opt/cola/permits/1004914179_1684884157.4281244/0/jformatstring-3-0-0-
jar/edu/umd/cs/findbugs/formatStringChecker/Formatter.java
* /opt/cola/permits/1004914179_1684884157.4281244/0/jformatstring-3-0-0-
jar/edu/umd/cs/findbugs/formatStringChecker/FormatterException.java
* /opt/cola/permits/1004914179_1684884157.4281244/0/jformatstring-3-0-0-
jar/edu/umd/cs/findbugs/formatStringChecker/IllegalFormatConversionException.java
* /opt/cola/permits/1004914179_1684884157.4281244/0/jformatstring-3-0-0-
jar/edu/umd/cs/findbugs/formatStringChecker/MissingFormatArgumentException.java
```

1.75 totvs-gps-rpw 0.0.1

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```

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* /opt/cola/permits/1685982541_1684869380.3505192/0/totvs-gps-rpw-0-0-1-tgz/package/dist/polyfills.bundle.js

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```
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```

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AACa,qBAaQB,EAAE;AACvB;AA
CA;AACa,YAAY;AACZ;AACa;AACa;AACa;AACa;AACa;AACa,mBAAmB,EAAE;AACrB;AACa;AACa,
mBAAmB,EAAE;AACrB;AACa;AACa;AACa;AACa,uBAaUB,EAAE;AACzB;AACa;AACa;AACa;AACa;
AACa;AACa;AACa,WAAW,EAAE;AACb,YAAY;AACZ;AACa;AACa,mBAAmB,EAAE;AACrB,0CAA0C,g
BAaGB;AAC1D;AACa;AACa;AACa;AACa;AACa;AACa,WAAW,KAaK;AAChB,YAAY;AACZ;AACa;A
ACA;AACa,oBAaOB,uBAaUB;AAC3C;AACa;AACa,mBAAmB,EAAE;AACrB,mCAAmC,oBAaOB;AACvD;
AACa,4BAA4B,EAAE;AAC9B;AACa;AACa;AACa;AACa;AACa;AACa;AACa;AACa;AACa;AACa;AACa;AA
CA;AACa;AACa;AACa;AACa;AACa;AACa;AACa;AACa;AACa;AACa;AACa;AACa;AACa;AACa;AACa;AA
CA;AACa;AACa;AACa;AACa;AACa;AACa;AACa;AACa;AACa;AACa;AACa;AACa;AACa;AACa;AACa;AA
CA;AACa;AACa;AACa;AACa;AACa;AACa;AACa;AACa;AACa;AACa;AACa;AACa;AACa;AACa;AACa;AA
CA;AACa;AACa;AACa;AACa;AACa;AACa;AACa;AACa;AACa;AACa;AACa,eAAe,EAAE;AACjB,gBA
AgB;AAChB;AACa;AACa,eAAe,EAAE;AACjB,gBAaGB;AAChB;AACa;AACa;AACa;AACa;AACa,uBAa
uB,EAAE,yBAaYB,EAAE;AACpD;AACa;AACa,6CAA6C,EAAE;AAC/C;AACa;AACa,sCAAsC,EAAE;AAC
xC;AACa;AACa;AACa;AACa;AACa;AACa,qCAaQc,EAAE;AACvC;AACa;AACa;AACa;AACa;AACa,+
CAA+C,EAAE;AACjD;AACa,+BAA+B,EAAE,qDAAqD,EAAE;AACxF;AACa;AACa;AACa;AACa,oEAAoE
,EAAE;AACTe;AACa;AACa;AACa;AACa;AACa,eAAe,EAAE;AACjB,gBAaGB;AAChB;AACa;AACa,eAA
e,EAAE;AACjB,gBAaGB;AAChB;AACa;AACa;AACa,uBAaUB,EAAE;AACzB;AACa;AACa;AACa;AACa;
AACa;AACa;AACa,2BAA2B,EAAE;AAC7B;AACa;AACa;AACa;AACa;AACa;AACa;AACa;AACa;AACa;AA
CA;AACa;AACa;AACa;AACa;AACa,SAAS;AACT;AACa;AACa;AACa,eAAe,EAAE;AACjB,gBAaGB;AA
ChB;AACa;AACa,eAAe,EAAE;AACjB,gBAaGB;AAChB;AACa;AACa,uBAaUB,EAAE;AACzB;AACa;AAC
A;AACa;AACa;AACa;AACa;AACa,eAAe,EAAE;AACjB,gBAaGB;AAChB;AACa;AACa,eAAe,EAAE;AA
CjB,gBAaGB;AAChB;AACa,sBAAsB,sCAAsC;AAC5D;AACa,CAAC;AACD;AACa,WAAW,EAAE;AACb,W
AAW,EAAE;AACb,YAAY;AACZ;AACa;AACa;AACa;AACa;AACa;AACa;AACa;AACa;AACa;AACa;AACa;A
ACA;AACa;AACa;AACa;AACa,WAAW,EAAE;AACb,YAAY;AACZ;AACa;AACa,qCAaQc;AACrC;AAC
A,uBAaUB,EAAE;AACzB,uBAaUB,EAAE;AACzB,+EAA+E;AAC/E,KAaK;AACL,4DAA4D,uCAaUC,EAAE,
EAAE;AACvG,4BAA4B;AAC5B,4BAA4B;AAC5B;AACa;AACa;AACa;AACa;AACa;AACa;AACa;AACa,WAA
W,EAAE;AACb,YAAY;AACZ;AACa;AACa;AACa;AACa;AACa;AACa,KAaK;AACL,mDAAmD,gBAaGB;
AACnE;AACa;AACa,0CAA0C,EAAE;AAC5C;AACa;AACa;AACa;AACa;AACa,WAAW,EAAE;AACb,W
AAW,EAAE;AACb,YAAY;AACZ;AACa;AACa;AACa,uBAaUB,EAAE;AACzB;AACa,uBAaUB,EAAE;AAC
zB;AACa;AACa,uBAaUB,EAAE;AACzB,uBAaUB,EAAE;AACzB;AACa;AACa;AACa;AACa;AACa;AAC
A;AACa;AACa;AACa;AACa;AACa;AACa,SAAS;AACT,uBAaUB,EAAE;AACzB,uBAaUB,EAAE;AACzB;
AACa,uBAaUB,EAAE;AACzB,6DAA6D,gBAaGB;AAC7E;AACa;AACa;AACa,YAAY,yEAAS;AACrB;AAC
A;AACa;AACa;AACa,sBAAsB,EAAE;AACxB;AACa;AACa;AACa;AACa;;AAEA;AACa;AACa,cAAc,W


```

sumObserver = {
  * sum: 0,
  * next(value) {
    * console.log('Adding: ' + value);
    * this.sum = this.sum + value;
    * },
  * error() { // We actually could just remove this method,
    * }, // since we do not really care about errors right now.
  * complete() {
    * console.log('Sum equals: ' + this.sum);
    * }
};

Rx.Observable.of(1, 2, 3) // Synchronously emits 1, 2, 3 and then completes.
.subscribe(sumObserver);
// Logs:
// "Adding: 1"
// "Adding: 2"
// "Adding: 3"
// "Sum equals: 6"
@example <caption>Subscribe with functions</caption>
let sum = 0;
Rx.Observable.of(1, 2, 3)
.subscribe(function(value) {
  console.log('Adding: ' + value);
  sum = sum + value;
},
undefined,
function() {
  console.log('Sum equals: ' + sum);
});
// Logs:
// "Adding: 1"
// "Adding: 2"
// "Adding: 3"
// "Sum equals: 6"
@example <caption>Cancel a subscription</caption>
const subscription = Rx.Observable.interval(1000).subscribe(
  num => console.log(num),
  undefined,
  () => console.log('completed!') // Will not be called, even
); // when cancelling subscription
setTimeout(() => {
  subscription.unsubscribe();
  console.log('unsubscribed!');
}, 2500);
// Logs:
// 0 after 1s
// 1 after 2s
// "unsubscribed!" after 2.5s
@param {Observer|Function} observerOrNext (optional) Either an observer with methods to be called,
or the first of three possible handlers, which is the handler for each value emitted from the subscribed
Observable.
@param {Function} error (optional) A handler for a terminal event resulting from an error. If no error handler is provided,
the error will be thrown as unhandled.
@param {Function} complete (optional) A handler for a terminal event resulting from successful completion.
@return {ISubscription} a subscription reference to the registered handlers
Observable.prototype.subscribe = function (observerOrNext, error, complete) {
  var operator = this.operator;
  var sink = toSubscriber(observerOrNext, error, complete);
  if (operator) {
    operator.call(sink, this.source);
  } else {
    sink.add(this.source || !sink.syncErrorThrowable ? this._subscribe(sink) : this._trySubscribe(sink));
  }
  if (sink.syncErrorThrowable) {
    sink.syncErrorThrowable = false;
    if (sink.syncErrorThrown) {
      throw sink.syncErrorValue;
    }
    return sink;
  }
  Observable.prototype._trySubscribe = function (sink) {
    try {
      return this._subscribe(sink);
    } catch (err) {
      sink.syncErrorThrown = true;
      sink.syncErrorValue = err;
      sink.error(err);
    }
  };
  /**
   * @method forEach
   * @param {Function} next a handler for each value emitted by the observable
   * @param {PromiseConstructor} [PromiseCtor] a constructor function used to instantiate the Promise
   * @return {Promise} a promise that either resolves on observable completion or
   * rejects with the handled error
   */
  Observable.prototype.forEach = function (next, PromiseCtor) {
    var _this = this;
    if (!PromiseCtor) {
      if (root.Rx && root.Rx.config && root.Rx.config.Promise) {
        PromiseCtor = root.Rx.config.Promise;
      } else if (root.Promise) {
        PromiseCtor = root.Promise;
      }
    }
    if (!PromiseCtor) {
      throw new Error('no Promise impl found');
    }
    return new PromiseCtor(function (resolve, reject) {
      // Must be declared in a separate statement to avoid a ReferenceError when
      // accessing subscription below in the closure due to Temporal Dead Zone.
      var subscription;
      subscription = _this.subscribe(function (value) {
        if (subscription) {
          // if there is a subscription, then we can surmise
          // the next handling is asynchronous. Any errors thrown
          // need to be rejected explicitly and unsubscribe must be
          // called manually
          try {
            next(value);
          } catch (err) {
            reject(err);
          }
          subscription.unsubscribe();
        } else {
          // if there is NO subscription, then we're getting a nexted
          // value synchronously during subscription. We can just call it.
          // If it errors, Observable's `subscribe` will ensure the
          // unsubscribe logic is called, then synchronously rethrow the error.
          // After that, Promise will trap the error and send it
          // down the rejection path.
          next(value);
        }
      }, reject, resolve);
    });
  };
  /**
   * @deprecated internal use only */
  Observable.prototype._subscribe = function (subscriber) {
    return this.source.subscribe(subscriber);
  };
  /**
   * An interop point defined by the es7-observable spec
   https://github.com/zenparsing/es-observable
   * @method Symbol.observable
   * @return {Observable} this

```



```

value. The Observable may call this method 0 or more
 * times.
 * @param {T} [value] The `next` value.
 * @return {void}
 */
Subscriber.prototype.next = function (value) {
  if (!this.isStopped) {
    this._next(value);
  }
};
/**
 * The {@link Observer} callback to receive notifications of type `error`
from the Observable, with an attached {@link Error}. Notifies the Observer that
 * the Observable has experienced an error condition.
 * @param {any} [err] The `error` exception.
 * @return {void}
 */
Subscriber.prototype.error = function (err) {
  if (!this.isStopped) {
    this.isStopped = true;
    this._error(err);
  }
};
/**
 * The {@link Observer} callback to receive a valueless notification of
type `complete` from the Observable. Notifies the Observer that the Observable
 * has finished sending push-based notifications.
 * @return {void}
 */
Subscriber.prototype.complete = function () {
  if (!this.isStopped) {
    this.isStopped = true;
    this._complete();
  }
};
Subscriber.prototype.unsubscribe = function () {
  if (this.closed) {
    return;
  }
  this.isStopped = true;
  _super.prototype.unsubscribe.call(this);
};
Subscriber.prototype._next = function (value) {
  this.destination.next(value);
};
Subscriber.prototype._error = function (err) {
  this.destination.error(err);
  this.unsubscribe();
};
Subscriber.prototype._complete = function () {
  this.destination.complete();
  this.unsubscribe();
};
/** @deprecated internal use only */
Subscriber.prototype._unsubscribeAndRecycle = function () {
  var _a = this, _parent = _a._parent, _parents =
_a._parents;
  this._parent = null;
  this._parents = null;
  this.unsubscribe();
  this.closed =
false;
  this.isStopped = false;
  this._parent = _parent;
  this._parents = _parents;
  return this;
};
return Subscriber;
})(Subscription);
/**
 * We need this JSDoc comment for affecting ESDoc.
 * @ignore
 * @extends {Ignored}
 */
var SafeSubscriber = /*@__PURE__*/ (/*@__PURE__*/ function (_super) {
  __extends(SafeSubscriber, _super);
  function SafeSubscriber(_parentSubscriber, observerOrNext, error,
complete) {
    _super.call(this);
    this._parentSubscriber = _parentSubscriber;
    var next;
    var
context = this;
    if (isFunction(observerOrNext)) {
      next = observerOrNext;
    }
    else if
(observerOrNext) {
      next = observerOrNext.next;
      error = observerOrNext.error;
      complete
= observerOrNext.complete;
      if (observerOrNext !== emptyObserver) {
        context =
Object.create(observerOrNext);
        if (isFunction(context.unsubscribe)) {
          this.add(context.unsubscribe.bind(context));
        }
        context.unsubscribe =
this.unsubscribe.bind(this);
      }
    }
    this._context = context;
    this._next = next;
    this._error = error;
    this._complete = complete;
  }
  SafeSubscriber.prototype.next = function (value) {
    if (!this.isStopped && this._next) {
      var _parentSubscriber = this._parentSubscriber;
      if
(!_parentSubscriber.syncErrorThrowable) {
        this.__tryOrUnsub(this._next, value);
      }
      else if (this.__tryOrSetError(_parentSubscriber, this._next, value)) {
        this.unsubscribe();
      }
    }
  };
  SafeSubscriber.prototype.error = function (err) {
    if (!this.isStopped) {
      var
_parentSubscriber = this._parentSubscriber;
      if (this._error) {
        if
(!_parentSubscriber.syncErrorThrowable) {
          this.__tryOrUnsub(this._error, err);
        }
        this.unsubscribe();
      }
      else {
        this.__tryOrSetError(_parentSubscriber, this._error,
err);
        this.unsubscribe();
      }
    }
    else if
(!_parentSubscriber.syncErrorThrowable) {
      this.unsubscribe();
      throw err;
    }
  }
  else {
    _parentSubscriber.syncErrorValue = err;
    _parentSubscriber.syncErrorThrown = true;
    this.unsubscribe();
  }
};
  SafeSubscriber.prototype.complete = function () {
    var
_this = this;
    if (!this.isStopped) {
      var _parentSubscriber = this._parentSubscriber;
      if
(this._complete) {
        var wrappedComplete = function () {
          return _this._complete.call(_this._context);
        };
        if (!_parentSubscriber.syncErrorThrowable) {
          this.__tryOrUnsub(wrappedComplete);
        }
        this.unsubscribe();
      }
      else {
        this.__tryOrSetError(_parentSubscriber,
wrappedComplete);
        this.unsubscribe();
      }
    }
    else {
      this.unsubscribe();
    }
  };
  SafeSubscriber.prototype.__tryOrUnsub = function (fn, value) {
    try {
      fn.call(this._context, value);
    }
    catch (err) {
      this.unsubscribe();
      throw
err;
    }
  };
  SafeSubscriber.prototype.__tryOrSetError = function (parent, fn, value) {
    try {

```



```

= b.prototype, new __());\n};\nimport { SubjectSubscriber } from './Subject';\nimport { Observable } from
 './Observable';\nimport { Subscriber } from './Subscriber';\nimport { Subscription } from './Subscription';\nimport
 { refCount as higherOrderRefCount } from './operators/refCount';\n/**\n * @class ConnectableObservable<T>\n
 *^\nexport var ConnectableObservable = /*@__PURE__*/ (/*@__PURE__*/ function (_super) {\n
__extends(ConnectableObservable, _super);\n  function ConnectableObservable(** @deprecated internal use only
*/ source, \n /** @deprecated internal use only */ subjectFactory) {\n    _super.call(this);\n    this.source =
source;\n    this.subjectFactory = subjectFactory;\n    /** @deprecated internal use only */ this._refCount = 0;\n
    this._isComplete = false;\n  }\n  /** @deprecated internal use only */
ConnectableObservable.prototype._subscribe = function (subscriber) {\n    return
this.getSubject().subscribe(subscriber);\n  }; \n  /** @deprecated internal use only */
ConnectableObservable.prototype.getSubject = function () {\n    var subject = this._subject;\n    if (!subject ||
subject.isStopped) {\n      this._subject = this.subjectFactory();\n    }\n    return this._subject;\n  }; \n
ConnectableObservable.prototype.connect = function () {\n    var connection = this._connection;\n    if
(!connection) {\n      this._isComplete = false;\n      connection = this._connection = new Subscription();\n
      connection.add(this.source\n        .subscribe(new ConnectableSubscriber(this.getSubject(), this)));\n
if (connection.closed) {\n        this._connection = null;\n        connection = Subscription.EMPTY;\n
      }\n      else {\n        this._connection = connection;\n      }\n    }\n    return connection;\n  }; \n
ConnectableObservable.prototype.refCount = function () {\n    return higherOrderRefCount()(this);\n  }; \n
return ConnectableObservable;\n})(Observable);\nvar connectableProto =
ConnectableObservable.prototype;\nexport var connectableObservableDescriptor = {\n  operator: { value: null },\n
  _refCount: { value: 0, writable: true },\n  _subject: { value: null, writable: true },\n  _connection: { value: null,
writable: true },\n  _subscribe: { value: connectableProto._subscribe },\n  _isComplete: { value:
connectableProto._isComplete, writable: true },\n  getSubject: { value: connectableProto.getSubject },\n  connect:
{ value: connectableProto.connect },\n  refCount: { value: connectableProto.refCount }\n};\nvar
ConnectableSubscriber = /*@__PURE__*/ (/*@__PURE__*/ function (_super) {\n
__extends(ConnectableSubscriber, _super);\n  function ConnectableSubscriber(destination, connectable) {\n
    _super.call(this, destination);\n    this.connectable = connectable;\n  }\n
ConnectableSubscriber.prototype._error = function (err) {\n    this._unsubscribe();\n
    _super.prototype._error.call(this, err);\n  }; \n  ConnectableSubscriber.prototype._complete = function () {\n
    this.connectable._isComplete = true;\n    this._unsubscribe();\n    _super.prototype._complete.call(this);\n
  }; \n  /** @deprecated internal use only */ ConnectableSubscriber.prototype._unsubscribe = function () {\n
    var connectable = this.connectable;\n    if (connectable) {\n      this.connectable = null;\n      var connection =
connectable._connection;\n      connectable._refCount = 0;\n      connectable._subject = null;\n
connectable._connection = null;\n      if (connection) {\n        connection.unsubscribe();\n      }\n    }\n
  }; \n  return ConnectableSubscriber;\n})(SubjectSubscriber);\nvar RefCountOperator = /*@__PURE__*/
(/*@__PURE__*/ function () {\n  function RefCountOperator(connectable) {\n    this.connectable =
connectable;\n  }\n  RefCountOperator.prototype.call = function (subscriber, source) {\n    var connectable =
this.connectable;\n    connectable._refCount++;\n    var refCounter = new RefCountSubscriber(subscriber,
connectable);\n    var subscription = source.subscribe(refCounter);\n    if (!refCounter.closed) {\n
refCounter.connection = connectable.connect();\n    }\n    return subscription;\n  }; \n  return
RefCountOperator;\n})();\nvar RefCountSubscriber = /*@__PURE__*/ (/*@__PURE__*/ function (_super) {\n
__extends(RefCountSubscriber, _super);\n  function RefCountSubscriber(destination, connectable) {\n
    _super.call(this, destination);\n    this.connectable = connectable;\n  }\n  /** @deprecated internal use only */
RefCountSubscriber.prototype._unsubscribe = function () {\n    var connectable = this.connectable;\n    if
(!connectable) {\n      this.connection = null;\n      return;\n    }\n    this.connectable = null;\n    var
refCount = connectable._refCount;\n    if (refCount <= 0) {\n      this.connection = null;\n      return;\n
    }\n    connectable._refCount = refCount - 1;\n    if (refCount > 1) {\n      this.connection = null;\n
    }\n    return;\n  }\n  //\n  // Compare the local RefCountSubscriber's connection Subscription to the\n  //

```


projection to each value and emits that projection in the output

```

 * Observable
 * @example <caption>Map every click to the clientX position of that click
 * var clicks = Rx.Observable.fromEvent(document, 'click');
 * var positions = clicks.map(ev => ev.clientX);
 * positions.subscribe(x => console.log(x));
 * @see { @link mapTo }
 * @see { @link pluck }
 * @param {function(value: T, index: number): R} project The function to apply
 * to each `value` emitted by the source Observable. The `index` parameter is the number `i` for the i-th emission that has happened since the subscription, starting from the number `0`
 * @param {any} [thisArg] An optional argument to define what `this` is in the `project` function
 * @return {Observable<R>} An Observable that emits the values from the source
 * Observable transformed by the given `project` function
 * @method map
 * @owner Observable
 */
export function map(project, thisArg) {
  return
  higherOrderMap(project, thisArg)(this);
}
// sourceMappingURL=map.js.map

```

WEBPACK FOOTER C:/V11-THF2/totvs-hgp/totvs-thf2-components/totvs-gps-rpw/node_modules/rxjs/_esm5/operator/map.js module id = ../../../../rxjs/_esm5/operator/map.js module chunks = vendor", /* PURE_IMPORTS_START ..operators_share PURE_IMPORTS_END */ import { share as higherOrder } from '../operators/share';

```

 * Returns a new Observable that multicasts (shares) the original Observable. As long as there is at least one
 * Subscriber this Observable will be subscribed and emitting data. When all subscribers have unsubscribed it will
 * unsubscribe from the source Observable. Because the Observable is multicasting it makes the stream `hot`
 * This behaves similarly to .publish().refCount(), with a behavior difference when the source observable emits complete.
 * .publish().refCount() will not resubscribe to the original source, however .share() will resubscribe to the original source
 * Observable.of("test").publish().refCount() will not re-emit "test" on new subscriptions, Observable.of("test").share() will
 * re-emit "test" to new subscriptions
 * 
 * @return {Observable<T>} An Observable that upon connection causes the source Observable to emit items to its Observers
 * @method share
 * @owner Observable
 */
export function share() {
  return higherOrder()(this);
}
// sourceMappingURL=share.js.map

```

WEBPACK FOOTER C:/V11-THF2/totvs-hgp/totvs-thf2-components/totvs-gps-rpw/node_modules/rxjs/_esm5/operator/share.js module id = ../../../../rxjs/_esm5/operator/share.js module chunks = vendor", /* PURE_IMPORTS_START ..operators_take PURE_IMPORTS_END */ import { take as higherOrder } from '../operators/take';

```

 * Emits only the first `count` values emitted by the source Observable
 * <span class="informal">Takes the first `count` values from the source, then
 * completes.</span>
 * 
 * `take` returns an Observable that emits only the first `count` values emitted by the source Observable. If the source emits fewer than `count` values then
 * all of its values are emitted. After that, it completes, regardless if the
 * source completes
 * @example <caption>Take the first 5 seconds of an infinite 1-second interval
 * Observable
 * var interval = Rx.Observable.interval(1000);
 * var five = interval.take(5);
 * five.subscribe(x => console.log(x));
 * @see { @link takeLast }
 * @see { @link takeUntil }
 * @see { @link takeWhile }
 * @see { @link skip }
 * @throws {ArgumentOutOfRangeException} When using `take(i)`, it delivers an
 * ArgumentOutOfRangeException to the Observer's `error` callback if `i < 0`
 * @param {number} count The maximum number of `next` values to emit
 * @return {Observable<T>} An Observable that emits only the first `count`
 * values emitted by the source Observable, or all of the values from the source
 * if the source emits fewer than `count` values
 * @method take
 * @owner Observable
 */
export function take(count) {
  return
  higherOrder(count)(this);
}
// sourceMappingURL=take.js.map

```

WEBPACK FOOTER C:/V11-THF2/totvs-hgp/totvs-thf2-components/totvs-gps-rpw/node_modules/rxjs/_esm5/operator/take.js module id = ../../../../rxjs/_esm5/operator/take.js module chunks = vendor", /* PURE_IMPORTS_START ..OuterSubscriber,..util_subscribeToResult PURE_IMPORTS_END */ nvar __extends = (this && this.__extends) || function (d, b) {
 for (var p in b)
 if (b.hasOwnProperty(p))
 d[p] = b[p];
 function __() { this.constructor = d; }
 d.prototype = b === null ? Object.create(b) : (__.prototype = b.prototype, new __());
}; import { OuterSubscriber } from '../OuterSubscriber'; import { subscribeToResult } from '../util/subscribeToResult';

```

 * Catches errors on the observable to be handled by returning a new observable or throwing an error
 * <img src="/img/catch.png"

```



```

function __awaiter(thisArg, _arguments, P, generator) {
  return new (P || (P = Promise))(function (resolve, reject) {
    function fulfilled(value) { try { step(generator.next(value)); } catch (e) { reject(e); } }
    function rejected(value) { try { step(generator["throw"](value)); } catch (e) { reject(e); } }
    function step(result) { result.done ? resolve(result.value) : new P(function (resolve) { resolve(result.value); }).then(fulfilled, rejected); }
    step((generator = generator.apply(thisArg, _arguments || [])).next());
  });
}

function __generator(thisArg, body) {
  var _ = { label: 0, sent: function() { if (t[0] & 1) throw t[1]; return t[1]; }, trys: [], ops: [] }, f, y, t, g;
  return g = { next: verb(0), "throw": verb(1), "return": verb(2) }, typeof Symbol === "function" && (g[Symbol.iterator] = function() { return this; }), g;
  function verb(n) { return function (v) { return step([n, v]); }; }
  function step(op) {
    if (f) throw new TypeError("Generator is already executing.");
    while (_) try {
      if (f = 1, y && (t = op[0] & 2 ? y["return"] : op[0] ? y["throw"] || ((t = y["return"]) && t.call(y, 0) : y.next) && !(t = t.call(y, op[1])).done) return t;
      if (y = 0, t) op = [op[0] & 2, t.value];
      switch (op[0]) {
        case 0: case 1: t = op; break;
        case 4: _label++; return { value: op[1], done: false };
        case 5: _label++; y = op[1]; op = [0]; continue;
        case 7: op = _ops.pop(); _trys.pop(); continue;
        default:
          if (!(t = _trys, t = t.length > 0 && t[t.length - 1]) && (op[0] === 6 || op[0] === 2)) { _ = 0; continue; }
          if (op[0] === 3 && (!t || (op[1] > t[0] && op[1] < t[3]))) { _label = op[1]; break; }
          if (op[0] === 6 && _label < t[1]) { _label = t[1]; t = op; break; }
          if (t && _label < t[2]) { _label = t[2]; _ops.push(op); break; }
          if (t[2]) _ops.pop(); _trys.pop(); continue;
          op = body.call(thisArg, _);
        }
      } catch (e) { op = [6, e]; y = 0; } finally { f = t = 0; }
      if (op[0] & 5) throw op[1]; return { value: op[0] ? op[1] : void 0, done: true };
    }
  }
}

function __exportStar(m, exports) {
  for (var p in m) if (!exports.hasOwnProperty(p)) exports[p] = m[p];
}

function __values(o) {
  var m = typeof Symbol === "function" && o[Symbol.iterator], i = 0;
  if (m) return m.call(o);
  return {
    next: function () {
      if (o && i >= o.length) o = void 0;
      return { value: o && o[i++], done: !o };
    }
  };
}

function __read(o, n) {
  var m = typeof Symbol === "function" && o[Symbol.iterator];
  if (!m) return o;
  var i = m.call(o), r, ar = [], e;
  try {
    while ((n === void 0 || n-- > 0) && !(r = i.next()).done) ar.push(r.value);
  } catch (error) { e = { error: error }; }
  finally {
    try {
      if (r && !r.done && (m = i["return"])) m.call(i);
    } finally {
      if (e) throw e.error;
    }
  }
  return ar;
}

function __spread() {
  for (var ar = [], i = 0; i < arguments.length; i++)
    ar = ar.concat(__read(arguments[i]));
  return ar;
}

function __await(v) {
  return this instanceof __await ? (this.v = v, this) : new __await(v);
}

function __asyncGenerator(thisArg, _arguments, generator) {
  if (!Symbol.asyncIterator) throw new TypeError("Symbol.asyncIterator is not defined.");
  var g = generator.apply(thisArg, _arguments || []), i, q = [];
  return i = {
    next: function () {
      return g["next"]();
    },
    throw: function (e) {
      return g["throw"](e);
    },
    return: function (v) {
      return g["return"](v);
    }
  }, i[Symbol.asyncIterator] = function () { return this; };
}

function __asyncDelegator(o) {
  var i, p;
  return i = {
    next: function () {
      return o["next"]();
    },
    throw: function (e) {
      throw e;
    },
    return: function (v) {
      return o["return"](v);
    }
  }, i[Symbol.iterator] = function () { return this; };
}

function __asyncValues(o) {
  if (!Symbol.asyncIterator) throw new TypeError("Symbol.asyncIterator is not defined.");
  var m = o[Symbol.asyncIterator], i;
  return m ? m.call(o) : (o = typeof __values === "function" ? __values(o) : o[Symbol.iterator](), i = {}, verb("next"), verb("throw"), verb("return"), i[Symbol.asyncIterator] = function () { return this; }, i);
}

function __makeTemplateObject(cooked, raw) {
  if (Object.defineProperty) {

```


preserved when generating and recognizing URLs.

```

### Example
`typescript`
import {Component, NgModule} from '@angular/core';
import {APP_BASE_HREF} from '@angular/common';
@NgModule({
  providers: [{provide: APP_BASE_HREF, useValue: '/my/app'}]
})
class AppModule {}

`stable`
^nvar APP_BASE_HREF = new InjectionToken('appBaseHref');
^n`fileoverview added by tsickle`
^n`@suppress {checkTypes} checked by tsc`
^n`@license`
^nCopyright Google Inc. All Rights Reserved.
^nUse of this source code is governed by an MIT-style license that can be found in the LICENSE file at https://angular.io/license
^n`@experimental`
^n`@record`
^n`@whatItDoes`
`Location` is a service that applications can use to interact with a browser's URL.
^n`@description`
Depending on which `@link LocationStrategy` is used, `Location` will either persist to the URL's path or the URL's hash segment.
^nNote: it's better to use `@link Router#navigate` service to trigger route changes. Use `Location` only if you need to interact with or create normalized URLs outside of routing.
^n`Location` is responsible for normalizing the URL against the application's base href.
^nA normalized URL is absolute from the URL host, includes the application's base href, and has no trailing slash:
^n`~/my/app/user/123` is normalized
^n`~/my/app/user/123` is not normalized
^n`~/my/app/user/123` is not normalized
### Example
`@example`
common/location/ts/path_location_component.ts
region='LocationComponent'
`stable`
^nvar Location =
/** @class */ (function () {
  function Location(platformStrategy) {
    var _this = this;
    /**
     *
     * @internal
     *
     * ^n this._subject = new EventEmitter();
     * this._platformStrategy = platformStrategy;
     *
     * var /** @type {?} */ browserBaseHref = this._platformStrategy.getBaseHref();
     * this._baseHref = Location.stripTrailingSlash(_stripIndexHtml(browserBaseHref));
     * this._platformStrategy.onPopState(function (ev) {
     *   _this._subject.emit({
     *     'url': _this.path(true),
     *     'pop': true,
     *     'type': ev.type,
     *   });
     * });
     * });
     * }
     * Returns the normalized URL path.
     * ^n // TODO: vsavkin. Remove the boolean flag and always include hash once the deprecated router is removed.
     * Returns the normalized URL path.
     * @param {=?} includeHash
     * @return {?}
     * ^n Location.prototype.path =
     * Returns the normalized URL path.
     * @param {=?} includeHash
     * @return {?}
     * ^n function (includeHash) {
     *   if (includeHash === void 0) { includeHash = false; }
     *   return this.normalize(this._platformStrategy.path(includeHash));
     * };
     * Returns the normalized URL path and compares to the current normalized path.
     * ^n Returns the normalized URL path and compares to the current normalized path.
     * @param {?} path
     * @param {=?} query
     * @return {?}
     * ^n Location.prototype.isCurrentPathEqualTo =
     * Returns the normalized URL path and compares to the current normalized path.
     * @param {?} path
     * @param {=?} query
     * @return {?}
     * ^n function (path, query) {
     *   if (query === void 0) { query = ""; }
     *   return this.path() == this.normalize(path + Location.normalizeQueryParams(query));
     * };
     * Given a string representing a URL, returns the normalized URL path without leading or trailing slashes.
     * ^n Returns the normalized URL path without leading or trailing slashes.
     * @param {?} url
     * @return {?}
     * ^n Location.prototype.normalize =
     * Given a string representing a URL, returns the normalized URL path without leading or trailing slashes.
     * @param {?} url
     * @return {?}
     * ^n function (url) {
     *   return Location.stripTrailingSlash(_stripBaseHref(this._baseHref, _stripIndexHtml(url)));
     * };
     * Given a string representing a URL, returns the platform-specific external URL path.
     * If the given URL doesn't begin with a leading slash ('/'), this method adds one before normalizing. This method will also add a hash if `HashLocationStrategy` is used, or the `APP_BASE_HREF` if the `PathLocationStrategy` is in use.
     * Returns the platform-specific external URL path.
     * If the given URL doesn't begin with a leading slash ('/'), this method adds one before normalizing. This method will also add a hash if `HashLocationStrategy` is used, or the `APP_BASE_HREF` if the `PathLocationStrategy` is in use.
     * @param {?} url
     * @return {?}
     * ^n Location.prototype.prepareExternalUrl =
     * Given a string representing a URL, returns the platform-specific external URL path.
     * If the given URL doesn't begin with a leading slash ('/'), this method adds one before normalizing. This method will also add a hash if `HashLocationStrategy` is used, or the

```

```

`APP_BASE_HREF` if the `PathLocationStrategy` is in use.\n * @param {?} url\n * @return {?}\n *\nfunction (url) {\n  if (url && url[0] !== '/') {\n    url = '/' + url;\n  }\n  return\n  this._platformStrategy.prepareExternalUrl(url);\n};\n // TODO: rename this method to pushState\n /**\n * Changes the browsers URL to the normalized version of the given URL, and pushes a\n * new item onto the platform's history.\n *\n /**\n * Changes the browsers URL to the normalized version of the given URL, and\n pushes a\n * new item onto the platform's history.\n * @param {?} path\n * @param {?=} query\n * @return {?}\n *\n Location.prototype.go = /**\n * Changes the browsers URL to the normalized version of\n the given URL, and pushes a\n * new item onto the platform's history.\n * @param {?} path\n * @param\n {?=} query\n * @return {?}\n *\n function (path, query) {\n  if (query === void 0) { query = ""; }\n  this._platformStrategy.pushState(null, "", path, query);\n};\n /**\n * Changes the browsers URL to the\n normalized version of the given URL, and replaces\n * the top item on the platform's history stack.\n *\n /**\n * Changes the browsers URL to the normalized version of the given URL, and replaces\n * the top item\n on the platform's history stack.\n * @param {?} path\n * @param {?=} query\n * @return {?}\n *\n Location.prototype.replaceState = /**\n * Changes the browsers URL to the normalized version of the given\n URL, and replaces\n * the top item on the platform's history stack.\n * @param {?} path\n * @param {?=\n query\n * @return {?}\n *\n function (path, query) {\n  if (query === void 0) { query = ""; }\n  this._platformStrategy.replaceState(null, "", path, query);\n};\n /**\n * Navigates forward in the platform's\n history.\n *\n /**\n * Navigates forward in the platform's history.\n * @return {?}\n *\n Location.prototype.forward = /**\n * Navigates forward in the platform's history.\n * @return {?}\n *\n function () { this._platformStrategy.forward(); }\n /**\n * Navigates back in the platform's history.\n *\n /**\n * Navigates back in the platform's history.\n * @return {?}\n *\n Location.prototype.back = /**\n * Navigates back in the platform's history.\n * @return {?}\n *\n function () { this._platformStrategy.back(); }\n};\n /**\n * Subscribe to the platform's `popState` events.\n *\n /**\n * Subscribe to the platform's\n `popState` events.\n * @param {?} onNext\n * @param {?=} onThrow\n * @param {?=} onReturn\n * @return {?}\n *\n Location.prototype.subscribe = /**\n * Subscribe to the platform's `popState` events.\n * @param {?} onNext\n * @param {?=} onThrow\n * @param {?=} onReturn\n * @return {?}\n *\n function (onNext, onThrow, onReturn) {\n  return this._subject.subscribe({ next: onNext, error: onThrow,\n complete: onReturn });\n};\n /**\n * Given a string of url parameters, prepend with '?' if needed, otherwise\n return parameters as\n * is.\n * @param {?} params\n * @return {?}\n *\n Location.normalizeQueryParams = /**\n * Given a string of url parameters, prepend with '?' if needed, otherwise\n return parameters as\n * is.\n * @param {?} params\n * @return {?}\n *\n function (params) {\n  return params && params[0] !== '?' ? '?' + params : params;\n};\n /**\n * Given 2 parts of a url, join them\n with a slash if needed.\n * @param {?} start\n * @param {?} end\n * @return {?}\n *\n Location.joinWithSlash = /**\n * Given 2 parts of a url, join them with a slash if needed.\n * @param {?}\n start\n * @param {?} end\n * @return {?}\n *\n function (start, end) {\n  if (start.length === 0) {\n    return end;\n  }\n  if (end.length === 0) {\n    return start;\n  }\n  var /** @type {?} */ slashes =\n  0;\n  if (start.endsWith('/')) {\n    slashes++;\n  }\n  if (end.startsWith('/')) {\n    slashes++;\n  }\n  if (slashes === 2) {\n    return start + end.substring(1);\n  }\n  if (slashes === 1) {\n    return\n start + end;\n  }\n  return start + '/' + end;\n};\n /**\n * If url has a trailing slash, remove it, otherwise\n return url as is. This\n * method looks for the first occurrence of either #, ?, or the end of the\n * line as `^`\n characters after any of these should not be replaced.\n * @param {?} url\n * @return {?}\n *\n Location.stripTrailingSlash = /**\n * If url has a trailing slash, remove it, otherwise return url as is. This\n * method looks for the first occurrence of either #, ?, or the end of the\n * line as `^`\n characters after any of these\n should not be replaced.\n * @param {?} url\n * @return {?}\n *\n function (url) {\n  var /** @type\n {?} */ match = url.match(/#\\|\\|?$/);\n  var /** @type {?} */ pathEndIdx = match && match.index || url.length;\n  var /** @type {?} */ droppedSlashIdx = pathEndIdx - (url[pathEndIdx - 1] === '/' ? 1 : 0);\n  return\n url.slice(0, droppedSlashIdx) + url.slice(pathEndIdx);\n};\n Location.decorators = [\n  { type: Injectable },\n];\n /** @nocollapse *\n Location.ctorParameters = function () { return [\n  { type: LocationStrategy, }\n];\n}

```

```

];\n  return Location;\n})();\n\n\n * @param {?} baseHref\n * @param {?} url\n * @return {?}\n *\nfunction\n_stripBaseHref(baseHref, url) {\n  return baseHref && url.startsWith(baseHref) ? url.substring(baseHref.length) : url;\n}\n\n\n * @param {?} url\n * @return {?}\n *\nfunction _stripIndexHtml(url) {\n  return url.replace(/\\/index.html$/, "");\n}\n\n\n * @fileoverview added by tsickle\n * @suppress {checkTypes} checked by tsc\n *\n\n * @license\n * Copyright Google Inc. All Rights Reserved.\n *\n * Use of this source code is governed by an MIT-style license that can be\n * found in the LICENSE file at https://angular.io/license\n *\n\n * \\@whatItDoes Use URL hash for storing application location data.\n * \\@description\n *\n`HashLocationStrategy` is a {\\@link LocationStrategy} used to configure the\n * {\\@link Location} service to represent its state in the\n * [hash fragment](https://en.wikipedia.org/wiki/Uniform_Resource_Locator#Syntax)\n * of the browser's URL.\n *\n * For instance, if you call `location.go('/foo')`, the browser's URL will become\n * `example.com/#/foo`.\n *\n * ### Example\n *\n * \\@example common/location/ts/hash_location_component.ts\n * region='LocationComponent'\n *\n * \\@stable\n *\n * \\nvar HashLocationStrategy = /** @class */ (function (_super) {\n *   __extends(HashLocationStrategy, _super);\n *   function HashLocationStrategy(_platformLocation, _baseHref) {\n *     var _this = _super.call(this) || this;\n *     _this._platformLocation = _platformLocation;\n *     _this._baseHref = "";\n *     if (_baseHref != null) {\n *       _this._baseHref = _baseHref;\n *     }\n *     return _this;\n *   }\n *   /**\n *    * @param {?} fn\n *    * @return {?}\n *    *\n *   \\n HashLocationStrategy.prototype.onPopState = /**\n *    * @param {?} fn\n *    * @return {?}\n *    *\n *   \\n function (fn) {\n *     this._platformLocation.onPopState(fn);\n *     this._platformLocation.onHashChange(fn);\n *   }; \n *   /**\n *    *\n *   \\n HashLocationStrategy.prototype.getBaseHref = /**\n *    * @return {?}\n *    *\n *   \\n function () {\n *     return this._baseHref; \n *   }; \n *   /**\n *    * @param {=} includeHash\n *    * @return {?}\n *    *\n *   \\n HashLocationStrategy.prototype.path = /**\n *    * @param {=} includeHash\n *    * @return {?}\n *    *\n *   \\n function (includeHash) {\n *     if (includeHash === void 0) { includeHash = false; }\n *     // the hash value is always prefixed with a `#\n *     // and if it is empty then it will stay empty\n *     var /** @type {?} */ path = this._platformLocation.hash;\n *     if (path == null)\n *       path = '#';\n *     return path.length > 0 ? path.substring(1) : path;\n *   }; \n *   /**\n *    * @param {?} internal\n *    * @return {?}\n *    *\n *   \\n HashLocationStrategy.prototype.prepareExternalUrl = /**\n *    * @param {?} internal\n *    * @return {?}\n *    *\n *   \\n function (internal) {\n *     var /** @type {?} */ url = Location.joinWithSlash(this._baseHref, internal);\n *     return url.length > 0 ? `#${url}` : url;\n *   }; \n *   /**\n *    * @param {?} state\n *    * @param {?} title\n *    * @param {?} path\n *    * @param {?} queryParams\n *    * @return {?}\n *    *\n *   \\n HashLocationStrategy.prototype.pushState = /**\n *    * @param {?} state\n *    * @param {?} title\n *    * @param {?} path\n *    * @param {?} queryParams\n *    * @return {?}\n *    *\n *   \\n function (state, title, path, queryParams) {\n *     var /** @type {?} */ url = this.prepareExternalUrl(path + Location.normalizeQueryParams(queryParams));\n *     if (url.length === 0) {\n *       url = this._platformLocation.pathname;\n *     }\n *     this._platformLocation.pushState(state, title, url);\n *   }; \n *   /**\n *    * @param {?} state\n *    * @param {?} title\n *    * @param {?} path\n *    * @param {?} queryParams\n *    * @return {?}\n *    *\n *   \\n HashLocationStrategy.prototype.replaceState = /**\n *    * @param {?} state\n *    * @param {?} title\n *    * @param {?} path\n *    * @param {?} queryParams\n *    * @return {?}\n *    *\n *   \\n function (state, title, path, queryParams) {\n *     var /** @type {?} */ url = this.prepareExternalUrl(path + Location.normalizeQueryParams(queryParams));\n *     if (url.length === 0) {\n *       url = this._platformLocation.pathname;\n *     }\n *     this._platformLocation.replaceState(state, title, url);\n *   }; \n *   /**\n *    * @return {?}\n *    *\n *   \\n HashLocationStrategy.prototype.forward = /**\n *    * @return {?}\n *    *\n *   \\n function () {\n *     this._platformLocation.forward(); \n *   }; \n *   /**\n *    * @return {?}\n *    *\n *   \\n HashLocationStrategy.prototype.back = /**\n *    * @return {?}\n *    *\n *   \\n function () {\n *     this._platformLocation.back(); \n *   }; \n *   HashLocationStrategy.decorators = [\n *     { type: Injectable },\n *   ]; \n *   /** @nocollapse *\n *   HashLocationStrategy.ctorParameters = function () {\n *     return [\n *       { type: PlatformLocation },\n *       { type: undefined, decorators: [{ type: Optional }, { type: Inject, args: [APP_BASE_HREF, ] }],\n *     ],\n *   }; \n *   return HashLocationStrategy;\n * } (LocationStrategy);\n\n\n * @fileoverview added by tsickle\n * @suppress {checkTypes} checked by tsc\n *\n\n * @license\n * Copyright Google Inc. All Rights Reserved.\n *\n * Use of this source code is governed by an MIT-style license that can be\n * found in the LICENSE file at

```

<https://angular.io/license>

@@description PathLocationStrategy` is a {@link LocationStrategy} used to configure the {@link Location} service to represent its state in the

[\[path\]\(https://en.wikipedia.org/wiki/Uniform_Resource_Locator#Syntax\)](https://en.wikipedia.org/wiki/Uniform_Resource_Locator#Syntax) of the browser's URL. If you're using PathLocationStrategy, you must provide a {@link APP_BASE_HREF} or add a base element to the document. This URL prefix that will be preserved when generating and recognizing URLs. For instance, if you provide an APP_BASE_HREF of `/my/app` and call location.go('/foo'), the browser's URL will become example.com/my/app/foo. Similarly, if you add <base href="/my/app"/> to the document and call location.go('/foo'), the browser's URL will become example.com/my/app/foo.

Example

```

@@example common/location/ts/path_location_component.ts region='LocationComponent'
@@stable
nvar PathLocationStrategy = /** @class */ (function (_super) {
  __extends(PathLocationStrategy, _super);
  function PathLocationStrategy(_platformLocation, href) {
    var _this = _super.call(this) || this;
    _this._platformLocation = _platformLocation;
    if (href == null) {
      href = _this._platformLocation.getBaseHrefFromDOM();
    }
    if (href == null) {
      throw new Error("No base href set. Please provide a value for the APP_BASE_HREF token or add a base element to the document.");
    }
    _this._baseHref = href;
    return _this;
  }
  /**
   * @param {?} fn
   * @return {?}
   */
  PathLocationStrategy.prototype.onPopState = /**
   * @param {?} fn
   * @return {?}
   */
  function (fn) {
    this._platformLocation.onPopState(fn);
    this._platformLocation.onHashChange(fn);
  };
  /**
   * @return {?}
   */
  PathLocationStrategy.prototype.getBaseHref = /**
   * @return {?}
   */
  function () {
    return this._baseHref;
  };
  /**
   * @param {?} internal
   * @return {?}
   */
  PathLocationStrategy.prototype.prepareExternalUrl = /**
   * @param {?} internal
   * @return {?}
   */
  function (internal) {
    return Location.joinWithSlash(this._baseHref, internal);
  };
  /**
   * @param {?} includeHash
   * @return {?}
   */
  PathLocationStrategy.prototype.path = /**
   * @param {?} includeHash
   * @return {?}
   */
  function (includeHash) {
    if (includeHash === void 0) {
      includeHash = false;
    }
    var /** @type {?} */ pathname = this._platformLocation.pathname + Location.normalizeQueryParams(this._platformLocation.search);
    var /** @type {?} */ hash = this._platformLocation.hash;
    return hash && includeHash ? "\"" + pathname + hash : pathname;
  };
  /**
   * @param {?} state
   * @param {?} title
   * @param {?} url
   * @param {?} queryParams
   * @return {?}
   */
  PathLocationStrategy.prototype.pushState = /**
   * @param {?} state
   * @param {?} title
   * @param {?} url
   * @param {?} queryParams
   * @return {?}
   */
  function (state, title, url, queryParams) {
    var /** @type {?} */ externalUrl = this.prepareExternalUrl(url + Location.normalizeQueryParams(queryParams));
    this._platformLocation.pushState(state, title, externalUrl);
  };
  /**
   * @param {?} state
   * @param {?} title
   * @param {?} url
   * @param {?} queryParams
   * @return {?}
   */
  PathLocationStrategy.prototype.replaceState = /**
   * @param {?} state
   * @param {?} title
   * @param {?} url
   * @param {?} queryParams
   * @return {?}
   */
  function (state, title, url, queryParams) {
    var /** @type {?} */ externalUrl = this.prepareExternalUrl(url + Location.normalizeQueryParams(queryParams));
    this._platformLocation.replaceState(state, title, externalUrl);
  };
  /**
   * @return {?}
   */
  PathLocationStrategy.prototype.forward = /**
   * @return {?}
   */
  function () {
    this._platformLocation.forward();
  };
  /**
   * @return {?}
   */
  PathLocationStrategy.prototype.back = /**
   * @return {?}
   */
  function () {
    this._platformLocation.back();
  };
  PathLocationStrategy.decorators = [
    { type: Injectable },
  ];
  /**
   * @nocollapse
   */
  PathLocationStrategy.ctorParameters = function () {
    return [
      { type: PlatformLocation },
      { type: undefined, decorators: [{ type: Optional }, { type: Inject, args: [APP_BASE_HREF,] },] },
    ];
  };
  return PathLocationStrategy;
})(LocationStrategy);

```

@fileoverview added by tsickle

@suppress {checkTypes} checked by tsc

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THIS CODE IS GENERATED - DO NOT MODIFY See angular/tools/gulp-tasks/cldr/extract.js
@@internal
nvar CURRENCIES = {
  'AOA': ['Kz'],
  'ARS': ['$'],
  'AUD': ['A$', '$'],
  'BAM': ['KM'],
  'BBD': ['$'],
  'BDT': ['T'],
  'BMD': ['$'],
  'BND': ['$'],
  'BOB': ['Bs'],
  'BRL': ['R$'],
  'BSD': ['$'],
  'BWP': ['P'],
  'BYN': ['Z'],
  'BZD': ['$'],
  'CAD': ['CA$', '$'],
  'CLP': ['$'],
  'CNY': ['CN¥', '¥'],
  'COP': ['$'],
  'CRC': ['C'],
  'CUC': ['$'],
  'CUP': ['$'],
  'CZK': ['K'],
  'DKK': ['kr'],
  'DOP': ['$'],
  'EGP': ['E£'],
  'ESP': ['P'],
  'EUR': ['€'],
  'FJD': ['$'],
  'FKP': ['£'],
  'GBP': ['£'],
  'GEL': ['L'],
  'GIP': ['£'],
  'GNF': ['FG'],
  'GTQ': ['Q'],
  'GYD': ['$'],
  'HKD': ['HK$', '$'],
  'HNL': ['L'],
  'HRK': ['kn'],
  'HUF': ['Ft'],
  'IDR': ['Rp'],
  'ILS': ['₪'],
  'INR': ['₹'],
  'ISK': ['kr'],
  'JMD': ['$'],
  'JPY': ['¥'],
  'KHR': ['R'],
  'KMF': ['CF'],
  'KPW': ['W'],
  'KRW': ['₩'],
  'KYD': ['$'],
  'KZT': ['T'],
  'LAK': ['L'],
  'LBP': ['L£'],
  'LKR': ['Rs'],
  'LRD': ['$'],
  'LTL': ['Lt'],
  'LVL': ['Ls'],
  'MGA': ['Ar'],
  'MMK': ['K'],
  'MNT': ['T'],
  'MUR': ['Rs'],
  'MXN': ['MX$', '$'],
  'MYR': ['RM'],
  'NAD': ['$'],
  'NGN': ['N'],
  'NIO': ['C$'],
  'NOK': ['kr'],
  'NPR': ['Rs'],
  'NZD': ['NZ$', '$'],
  'PHP': ['P'],
  'PKR': ['Rs'],
  'PLN': ['z'],
  'PYG': ['G'],
  'RON': ['lei'],
  'RUB': ['R'],
  'RUR': ['R'],
  'RWF': ['RF'],
  'SBD': ['$'],
  'SEK': ['kr'],
  'SGD': ['$'],
  'SHP': ['£'],
  'SRD': ['$'],
  'SSP': ['£'],
  'STD': ['Db'],
  'SYP': ['£'],
  'THB': ['฿'],
  'TOP': ['T$'],
  'TRY': ['Lira'],
  'TTD': ['$'],
  'TWD': ['NT$', '$'],
  'UAH': ['₴'],
  'USD': ['$'],
  'UYU': ['$'],
  'VEF': ['Bs'],
  'VND': ['₫'],
  'XAF': ['FCFA'],
  'XCD': ['EC$', '$'],
  'XOF': ['CFA'],
  'XPF': ['CFPF'],
  'ZAR': ['R'],
  'ZMW': ['ZK']
};
@fileoverview added by tsickle
@suppress {checkTypes} checked by tsc
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THIS CODE IS GENERATED - DO NOT MODIFY See angular/tools/gulp-tasks/cldr/extract.js
@param {?} n
@return {?}
function converter(n) {
  var type;
  if (i = Math.floor(Math.abs(n)), type) {
    return 1;
    return 5;
  }
  nvar localeEn = {
    'en': {
      'a': 'a', 'p': 'p',
      'AM': 'AM', 'PM': 'PM',
      'S': 'S', 'M': 'M', 'T': 'T', 'W': 'W', 'T': 'T', 'F': 'F', 'S': 'S',
      'Sun': 'Sun', 'Mon': 'Mon', 'Tue': 'Tue', 'Wed': 'Wed', 'Thu': 'Thu', 'Fri': 'Fri', 'Sat': 'Sat',
      'Sunday': 'Sunday', 'Monday': 'Monday', 'Tuesday': 'Tuesday',
      'Wednesday': 'Wednesday', 'Thursday': 'Thursday', 'Friday': 'Friday', 'Saturday': 'Saturday',
      'Su': 'Su', 'Mo': 'Mo', 'Tu': 'Tu', 'We': 'We', 'Th': 'Th', 'Fr': 'Fr', 'Sa': 'Sa',
      'J': 'J', 'F': 'F', 'M': 'M', 'A': 'A', 'M': 'M', 'J': 'J', 'J': 'J', 'A': 'A', 'S': 'S', 'O': 'O', 'N': 'N', 'D': 'D',
      'Jan': 'Jan', 'Feb': 'Feb', 'Mar': 'Mar', 'Apr': 'Apr', 'May': 'May', 'Jun': 'Jun', 'Jul': 'Jul', 'Aug': 'Aug', 'Sep': 'Sep', 'Oct': 'Oct', 'Nov': 'Nov', 'Dec': 'Dec',
      'January': 'January', 'February': 'February', 'March': 'March', 'April': 'April', 'May': 'May', 'June': 'June', 'July': 'July', 'August': 'August', 'September': 'September',
      'October': 'October', 'November': 'November', 'December': 'December',
      'B': 'B', 'A': 'A', 'BC': 'BC', 'AD': 'AD', 'Before Christ': 'Before Christ', 'Anno Domini': 'Anno Domini',
      'M/d/yy': 'M/d/yy', 'MMM d, y': 'MMM d, y', 'MMMM d, y': 'MMMM d, y', 'EEEE, MMMM d, y': 'EEEE, MMMM d, y',
      'h:mm a': 'h:mm a', 'h:mm:ss a': 'h:mm:ss a', 'h:mm:ss a z': 'h:mm:ss a zzzz',
      '1': '1', '0': '0', '1': '1', 'at': '0',
      ':', ',', ';', '%', '+', '-', 'E', 'x', '%', 'NaN', ':',
      '#,###.###', '#,###%', '¤,##0.00', '#E0', '$', 'US Dollar',
    },
  };
  @fileoverview added by tsickle
  @suppress {checkTypes} checked by tsc
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  @enum {number}
  nvar NumberFormatStyle = {
    Decimal: 0,
    Percent: 1,
    Currency: 2,
    Scientific: 3,
  };
  NumberFormatStyle[NumberFormatStyle.Decimal] = 'Decimal';
  NumberFormatStyle[NumberFormatStyle.Percent] =

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\"Percent\";\nNumberFormatStyle[NumberFormatStyle.Currency] =
\"Currency\";\nNumberFormatStyle[NumberFormatStyle.Scientific] = \"Scientific\";\n/** @enum {number} */\nvar
Plural = {\n  Zero: 0,\n  One: 1,\n  Two: 2,\n  Few: 3,\n  Many: 4,\n  Other: 5,\n};\nPlural[Plural.Zero] =
\"Zero\";\nPlural[Plural.One] = \"One\";\nPlural[Plural.Two] = \"Two\";\nPlural[Plural.Few] =
\"Few\";\nPlural[Plural.Many] = \"Many\";\nPlural[Plural.Other] = \"Other\";\n/** @enum {number} */\nvar
FormStyle = {\n  Format: 0,\n  Standalone: 1,\n};\nFormStyle[FormStyle.Format] =
\"Format\";\nFormStyle[FormStyle.Standalone] = \"Standalone\";\n/** @enum {number} */\nvar
TranslationWidth = {\n  Narrow: 0,\n  Abbreviated: 1,\n  Wide: 2,\n  Short: 3,\n};\nTranslationWidth[TranslationWidth.Narrow]
= \"Narrow\";\nTranslationWidth[TranslationWidth.Abbreviated] =
\"Abbreviated\";\nTranslationWidth[TranslationWidth.Wide] =
\"Wide\";\nTranslationWidth[TranslationWidth.Short] = \"Short\";\n/** @enum {number} */\nvar
FormatWidth = {\n  Short: 0,\n  Medium: 1,\n  Long: 2,\n  Full: 3,\n};\nFormatWidth[FormatWidth.Short] =
\"Short\";\nFormatWidth[FormatWidth.Medium] = \"Medium\";\nFormatWidth[FormatWidth.Long] =
\"Long\";\nFormatWidth[FormatWidth.Full] = \"Full\";\n/** @enum {number} */\nvar
NumberSymbol = {\n  Decimal: 0,\n  Group: 1,\n  List: 2,\n  PercentSign: 3,\n  PlusSign: 4,\n  MinusSign: 5,\n  Exponential: 6,\n  SuperscriptingExponent: 7,\n  PerMille: 8,\n  Infinity: 9,\n  NaN: 10,\n  TimeSeparator: 11,\n  CurrencyDecimal: 12,\n  CurrencyGroup: 13,\n};\nNumberSymbol[NumberSymbol.Decimal] =
\"Decimal\";\nNumberSymbol[NumberSymbol.Group] = \"Group\";\nNumberSymbol[NumberSymbol.List] =
\"List\";\nNumberSymbol[NumberSymbol.PercentSign] =
\"PercentSign\";\nNumberSymbol[NumberSymbol.PlusSign] =
\"PlusSign\";\nNumberSymbol[NumberSymbol.MinusSign] =
\"MinusSign\";\nNumberSymbol[NumberSymbol.Exponential] =
\"Exponential\";\nNumberSymbol[NumberSymbol.SuperscriptingExponent] =
\"SuperscriptingExponent\";\nNumberSymbol[NumberSymbol.PerMille] =
\"PerMille\";\nNumberSymbol[NumberSymbol.Infinity] = \"Infinity\";\nNumberSymbol[NumberSymbol.NaN] =
\"NaN\";\nNumberSymbol[NumberSymbol.TimeSeparator] =
\"TimeSeparator\";\nNumberSymbol[NumberSymbol.CurrencyDecimal] =
\"CurrencyDecimal\";\nNumberSymbol[NumberSymbol.CurrencyGroup] = \"CurrencyGroup\";\n/** @enum
{number} */\nvar
WeekDay = {\n  Sunday: 0,\n  Monday: 1,\n  Tuesday: 2,\n  Wednesday: 3,\n  Thursday:
4,\n  Friday: 5,\n  Saturday: 6,\n};\nWeekDay[WeekDay.Sunday] = \"Sunday\";\nWeekDay[WeekDay.Monday]
= \"Monday\";\nWeekDay[WeekDay.Tuesday] = \"Tuesday\";\nWeekDay[WeekDay.Wednesday] =
\"Wednesday\";\nWeekDay[WeekDay.Thursday] = \"Thursday\";\nWeekDay[WeekDay.Friday] =
\"Friday\";\nWeekDay[WeekDay.Saturday] = \"Saturday\";\n/**\n * The locale id for the chosen locale (e.g `en-
GB`).\n * \n * \\@experimental i18n support is experimental.\n * @param {?} locale\n * @return {?} }\n */\nfunction
getLocaleId(locale) {\n  return findLocaleData(locale)[0 /* LocaleId */];\n}\n/**\n * Periods of the day (e.g. `[AM,
PM]` for en-US).\n * \n * \\@experimental i18n support is experimental.\n * @param {?} locale\n * @param {?}
formStyle\n * @param {?} width\n * @return {?} }\n */\nfunction getLocaleDayPeriods(locale, formStyle, width) {\n
  var /** @type {?} */ data = findLocaleData(locale);\n  var /** @type {?} */ amPmData = /** @type {?} */
([data[1 /* DayPeriodsFormat */, data[2 /* DayPeriodsStandalone */]]);\n  var /** @type {?} */ amPm =
getLastDefinedValue(amPmData, formStyle);\n  return getLastDefinedValue(amPm, width);\n}\n/**\n * Days of
the week for the Gregorian calendar (e.g. `[Sunday, Monday, ... Saturday]` for en-US).\n * \n * \\@experimental i18n
support is experimental.\n * @param {?} locale\n * @param {?} formStyle\n * @param {?} width\n * @return
{?} }\n */\nfunction getLocaleDayNames(locale, formStyle, width) {\n  var /** @type {?} */ data =
findLocaleData(locale);\n  var /** @type {?} */ daysData = /** @type {?} */ ([data[3 /* DaysFormat */, data[4 /*
DaysStandalone */]]);\n  var /** @type {?} */ days = getLastDefinedValue(daysData, formStyle);\n  return
getLastDefinedValue(days, width);\n}\n/**\n * Months of the year for the Gregorian calendar (e.g. `[January,
February, ...]` for en-US).\n * \n * \\@experimental i18n support is experimental.\n * @param {?} locale\n *
@param {?} formStyle\n * @param {?} width\n * @return {?} }\n */\nfunction getLocaleMonthNames(locale,

```

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formStyle, width) {\n  var /** @type {?} */ data = findLocaleData(locale);\n  var /** @type {?} */ monthsData =
/** @type {?} */ ([data[5 /* MonthsFormat */], data[6 /* MonthsStandalone */]]);\n  var /** @type {?} */ months
= getLastDefinedValue(monthsData, formStyle);\n  return getLastDefinedValue(months, width);\n}\n\n/**\n * Eras
for the Gregorian calendar (e.g. AD/BC).\n *\n * \\\n * @experimental i18n support is experimental.\n *\n * @param {?}
locale\n * @param {?} width\n * @return {?} }\n *\n */\n\nfunction getLocaleEraNames(locale, width) {\n  var /**
@type {?} */ data = findLocaleData(locale);\n  var /** @type {?} */ erasData = /** @type {?} */ (data[7 /* Eras
*/]);\n  return getLastDefinedValue(erasData, width);\n}\n\n/**\n * First day of the week for this locale, based on
english days (Sunday = 0, Monday = 1, ...).\n *\n * For example in french the value would be 1 because the first day of
the week is Monday.\n *\n * \\\n * @experimental i18n support is experimental.\n *\n * @param {?} locale\n * @return
{?} }\n *\n */\n\nfunction getLocaleFirstDayOfWeek(locale) {\n  var /** @type {?} */ data = findLocaleData(locale);\n
return data[8 /* FirstDayOfWeek */];\n}\n\n/**\n * Range of days in the week that represent the week-end for this
locale, based on english days\n * (Sunday = 0, Monday = 1, ...).\n *\n * For example in english the value would be [6,0]
for Saturday to Sunday.\n *\n * \\\n * @experimental i18n support is experimental.\n *\n * @param {?} locale\n * @return
{?} }\n *\n */\n\nfunction getLocaleWeekEndRange(locale) {\n  var /** @type {?} */ data = findLocaleData(locale);\n
return data[9 /* WeekendRange */];\n}\n\n/**\n * Date format that depends on the locale.\n *\n * There are four basic
date formats:\n * - `full` should contain long-weekday (EEEE), year (y), long-month (MMMM), day (d).\n *\n * For
example, English uses `EEEE, MMMM d, y`, corresponding to a date like\n * `Tuesday, September 14,
1999`.\n *\n * - `long` should contain year, long-month, day.\n *\n * For example, `MMMM d, y`, corresponding
to a date like `September 14, 1999`.\n *\n * - `medium` should contain year, abbreviated-month (MMM), day.\n
*\n * For example, `MMM d, y`, corresponding to a date like `Sep 14, 1999`.\n *\n * For languages that do not use
abbreviated months, use the numeric month (MM/M). For example,\n * `y/MM/dd`, corresponding to a date like
`1999/09/14`.\n *\n * - `short` should contain year, numeric-month (MM/M), and day.\n *\n * For example,
`M/d/yy`, corresponding to a date like `9/14/99`.\n *\n * \\\n * @experimental i18n support is experimental.\n *\n
* @param {?} locale\n * @param {?} width\n * @return {?} }\n *\n */\n\nfunction getLocaleDateFormat(locale, width) {\n
var /** @type {?} */ data = findLocaleData(locale);\n  return data[10 /* DateFormat */][width];\n}\n\n/**\n * Time
format that depends on the locale.\n *\n * The standard formats include four basic time formats:\n * - `full` should
contain hour (h/H), minute (mm), second (ss), and zone (zzzz).\n * - `long` should contain hour, minute, second, and
zone (z)\n * - `medium` should contain hour, minute, second.\n * - `short` should contain hour, minute.\n *\n * Note:
The patterns depend on whether the main country using your language uses 12-hour time or\n * not:\n * - For
12-hour time, use a pattern like `hh:mm a` using h to mean a 12-hour clock cycle running\n * 1 through 12
(midnight plus 1 minute is 12:01), or using K to mean a 12-hour clock cycle\n * running 0 through 11 (midnight
plus 1 minute is 0:01).\n * - For 24-hour time, use a pattern like `HH:mm` using H to mean a 24-hour clock cycle
running\n * 0 through 23 (midnight plus 1 minute is 0:01), or using k to mean a 24-hour clock cycle running\n * 1
through 24 (midnight plus 1 minute is 24:01).\n *\n * \\\n * @experimental i18n support is experimental.\n *\n * @param
{?} locale\n * @param {?} width\n * @return {?} }\n *\n */\n\nfunction getLocaleTimeFormat(locale, width) {\n  var /**
@type {?} */ data = findLocaleData(locale);\n  return data[11 /* TimeFormat */][width];\n}\n\n/**\n * Date-time
format that depends on the locale.\n *\n * The date-time pattern shows how to combine separate patterns for date
(represented by {1})\n * and time (represented by {0}) into a single pattern. It usually doesn't need to be changed.\n
*\n * What you want to pay attention to are:\n * - possibly removing a space for languages that don't use it, such as
many East Asian languages\n * - possibly adding a comma, other punctuation, or a combining word\n *\n * For
example:\n * - English uses `{1} 'at' {0}` or `{1}, {0}` (depending on date style), while Japanese uses\n *
`{1}{0}`.\n * - An English formatted date-time using the combining pattern `{1}, {0}` could be\n * `Dec 10, 2010,
3:59:49 PM`. Notice the comma and space between the date portion and the time\n * portion.\n *\n * There are four
formats (`full`, `long`, `medium`, `short`); the determination of which to use\n * is normally based on the date
style. For example, if the date has a full month and weekday\n * name, the full combining pattern will be used to combine
that with a time. If the date has\n * numeric month, the short version of the combining pattern will be used to
combine that with a\n * time. English uses `{1} 'at' {0}` for full and long styles, and `{1}, {0}` for medium and
short\n * styles.\n *\n * \\\n * @experimental i18n support is experimental.\n *\n * @param {?} locale\n * @param {?}

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width\n * @return {?} \n *\nfunction getLocaleDateTimeFormat(locale, width) {\n  var /** @type {?} */ data =
findLocaleData(locale);\n  var /** @type {?} */ dateTimeFormatData = /** @type {?} */ (data[12 /*
DateTimeFormat */]);\n  return getLastDefinedValue(dateTimeFormatData, width);\n}\n\n/** \n * Number symbol
that can be used to replace placeholders in number formats.\n * See {@link NumberSymbol} for more
information.\n *\n * @experimental i18n support is experimental.\n * @param {?} locale\n * @param {?}
symbol\n * @return {?} \n *\nfunction getLocaleNumberSymbol(locale, symbol) {\n  var /** @type {?} */ data =
findLocaleData(locale);\n  var /** @type {?} */ res = data[13 /* NumberSymbols */][symbol];\n  if (typeof res
=== 'undefined') {\n    if (symbol === NumberSymbol.CurrencyDecimal) {\n      return data[13 /*
NumberSymbols */][NumberSymbol.Decimal];\n    }\n    else if (symbol === NumberSymbol.CurrencyGroup)
{\n      return data[13 /* NumberSymbols */][NumberSymbol.Group];\n    }\n  }\n  return res;\n}\n\n/** \n *
Number format that depends on the locale.\n *\n * Numbers are formatted using patterns, like `#,###.00`. For
example, the pattern `#,###.00`\n * when used to format the number 12345.678 could result in `"12'345,67"`. That
would happen if the\n * grouping separator for your language is an apostrophe, and the decimal separator is a
comma.\n *\n * <b>Important:</b> The characters `.``,``,`0`,`#` (and others below) are special placeholders;\n *
they stand for the decimal separator, and so on, and are NOT real characters.\n * You must NOT "translate" the
placeholders; for example, don't change `.` to `,` even though in\n * your language the decimal point is written
with a comma. The symbols should be replaced by the\n * local equivalents, using the Number Symbols for your
language.\n *\n * Here are the special characters used in number patterns:\n *\n * | Symbol | Meaning |\n * |-----|-----|
\n * | . | Replaced automatically by the character used for the decimal point. |\n * | , | Replaced by the
"grouping" (thousands) separator. |\n * | 0 | Replaced by a digit (or zero if there aren't enough digits). |\n *
| # | Replaced by a digit (or nothing if there aren't enough). |\n * | ¤ | This will be replaced by a currency
symbol, such as $ or USD. |\n * | % | This marks a percent format. The % symbol may change position, but must
be retained. |\n * | E | This marks a scientific format. The E symbol may change position, but must be retained.
|\n * | ' | Special characters used as literal characters are quoted with ASCII single quotes. |\n *\n * You can
find more information\n * [on the CLDR website](http://cldr.unicode.org/translation/number-patterns)\n *\n *
\n *\n * @experimental i18n support is experimental.\n * @param {?} locale\n * @param {?} type\n * @return
{} \n *\nfunction
getLocaleNumberFormat(locale, type) {\n  var /** @type {?} */ data = findLocaleData(locale);\n  return data[14
/* NumberFormats */][type];\n}\n\n/** \n * The symbol used to represent the currency for the main country using
this locale (e.g. $ for\n * the locale en-US).\n * The symbol will be `null` if the main country cannot be
determined.\n *\n * @experimental i18n support is experimental.\n * @param {?} locale\n * @return {} \n *\nfunction
getLocaleCurrencySymbol(locale) {\n  var /** @type {?} */ data = findLocaleData(locale);\n  return data[15 /*
CurrencySymbol */] || null;\n}\n\n/** \n * The name of the currency for the main country using this locale (e.g.
USD for the locale\n * en-US).\n * The name will be `null` if the main country cannot be determined.\n *\n *
\n *\n * @experimental i18n support is experimental.\n * @param {?} locale\n * @return {} \n *\nfunction
getLocaleCurrencyName(locale) {\n  var /** @type {?} */ data = findLocaleData(locale);\n  return data[16 /*
CurrencyName */] || null;\n}\n\n/** \n * The locale plural function used by ICU expressions to determine the plural
case to use.\n * See {@link NgPlural} for more information.\n *\n * @experimental i18n support is
experimental.\n * @param {?} locale\n * @return {} \n *\nfunction getLocalePluralCase(locale) {\n  var /**
@type {?} */ data = findLocaleData(locale);\n  return data[17 /* PluralCase */];\n}\n\n/** \n * @param {?}
data\n * @return {} \n *\nfunction checkFullData(data) {\n  if (!data[18 /* ExtraData */]) {\n    throw new
Error("Missing extra locale data for the locale '" + data[0 /* LocaleId */] + "'"). Use "registerLocaleData"
to load new data. See the "I18n guide" on angular.io to know more.);\n  }\n}\n\n/** \n * Rules used to
determine which day period to use (See `dayPeriods` below).\n * The rules can either be an array or a single
value. If it's an array, consider it as "from"\n * and "to". If it's a single value then it means that the
period is only valid at this exact\n * value.\n * There is always the same number of rules as the number of
day periods, which means that the\n * first rule is applied to the first day period and so on.\n * You should
fallback to AM/PM when there are no rules available.\n *\n * Note: this is only available if you load the full
locale data.\n * See the {@link Docs
guide/i18n#i18n-pipes "I18n guide"} to know how to import additional\n * locale\n * data.\n *\n * @experimental

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i18n support is experimental.\n * @param {?} locale\n * @return {?}\n *\nfunction
getLocaleExtraDayPeriodRules(locale) {\n  var /** @type {?} */ data = findLocaleData(locale);\n
checkFullData(data);\n  var /** @type {?} */ rules = data[18 /* ExtraData */][2 /* ExtraDayPeriodsRules */] || [];\n
  return rules.map(function (rule) {\n    if (typeof rule === 'string') {\n      return extractTime(rule);\n    }\n
    return [extractTime(rule[0]), extractTime(rule[1]);\n  ]});\n\n/**\n * Day Periods indicate roughly how the day
is broken up in different languages (e.g. morning,\n * noon, afternoon, midnight, ...).\n * You should use the
function {@link getLocaleExtraDayPeriodRules} to determine which period to\n * use.\n * You should fallback to
AM/PM when there are no day periods available.\n *\n * Note: this is only available if you load the full locale
data.\n * See the {@linkDocs guide/i18n#i18n-pipes "I18n guide"} to know how to import additional locale\n *
data.\n *\n * @experimental i18n support is experimental.\n * @param {?} locale\n * @param {?} formStyle\n *
@param {?} width\n * @return {?}\n *\nfunction getLocaleExtraDayPeriods(locale, formStyle, width) {\n  var
/** @type {?} */ data = findLocaleData(locale);\n  checkFullData(data);\n  var /** @type {?} */ dayPeriodsData
= /** @type {?} */ ([\n    data[18 /* ExtraData */][0 /* ExtraDayPeriodFormats */],\n    data[18 /* ExtraData
*/][1 /* ExtraDayPeriodStandalone */]\n  ]);\n  var /** @type {?} */ dayPeriods =
getLocaleLastDefinedValue(dayPeriodsData, formStyle) || [];\n  return getLocaleLastDefinedValue(dayPeriods, width) ||
[];\n\n/**\n * Returns the first value that is defined in an array, going backwards.\n *\n * To avoid repeating the
same data (e.g. when "format" and "standalone" are the same) we only\n * add the first one to the locale data
arrays, the other ones are only defined when different.\n * We use this function to retrieve the first defined value.\n
*\n * @experimental i18n support is experimental.\n * @template T\n * @param {?} data\n * @param {?} index\n
* @return {?}\n *\nfunction getLocaleLastDefinedValue(data, index) {\n  for (var /** @type {?} */ i = index; i > -1; i--)
{\n    if (typeof data[i] !== 'undefined') {\n      return data[i];\n    }\n  }\n  throw new Error('Locale data
API: locale data undefined');\n\n/**\n * Extract the hours and minutes from a string like "15:45"\n * @param {?}
time\n * @return {?}\n *\nfunction extractTime(time) {\n  var _a = time.split(':'), h = _a[0], m = _a[1];\n  return
{ hours: +h, minutes: +m };\n\n/**\n * Finds the locale data for a locale id\n *\n * @experimental i18n support is
experimental.\n * @param {?} locale\n * @return {?}\n *\nfunction findLocaleData(locale) {\n  var /** @type
{?} */ normalizedLocale = locale.toLowerCase().replace(/_/g, '-');\n  var /** @type {?} */ match =
LOCALE_DATA[normalizedLocale];\n  if (match) {\n    return match;\n  }\n  // let's try to find a parent
locale\n  var /** @type {?} */ parentLocale = normalizedLocale.split('-')[0];\n  match =
LOCALE_DATA[parentLocale];\n  if (match) {\n    return match;\n  }\n  if (parentLocale === 'en') {\n
return localeEn;\n  }\n  throw new Error("Missing locale data for the locale \"" + locale + "\"");\n\n/**\n *
Return the currency symbol for a given currency code, or the code if no symbol available\n * (e.g.: format narrow =
$, format wide = US$, code = USD)\n *\n * @experimental i18n support is experimental.\n * @param {?} code\n
* @param {?} format\n * @return {?}\n *\nfunction getCurrencySymbol(code, format) {\n  var /** @type {?} */
currency = CURRENCIES[code] || [];\n  var /** @type {?} */ symbolNarrow = currency[1];\n  if (format ===
'narrow' && typeof symbolNarrow === 'string') {\n    return symbolNarrow;\n  }\n  return currency[0] ||
code;\n\n/**\n * @fileoverview added by tsickle\n * @suppress {checkTypes} checked by tsc\n *\n * @license\n *
Copyright Google Inc. All Rights Reserved.\n *\n * Use of this source code is governed by an MIT-
style license that can be\n * found in the LICENSE file at https://angular.io/license\n *\n * @deprecated from
v5\n *\nvar DEPRECATED_PLURAL_FN = new InjectionToken('UseV4Plurals');\n\n/**\n * @experimental\n *
@abstract\n *\nvar NgLocalization = /** @class */ (function () {\n  function NgLocalization() {\n  }\n  return
NgLocalization;\n})();\n\n/**\n * Returns the plural category for a given value.\n * - "="value" when the case
exists,\n * - the plural category otherwise\n * @param {?} value\n * @param {?} cases\n * @param {?}
ngLocalization\n * @param {?=} locale\n * @return {?}\n *\nfunction getPluralCategory(value, cases,
ngLocalization, locale) {\n  var /** @type {?} */ key = "=" + value;\n  if (cases.indexOf(key) > -1) {\n
return key;\n  }\n  key = ngLocalization.getPluralCategory(value, locale);\n  if (cases.indexOf(key) > -1) {\n
return key;\n  }\n  if (cases.indexOf('other') > -1) {\n    return 'other';\n  }\n  throw new Error("No plural
message found for value \"" + value + "\"");\n\n/**\n * Returns the plural case based on the locale\n *\n *
@experimental\n *\nvar NgLocaleLocalization = /** @class */ (function (_super) {\n

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__extends(NgLocaleLocalization, _super);\n  function NgLocaleLocalization(locale, /** @deprecated from v5 */\n    deprecatedPluralFn) {\n    var _this = _super.call(this) || this;\n    _this.locale = locale;\n    _this.deprecatedPluralFn = deprecatedPluralFn;\n    return _this;\n  }\n  /**\n   * @param {?} value\n   * @param {?=} locale\n   * @return {?}\n   */\n  NgLocaleLocalization.prototype.getPluralCategory = /**\n   * @param {?} value\n   * @param {?=} locale\n   * @return {?}\n   */\n  function (value, locale) {\n    var /**\n   * @type {?} */ plural = this.deprecatedPluralFn ? this.deprecatedPluralFn(locale || this.locale, value) : \n    getLocalePluralCase(locale || this.locale)(value);\n    switch (plural) {\n      case Plural.Zero:\n        return 'zero';\n      case Plural.One:\n        return 'one';\n      case Plural.Two:\n        return 'two';\n      case Plural.Few:\n        return 'few';\n      case Plural.Many:\n        return 'many';\n      default:\n        return 'other';\n    }\n  };\n  NgLocaleLocalization.decorators = [\n    { type: Injectable },\n  ];\n  /**\n   * @nocollapse */\n  NgLocaleLocalization.ctorParameters = function () { return [\n    { type: undefined, decorators: [{ type: Inject, args: [LOCALE_ID,] },] },\n    { type: undefined, decorators: [{ type: Optional }, { type: Inject, args: [DEPRECATED_PLURAL_FN,] },] },\n  ]; }; \n  return NgLocaleLocalization;\n})(NgLocalization));\n\n/**\n * Returns the plural case based on the locale\n */\n\n@deprecated from v5 the plural case function is in locale data files common/locales/*.ts\n * @@experimental\n * @param {?} locale\n * @param {?} nLike\n * @return {?}\n */\nfunction getPluralCase(locale, nLike) {\n  //\n  // TODO(vicb): lazy compute\n  if (typeof nLike === 'string') {\n    nLike = parseInt(/** @type {?} */ (nLike), 10);\n  }\n  var /** @type {?} */ n = /** @type {?} */ (nLike);\n  var /** @type {?} */ nDecimal = n.toString().replace(/^[^.]*/, '');\n  var /** @type {?} */ i = Math.floor(Math.abs(n));\n  var /** @type {?} */ v = nDecimal.length;\n  var /** @type {?} */ f = parseInt(nDecimal, 10);\n  var /** @type {?} */ t = parseInt(n.toString().replace(/^[^.]*/0+$/g, ''), 10) || 0;\n  var /** @type {?} */ lang = locale.split('-')[0].toLowerCase();\n  switch (lang) {\n    case 'af':\n      case 'asa':\n      case 'az':\n      case 'bem':\n      case 'bez':\n      case 'bg':\n      case 'brx':\n      case 'ce':\n      case 'cgg':\n      case 'chr':\n      case 'ckb':\n      case 'ee':\n      case 'el':\n      case 'eo':\n      case 'es':\n      case 'eu':\n      case 'fo':\n      case 'fur':\n      case 'gsw':\n      case 'ha':\n      case 'haw':\n      case 'hu':\n      case 'jgo':\n      case 'jmc':\n      case 'ka':\n      case 'kk':\n      case 'kkj':\n      case 'kl':\n      case 'ks':\n      case 'ksb':\n      case 'ky':\n      case 'lb':\n      case 'lg':\n      case 'mas':\n      case 'mgo':\n      case 'ml':\n      case 'mn':\n      case 'nb':\n      case 'nd':\n      case 'ne':\n      case 'nn':\n      case 'nnh':\n      case 'nyn':\n      case 'om':\n      case 'or':\n      case 'os':\n      case 'ps':\n      case 'rm':\n      case 'rof':\n      case 'rwk':\n      case 'saq':\n      case 'seh':\n      case 'sn':\n      case 'so':\n      case 'sq':\n      case 'ta':\n      case 'te':\n      case 'teo':\n      case 'tk':\n      case 'tr':\n      case 'ug':\n      case 'uz':\n      case 'vo':\n      case 'vun':\n      case 'wae':\n      case 'xog':\n      if (n === 1)\n        return Plural.One;\n      case 'ak':\n      case 'ln':\n      case 'mg':\n      case 'pa':\n      case 'ti':\n      if (n === Math.floor(n) && n >= 0 && n <= 1)\n        return Plural.One;\n      return Plural.Other;\n      case 'am':\n      case 'as':\n      case 'bn':\n      case 'fa':\n      case 'gu':\n      case 'hi':\n      case 'kn':\n      case 'mr':\n      case 'zu':\n      if (i === 0 || n === 1)\n        return Plural.One;\n      return Plural.Other;\n      case 'ar':\n      if (n === 0)\n        return Plural.Zero;\n      if (n === 1)\n        return Plural.One;\n      if (n === 2)\n        return Plural.Two;\n      if (n % 100 === Math.floor(n % 100) && n % 100 >= 3 && n % 100 <= 10)\n        return Plural.Few;\n      if (n % 100 === Math.floor(n % 100) && n % 100 >= 11 && n % 100 <= 99)\n        return Plural.Many;\n      return Plural.Other;\n      case 'ast':\n      case 'ca':\n      case 'de':\n      case 'en':\n      case 'et':\n      case 'fi':\n      case 'fy':\n      case 'gl':\n      case 'it':\n      case 'nl':\n      case 'sv':\n      case 'sw':\n      case 'ur':\n      case 'yi':\n      if (i === 1 && v === 0)\n        return Plural.One;\n      return Plural.Other;\n      case 'be':\n      if (n % 10 === 1 && !(n % 100 === 11))\n        return Plural.One;\n      if (n % 10 === Math.floor(n % 10) && n % 10 >= 2 && n % 10 <= 4 && !(n % 100 >= 12 && n % 100 <= 14))\n        return Plural.Few;\n      if (n % 10 === 0 || n % 10 === Math.floor(n % 10) && n % 10 >= 5 && n % 10 <= 9 || n % 100 === Math.floor(n % 100) && n % 100 >= 11 && n % 100 <= 14)\n        return Plural.Many;\n      return Plural.Other;\n      case 'br':\n      if (n % 10 === 1 && !(n % 100 === 11 || n % 100 === 71 || n % 100 === 91))\n        return Plural.One;\n      if (n % 10 === 2 && !(n % 100 === 12 || n % 100 === 72 || n % 100

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=== 92))\n        return Plural.Two;\n        if (n % 10 === Math.floor(n % 10) && (n % 10 >= 3 && n % 10
<= 4 || n % 10 === 9) &&\n            !(n % 100 >= 10 && n % 100 <= 19 || n % 100 >= 70 && n % 100 <= 79 ||\n                n % 100 >= 90 && n % 100 <= 99))\n            return Plural.Few;\n        if (!(n === 0) && n % 1e6
=== 0)\n            return Plural.Many;\n            return Plural.Other;\n            case 'bs':\n            case 'hr':\n            case 'sr':\n            if (v === 0 && i % 10 === 1 && !(i % 100 === 11) || f % 10 === 1 && !(f % 100 === 11))\n                return
Plural.One;\n            if (v === 0 && i % 10 === Math.floor(i % 10) && i % 10 >= 2 && i % 10 <= 4 &&\n                !(i % 100 >= 12 && i % 100 <= 14) ||\n                    f % 10 === Math.floor(f % 10) && f % 10 >= 2 && f % 10 <= 4
&&\n                        !(f % 100 >= 12 && f % 100 <= 14))\n                return Plural.Few;\n                return Plural.Other;\n                case 'cs':\n                case 'sk':\n                if (i === 1 && v === 0)\n                    return Plural.One;\n                    if (i ===
Math.floor(i) && i >= 2 && i <= 4 && v === 0)\n                        return Plural.Few;\n                        if (!(v === 0))\n                            return
Plural.Many;\n                            return Plural.Other;\n                            case 'cy':\n                            if (n === 0)\n                                return
Plural.Zero;\n                                if (n === 1)\n                                    return Plural.One;\n                                    if (n === 2)\n                                        return Plural.Two;\n                                        if (n === 3)\n                                            return Plural.Few;\n                                            if (n === 6)\n                                                return Plural.Many;\n                                                return
Plural.Other;\n                                                case 'da':\n                                                if (n === 1 || !(t === 0) && (i === 0 || i === 1))\n                                                    return
Plural.One;\n                                                    return Plural.Other;\n                                                    case 'dsb':\n                                                    case 'hsb':\n                                                    if (v === 0 && i % 100 === 1 ||
f % 100 === 1)\n                                                        return Plural.One;\n                                                        if (v === 0 && i % 100 === 2 || f % 100 === 2)\n                                                            return
Plural.Two;\n                                                            if (v === 0 && i % 100 === Math.floor(i % 100) && i % 100 >= 3 && i % 100 <= 4
||\n                                                                f % 100 === Math.floor(f % 100) && f % 100 >= 3 && f % 100 <= 4)\n                                                                    return Plural.Few;\n                                                                    return
Plural.Other;\n                                                                    case 'ff':\n                                                                    case 'fr':\n                                                                    case 'hy':\n                                                                    case 'kab':\n                                                                    if (i === 0 || i ===
1)\n                                                                        return Plural.One;\n                                                                        return Plural.Other;\n                                                                        case 'fil':\n                                                                        if (v === 0 && (i === 1 || i
=== 2 || i === 3) ||\n                                                                            v === 0 && !(i % 10 === 4 || i % 10 === 6 || i % 10 === 9) ||\n                                                                                !(v === 0)
&& !(f % 10 === 4 || f % 10 === 6 || f % 10 === 9))\n                                                                                    return Plural.One;\n                                                                                    return Plural.Other;\n                                                                                    case 'ga':\n                                                                                    if (n === 1)\n                                                                                        return Plural.One;\n                                                                                        if (n === 2)\n                                                                                            return Plural.Two;\n                                                                                            if (n === Math.floor(n) && n >= 3 && n <= 6)\n                                                                                                return Plural.Few;\n                                                                                                if (n === Math.floor(n)
&& n >= 7 && n <= 10)\n                                                                                                    return Plural.Many;\n                                                                                                    return Plural.Other;\n                                                                                                    case 'gd':\n                                                                                                    if (n
=== 1 || n === 11)\n                                                                                                        return Plural.One;\n                                                                                                        if (n === 2 || n === 12)\n                                                                                                            return Plural.Two;\n                                                                                                            if (n === Math.floor(n) && (n >= 3 && n <= 10 || n >= 13 && n <= 19))\n                                                                                                                return Plural.Few;\n                                                                                                                return Plural.Other;\n                                                                                                                case 'gv':\n                                                                                                                if (v === 0 && i % 10 === 1)\n                                                                                                                    return Plural.One;\n                                                                                                                    if
(v === 0 && i % 10 === 2)\n                                                                                                                        return Plural.Two;\n                                                                                                                        if (v === 0 &&\n                                                                                                                            (i % 100 === 0 || i %
100 === 20 || i % 100 === 40 || i % 100 === 60 || i % 100 === 80))\n                                                                                                                            return Plural.Few;\n                                                                                                                            if (!(v
=== 0))\n                                                                                                                                return Plural.Many;\n                                                                                                                                return Plural.Other;\n                                                                                                                                case 'he':\n                                                                                                                                if (i === 1 && v ===
0)\n                                                                                                                                    return Plural.One;\n                                                                                                                                    if (i === 2 && v === 0)\n                                                                                                                                        return Plural.Two;\n                                                                                                                                        if (v === 0
&& !(n >= 0 && n <= 10) && n % 10 === 0)\n                                                                                                                                            return Plural.Many;\n                                                                                                                                            return Plural.Other;\n                                                                                                                                            case 'is':\n                                                                                                                                            if (t === 0 && i % 10 === 1 && !(i % 100 === 11) || !(t === 0))\n                                                                                                                                                return Plural.One;\n                                                                                                                                                return Plural.Other;\n                                                                                                                                                case 'ksh':\n                                                                                                                                                if (n === 0)\n                                                                                                                                                    return Plural.Zero;\n                                                                                                                                                    if (n === 1)\n                                                                                                                                                        return Plural.One;\n                                                                                                                                                        return Plural.Other;\n                                                                                                                                                case 'kw':\n                                                                                                                                                case 'naq':\n                                                                                                                                                case 'se':\n                                                                                                                                                case
'smn':\n                                                                                                                                                if (n === 1)\n                                                                                                                                                    return Plural.One;\n                                                                                                                                                    if (n === 2)\n                                                                                                                                                        return Plural.Two;\n                                                                                                                                                        return Plural.Other;\n                                                                                                                                                case 'lag':\n                                                                                                                                                if (n === 0)\n                                                                                                                                                    return Plural.Zero;\n                                                                                                                                                    if ((i === 0 || i ===
1) && !(n === 0))\n                                                                                                                                                        return Plural.One;\n                                                                                                                                                        return Plural.Other;\n                                                                                                                                                case 'lt':\n                                                                                                                                                if (n % 10 ===
1 && !(n % 100 >= 11 && n % 100 <= 19))\n                                                                                                                                                    return Plural.One;\n                                                                                                                                                    if (n % 10 === Math.floor(n %
10) && n % 10 >= 2 && n % 10 <= 9 &&\n                                                                                                                                                        !(n % 100 >= 11 && n % 100 <= 19))\n                                                                                                                                                            return
Plural.Few;\n                                                                                                                                                            if (!(f === 0))\n                                                                                                                                                                return Plural.Many;\n                                                                                                                                                                return Plural.Other;\n                                                                                                                                                                case 'lv':\n                                                                                                                                                                if (n % 10 === 0 || n % 100 === Math.floor(n % 100) && n % 100 >= 11 && n % 100 <= 19 ||\n                                                                                                                                                                    v === 2 && f % 100 === Math.floor(f % 100) && f % 100 >= 11 && f % 100 <= 19)\n                                                                                                                                                                        return
Plural.Zero;\n                                                                                                                                                                        if (n % 10 === 1 && !(n % 100 === 11) || v === 2 && f % 10 === 1 && !(f % 100 === 11)
||\n                                                                                                                                                                            !(v === 2) && f % 10 === 1)\n                                                                                                                                                                                return Plural.One;\n                                                                                                                                                                                return Plural.Other;\n                                                                                                                                                                                case
'mk':\n                                                                                                                                                                                if (v === 0 && i % 10 === 1 || f % 10 === 1)\n                                                                                                                                                                                    return Plural.One;\n                                                                                                                                                                                    return
Plural.Other;\n                                                                                                                                                                                    case 'mt':\n                                                                                                                                                                                    if (n === 1)\n                                                                                                                                                                                        return Plural.One;\n                                                                                                                                                                                        if (n === 0 || n % 100 ===

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Math.floor(n % 100) && n % 100 >= 2 && n % 100 <= 10)\n        return Plural.Few;\n        if (n % 100 ===
Math.floor(n % 100) && n % 100 >= 11 && n % 100 <= 19)\n        return Plural.Many;\n        return
Plural.Other;\n        case 'pl':\n        if (i === 1 && v === 0)\n        return Plural.One;\n        if (v === 0
&& i % 10 === Math.floor(i % 10) && i % 10 >= 2 && i % 10 <= 4 && n
!(i % 100 >= 12 && i % 100
<= 14))\n        return Plural.Few;\n        if (v === 0 && !(i === 1) && i % 10 === Math.floor(i % 10) && i
% 10 >= 0 && i % 10 <= 1 ||\n        v === 0 && i % 10 === Math.floor(i % 10) && i % 10 >= 5 && i % 10
<= 9 ||\n        v === 0 && i % 100 === Math.floor(i % 100) && i % 100 >= 12 && i % 100 <= 14)\n
return Plural.Many;\n        return Plural.Other;\n        case 'pt':\n        if (n === Math.floor(n) && n >= 0 && n
<= 2 && !(n === 2))\n        return Plural.One;\n        return Plural.Other;\n        case 'ro':\n        if (i === 1
&& v === 0)\n        return Plural.One;\n        if (!(v === 0) || n === 0 ||\n        !(n === 1) && n % 100
=== Math.floor(n % 100) && n % 100 >= 1 && n % 100 <= 19)\n        return Plural.Few;\n        return
Plural.Other;\n        case 'ru':\n        case 'uk':\n        if (v === 0 && i % 10 === 1 && !(i % 100 === 11))\n
return Plural.One;\n        if (v === 0 && i % 10 === Math.floor(i % 10) && i % 10 >= 2 && i % 10 <= 4 && n
!(i % 100 >= 12 && i % 100 <= 14))\n        return Plural.Few;\n        if (v === 0 && i % 10 === 0
||\n        v === 0 && i % 10 === Math.floor(i % 10) && i % 10 >= 5 && i % 10 <= 9 ||\n        v === 0
&& i % 100 === Math.floor(i % 100) && i % 100 >= 11 && i % 100 <= 14)\n        return Plural.Many;\n
return Plural.Other;\n        case 'shi':\n        if (i === 0 || n === 1)\n        return Plural.One;\n        if (n ===
Math.floor(n) && n >= 2 && n <= 10)\n        return Plural.Few;\n        return Plural.Other;\n        case 'si':\n
if (n === 0 || n === 1 || i === 0 && f === 1)\n        return Plural.One;\n        return Plural.Other;\n
case 'sl':\n        if (v === 0 && i % 100 === 1)\n        return Plural.One;\n        if (v === 0 && i % 100
=== 2)\n        return Plural.Two;\n        if (v === 0 && i % 100 === Math.floor(i % 100) && i % 100 >= 3
&& i % 100 <= 4 || !(v === 0))\n        return Plural.Few;\n        return Plural.Other;\n        case 'tzm':\n
if (n === Math.floor(n) && n >= 0 && n <= 1 || n === Math.floor(n) && n >= 11 && n <= 99)\n        return
Plural.One;\n        return Plural.Other;\n        // When there is no specification, the default is always \"other\"\n
// Spec: http://cldr.unicode.org/index/cldr-spec/plural-rules\n        // > other (required—general plural form — also
used if the language only has a single form)\n        default:\n        return Plural.Other;\n        }\n}\n\n/**\n *
@fileoverview added by tsickle\n * @suppress {checkTypes} checked by tsc\n */\n\n/**\n * @license\n * Copyright
Google Inc. All Rights Reserved.\n * Use of this source code is governed by an MIT-style license that can be\n *
found in the LICENSE file at https://angular.io/license\n */\n\n * @param {?} cookieStr\n * @param {?} name\n * @return {?} }\n */\nfunction parseCookieValue(cookieStr, name) {\n  name = encodeURIComponent(name);\n  for (var _i = 0, _a = cookieStr.split(';'); _i < _a.length; _i++) {\n    var cookie = _a[_i];\n    var /** @type {?} */\n    eqIndex = cookie.indexOf('=');\n    var _b = eqIndex === -1 ? [cookie, ''] : [cookie.slice(0, eqIndex),\n    cookie.slice(eqIndex + 1)],\n    cookieName = _b[0],\n    cookieValue = _b[1];\n    if (cookieName.trim() === name) {\n      return decodeURIComponent(cookieValue);\n    }\n  }\n  return null;\n}\n\n/**\n * @fileoverview added
by tsickle\n * @suppress {checkTypes} checked by tsc\n */\n\n/**\n * @license\n * Copyright Google Inc. All Rights
Reserved.\n * Use of this source code is governed by an MIT-style license that can be\n * found in the
LICENSE file at https://angular.io/license\n */\n\n * @ngModule CommonModule\n */\n * @@whatItDoes\n Adds and removes CSS classes on an HTML element.\n * @@howToUse\n * ```\n * <some-element\n [ngClass]="['first second']">...</some-element>\n * \n * <some-element [ngClass]="['first', 'second']">...</some-
element>\n * \n * <some-element [ngClass]="{'first': true, 'second': true, 'third': false}">...</some-element>\n * \n * <some-element [ngClass]="stringExp|arrayExp|objExp">...</some-element>\n * \n * <some-element\n [ngClass]="{'class1 class2 class3': true}">...</some-element>\n * ```\n */\n\n * @@description\n * The CSS
classes are updated as follows, depending on the type of the expression evaluation:\n * - `string` - the CSS classes
listed in the string (space delimited) are added,\n * - `Array` - the CSS classes declared as Array elements are
added,\n * - `Object` - keys are CSS classes that get added when the expression given in the value\n *
evaluates to a truthy value, otherwise they are removed.\n */\n\n * @@stable\n */\n\n * @class *\n */\n(function () {\n  function NgClass(_iterableDiffers, _keyValueDiffers, _ngEl, _renderer) {\n    this._iterableDiffers = _iterableDiffers;\n    this._keyValueDiffers = _keyValueDiffers;\n    this._ngEl =

```



```

_ngEl;\n    this._renderer = _renderer;\n    this._initialClasses = [];\n  }\n  Object.defineProperty(NgClass.prototype, '"class"', {\n    set: /**\n * @param {?} v\n * @return {?}\n */\n    function (v) {\n      this._applyInitialClasses(true);\n      this._initialClasses = typeof v ===\n      'string' ? v.split(/\s+/) : [];\n      this._applyInitialClasses(false);\n      this._applyClasses(this._rawClass,\n      false);\n    },\n    enumerable: true,\n    configurable: true\n  });\n  Object.defineProperty(NgClass.prototype, '"ngClass"', {\n    set: /**\n * @param {?} v\n * @return\n {?}\n */\n    function (v) {\n      this._cleanupClasses(this._rawClass);\n      this._iterableDiffer =\n      null;\n      this._keyValueDiffer = null;\n      this._rawClass = typeof v === 'string' ? v.split(/\s+/) : v;\n      if (this._rawClass) {\n        if (isListLikeIterable(this._rawClass)) {\n          this._iterableDiffer =\n          this._iterableDiffer.find(this._rawClass).create();\n        } else {\n          this._keyValueDiffer =\n          this._keyValueDiffer.find(this._rawClass).create();\n        }\n      }\n      enumerable: true,\n      configurable: true\n    });\n    /**\n * @return {?}\n */\n    NgClass.prototype.ngDoCheck = /**\n * @return\n {?}\n */\n    function () {\n      if (this._iterableDiffer) {\n        var /** @type {?} */ iterableChanges =\n        this._iterableDiffer.diff(/** @type {?} */ (this._rawClass));\n        if (iterableChanges) {\n          this._applyIterableChanges(iterableChanges);\n        }\n      } else if (this._keyValueDiffer) {\n        var\n        /** @type {?} */ keyValueChanges = this._keyValueDiffer.diff(/** @type {?} */ (this._rawClass));\n        if\n        (keyValueChanges) {\n          this._applyKeyValueChanges(keyValueChanges);\n        }\n      }\n      /**\n * @param {?} rawClassVal\n * @return {?}\n */\n      NgClass.prototype._cleanupClasses = /**\n * @param {?} rawClassVal\n * @return {?}\n */\n      function (rawClassVal) {\n        this._applyClasses(rawClassVal, true);\n        this._applyInitialClasses(false);\n      };\n      /**\n * @param {?} changes\n * @return {?}\n */\n      NgClass.prototype._applyKeyValueChanges = /**\n * @param {?} changes\n * @return {?}\n */\n      function (changes) {\n        var _this = this;\n        changes.forEachAddedItem(function (record) { return _this._toggleClass(record.key, record.currentValue); });\n        changes.forEachChangedItem(function (record) { return _this._toggleClass(record.key, record.currentValue); });\n        changes.forEachRemovedItem(function (record) {\n          if (record.previousValue) {\n            _this._toggleClass(record.key, false);\n          }\n        });\n      };\n      /**\n * @param {?} changes\n * @return {?}\n */\n      NgClass.prototype._applyIterableChanges = /**\n * @param {?} changes\n * @return {?}\n */\n      function (changes) {\n        var _this = this;\n        changes.forEachAddedItem(function (record) {\n          if\n          (typeof record.item === 'string') {\n            _this._toggleClass(record.item, true);\n          } else {\n            throw new Error('"NgClass can only toggle CSS classes expressed as strings, got \'' + stringify(record.item));\n          }\n        });\n        changes.forEachRemovedItem(function (record) { return _this._toggleClass(record.item,\n        false); });\n      };\n      /**\n * @param {?} isCleanup\n * @return {?}\n */\n      NgClass.prototype._applyInitialClasses = /**\n * @param {?} isCleanup\n * @return {?}\n */\n      function\n      (isCleanup) {\n        var _this = this;\n        this._initialClasses.forEach(function (klass) { return\n        _this._toggleClass(klass, !isCleanup); });\n      };\n      /**\n * @param {?} rawClassVal\n * @param {?} isCleanup\n * @return {?}\n */\n      NgClass.prototype._applyClasses = /**\n * @param {?} rawClassVal\n * @param {?} isCleanup\n * @return {?}\n */\n      function (rawClassVal, isCleanup) {\n        var _this =\n        this;\n        if (rawClassVal) {\n          if (Array.isArray(rawClassVal) || rawClassVal instanceof Set) {\n            (/** @type {?} */ (rawClassVal)).forEach(function (klass) { return _this._toggleClass(klass, !isCleanup); });\n          }\n          else {\n            Object.keys(rawClassVal).forEach(function (klass) {\n              if\n              (rawClassVal[klass] != null) {\n                _this._toggleClass(klass, !isCleanup);\n              }\n            });\n          }\n        }\n      };\n      /**\n * @param {?} klass\n * @param {?} enabled\n * @return {?}\n */\n      NgClass.prototype._toggleClass = /**\n * @param {?} klass\n * @param {?} enabled\n * @return {?}\n */\n      function (klass, enabled) {\n        var _this = this;\n        klass = klass.trim();\n        if (klass) {\n          klass.split(/\s+/g).forEach(function (klass) {\n            if (enabled) {\n              _this._renderer.addClass(_this._ngEl.nativeElement, klass);\n            } else {\n              _this._renderer.removeClass(_this._ngEl.nativeElement, klass);\n            }\n          });\n        }\n      };\n      NgClass.decorators = [\n        { type: Directive, args: [{ selector: '[ngClass]' }, ] },\n      ];\n      /** @nocollapse */\n
```

```

NgClass.ctorParameters = function () { return [\n    { type: IterableDiffers, },\n    { type: KeyValueDiffers, },\n    { type: ElementRef, },\n    { type: Renderer2, },\n    ];};\n NgClass.propDecorators = {\n    \"class\": [{\n    type: Input, args: ['class'], },],\n    \"ngClass\": [{ type: Input },],\n    };;\n return NgClass;\n})();\n\n/n/n/**\n * @fileoverview added by tsickle\n * @suppress {checkTypes} checked by tsc\n */\n\n * @license\n * Copyright\n * Google Inc. All Rights Reserved.\n * Use of this source code is governed by an MIT-style license that can be\n * found in the LICENSE file at https://angular.io/license\n */\n\n * Instantiates a single {@link Component} type\n * and inserts its Host View into current View.\n * `NgComponentOutlet` provides a declarative approach for dynamic\n * component creation.\n * `NgComponentOutlet` requires a component type, if a falsy value is set the view will\n * clear and\n * any existing component will get destroyed.\n * ### Fine tune control\n * You can control the\n * component creation process by using the following optional attributes:\n * `ngComponentOutletInjector`:\n * Optional custom {@link Injector} that will be used as parent for\n * the Component. Defaults to the injector of the\n * current view container.\n * `ngComponentOutletContent`: Optional list of projectable nodes to insert into the\n * content\n * section of the component, if exists.\n * `ngComponentOutletNgModuleFactory`: Optional module\n * factory to allow dynamically loading other\n * module, then load a component from that module.\n * ###\n * Syntax\n * Simple\n * <ng-container *ngComponentOutlet=\"componentTypeExpression\"></ng-\n * container>\n * Customized injector/content\n * <ng-container\n * *ngComponentOutlet=\"componentTypeExpression;\n * injector: injectorExpression;\n * content: contentNodesExpression;\">\n * </ng-container>\n * Customized\n * ngNgModuleFactory\n * <ng-container *ngComponentOutlet=\"componentTypeExpression;\n * ngNgModuleFactory: moduleFactory;\">\n * </ng-container>\n * ## Example\n * @example\n * common/ngComponentOutlet/ts/module.ts region='SimpleExample'\n * A more complete example with\n * additional options:\n * @example common/ngComponentOutlet/ts/module.ts region='CompleteExample'\n * A more complete example with ngNgModuleFactory:\n * @example common/ngComponentOutlet/ts/module.ts\n * region='NgModuleFactoryExample'\n * @experimental\n * nvar NgComponentOutlet = /** @class */\n * (function () {\n *   function NgComponentOutlet(_viewContainerRef) {\n *     this._viewContainerRef =\n *       _viewContainerRef;\n *     this._componentRef = null;\n *     this._moduleRef = null;\n *   }\n *   /**\n *    * @param\n *    {?} changes\n *    * @return {?}\n *    */\n *   NgComponentOutlet.prototype.ngOnChanges = /**\n *    * @param {?}\n *    changes\n *    * @return {?}\n *    */\n *   function (changes) {\n *     this._viewContainerRef.clear();\n *     this._componentRef = null;\n *     if (this.ngComponentOutlet) {\n *       var /** @type {?} */ eInjector =\n *         this.ngComponentOutletInjector || this._viewContainerRef.parentInjector;\n *       if\n *         (changes['ngComponentOutletNgModuleFactory']) {\n *         if (this._moduleRef)\n *           this._moduleRef.destroy();\n *         if (this.ngComponentOutletNgModuleFactory) {\n *           var /** @type\n *             {?} */ parentModule = eInjector.get(NgModuleRef);\n *           this._moduleRef =\n *             this.ngComponentOutletNgModuleFactory.create(parentModule.injector);\n *         }\n *       } else {\n *         this._moduleRef = null;\n *       }\n *     }\n *     var /** @type {?} */ componentFactoryResolver =\n *       this._moduleRef ? this._moduleRef.componentFactoryResolver : \n *       eInjector.get(ComponentFactoryResolver);\n *     var /** @type {?} */ componentFactory =\n *       componentFactoryResolver.resolveComponentFactory(this.ngComponentOutlet);\n *     this._componentRef =\n *       this._viewContainerRef.createComponent(componentFactory, this._viewContainerRef.length, eInjector,\n *       this.ngComponentOutletContent);\n *   }\n *   /**\n *    * @return {?}\n *    */\n *   NgComponentOutlet.prototype.ngOnDestroy = /**\n *    * @return {?}\n *    */\n *   function () {\n *     if\n *       (this._moduleRef)\n *       this._moduleRef.destroy();\n *   };\n *   NgComponentOutlet.decorators = [\n *     { type:\n *       Directive, args: [{ selector: '[ngComponentOutlet]', },], },\n *     ];\n *   /** @nocollapse */\n *   NgComponentOutlet.ctorParameters = function () { return [\n *     { type: ViewContainerRef, },\n *     ];};\n *   NgComponentOutlet.propDecorators = {\n *     \"ngComponentOutlet\": [{ type: Input },],\n *     \"ngComponentOutletInjector\": [{ type: Input },],\n *     \"ngComponentOutletContent\": [{ type: Input },],\n *     \"ngComponentOutletNgModuleFactory\": [{ type: Input },],\n *     };;\n *   return NgComponentOutlet;\n * })();\n * \n * @fileoverview added by tsickle\n * @suppress {checkTypes} checked by tsc\n */\n\n * @license\n * Copyright\n * Google Inc. All Rights Reserved.\n * Use of this source code is governed by an MIT-style license that can be\n * found in the LICENSE file at https://angular.io/license\n */

```

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```

@stable
nvar NgForOfContext
= /** @class */ (function () {
  function NgForOfContext($implicit, ngForOf, index, count) {
    this.$implicit = $implicit;
    this.ngForOf = ngForOf;
    this.index = index;
    this.count = count;
  }
  Object.defineProperty(NgForOfContext.prototype, "first", {
    get: /**
     * @return {?}
     */
    function () { return this.index === 0; },
    enumerable: true,
    configurable: true
  });
  Object.defineProperty(NgForOfContext.prototype, "last", {
    get: /**
     * @return {?}
     */
    function () { return this.index === this.count - 1; },
    enumerable: true,
    configurable: true
  });
  Object.defineProperty(NgForOfContext.prototype, "even", {
    get: /**
     * @return {?}
     */
    function () { return this.index % 2 === 0; },
    enumerable: true,
    configurable: true
  });
  Object.defineProperty(NgForOfContext.prototype, "odd", {
    get: /**
     * @return {?}
     */
    function () { return !this.even; },
    enumerable: true,
    configurable: true
  });
  return NgForOfContext;
})();

```

The `NgForOf` directive instantiates a template once per item from an iterable. The context for each instantiated template inherits from the outer context with the given loop variable set to the current item from the iterable.

Local Variables

`NgForOf` provides several exported values that can be aliased to local variables:

- `$implicit: T`: The value of the individual items in the iterable (`ngForOf`).
- `ngForOf: NgIterable<T>`: The value of the iterable expression. Useful when the expression is more complex than a property access, for example when using the async pipe (`userStreams | async`).
- `index: number`: The index of the current item in the iterable.
- `first: boolean`: True when the item is the first item in the iterable.
- `last: boolean`: True when the item is the last item in the iterable.
- `even: boolean`: True when the item has an even index in the iterable.
- `odd: boolean`: True when the item has an odd index in the iterable.

```

<li *ngFor="let user of userObservable | async as users; index as i; first as isFirst">
  {{i}} / {{users.length}}. {{user}} <span *ngIf="isFirst">default</span>
</li>

```

Change Propagation

When the contents of the iterator changes, `NgForOf` makes the corresponding changes to the DOM:

- When an item is added, a new instance of the template is added to the DOM.
- When an item is removed, its template instance is removed from the DOM.
- When items are reordered, their respective templates are reordered in the DOM.
- Otherwise, the DOM element for that item will remain the same.

Angular uses object identity to track insertions and deletions within the iterator and reproduce those changes in the DOM. This has important implications for animations and any stateful controls (such as `<input>` elements which accept user input) that are present. Inserted rows can be animated in, deleted rows can be animated out, and unchanged rows retain any unsaved state such as user input.

It is possible for the identities of elements in the iterator to change while the data does not. This can happen, for example, if the iterator produced from an RPC to the server, and that RPC is re-run. Even if the data hasn't changed, the second response will produce objects with different identities, and Angular will tear down the entire DOM and rebuild it (as if all old elements were deleted and all new elements inserted). This is an expensive operation and should be avoided if possible.

To customize the default tracking algorithm, `NgForOf` supports `trackBy` option. `trackBy` takes a function which has two arguments: `index` and `item`. If `trackBy` is given, Angular tracks changes by the return value of the function.

Syntax

```

<li *ngFor="let item of items; index as i; trackBy: trackByFn">...</li>

```

With `<ng-template>` element:

```

<ng-template ngFor let-item [ngForOf]="items" let-i="index" [ngForTrackBy]="trackByFn">
  <li>...</li>
</ng-template>

```

Example

See a [live demo](http://plnkr.co/edit/KVuXxDp0qinGDyo307QW?p=preview) (<http://plnkr.co/edit/KVuXxDp0qinGDyo307QW?p=preview>) for a more detailed example.

```

@stable
nvar NgForOf = /** @class */ (function () {
  function NgForOf(_viewContainer, _template, _differs) {
    this._viewContainer = _viewContainer;
    this._template = _template;
    this._differs = _differs;
    this._differ = null;
  }
  Object.defineProperty(NgForOf.prototype, "ngForTrackBy", {
    get: /**
     * @return {?}
     */
    function () { return this._trackByFn; },
    set: /**
     * @param {?} fn
     * @return {?}
     */
    function (fn) {
      if (isDevMode() && fn != null && typeof fn !== 'function') {
        // TODO(vicb): use a log service once there is a public one available
        if (/** @type {?} */ (console) && /** @type {?} */

```

```

(console.warn)) {\n
    console.warn("\trackBy must be a function, but received \" + JSON.stringify(fn) +
\". \" +\n
    \"See https://angular.io/docs/ts/latest/api/common/index/NgFor-directive.html#!#change-
propagation for more information.\");\n
    }\n
    this._trackByFn = fn;\n
},\n
enumerable: true,\n
configurable: true\n
});\n
Object.defineProperty(NgForOf.prototype, \"ngForTemplate\",
{\n
    set: /**\n
    * @param {?} value\n
    * @return {?}\n
    */\n
    function (value) {\n
        //
        TODO(TS2.1): make TemplateRef<Partial<NgForRowOf<T>>> once we move to TS v2.1\n
        // The current
        type is too restrictive; a template that just uses index, for example,\n
        // should be acceptable.\n
        if
        (value) {\n
            this._template = value;\n
        }\n
    },\n
    enumerable: true,\n
    configurable: true\n
});\n
/**\n
    * @param {?} changes\n
    * @return {?}\n
    */\n
    NgForOf.prototype.ngOnChanges = /**\n
    *
    * @param {?} changes\n
    * @return {?}\n
    */\n
    function (changes) {\n
        if ('ngForOf' in changes) {\n
            //
            React on ngForOf changes only once all inputs have been initialized\n
            var /** @type {?} */ value =
            changes['ngForOf'].currentValue;\n
            if (!this._differ && value) {\n
                try {\n
                    this._differ =
                    this._differ.find(value).create(this.ngForTrackBy);\n
                }\n
                catch (/** @type {?} */ e) {\n
                    throw new Error(\"Cannot find a differ supporting object \" + value + \" of type \" +
                    getTypeNameForDebugging(value) + \". NgFor only supports binding to Iterables such as Arrays.\");\n
                }\n
            }\n
        }\n
    };
    /**\n
    * @return {?}\n
    */\n
    NgForOf.prototype.ngDoCheck = /**\n
    * @return
    {?}\n
    */\n
    function () {\n
        if (this._differ) {\n
            var /** @type {?} */ changes =
            this._differ.diff(this.ngForOf);\n
            if (changes)\n
                this._applyChanges(changes);\n
        }\n
    };
    /**\n
    * @param {?} changes\n
    * @return {?}\n
    */\n
    NgForOf.prototype._applyChanges = /**\n
    *
    * @param {?} changes\n
    * @return {?}\n
    */\n
    function (changes) {\n
        var _this = this;\n
        var /** @type
        {?} */ insertTuples = [];\n
        changes.forEachOperation(function (item, adjustedPreviousIndex, currentIndex) {\n
            if (item.previousIndex == null) {\n
                var /** @type {?} */ view =
                _this._viewContainer.createEmbeddedView(_this._template, new NgForOfContext(/** @type {?} */ ((null)),
                _this.ngForOf, -1, -1), currentIndex);\n
                var /** @type {?} */ tuple = new RecordViewTuple(item, view);\n
                insertTuples.push(tuple);\n
            }\n
            else if (currentIndex == null) {\n
                _this._viewContainer.remove(adjustedPreviousIndex);\n
            }\n
            else {\n
                var /** @type {?} */
                view = /** @type {?} */ ((_this._viewContainer.get(adjustedPreviousIndex)));\n
                _this._viewContainer.move(view, currentIndex);\n
                var /** @type {?} */ tuple = new
                RecordViewTuple(item, /** @type {?} */ (view));\n
                insertTuples.push(tuple);\n
            }\n
        });
        for (var /** @type {?} */ i = 0; i < insertTuples.length; i++) {\n
            this._perViewChange(insertTuples[i].view,
            insertTuples[i].record);\n
        }\n
        for (var /** @type {?} */ i = 0, /** @type {?} */ ilen =
        this._viewContainer.length; i < ilen; i++) {\n
            var /** @type {?} */ viewRef = /** @type {?} */
            (this._viewContainer.get(i));\n
            viewRef.context.index = i;\n
            viewRef.context.count = ilen;\n
        }\n
        changes.forEachIdentityChange(function (record) {\n
            var /** @type {?} */ viewRef = /** @type {?} */
            (_this._viewContainer.get(record.currentIndex));\n
            viewRef.context.$implicit = record.item;\n
        });
    };
    /**\n
    * @param {?} view\n
    * @param {?} record\n
    * @return {?}\n
    */\n
    NgForOf.prototype._perViewChange = /**\n
    * @param {?} view\n
    * @param {?} record\n
    * @return {?}\n
    */\n
    function (view, record) {\n
        view.context.$implicit = record.item;\n
    };
    NgForOf.decorators = [\n
    { type: Directive, args: [{ selector: '[ngFor][ngForOf]' }, ], },\n
    ];
    /** @nocollapse */\n
    NgForOf.ctorParameters = function () { return [\n
    { type: ViewContainerRef, },\n
    { type: TemplateRef, },\n
    { type: IterableDiffers, },\n
    ]; };
    NgForOf.propDecorators = {\n
    \"ngForOf\": [{ type: Input, },],\n
    \"ngForTrackBy\": [{ type: Input, },],\n
    \"ngForTemplate\": [{ type: Input, },],\n
    };
    return
    NgForOf;\n
})();
nvar RecordViewTuple = /** @class */ (function () {\n
    function RecordViewTuple(record, view)
    {\n
        this.record = record;\n
        this.view = view;\n
    }\n
    return RecordViewTuple;\n
})();
n/**\n
    * @param
    {?} type\n
    * @return {?}\n
    */\n
    function getTypeNameForDebugging(type) {\n
        return type['name'] || typeof
        type;\n
    }\n
    /**\n
    * @fileoverview added by tsickle\n
    * @suppress {checkTypes} checked by tsc\n
    */\n
    /**\n
    * Copyright Google Inc. All Rights Reserved.\n
    * Use of this source code is governed by an MIT-
    style license that can be\n
    * found in the LICENSE file at https://angular.io/license\n
    */\n
    /**\n
    * Conditionally

```

includes a template based on the value of an `expression`.
`ngIf` evaluates the `expression` and then renders the `then` or `else` template in its place when expression is truthy or falsy respectively. Typically the `then` template is the inline template of `ngIf` unless bound to a different value. The `else` template is blank unless it is bound.
Most common usage
The most common usage of the `ngIf` directive is to conditionally show the inline template as seen in this example:

```

<div *ngIf="condition">...</div>

```

Showing an alternative template using `else`
If it is necessary to display a template when the `expression` is falsy use the `else` template binding as shown. Note that the `else` binding points to a `` labeled `#elseBlock`.
The template can be defined anywhere in the component view but is typically placed right after `ngIf` for readability.

```

<div *ngIf="condition">...</div>
<ng-template #elseBlock>...</ng-template>

```

Using non-inlined `then` template
Usually the `then` template is the inlined template of the `ngIf`, but it can be changed using a binding (just like `else`). Because `then` and `else` are bindings, the template references can change at runtime as shown in this example.

```

<div *ngIf="condition">...</div>
<ng-template #thenBlock>...</ng-template>
<ng-template #elseBlock>...</ng-template>

```

Storing conditional result in a variable
A common pattern is that we need to show a set of properties from the same object. If the object is undefined, then we have to use the safe-traversal-operator `?.` to guard against dereferencing a `null` value. This is especially the case when waiting on async data such as when using the `async` pipe as shown in following example.

```

Hello {{ (userStream|async)?.last }}, {{ (userStream|async)?.first }}!

```

There are several inefficiencies in the above example:

- We create multiple subscriptions on `userStream`. One for each `async` pipe, or two in the example above.
- We cannot display an alternative screen while waiting for the data to arrive asynchronously.
- We have to use the safe-traversal-operator `?.` to access properties, which is cumbersome.
- We have to place the `async` pipe in parenthesis.

A better way to do this is to use `ngIf` and store the result of the condition in a local variable as shown in the the example below:

```

<div *ngIf="condition">...</div>
<ng-template [ngIf]="condition"><div>...</div></ng-template>

```

Syntax
Simple form:

```

<div *ngIf="condition">...</div>

```

Form with an else block:

```

<div *ngIf="condition; else elseBlock">...</div>
<ng-template #elseBlock>...</ng-template>

```

Form with a `then` and `else` block:

```

<div *ngIf="condition; then thenBlock else elseBlock">...</div>
<ng-template #thenBlock>...</ng-template>
<ng-template #elseBlock>...</ng-template>

```

Form with storing the value locally:

```

<div *ngIf="condition as value; else elseBlock">{{ value }}</div>
<ng-template #elseBlock>...</ng-template>

```

```

@@stable nvar NgIf = /** @class */ (function () {
  function NgIf(_viewContainer, templateRef) {
    this._viewContainer = _viewContainer;
    this._context = new NgIfContext();
    this._thenTemplateRef = null;
    this._elseTemplateRef = null;
    this._thenViewRef = null;
    this._elseViewRef = null;
    this._thenTemplateRef = templateRef;
  }
  Object.defineProperty(NgIf.prototype, "ngIf", {
    set: /** @param {?} condition @return {?} */ function (condition) {
      this._context.$implicit = this._context.ngIf = condition;
      this._updateView();
    }, enumerable: true, configurable: true });
  Object.defineProperty(NgIf.prototype, "ngIfThen", {
    set: /** @param {?} templateRef @return {?} */ function (templateRef) {
      this._thenTemplateRef = templateRef;
      this._thenViewRef = null; // clear previous view if any.
      this._updateView();
    }, enumerable: true, configurable: true });
  Object.defineProperty(NgIf.prototype, "ngIfElse", {
    set: /** @param {?} templateRef @return {?} */ function (templateRef) {
      this._elseTemplateRef = templateRef;
      this._elseViewRef = null; // clear previous view if any.
      this._updateView();
    }, enumerable: true, configurable: true });
  /** @return {?} */ function () {
    if (this._context.$implicit) {
      if (!this._thenViewRef) {

```

```

this._viewContainer.clear();\n      this._thenViewRef =\nthis._context);\n    }\n    this._viewContainer.clear();\n    this._elseViewRef =\nthis._context);\n  }\n  }\n  NgIf.decorators = [\n    { type: Directive, args: [{\nselector: '[ngIf' ],, ]\n }];\n  /** @nocollapse */\n  NgIf.ctorParameters = function () { return [\n    { type: ViewContainerRef, },\n    { type: TemplateRef, },\n  ];\n  }\n  NgIf.propDecorators = {\n    \"ngIf\": [{ type: Input },],\n    \"ngIfThen\": [{ type: Input },],\n    \"ngIfElse\": [{ type: Input },],\n  };\n  return\nNgIf;\n});\n\n/**\n * @@stable\n */\nvar NgIfContext = /** @class */ (function () {\n  function NgIfContext() {\n    this.$implicit = null;\n    this.ngIf = null;\n  }\n  return NgIfContext;\n})();\n\n/**\n * @fileoverview added\nby tsickle\n * @suppress {checkTypes} checked by tsc\n */\n\n/**\n * @license\n * Copyright Google Inc. All Rights\nReserved.\n * Use of this source code is governed by an MIT-style license that can be\n * found in the\nLICENSE file at https://angular.io/license\n */\nvar SwitchView = /** @class */ (function () {\n  function\nSwitchView(_viewContainerRef, _templateRef) {\n    this._viewContainerRef = _viewContainerRef;\n    this._templateRef = _templateRef;\n    this._created = false;\n  }\n  /**\n   * @return {?}\n   */\n  SwitchView.prototype.create = /**\n   * @return {?}\n   */\n  function () {\n    this._created = true;\n    this._viewContainerRef.createEmbeddedView(this._templateRef);\n  };\n  /**\n   * @return {?}\n   */\n  SwitchView.prototype.destroy = /**\n   * @return {?}\n   */\n  function () {\n    this._created = false;\n    this._viewContainerRef.clear();\n  };\n  /**\n   * @param {?} created\n   * @return {?}\n   */\n  SwitchView.prototype.enforceState = /**\n   * @param {?} created\n   * @return {?}\n   */\n  function\n(created) {\n    if (created && !this._created) {\n      this.create();\n    } else if (!created &&\nthis._created) {\n      this.destroy();\n    };\n    return SwitchView;\n  });\n\n  /**\n   * @@ngModule\nCommonModule\n * @@whatItDoes Adds / removes DOM sub-trees when the nest match expressions matches\nthe switch\n * expression.\n * @@howToUse\n * ```\n * <container-element\n[ngSwitch]=\"switch_expression\">\n * <some-element *ngSwitchCase=\"match_expression_1\">...</some-\nelement>\n * <some-element *ngSwitchCase=\"match_expression_2\">...</some-element>\n * <some-\nother-element *ngSwitchCase=\"match_expression_3\">...</some-other-element>\n * <ng-container\n*ngSwitchCase=\"match_expression_3\">\n * <!-- use a ng-container to group multiple root nodes -->\n * <inner-element></inner-element>\n * <inner-other-element></inner-other-element>\n * </ng-container>\n * <some-element *ngSwitchDefault>...</some-element>\n * </container-element>\n * ```\n * \n@@description\n * `NgSwitch` stamps out nested views when their match expression value matches the value of\nthe\n * switch expression.\n * In other words:\n * - you define a container element (where you place the\n * directive with a switch expression on the\n * `[ngSwitch]=\"...\"` attribute)\n * - you define inner views inside the\n * `NgSwitch` and place a `*ngSwitchCase` attribute on the view\n * root elements.\n * Elements within\n * `NgSwitch` but outside of a `NgSwitchCase` or `NgSwitchDefault` directives will\n * be preserved at the location.\n * \n * The `ngSwitchCase` directive informs the parent `NgSwitch` of which view to display when the\n * expression\n * is evaluated.\n * When no matching expression is found on a `ngSwitchCase` view, the `ngSwitchDefault` view is\n * stamped out.\n * \n@@stable\n */\nvar NgSwitch = /** @class */ (function () {\n  function\nNgSwitch() {\n    this._defaultUsed = false;\n    this._caseCount = 0;\n    this._lastCaseCheckIndex = 0;\n    this._lastCasesMatched = false;\n  }\n  Object.defineProperty(NgSwitch.prototype, \"ngSwitch\", {\n    set:\n/**\n   * @param {?} newValue\n   * @return {?}\n   */\n  function (newValue) {\n    this.ngSwitch = newValue;\n    if (this._caseCount === 0) {\n      this._updateDefaultCases(true);\n    }\n  },\n  enumerable: true,\n  configurable: true\n});\n  /**\n   * @internal\n   */\n  /**\n   * @internal\n   */\n  /**\n   * @internal\n   */\n  NgSwitch.prototype._addCase = /**\n   * @internal\n   * @return {?}\n   */\n  function () {\n    return this._caseCount++;\n  };\n  /**\n   * @internal\n   */\n  /**\n   * @internal\n   */\n  NgSwitch.prototype._addDefault = /**\n   * @internal\n   * @param {?} view\n   * @return {?}\n   */\n  function (view) {\n    if (!this._defaultViews) {\n      this._defaultViews = [];\n    }\n  }\n}

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    this._defaultViews.push(view);\n    };\n    /** @internal */\n    * \\@internal\n    * @param {?} value\n    * @return {?}\n    * \\ NgSwitch.prototype._matchCase = /**\n    * \\@internal\n    * @param {?} value\n    * @return {?}\n    * \\n    function (value) {\n        var /** @type {?} */ matched = value === this._ngSwitch;\n        this._lastCasesMatched = this._lastCasesMatched || matched;\n        this._lastCaseCheckIndex++;\n        if\n        (this._lastCaseCheckIndex === this._caseCount) {\n            this._updateDefaultCases(!this._lastCasesMatched);\n            this._lastCaseCheckIndex = 0;\n            this._lastCasesMatched = false;\n        }\n        return matched;\n    };\n    /**\n    * @param {?} useDefault\n    * @return {?}\n    * \\ NgSwitch.prototype._updateDefaultCases = /**\n    * @param {?} useDefault\n    * @return {?}\n    * \\n    function (useDefault) {\n        if (this._defaultViews &&\n        useDefault !== this._defaultUsed) {\n            this._defaultUsed = useDefault;\n            for (var /** @type {?} */ i =\n            0; i < this._defaultViews.length; i++) {\n                var /** @type {?} */ defaultView = this._defaultViews[i];\n                defaultView.enforceState(useDefault);\n            }\n        }\n    };\n    NgSwitch.decorators = [\n        { type:\n        Directive, args: [{ selector: '[ngSwitch]' }, ],\n        }];\n    /** @nocollapse */\n    NgSwitch.ctorParameters = function\n    () { return []; }; \n    NgSwitch.propDecorators = [\n        { type: Input },\n    ];\n    return\n    NgSwitch;\n    });\n    /**\n    * \\@ngModule CommonModule\n    * \\@whatItDoes Creates a view that will be\n    added/removed from the parent {\\@link NgSwitch} when the\n    *      given expression evaluate to respectively\n    the same/different value as the switch\n    *      expression.\n    * \\@howToUse\n    * ```\n    * <container-element\n    [ngSwitch]="switch_expression">\n    * <some-element *ngSwitchCase="match_expression_1">...</some-\n    element>\n    * </container-element>\n    * ```\n    * \\@description\n    * \\n    * Insert the sub-tree when the expression\n    evaluates to the same value as the enclosing switch\n    * expression.\n    * \\n    * If multiple match expressions match the\n    switch expression value, all of them are displayed.\n    * \\n    * See {\\@link NgSwitch} for more details and example.\n    * \\n    * \\@stable\n    * \\nvar NgSwitchCase = /** @class */ (function () {\n        function NgSwitchCase(viewContainer,\n        templateRef, ngSwitch) {\n            this.ngSwitch = ngSwitch;\n            ngSwitch._addCase();\n            this._view = new\n            SwitchView(viewContainer, templateRef);\n        }\n        /**\n        * @return {?}\n        * \\n\n        NgSwitchCase.prototype.ngDoCheck = /**\n        * @return {?}\n        * \\n\n        function () {\n            this._view.enforceState(this.ngSwitch._matchCase(this.ngSwitchCase));\n        }; \n        NgSwitchCase.decorators = [\n        { type: Directive, args: [{ selector: '[ngSwitchCase]' }, ],\n        }];\n        /** @nocollapse */\n        NgSwitchCase.ctorParameters = function () { return [\n            { type: ViewContainerRef },\n            { type:\n            TemplateRef },\n            { type: NgSwitch, decorators: [{ type: Host }, ],\n            }]; }; \n        NgSwitchCase.propDecorators\n        = [\n            { type: Input },\n        ];\n        return NgSwitchCase;\n    });\n    /**\n    * \\@ngModule\n    CommonModule\n    * \\@whatItDoes Creates a view that is added to the parent {\\@link NgSwitch} when no case\n    expressions\n    * match the\n    *      switch expression.\n    * \\@howToUse\n    * ```\n    * <container-element\n    [ngSwitch]="switch_expression">\n    * <some-element *ngSwitchCase="match_expression_1">...</some-\n    element>\n    * <some-other-element *ngSwitchDefault>...</some-other-element>\n    * </container-element>\n    * ```\n    * \\n    * \\@description\n    * \\n    * Insert the sub-tree when no case expressions evaluate to the same value as the enclosing\n    switch\n    * expression.\n    * \\n    * See {\\@link NgSwitch} for more details and example.\n    * \\n    * \\@stable\n    * \\nvar\n    NgSwitchDefault = /** @class */ (function () {\n        function NgSwitchDefault(viewContainer, templateRef,\n        ngSwitch) {\n            ngSwitch._addDefault(new SwitchView(viewContainer, templateRef));\n        }\n        NgSwitchDefault.decorators = [\n            { type: Directive, args: [{ selector: '[ngSwitchDefault]' }, ],\n            }];\n        /**\n        @nocollapse */\n        NgSwitchDefault.ctorParameters = function () { return [\n            { type: ViewContainerRef },\n            { type: TemplateRef },\n            { type: NgSwitch, decorators: [{ type: Host }, ],\n            }]; }; \n        return\n        NgSwitchDefault;\n    });\n    /**\n    * @fileoverview added by tsickle\n    * @suppress {checkTypes} checked by tsc\n    * \\n\n    * \\@license\n    * Copyright Google Inc. All Rights Reserved.\n    * \\n    * Use of this source code is governed by\n    an MIT-style license that can be\n    * found in the LICENSE file at https://angular.io/license\n    * \\n\n    * \\@ngModule CommonModule\n    * \\@whatItDoes Adds / removes DOM sub-trees based on a numeric value.\n    Tailored for pluralization.\n    * \\@howToUse\n    * ```\n    * <some-element [ngPlural]="value">\n    * <ng-\n    template ngPluralCase="=0">there is nothing</ng-template>\n    * <ng-template ngPluralCase="=1">there is\n    one</ng-template>\n    * <ng-template ngPluralCase="=few">there are a few</ng-template>\n    * </some-element>\n    * ```\n    * \\n    * \\@description\n    * \\n    * Displays DOM sub-trees that match the switch expression value, or failing that,
```

DOM sub-trees that match the switch expression's pluralization category. To use this directive you must provide a container element that sets the `[ngPlural]` attribute to a switch expression. Inner elements with a `[ngPluralCase]` will display based on their expression - if `[ngPluralCase]` is set to a value starting with `=`, it will only display if the value matches the switch expression exactly - otherwise, the view will be treated as a "category match", and will only display if exact value matches aren't found and the value maps to its category for the defined locale. See <http://cldr.unicode.org/index/cldr-spec/plural-rules>

```

@@experimental
nvar NgPlural = /** @class */ (function () {
  function NgPlural(_localization) {
    this._localization = _localization;
    this._caseViews = {};
  }
  Object.defineProperty(NgPlural.prototype, 'ngPlural', {
    set: /** @param {?} value @return {?} */ function (value) {
      this._switchValue = value;
      this._updateView();
    }, enumerable: true, configurable: true
  });
  /** @param {?} value @param {?} switchView @return {?} */
  NgPlural.prototype.addCase = /** @param {?} value @param {?} switchView @return {?} */
  function (value, switchView) {
    this._caseViews[value] = switchView;
  };
  /** @return {?} */
  NgPlural.prototype._updateView = /** @return {?} */
  function () {
    this._clearViews();
    var /** @type {?} */ cases = Object.keys(this._caseViews);
    var /** @type {?} */ key = getPluralCategory(this._switchValue, cases, this._localization);
    this._activateView(this._caseViews[key]);
  };
  /** @return {?} */
  NgPlural.prototype._clearViews = /** @return {?} */
  function () {
    if (this._activeView)
      this._activeView.destroy();
  };
  /** @param {?} view @return {?} */
  NgPlural.prototype._activateView = /** @param {?} view @return {?} */
  function (view) {
    if (view)
      this._activeView = view;
    this._activeView.create();
  };
  NgPlural.decorators = [
    { type: Directive, args: [
      { selector: '[ngPlural]' },
    ] },
  ];
  /** @nocollapse */
  NgPlural.ctorParameters = function () {
    return [
      { type: NgLocalization, },
    ];
  };
  NgPlural.propDecorators = [
    { 'ngPlural': [
      { type: Input, },
    ] },
  ];
  return NgPlural;
})();

@@ngModule CommonModule
n * @@whatItDoes Creates a view that will be added/removed from the parent @@link NgPlural when the given expression matches the plural expression according to CLDR rules.
n * @@howToUse
n * <some-element [ngPlural]="value">
n * <ng-template ngPluralCase="=0">...</ng-template>
n * <ng-template ngPluralCase="other">...</ng-template>
n * </some-element>
n * See @@link NgPlural for more details and example.

@@experimental
nvar NgPluralCase = /** @class */ (function () {
  function NgPluralCase(value, template, viewContainer, ngPlural) {
    this.value = value;
    var /** @type {?} */ isANumber = !isNaN(Number(value));
    ngPlural.addCase(isANumber ? "=" + value : value, new SwitchView(viewContainer, template));
  }
  NgPluralCase.decorators = [
    { type: Directive, args: [
      { selector: '[ngPluralCase]' },
    ] },
  ];
  /** @nocollapse */
  NgPluralCase.ctorParameters = function () {
    return [
      { type: undefined, decorators: [
        { type: Attribute, args: [
          'ngPluralCase',
        ] },
      ] },
      { type: TemplateRef, },
      { type: ViewContainerRef, },
      { type: NgPlural, decorators: [
        { type: Host, },
      ] },
    ];
  };
  return NgPluralCase;
})();

n/@@fileoverview added by tsickle
n * @suppress {checkTypes} checked by tsc
n/@@license
n * Copyright Google Inc. All Rights Reserved.
n * Use of this source code is governed by an MIT-style license that can be found in the LICENSE file at https://angular.io/license

@@ngModule CommonModule
n * @@whatItDoes Update an HTML element styles.
n * @@howToUse
n * <some-element [ngStyle]="{'font-style': styleExp}">...</some-element>
n * <some-element [ngStyle]="{'max-width.px': widthExp}">...</some-element>
n * <some-element [ngStyle]="objExp">...</some-element>
n * @@description
n * The styles are updated according to the value of the expression evaluation:
n * - keys are style names with an optional <unit> suffix (ie 'top.px', 'font-style.em'),
n * - values are the values assigned to those properties (expressed in the given unit).
n * @@stable
nvar NgStyle = /** @class */ (function () {
  function NgStyle(_differs, _ngEl, _renderer) {
    this._differs = _differs;
    this._ngEl = _ngEl;
    this._renderer = _renderer;
  }
  Object.defineProperty(NgStyle.prototype, 'ngStyle', {
    set: /** @param {?} v @return {?} */ function (v) {
      this._ngStyle = v;
      if (!this._differ && v)

```



```
this._differ = this._differs.find(v).create();\n    }\n  },\n  enumerable: true,\n  configurable: true\n});\n/**\n * @return {?} */\n * NgStyle.prototype.ngDoCheck = /**\n * @return {?} */\n *\nfunction () {\n  if (this._differ) {\n    var /** @type {?} */ changes = this._differ.diff(this._ngStyle);\n    if (changes) {\n      this._applyChanges(changes);\n    }\n  }\n};\n/**\n * @param {?}\n * changes\n * @return {?} */\n * NgStyle.prototype._applyChanges = /**\n * @param {?}\n * changes\n * @return {?} */\n *\nfunction (changes) {\n  var _this = this;\n  changes.forEachRemovedItem(function (record) {\n    return _this._setStyle(record.key, null);\n  });\n  changes.forEachAddedItem(function (record) {\n    return _this._setStyle(record.key, record.currentValue);\n  });\n  changes.forEachChangedItem(function (record) {\n    return _this._setStyle(record.key, record.currentValue);\n  });\n};\n/**\n * @param {?}\n * nameAndUnit\n * @param {?}\n * value\n * @return {?} */\n * NgStyle.prototype._setStyle = /**\n * @param {?}\n * nameAndUnit\n * @param {?}\n * value\n * @return {?} */\n *\nfunction (nameAndUnit, value) {\n  var _a =\n    nameAndUnit.split('.'),\n    name = _a[0],\n    unit = _a[1];\n  value = value != null && unit ? \"\" + value + unit :\n    value;\n  this._renderer.setStyle(this._ngEl.nativeElement, name, /** @type {?} */ (value));\n};\n\nNgStyle.decorators = [\n  { type: Directive, args: [{ selector: '[ngStyle]' },] },\n];\n/** @nocollapse */\n\nNgStyle.ctorParameters = function () {\n  return [\n    { type: KeyValueDiffers },\n    { type: ElementRef },\n    { type: Renderer2 },\n  ];\n};\n\nNgStyle.propDecorators = {\n  \"ngStyle\": [{ type: Input },],\n};\n\nreturn NgStyle;\n})();\n\n/**\n * @fileoverview added by tsickle\n * @suppress {checkTypes} checked by tsc\n */\n\n/**\n * @license\n * Copyright Google Inc. All Rights Reserved.\n * Use of this source code is governed by an MIT-\n * style license that can be found in the LICENSE file at https://angular.io/license\n */\n\n/**\n * @ngModule\n * CommonModule\n */\n\n/**\n * @whatItDoes Inserts an embedded view from a prepared `TemplateRef`\n */\n\n/**\n * @howToUse\n * ```\n * <ng-container *ngTemplateOutlet=\"templateRefExp; context: contextExp\"></ng-\n * container>\n * ```\n */\n\n/**\n * @description\n */\n\n/**\n * You can attach a context object to the `EmbeddedViewRef` by\n * setting `ngTemplateOutletContext`. `ngTemplateOutletContext` should be an object, the object's keys will be\n * available for binding by the local template `let` declarations. Note: using the key `'$implicit` in the\n * context object will set it's value as default. ## Example\n */\n\n/**\n * @example\n */\n\ncommon/ngTemplateOutlet/ts/module.ts\nregion='NgTemplateOutlet'\n\n/** @class */ (function () {\n  function NgTemplateOutlet(_viewContainerRef) {\n    this._viewContainerRef =\n      _viewContainerRef;\n  }\n\n  /**\n   * @param {?} changes\n   * @return {?} */\n   *\n  NgTemplateOutlet.prototype.ngOnChanges = /**\n   * @param {?} changes\n   * @return {?} */\n   *\n  function (changes) {\n    var /** @type {?} */ recreateView = this._shouldRecreateView(changes);\n    if (recreateView) {\n      if (this._viewRef) {\n        this._viewContainerRef.remove(this._viewContainerRef.indexOf(this._viewRef));\n      }\n      if (this.ngTemplateOutlet) {\n        this._viewRef =\n          this._viewContainerRef.createEmbeddedView(this.ngTemplateOutlet, this.ngTemplateOutletContext);\n      }\n    } else {\n      if (this._viewRef && this.ngTemplateOutletContext) {\n        this._updateExistingContext(this.ngTemplateOutletContext);\n      }\n    }\n  };\n\n  /**\n   * We need to re-  
create existing embedded view if:  
  * - templateRef has changed  
  * - context has changes  
  * We  
mark context object as changed when the corresponding object's  
  * shape changes (new properties are added or  
existing properties are removed).  
  * In other words we consider context with the same properties as \"the same\"  
even if object reference changes (see https://github.com/angular/angular/issues/13407).\n   * @param {?}\n   * changes\n   * @return {?} */\n   *\n  NgTemplateOutlet.prototype._shouldRecreateView = /**\n   * We need to  
re-create existing embedded view if:  
  * - templateRef has changed  
  * - context has changes  
  * We  
mark context object as changed when the corresponding object's  
  * shape changes (new properties are added or  
existing properties are removed).  
  * In other words we consider context with the same properties as \"the same\"  
even if object reference changes (see https://github.com/angular/angular/issues/13407).\n   * @param {?}\n   * changes\n   * @return {?} */\n   *\n  function (changes) {\n    var /** @type {?} */ ctxChange =\n      changes['ngTemplateOutletContext'];\n    return !!changes['ngTemplateOutlet'] || (ctxChange &&\n      this._hasContextShapeChanged(ctxChange));\n  };\n\n  /**\n   * @param {?} ctxChange\n   * @return {?} */\n   *\n
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*\n NgTemplateOutlet.prototype._hasContextShapeChanged = /**\n * @param {?} ctxChange\n * @return
{?}\n *\n function (ctxChange) {\n var /** @type {?} */ prevCtxKeys =
Object.keys(ctxChange.previousValue || {});\n var /** @type {?} */ currCtxKeys =
Object.keys(ctxChange.currentValue || {});\n if (prevCtxKeys.length === currCtxKeys.length) {\n for
(var _i = 0, currCtxKeys_1 = currCtxKeys; _i < currCtxKeys_1.length; _i++) {\n var propName =
currCtxKeys_1[_i];\n if (prevCtxKeys.indexOf(propName) === -1) {\n return true;\n
}\n }\n return false;\n }\n else {\n return true;\n }\n };\n /**\n * @param {?}
ctx\n * @return {?}\n *\n NgTemplateOutlet.prototype._updateExistingContext = /**\n * @param {?}
ctx\n * @return {?}\n *\n function (ctx) {\n for (var _i = 0, _a = Object.keys(ctx); _i < _a.length; _i++)
{\n var propName = _a[_i];\n (** @type {?} */ (this._viewRef.context))[propName] = (** @type
{?} */ (this.ngTemplateOutletContext))[propName];\n }\n };\n NgTemplateOutlet.decorators = [\n {
type: Directive, args: [{ selector: '[ngTemplateOutlet]' }, ] },\n ];\n /** @nocollapse *\n
NgTemplateOutlet.ctorParameters = function () { return [\n { type: ViewContainerRef, },\n ];\n
};\n
NgTemplateOutlet.propDecorators = {\n "ngTemplateOutletContext": [{ type: Input },],\n
'ngTemplateOutlet': [{ type: Input },],\n };
return NgTemplateOutlet;\n})(\n);\n\n/**\n * @fileoverview added
by tsickle\n * @suppress {checkTypes} checked by tsc\n *\n/**\n * @license\n * Copyright Google Inc. All Rights
Reserved.\n *\n * Use of this source code is governed by an MIT-style license that can be\n * found in the
LICENSE file at https://angular.io/license\n *\n/**\n * A collection of Angular directives that are likely to be used
in each and every Angular\n * application.\n *\nvar COMMON_DIRECTIVES = [\n NgClass,\n
NgComponentOutlet,\n NgForOf,\n NgIf,\n NgTemplateOutlet,\n NgStyle,\n NgSwitch,\n
NgSwitchCase,\n NgSwitchDefault,\n NgPlural,\n NgPluralCase,\n];\n\n/**\n * @fileoverview added by
tsickle\n * @suppress {checkTypes} checked by tsc\n *\n/**\n * @license\n * Copyright Google Inc. All Rights
Reserved.\n *\n * Use of this source code is governed by an MIT-style license that can be\n * found in the
LICENSE file at https://angular.io/license\n *\nvar NAMED_FORMATS = {};\nvar DATE_FORMATS_SPLIT =
/((?:[^\GyMLwWdEabBhHmsSzZO']+)|(?:'(:[^\"])*')|(?:G{1,5}|y{1,4}|M{1,5}|L{1,5}|w{1,2}|W{1}|d{1,2}|E{1,6}|
a{1,5}|b{1,5}|B{1,5}|h{1,2}|H{1,2}|m{1,2}|s{1,2}|S{1,3}|z{1,4}|Z{1,5}|O{1,4}))(\[\\s\\S]*)*/;\n\n/** @enum
{number} *\nvar ZoneWidth = {\n Short: 0,\n ShortGMT: 1,\n Long: 2,\n Extended:
3,\n};\nZoneWidth[ZoneWidth.Short] = "Short";\nZoneWidth[ZoneWidth.ShortGMT] =
"ShortGMT";\nZoneWidth[ZoneWidth.Long] = "Long";\nZoneWidth[ZoneWidth.Extended] =
"Extended";\n\n/** @enum {number} *\nvar DateType = {\n FullYear: 0,\n Month: 1,\n Date: 2,\n Hours:
3,\n Minutes: 4,\n Seconds: 5,\n Milliseconds: 6,\n Day: 7,\n};\nDateType[DateType.FullYear] =
"FullYear";\nDateType[DateType.Month] = "Month";\nDateType[DateType.Date] =
"Date";\nDateType[DateType.Hours] = "Hours";\nDateType[DateType.Minutes] =
"Minutes";\nDateType[DateType.Seconds] = "Seconds";\nDateType[DateType.Milliseconds] =
"Milliseconds";\nDateType[DateType.Day] = "Day";\n\n/** @enum {number} *\nvar TranslationType = {\n
DayPeriods: 0,\n Days: 1,\n Months: 2,\n Eras: 3,\n};\nTranslationType[TranslationType.DayPeriods] =
"DayPeriods";\nTranslationType[TranslationType.Days] = "Days";\nTranslationType[TranslationType.Months]
= "Months";\nTranslationType[TranslationType.Eras] = "Eras";\n\n/**\n * Transforms a date to a locale string
based on a pattern and a timezone\n *\n * @@internal\n * @param {?} date\n * @param {?} format\n * @param {?}
locale\n * @param {?=} timezone\n * @return {?}\n *\nfunction formatDate(date, format, locale, timezone) {\n
var /** @type {?} */ namedFormat = getNamedFormat(locale, format);\n format = namedFormat || format;\n var
/** @type {?} */ parts = [];\n var /** @type {?} */ match;\n while (format) {\n match =
DATE_FORMATS_SPLIT.exec(format);\n if (match) {\n parts = parts.concat(match.slice(1));\n
var /** @type {?} */ part = parts.pop();\n if (!part) {\n break;\n }\n format = part;\n
}\n else {\n parts.push(format);\n break;\n }\n }\n var /** @type {?} */
dateTimeZoneOffset = date.getTimezoneOffset();\n if (timezone) {\n dateTimeZoneOffset =
timeZoneToOffset(timezone, dateTimeZoneOffset);\n date = convertTimeZoneToLocal(date, timezone, true);\n
}\n var /** @type {?} */ text = ";\n parts.forEach(function (value) {\n var /** @type {?} */ dateFormatter =

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getDateFormatter(value);\n    text += dateFormatter ?\n        dateFormatter(date, locale, date timezoneOffset)\n    :\n        value === "\\\\" ? "\\\" : value.replace(/(^|$$)/g, ").replace(/"/g, "\\");\n    });\n    return text;\n}\n\n/**\n * @param {?} locale\n * @param {?} format\n * @return {?} \n *\nfunction getNamedFormat(locale, format) {\n    var /** @type {?} */ localeId = getLocaleId(locale);\n    NAMED_FORMATS[localeId] =\n    NAMED_FORMATS[localeId] || {};\n    if (NAMED_FORMATS[localeId][format]) {\n        return\n        NAMED_FORMATS[localeId][format];\n    }\n    var /** @type {?} */ formatValue = ";\n    switch (format) {\n        case 'shortDate':\n            formatValue = getLocaleDateFormat(locale, FormatWidth.Short);\n            break;\n        case 'mediumDate':\n            formatValue = getLocaleDateFormat(locale, FormatWidth.Medium);\n            break;\n        case 'longDate':\n            formatValue = getLocaleDateFormat(locale, FormatWidth.Long);\n            break;\n        case 'fullDate':\n            formatValue = getLocaleDateFormat(locale, FormatWidth.Full);\n            break;\n        case 'shortTime':\n            formatValue = getLocaleTimeFormat(locale, FormatWidth.Short);\n            break;\n        case\n        'mediumTime':\n            formatValue = getLocaleTimeFormat(locale, FormatWidth.Medium);\n            break;\n        case 'longTime':\n            formatValue = getLocaleTimeFormat(locale, FormatWidth.Long);\n            break;\n        case 'fullTime':\n            formatValue = getLocaleTimeFormat(locale, FormatWidth.Full);\n            break;\n        case 'short':\n            var /** @type {?} */ shortTime = getNamedFormat(locale, 'shortTime');\n            var /**\n            @type {?} */ shortDate = getNamedFormat(locale, 'shortDate');\n            formatValue =\n            formatDate(getLocaleDateTimeFormat(locale, FormatWidth.Short), [shortTime, shortDate]);\n            break;\n        case 'medium':\n            var /** @type {?} */ mediumTime = getNamedFormat(locale, 'mediumTime');\n            var /** @type {?} */ mediumDate = getNamedFormat(locale, 'mediumDate');\n            formatValue =\n            formatDate(getLocaleDateTimeFormat(locale, FormatWidth.Medium), [mediumTime, mediumDate]);\n            break;\n        case 'long':\n            var /** @type {?} */ longTime = getNamedFormat(locale, 'longTime');\n            var /** @type {?} */ longDate = getNamedFormat(locale, 'longDate');\n            formatValue =\n            formatDate(getLocaleDateTimeFormat(locale, FormatWidth.Long), [longTime, longDate]);\n            break;\n        case 'full':\n            var /** @type {?} */ fullTime = getNamedFormat(locale, 'fullTime');\n            var /** @type\n            {?} */ fullDate = getNamedFormat(locale, 'fullDate');\n            formatValue =\n            formatDate(getLocaleDateTimeFormat(locale, FormatWidth.Full), [fullTime, fullDate]);\n            break;\n    }\n    if (formatValue) {\n        NAMED_FORMATS[localeId][format] = formatValue;\n    }\n    return\n    formatValue;\n}\n\n/**\n * @param {?} str\n * @param {?} opt_values\n * @return {?} \n *\nfunction\n    formatDate(str, opt_values) {\n        if (opt_values) {\n            str = str.replace(/\\{([^\n]+)}/g, function (match, key)\n            {\n                return (opt_values != null && key in opt_values) ? opt_values[key] : match;\n            });\n        }\n        return\n        str;\n    }\n\n    /**\n     * @param {?} num\n     * @param {?} digits\n     * @param {=} minusSign\n     * @param {=} trim\n     * @param {=} negWrap\n     * @return {?} \n     *\nfunction padNumber(num, digits, minusSign, trim, negWrap) {\n    (minusSign === void 0) { minusSign = '-'; }\n    var /** @type {?} */ neg = ";\n    if (num < 0 || (negWrap && num\n    <= 0)) {\n        if (negWrap) {\n            num = -num + 1;\n        }\n        else {\n            num = -num;\n            neg =\n            minusSign;\n        }\n    }\n    var /** @type {?} */ strNum = " + num;\n    while (strNum.length < digits)\n    strNum = '0' + strNum;\n    if (trim) {\n        strNum = strNum.substr(strNum.length - digits);\n    }\n    return neg +\n    strNum;\n}\n\n    /**\n     * Returns a date formatter that transforms a date into its locale digit representation\n     * @param\n     {?} name\n     * @param {?} size\n     * @param {=} offset\n     * @param {=} trim\n     * @param {=} negWrap\n     * @return {?} \n     *\nfunction dateGetter(name, size, offset, trim, negWrap) {\n    if (offset === void 0) { offset = 0;\n    }\n    if (trim === void 0) { trim = false; }\n    if (negWrap === void 0) { negWrap = false; }\n    return function\n    (date, locale) {\n        var /** @type {?} */ part = getDatePart(name, date, size);\n        if (offset > 0 || part > -offset)\n        {\n            part += offset;\n        }\n        if (name === Date.Type.Hours && part === 0 && offset === -12) {\n            part = 12;\n        }\n        return padNumber(part, size, getLocaleNumberSymbol(locale,\n        NumberSymbol.MinusSign), trim, negWrap);\n    };\n}\n\n    /**\n     * @param {?} name\n     * @param {?} date\n     * @param {?} size\n     * @return {?} \n     *\nfunction getDatePart(name, date, size) {\n    switch (name) {\n        case\n        Date.Type.FullYear:\n            return date.getFullYear();\n        case Date.Type.Month:\n            return\n            date.getMonth();\n        case Date.Type.Date:\n            return date.getDate();\n        case Date.Type.Hours:\n            return\n            date.getHours();\n        case Date.Type.Minutes:\n            return date.getMinutes();\n        case

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DateType.Seconds:\n      return date.getSeconds();\n      case DateType.Milliseconds:\n      var /** @type
{?} */ div = size === 1 ? 100 : (size === 2 ? 10 : 1);\n      return Math.round(date.getMilliseconds() / div);\n
case DateType.Day:\n      return date.getDay();\n      default:\n      throw new Error("Unknown DateType
value '" + name + "'");\n    }\n  }\n  /**\n * Returns a date formatter that transforms a date into its locale string
representation\n * @param {?} name\n * @param {?} width\n * @param {?=} form\n * @param {?=} extended\n * @return {?} */\n * \nfunction dateStrGetter(name, width, form, extended) {\n  if (form === void 0) { form =
FormStyle.Format; }\n  if (extended === void 0) { extended = false; }\n  return function (date, locale) {\n
return getDateTranslation(date, locale, name, width, form, extended);\n  };\n}\n  /**\n * Returns the locale
translation of a date for a given form, type and width\n * @param {?} date\n * @param {?} locale\n * @param {?}
name\n * @param {?} width\n * @param {?} form\n * @param {?} extended\n * @return {?} */\n * \nfunction
getDateTranslation(date, locale, name, width, form, extended) {\n  switch (name) {\n    case
TranslationType.Months:\n      return getLocaleMonthNames(locale, form, width)[date.getMonth()];\n    case
TranslationType.Days:\n      return getLocaleDayNames(locale, form, width)[date.getDay()];\n    case
TranslationType.DayPeriods:\n      var /** @type {?} */ currentHours_1 = date.getHours();\n      var /**
@type {?} */\n * @type {?} */ currentMinutes_1 = date.getMinutes();\n      if (extended) {\n        var /** @type {?} */ rules
= getLocaleExtraDayPeriodRules(locale);\n        var /** @type {?} */ dayPeriods_1 =
getLocaleExtraDayPeriods(locale, form, width);\n        var /** @type {?} */ result_1;\n        rules.forEach(function (rule, index) {\n
          if (Array.isArray(rule)) {\n            // morning, afternoon,
evening, night\n            var _a = rule[0], hoursFrom = _a.hours, minutesFrom = _a.minutes;\n            var _b = rule[1], hoursTo = _b.hours, minutesTo = _b.minutes;\n            if (currentHours_1 >= hoursFrom
&& currentMinutes_1 >= minutesFrom &&\n              (currentHours_1 < hoursTo ||\n
              (currentHours_1 === hoursTo && currentMinutes_1 < minutesTo))) {\n                result_1 =
dayPeriods_1[index];\n              }\n            }\n          else {\n            // noon or midnight\n            var hours = rule.hours, minutes = rule.minutes;\n            if (hours === currentHours_1 &&
minutes === currentMinutes_1) {\n              result_1 = dayPeriods_1[index];\n            }\n          }\n        });\n        if (result_1) {\n          return result_1;\n        }\n      }\n      // if no rules
for the day periods, we use am/pm by default\n      return getLocaleDayPeriods(locale, form, /** @type {?} */\n
      (width))[currentHours_1 < 12 ? 0 : 1];\n    case TranslationType.Eras:\n      return getLocaleEraNames(locale,
/** @type {?} */\n * @type {?} */ (width))[date.getFullYear() <= 0 ? 0 : 1];\n    default:\n      // This default case is not needed
by TypeScript compiler, as the switch is exhaustive.\n      // However Closure Compiler does not understand that
and reports an error in typed mode.\n      // The `throw new Error` below works around the problem, and the
unexpected: never variable\n      // makes sure tsc still checks this code is unreachable.\n      var /** @type
{?} */ unexpected = name;\n      throw new Error("unexpected translation type '" + unexpected);\n    }\n  }\n}\n  /**\n * Returns a date formatter that transforms a date and an offset into a timezone with ISO8601 or\n * GMT format
depending on the width (eg: short = +0430, short:GMT = GMT+4, long = GMT+04:30,\n * extended = +04:30)\n * @param {?} width\n * @return {?} */\n * \nfunction timeZoneGetter(width) {\n  return function (date, locale, offset)
{\n    var /** @type {?} */ zone = -1 * offset;\n    var /** @type {?} */ minusSign =
getLocaleNumberSymbol(locale, NumberSymbol.MinusSign);\n    var /** @type {?} */ hours = zone > 0 ?
Math.floor(zone / 60) : Math.ceil(zone / 60);\n    switch (width) {\n      case ZoneWidth.Short:\n        return ((zone >= 0) ? '+' : '-') + padNumber(hours, 2, minusSign) +\n          padNumber(Math.abs(zone % 60),
2, minusSign);\n      case ZoneWidth.ShortGMT:\n        return 'GMT' + ((zone >= 0) ? '+' : '-') +
padNumber(hours, 1, minusSign);\n      case ZoneWidth.Long:\n        return 'GMT' + ((zone >= 0) ? '+' : '-')
+ padNumber(hours, 2, minusSign) + ':' +\n          padNumber(Math.abs(zone % 60), 2, minusSign);\n      case ZoneWidth.Extended:\n        if (offset === 0) {\n          return 'Z';\n        }\n        else {\n
          return ((zone >= 0) ? '+' : '-') + padNumber(hours, 2, minusSign) + ':' +\n          padNumber(Math.abs(zone % 60), 2, minusSign);\n        }\n        default:\n          throw new
Error("Unknown zone width '" + width + "'");\n      }\n    }\n  }\n}\n  \nvar JANUARY = 0;\nvar THURSDAY =
4;\n  /**\n * @param {?} year\n * @return {?} */\n * \nfunction getFirstThursdayOfYear(year) {\n  var /** @type {?} */

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*/ firstDayOfYear = (new Date(year, JANUARY, 1)).getDay();\n  return new Date(year, 0, 1 + ((firstDayOfYear
<= THURSDAY) ? THURSDAY : THURSDAY + 7) - firstDayOfYear);\n\n**\n * @param {?} datetime\n *
@return {?} \n *\nfunction getThursdayThisWeek(datetime) {\n  return new Date(datetime.getFullYear(),
datetime.getMonth(), datetime.getDate() + (THURSDAY - datetime.getDay()));\n}\n**\n * @param {?} size\n *
@param {?=} monthBased\n * @return {?} \n *\nfunction weekGetter(size, monthBased) {\n  if (monthBased ===
void 0) { monthBased = false; }\n  return function (date, locale) {\n    var /** @type {?} */ result;\n    if
(monthBased) {\n      var /** @type {?} */ nbDaysBefore1stDayOfMonth = new Date(date.getFullYear(),
date.getMonth(), 1).getDay() - 1;\n      var /** @type {?} */ today = date.getDate();\n      result = 1 +
Math.floor((today + nbDaysBefore1stDayOfMonth) / 7);\n    } else {\n      var /** @type {?} */
firstThurs = getFirstThursdayOfYear(date.getFullYear());\n      var /** @type {?} */ thisThurs =
getThursdayThisWeek(date);\n      var /** @type {?} */ diff = thisThurs.getTime() - firstThurs.getTime();\n
      result = 1 + Math.round(diff / 6.048e8); // 6.048e8 ms per week\n    }\n    return padNumber(result, size,
getLocaleNumberSymbol(locale, NumberSymbol.MinusSign));\n  };\n}\n\nvar DATE_FORMATS = {};\n**\n *
@param {?} format\n * @return {?} \n *\nfunction getDateFormatter(format) {\n  if (DATE_FORMATS[format])
{\n    return DATE_FORMATS[format];\n  }\n  var /** @type {?} */ formatter;\n  switch (format) {\n    //
Era name (AD/BC)\n    case 'G':\n    case 'GG':\n    case 'GGG':\n      formatter =
dateStrGetter(TranslationType.Eras, TranslationWidth.Abbreviated);\n      break;\n    case 'GGGG':\n
formatter = dateStrGetter(TranslationType.Eras, TranslationWidth.Wide);\n      break;\n    case 'GGGGG':\n
formatter = dateStrGetter(TranslationType.Eras, TranslationWidth.Narrow);\n      break;\n    // 1 digit
representation of the year, e.g. (AD 1 => 1, AD 199 => 199)\n    case 'y':\n      formatter =
dateGetter(DateType.FullYear, 1, 0, false, true);\n      break;\n    // 2 digit representation of the year, padded
(00-99). (e.g. AD 2001 => 01, AD 2010 => 10)\n    case 'yy':\n      formatter = dateGetter(DateType.FullYear,
2, 0, true, true);\n      break;\n    // 3 digit representation of the year, padded (000-999). (e.g. AD 2001 => 01,
AD 2010 => 10)\n    case 'yyy':\n      formatter = dateGetter(DateType.FullYear, 3, 0, false, true);\n
      break;\n    // 4 digit representation of the year (e.g. AD 1 => 0001, AD 2010 => 2010)\n    case 'yyyy':\n
formatter = dateGetter(DateType.FullYear, 4, 0, false, true);\n      break;\n    // Month of the year (1-12),
numeric\n    case 'M':\n    case 'L':\n      formatter = dateGetter(DateType.Month, 1, 1);\n      break;\n
case 'MM':\n    case 'LL':\n      formatter = dateGetter(DateType.Month, 2, 1);\n      break;\n    // Month
of the year (January, ...), string, format\n    case 'MMM':\n      formatter =
dateStrGetter(TranslationType.Months, TranslationWidth.Abbreviated);\n      break;\n    case 'MMMM':\n
formatter = dateStrGetter(TranslationType.Months, TranslationWidth.Wide);\n      break;\n    case
'MMMMM':\n      formatter = dateStrGetter(TranslationType.Months, TranslationWidth.Narrow);\n      break;\n
    // Month of the year (January, ...), string, standalone\n    case 'LLL':\n      formatter =\n
dateStrGetter(TranslationType.Months, TranslationWidth.Abbreviated, FormStyle.Standalone);\n      break;\n
case 'LLLL':\n      formatter =\n      dateStrGetter(TranslationType.Months, TranslationWidth.Wide,
FormStyle.Standalone);\n      break;\n    case 'LLLLL':\n      formatter =\n
dateStrGetter(TranslationType.Months, TranslationWidth.Narrow, FormStyle.Standalone);\n      break;\n    //
Week of the year (1, ... 52)\n    case 'w':\n      formatter = weekGetter(1);\n      break;\n    case 'ww':\n
formatter = weekGetter(2);\n      break;\n    // Week of the month (1, ...)\n    case 'W':\n      formatter
= weekGetter(1, true);\n      break;\n    // Day of the month (1-31)\n    case 'd':\n      formatter =
dateGetter(DateType.Date, 1);\n      break;\n    case 'dd':\n      formatter = dateGetter(DateType.Date, 2);\n
      break;\n    // Day of the Week\n    case 'E':\n    case 'EE':\n    case 'EEE':\n      formatter =
dateStrGetter(TranslationType.Days, TranslationWidth.Abbreviated);\n      break;\n    case 'EEEE':\n
formatter = dateStrGetter(TranslationType.Days, TranslationWidth.Wide);\n      break;\n    case 'EEEEE':\n
formatter = dateStrGetter(TranslationType.Days, TranslationWidth.Narrow);\n      break;\n    case
'EEEEEE':\n      formatter = dateStrGetter(TranslationType.Days, TranslationWidth.Short);\n      break;\n
    // Generic period of the day (am-pm)\n    case 'a':\n    case 'aa':\n    case 'aaa':\n      formatter =
dateStrGetter(TranslationType.DayPeriods, TranslationWidth.Abbreviated);\n      break;\n    case 'aaaa':\n

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    formatter = dateStrGetter(TranslationType.DayPeriods, TranslationWidth.Wide);\n      break;\n      case
'aaaaa':\n      formatter = dateStrGetter(TranslationType.DayPeriods, TranslationWidth.Narrow);\n
break;\n      // Extended period of the day (midnight, at night, ...), standalone\n      case 'b':\n      case 'bb':\n
case 'bbb':\n      formatter = dateStrGetter(TranslationType.DayPeriods, TranslationWidth.Abbreviated,
FormStyle.Standalone, true);\n      break;\n      case 'bbbb':\n      formatter =
dateStrGetter(TranslationType.DayPeriods, TranslationWidth.Wide, FormStyle.Standalone, true);\n      break;\n
      case 'bbbbb':\n      formatter = dateStrGetter(TranslationType.DayPeriods, TranslationWidth.Narrow,
FormStyle.Standalone, true);\n      break;\n      // Extended period of the day (midnight, night, ...), standalone\n
      case 'B':\n      case 'BB':\n      case 'BBB':\n      formatter = dateStrGetter(TranslationType.DayPeriods,
TranslationWidth.Abbreviated, FormStyle.Format, true);\n      break;\n      case 'BBBB':\n      formatter =\n
dateStrGetter(TranslationType.DayPeriods, TranslationWidth.Wide, FormStyle.Format, true);\n
break;\n      case 'BBBBB':\n      formatter = dateStrGetter(TranslationType.DayPeriods,
TranslationWidth.Narrow, FormStyle.Format, true);\n      break;\n      // Hour in AM/PM, (1-12)\n      case
'h':\n      formatter = dateGetter(DateType.Hours, 1, -12);\n      break;\n      case 'hh':\n      formatter =
dateGetter(DateType.Hours, 2, -12);\n      break;\n      // Hour of the day (0-23)\n      case 'H':\n
formatter = dateGetter(DateType.Hours, 1);\n      break;\n      // Hour in day, padded (00-23)\n      case 'HH':\n
formatter = dateGetter(DateType.Hours, 2);\n      break;\n      // Minute of the hour (0-59)\n      case
'm':\n      formatter = dateGetter(DateType.Minutes, 1);\n      break;\n      case 'mm':\n      formatter =
dateGetter(DateType.Minutes, 2);\n      break;\n      // Second of the minute (0-59)\n      case 's':\n
formatter = dateGetter(DateType.Seconds, 1);\n      break;\n      case 'ss':\n      formatter =
dateGetter(DateType.Seconds, 2);\n      break;\n      // Fractional second padded (0-9)\n      case 'S':\n
formatter = dateGetter(DateType.Milliseconds, 1);\n      break;\n      case 'SS':\n      formatter =
dateGetter(DateType.Milliseconds, 2);\n      break;\n      // = millisecond\n      case 'SSS':\n      formatter =
dateGetter(DateType.Milliseconds, 3);\n      break;\n      // Timezone ISO8601 short format (-0430)\n      case
'Z':\n      case 'ZZ':\n      case 'ZZZ':\n      formatter = timeZoneGetter(ZoneWidth.Short);\n      break;\n
// Timezone ISO8601 extended format (-04:30)\n      case 'ZZZZ':\n      formatter =
timeZoneGetter(ZoneWidth.Extended);\n      break;\n      // Timezone GMT short format (GMT+4)\n      case
'O':\n      case 'OO':\n      case 'OOO':\n      // Should be location, but fallback to format O instead because we
don't have the data yet\n      case 'z':\n      case 'zz':\n      case 'zzz':\n      formatter =
timeZoneGetter(ZoneWidth.ShortGMT);\n      break;\n      // Timezone GMT long format (GMT+0430)\n
case 'OOOO':\n      case 'ZZZZ':\n      // Should be location, but fallback to format O instead because we don't
have the data yet\n      case 'zzzz':\n      formatter = timeZoneGetter(ZoneWidth.Long);\n      break;\n
default:\n      return null;\n    }\n    DATE_FORMATS[format] = formatter;\n    return formatter;\n  }\n\n  /**\n   *
@param {?} timezone\n   * @param {?} fallback\n   * @return {?} \n   * ^\nfunction timezoneToOffset(timezone,
fallback) {\n    // Support: IE 9-11 only, Edge 13-15+\n    // IE/Edge do not \"understand\" colon (:) in timezone\n
timezone = timezone.replace(/:/g, \"\");\n    var /** @type {?} */ requestedTimezoneOffset = Date.parse('Jan 01, 1970
00:00:00 ' + timezone) / 60000;\n    return isNaN(requestedTimezoneOffset) ? fallback :\n
requestedTimezoneOffset;\n  }\n\n  /**\n   * @param {?} date\n   * @param {?} minutes\n   * @return {?} \n   * ^\nfunction
addDateMinutes(date, minutes) {\n    date = new Date(date.getTime());\n    date.setMinutes(date.getMinutes() +
minutes);\n    return date;\n  }\n\n  /**\n   * @param {?} date\n   * @param {?} timezone\n   * @param {?} reverse\n   *
@return {?} \n   * ^\nfunction convertTimezoneToLocal(date, timezone, reverse) {\n    var /** @type {?} */
reverseValue = reverse ? -1 : 1;\n    var /** @type {?} */ dateTimezoneOffset = date.getTimezoneOffset();\n    var
/** @type {?} */ timezoneOffset = timezoneToOffset(timezone, dateTimezoneOffset);\n    return
addDateMinutes(date, reverseValue * (timezoneOffset - dateTimezoneOffset));\n  }\n\n  /**\n   * @fileoverview added
by tsickle\n   * @suppress {checkTypes} checked by tsc\n   * ^\n\n  /**\n   * @license\n   * Copyright Google Inc. All Rights
Reserved.\n   * ^\n   * Use of this source code is governed by an MIT-style license that can be\n   * found in the
LICENSE file at https://angular.io/license\n   * ^\n\n  /**\n   * @param {?} type\n   * @param {?} value\n   * @return {?} \n   * ^\nfunction invalidPipeArgumentError(type, value) {\n    return Error(\"InvalidPipeArgument: \" + value + \" for

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pipe `"` + stringify(type) + `"`);
 checked by tsc
 license
 Copyright Google Inc. All Rights Reserved.
 Use of this source code is governed by an MIT-style license that can be found in the LICENSE file at https://angular.io/license
 ISO8601_DATE_REGEX = /
 (?
 CommonModule
 @whatItDoes Formats a date according to locale rules.
 @howToUse `date_expression` | date[:format[:timezone[:locale]]]
 @description
 Where: `expression` is a date object or a number (milliseconds since UTC epoch) or an ISO string (https://www.w3.org/TR/NOTE-datetime).
 `format` indicates which date/time components to include. The format can be predefined as shown below (all examples are given for `en-US`) or custom as shown in the table.
 - `short`: equivalent to `M/d/yy, h:mm a` (e.g. `6/15/15, 9:03 AM`)
 - `medium`: equivalent to `MMM d, y, h:mm:ss a` (e.g. `Jun 15, 2015, 9:03:01 AM`)
 - `long`: equivalent to `MMMM d, y, h:mm:ss a z` (e.g. `June 15, 2015 at 9:03:01 AM GMT+1`)
 - `full`: equivalent to `EEEE, MMMM d, y, h:mm:ss a zzzz` (e.g. `Monday, June 15, 2015 at 9:03:01 AM GMT+01:00`)
 - `shortDate`: equivalent to `M/d/yy` (e.g. `6/15/15`)
 - `mediumDate`: equivalent to `MMM d, y` (e.g. `Jun 15, 2015`)
 - `longDate`: equivalent to `MMMM d, y` (e.g. `June 15, 2015`)
 - `fullDate`: equivalent to `EEEE, MMMM d, y` (e.g. `Monday, June 15, 2015`)
 - `shortTime`: equivalent to `h:mm a` (e.g. `9:03 AM`)
 - `mediumTime`: equivalent to `h:mm:ss a` (e.g. `9:03:01 AM`)
 - `longTime`: equivalent to `h:mm:ss a z` (e.g. `9:03:01 AM GMT+1`)
 - `fullTime`: equivalent to `h:mm:ss a zzzz` (e.g. `9:03:01 AM GMT+01:00`)
 - `timezone` to be used for formatting. It understands UTC/GMT and the continental US time zone abbreviations, but for general use, use a time zone offset, for example, `+0430` (4 hours, 30 minutes east of the Greenwich meridian)
 If not specified, the local system timezone of the end-user's browser will be used.
 - `locale` is a string defining the locale to use (uses the current LOCALE_ID by default)

| Field Type | Format | Description |
|---------------------------------|---------------------------------|---|
| Example Value | | |
| | | Era G, GG & GGG Abbreviated |
| | AD | GGGG Wide |
| | Anno Domini | GGGGG Narrow |
| | A | Year y Numeric: |
| minimum digits | 2, 20, 201, 2017, 20173 | yy |
| Numeric: 2 digits + zero padded | 02, 20, 01, 17, 73 | |
| yyy | Numeric: 3 digits + zero padded | 002, 020, 201, 2017, 20173 |
| | yyyy | Numeric: 4 digits or more + zero padded |
| | Month | M Numeric: 1 digit |
| | MM | Numeric: 2 digits + zero padded |
| | MMM | Abbreviated |
| | MMMM | Wide |
| | MMMMM | Narrow |
| | Month standalone | L Numeric: 1 digit |
| | LL | Numeric: 2 digits + zero padded |
| | LLL | Abbreviated |
| | LLLL | Wide |
| | LLLLL | Narrow |
| | Week of year | w Numeric: minimum digits |
| | ww | Numeric: 2 digits + zero padded |
| 01... 53 | Week of month | W Numeric: 1 digit |
| 1... 5 | Day of month | d Numeric: minimum digits |
| 1 | dd | Numeric: 2 digits + zero padded |
| 01 | Week day | E, EE & EEE Abbreviated |

| | | | |
|--|--|--|--|
| Tue | \n * | EEEE | Wide |
| Tuesday | \n * | EEEEE | Narrow |
| T | \n * | EEEEEEE | Short |
| Tu | \n * Period | a, aa & aaa | Abbreviated |
| am/pm or AM/PM | \n * | aaaa | Wide (fallback to `a` when missing) |
| ante meridiem/post meridiem | \n * | aaaaa | Narrow |
| a/p | \n * Period* | B, BB & BBB | |
| Abbreviated | mid. | \n * | BBBB |
| Wide | am, pm, midnight, noon, morning, afternoon, evening, night | \n * | |
| BBBBB | Narrow | md | \n * Period |
| standalone* b, bb & bbb | Abbreviated | mid. | \n * |
| bbbb | Wide | am, pm, midnight, noon, morning, afternoon, evening, night | \n * |
| bbbbbb | Narrow | md | |
| \n * Hour 1-12 | h | Numeric: minimum digits | 1, 12 |
| \n * | hh | Numeric: 2 digits + zero padded | 01, 12 |
| \n * Hour 0-23 | H | Numeric: minimum digits | 0, 23 |
| \n * | HH | Numeric: 2 digits + zero padded | 00, 23 |
| \n * Minute | m | Numeric: minimum digits | |
| 8, 59 | \n * | mm | Numeric: 2 digits + zero padded |
| 08, 59 | \n * Second | s | Numeric: minimum digits |
| 0... 59 | \n * | ss | Numeric: 2 digits + zero padded |
| 00... 59 | \n * Fractional seconds | S | Numeric: 1 digit |
| 0... 9 | \n * | SS | Numeric: 2 digits + zero padded |
| padded | 00... 99 | \n * | SSS Numeric: 3 digits |
| + zero padded (= milliseconds) | 000... 999 | \n * Zone | z, zz & zzz |
| Short specific non location format (fallback to O) | GMT-8 | \n * | |
| zzzz | Long specific non location format (fallback to OOOO) | GMT-08:00 | |
| \n * | Z, ZZ & ZZZ ISO8601 basic format | -0800 | |
| \n * | ZZZZ Long localized GMT format | GMT-8:00 | |
| \n * | ZZZZZ ISO8601 extended format + Z indicator for offset 0 (= XXXXX) | -08:00 | |
| \n * | O, OO & OOO Short localized GMT format | | |
| GMT-8 | \n * | OOOO Long localized GMT format | |
| GMT-08:00 | \n * | \n * \n * \n * | When the expression is a ISO string without time (e.g. 2016-09-19) the time zone offset is not \n * applied and the formatted text will have the same day, month and year of the expression. |

\n * WARNINGS:\n * - this pipe has only access to en-US locale data by default. If you want to localize the dates\n * in another language, you will have to import data for other locales.\n * See the [{@linkDocs guide/i18n#i18n-pipes "I18n guide"}](#) to know how to import additional locale\n * data.\n * - Fields suffixed with * are only available in the extra dataset.\n * See the [{@linkDocs guide/i18n#i18n-pipes "I18n guide"}](#) to know how to import extra locale\n * data.\n * - this pipe is marked as pure hence it will not be re-evaluated when the input is mutated.\n * Instead users should treat the date as an immutable object and change the reference when the\n * pipe needs to re-run (this is to avoid reformatting the date on every change detection run\n * which would be an expensive operation).\n * \n * ### Examples\n * \n * Assuming `dateObj` is (year: 2015, month: 6, day: 15, hour: 21, minute: 43, second: 11)\n * in the `_local_` time and locale is 'en-US':\n * \n *

```
{@example common/pipes/ts/date_pipe.ts region='DatePipe'}\n * \n * @@stable\n * \n * nvar DatePipe = /** @class */ (function () {\n *   function DatePipe(locale) {\n *     this.locale = locale;\n *   }\n *   /**\n *    * @param {?} value\n *    * @param {?=} format\n *    * @param {?=} timezone\n *    * @param {?=} locale\n *    * @return {?}\n *    */\n *   DatePipe.prototype.transform = /**\n *    * @param {?} value\n *    * @param {?=} format\n *    * @param {?=} timezone\n *    * @param {?=} locale\n *    * @return {?}\n *    */\n *   function (value, format, timezone, locale) {\n
```



```

if (format === void 0) { format = 'mediumDate'; }
return null;
if (typeof value === 'string') {
    value = value.trim();
    var /** @type {?} */
    date;
    var /** @type {?} */
    match;
    if (isDate$(value)) {
        date = value;
    } else if (!isNaN(value - parseFloat(value))) {
        date = new Date(parseFloat(value));
    } else if (typeof value === 'string' && /^(\\d{4}-\\d{1,2}-\\d{1,2})$/.test(value)) {
        /**
         * For ISO Strings without
         * time the day, month and year must be extracted from the ISO String
         * before Date creation to avoid time
         * offset and errors in the new Date.
         * If we only replace '-' with ',' in the ISO String ('2015,01,01'), and try
         * to create a new
         * date, some browsers (e.g. IE 9) will throw an invalid Date error
         * If we leave
         * the '-' ('2015-01-01') and try to create a new Date('2015-01-01') the timeoffset
         * is applied
         * Note: ISO months are 0 for January, 1 for February, ...
         */
        var _a = value.split('-').map(function (val) { return +val; });
        y = _a[0], m = _a[1], d = _a[2];
        date = new Date(y, m - 1, d);
    } else if ((typeof value === 'string') && (match = value.match(ISO8601_DATE_REGEX))) {
        date = isoStringToDate(match);
    } else {
        date = new Date(value);
    }
    if (!isDate$(date)) {
        throw invalidPipeArgumentError(DatePipe, value);
    }
    return formatDate(date, format, locale || this.locale, timezone);
};
DatePipe.decorators = [
    { type: Pipe, args: [{ name: 'date', pure: true }, ] },
];
/** @nocollapse */
DatePipe.ctorParameters = function () { return [
    { type: undefined, decorators: [{ type: Inject, args: [LOCALE_ID, ] }, ] },
]; };
return DatePipe;
})();
/**
 * @internal
 * @param {?}
 * match
 * @return {?}
 */
function isoStringToDate(match) {
    var /** @type {?} */
    date = new Date(0);
    var /** @type {?} */
    tzHour = 0;
    var /** @type {?} */
    tzMin = 0;
    // match[8] means that the string contains
    // "Z" (UTC) or a timezone like "+01:00" or "+0100"
    var /** @type {?} */
    dateSetter = match[8] ?
    date.setUTCFullYear : date.setFullYear;
    var /** @type {?} */
    timeSetter = match[8] ? date.setUTCHours :
    date.setHours;
    // if there is a timezone defined like "+01:00" or "+0100"
    if (match[9]) {
        tzHour = +(match[9] + match[10]);
        tzMin = +(match[9] + match[11]);
    }
    dateSetter.call(date, +(match[1]), +(match[2]) - 1, +(match[3]));
    var /** @type {?} */
    h = +(match[4] || '0') - tzHour;
    var /** @type {?} */
    m = +(match[5] || '0') - tzMin;
    var /** @type {?} */
    s = +(match[6] || '0');
    var /** @type {?} */
    ms = Math.round(parseFloat('0.' + (match[7] || 0)) * 1000);
    timeSetter.call(date, h, m, s, ms);
    return date;
};
/**
 * @param {?}
 * value
 * @return {?}
 */
function isDate$(value) {
    return value instanceof Date && !isNaN(value.valueOf());
};
/**
 * @fileoverview added by tsickle
 * @suppress {checkTypes} checked by tsc
 */
var NumberFormatter = /** @class */ (function () {
    function NumberFormatter() {
    }
    /**
     * @param {?}
     * num
     * @param {?}
     * locale
     * @param {?}
     * style
     * @param {=}
     * opts
     * @return {?}
     */
    NumberFormatter.format = /**
     * @param {?}
     * num
     * @param {?}
     * locale
     * @param {?}
     * style
     * @param {=}
     * opts
     * @return {?}
     */
    function (num, locale, style, opts) {
        if (opts === void 0) {
            opts = {};
        }
        var minimumIntegerDigits = opts.minimumIntegerDigits,
            minimumFractionDigits = opts.minimumFractionDigits,
            maximumFractionDigits = opts.maximumFractionDigits,
            currency = opts.currency,
            _a = opts.currencyAsSymbol,
            currencyAsSymbol = _a === void 0 ? false : _a;
        var /** @type {?} */
        options = {
            minimumIntegerDigits: minimumIntegerDigits,
            minimumFractionDigits: minimumFractionDigits,
            maximumFractionDigits: maximumFractionDigits,
            style: NumberFormatStyle[style].toLowerCase();
        };
        if (style == NumberFormatStyle.Currency) {
            options.currency = typeof currency == 'string' ? currency : undefined;
            options.currencyDisplay = currencyAsSymbol ? 'symbol' : 'code';
        }
        return new Intl.NumberFormat(locale, options).format(num);
    };
    return NumberFormatter;
})();
var DATE_FORMATS_SPLIT$1 = /((?:[^\MLdHhmsazZEwGjJ]+)|(?:'(?:[^\"]|")')*)(?:E|y|M+|L+d|H|h+J+j+|m+s|a|z|Z|G+w+)(.*)/;
var PATTERN_ALIASES = {
    // Keys are quoted so they do not get renamed during closure compilation.
    'yMMMdjms': datePartGetterFactory(
        combine([
            digitCondition('year', 1),
            nameCondition('month', 3),
            digitCondition('day', 1),
            digitCondition('hour', 1),
            digitCondition('minute', 1),
            digitCondition('second', 1),
        ]),
        'yMdjm': datePartGetterFactory(
            combine([
                digitCondition('year', 1),
                digitCondition('month', 1),
                digitCondition('day', 1),
                digitCondition('hour', 1),
                digitCondition('minute', 1)
            ])),
        'yMMMMEEEEd': datePartGetterFactory(
            combine([
                digitCondition('year', 1),
                nameCondition('month',

```

```

4), nameCondition('weekday', 4),\n    digitCondition('day', 1)\n  ]),\n  'yMMMMd':
datePartGetterFactory(combine([digitCondition('year', 1), nameCondition('month', 4), digitCondition('day', 1)])),\n
'yMMMMd': datePartGetterFactory(combine([digitCondition('year', 1), nameCondition('month', 3),
digitCondition('day', 1)])),\n  'yMd': datePartGetterFactory(combine([digitCondition('year', 1),
digitCondition('month', 1), digitCondition('day', 1)])),\n  'jms':
datePartGetterFactory(combine([digitCondition('hour', 1), digitCondition('second', 1), digitCondition('minute',
1)])),\n  'jm': datePartGetterFactory(combine([digitCondition('hour', 1), digitCondition('minute', 1)]))\n};\nvar
DATE_FORMATS$1 = {\n  // Keys are quoted so they do not get renamed.\n  'yyyy':
datePartGetterFactory(digitCondition('year', 4)),\n  'yy': datePartGetterFactory(digitCondition('year', 2)),\n  'y':
datePartGetterFactory(digitCondition('year', 1)),\n  'MMMM': datePartGetterFactory(nameCondition('month',
4)),\n  'MMM': datePartGetterFactory(nameCondition('month', 3)),\n  'MM':
datePartGetterFactory(digitCondition('month', 2)),\n  'M': datePartGetterFactory(digitCondition('month', 1)),\n
'LLLL': datePartGetterFactory(nameCondition('month', 4)),\n  'L': datePartGetterFactory(nameCondition('month',
1)),\n  'dd': datePartGetterFactory(digitCondition('day', 2)),\n  'd': datePartGetterFactory(digitCondition('day',
1)),\n  'HH': digitModifier(hourExtractor(datePartGetterFactory(hour12Modify(digitCondition('hour', 2),
false))),\n  'H': hourExtractor(datePartGetterFactory(hour12Modify(digitCondition('hour', 1), false))),\n  'hh':
digitModifier(hourExtractor(datePartGetterFactory(hour12Modify(digitCondition('hour', 2), true))),\n  'h':
hourExtractor(datePartGetterFactory(hour12Modify(digitCondition('hour', 1), true))),\n  'jj':
datePartGetterFactory(digitCondition('hour', 2)),\n  'j': datePartGetterFactory(digitCondition('hour', 1)),\n  'mm':
digitModifier(datePartGetterFactory(digitCondition('minute', 2))),\n  'm':
datePartGetterFactory(digitCondition('minute', 1)),\n  'ss':
digitModifier(datePartGetterFactory(digitCondition('second', 2))),\n  's':
datePartGetterFactory(digitCondition('second', 1)),\n  // while ISO 8601 requires fractions to be prefixed with `.` or
`,`,\n  // we can be just safely rely on using `sss` since we currently don't support single or two digit\n  //
fractions\n  'sss': datePartGetterFactory(digitCondition('second', 3)),\n  'EEEE':
datePartGetterFactory(nameCondition('weekday', 4)),\n  'EEE': datePartGetterFactory(nameCondition('weekday',
3)),\n  'EE': datePartGetterFactory(nameCondition('weekday', 2)),\n  'E':
datePartGetterFactory(nameCondition('weekday', 1)),\n  'a':
hourClockExtractor(datePartGetterFactory(hour12Modify(digitCondition('hour', 1), true))),\n  'Z':
timeZoneGetter$1('short'),\n  'z': timeZoneGetter$1('long'),\n  'ww': datePartGetterFactory({}),\n  // Week of
year, padded (00-53). Week 01 is the week with the\n  // first Thursday of the year. not support ?\n  'w':
datePartGetterFactory({}),\n  // Week of year (0-53). Week 1 is the week with the first Thursday\n  // of the year
not support ?\n  'G': datePartGetterFactory(nameCondition('era', 1)),\n  'GG':
datePartGetterFactory(nameCondition('era', 2)),\n  'GGG': datePartGetterFactory(nameCondition('era', 3)),\n
'GGGG': datePartGetterFactory(nameCondition('era', 4))\n};\n\n/**\n * @param {?} inner\n * @return {?} \n
*\nfunction digitModifier(inner) {\n  return function (date, locale) {\n    var /** @type {?} */ result =
inner(date, locale);\n    return result.length == 1 ? '0' + result : result;\n  };\n}\n\n/**\n * @param {?} inner\n *
@return {?} \n*\nfunction hourClockExtractor(inner) {\n  return function (date, locale) {\n    return inner(date,
locale).split(' ')[1];\n  };\n}\n\n/**\n * @param {?} inner\n * @return {?} \n*\nfunction hourExtractor(inner) {\n
return function (date, locale) {\n    return inner(date, locale).split(' ')[0];\n  };\n}\n\n/**\n * @param {?} date\n *
@param
{?} locale\n * @param {?} options\n * @return {?} \n*\nfunction intlDateFormat(date, locale, options) {\n  return
new Intl.DateTimeFormat(locale, options).format(date).replace(/[\u200e\u200f]/g, "");\n}\n\n/**\n * @param {?}
timezone\n * @return {?} \n*\nfunction timeZoneGetter$1(timezone) {\n  // To workaround `Intl` API restriction
for single timezone let format with 24 hours\n  var /** @type {?} */ options = { hour: '2-digit', hour12: false,
timeZoneName: timezone };\n  return function (date, locale) {\n    var /** @type {?} */ result =
intlDateFormat(date, locale, options);\n    // Then extract first 3 letters that related to hours\n    return result ?
result.substring(3) : "";\n  };\n}\n\n/**\n * @param {?} options\n * @param {?} value\n * @return {?} \n*\nfunction
hour12Modify(options, value) {\n  options.hour12 = value;\n  return options;\n}\n\n/**\n * @param {?} prop\n *

```


* Timezone of the formatted text will be the local system timezone of the end-user's machine.\n * When the expression is a ISO string without time (e.g. 2016-09-19) the time zone offset is not\n * applied and the formatted text will have the same day, month and year of the expression.\n * WARNINGS:\n * - this pipe is marked as pure hence it will not be re-evaluated when the input is mutated.\n * Instead users should treat the date as an immutable object and change the reference when the\n * pipe needs to re-run (this is to avoid reformatting the date on every change detection run\n * which would be an expensive operation).\n * - this pipe uses the Internationalization API. Therefore it is only reliable in Chrome and Opera\n * browsers.\n * ### Examples\n * Assuming `dateObj` is (year: 2010, month: 9, day: 3, hour: 12 PM, minute: 05, second: 08)\n * in the `_local_` time and locale is 'en-US':\n *

```

  @@example common/pipes/ts/date_pipe.ts region='DeprecatedDatePipe'
  @@stable
  nvar DeprecatedDatePipe = /** @class */ (function () {
    function DeprecatedDatePipe(_locale) {
      this._locale = _locale;
    }
    /** @param {?} value\n * @param {=} pattern\n * @return {?} */
    DeprecatedDatePipe.prototype.transform = /**\n * @param {?} value\n * @param {=} pattern\n * @return {?} */
    function (value, pattern) {
      if (pattern === void 0) { pattern = 'mediumDate'; }
      if (value == null || value === "" || value !== value)
        return null;
      var /** @type {?} */ date;
      if (typeof value === 'string') {
        value = value.trim();
        if (isDate(value)) {
          date = value;
        } else if (!isNaN(value - parseFloat(value))) {
          date = new Date(parseFloat(value));
        } else if (typeof value === 'string' && /^(\d{4}-\d{1,2}-\d{1,2})$/.test(value)) {
          /**\n * For ISO Strings without time the day, month and year must be extracted from the ISO String\n * before Date creation to avoid time offset and errors in the new Date.\n * If we only replace '-' with ',' in the ISO String ("2015,01,01"), and try to create a new\n * date, some browsers (e.g. IE 9) will throw an invalid Date error\n * If we leave the '-' ("2015-01-01") and try to create a new Date("2015-01-01") the\n * timezoneoffset\n * is applied\n * Note: ISO months are 0 for January, 1 for February, ...
          var _a = value.split('-').map(function (val) { return parseInt(val, 10); }),
              y = _a[0],
              m = _a[1],
              d = _a[2];
          date = new Date(y, m - 1, d);
        } else {
          date = new Date(value);
        }
        if (isDate(date)) {
          var /** @type {?} */ match = void 0;
          if ((typeof value === 'string') && (match = value.match(ISO8601_DATE_REGEX))) {
            date = isoStringToDate(match);
          } else {
            throw invalidPipeArgumentError(DeprecatedDatePipe, value);
          }
        }
        return DateFormatter.format(date, this._locale, DeprecatedDatePipe._ALIASES[pattern] || pattern);
      }
      /**\n * @@internal\n *
      DeprecatedDatePipe._ALIASES = {
        'medium': 'yMMMdjms',
        'short': 'yMdjM',
        'fullDate': 'yMMMMEEEEd',
        'longDate': 'yMMMMd',
        'mediumDate': 'yMMMd',
        'shortDate': 'yMd',
        'mediumTime': 'jms',
        'shortTime': 'jm'
      };
      DeprecatedDatePipe.decorators = [
        { type: Pipe, args: [{ name: 'date', pure: true },] },
      ];
      /** @nocollapse */
      DeprecatedDatePipe.ctorParameters = function () {
        return [
          { type: undefined, decorators: [{ type: Inject, args: [LOCALE_ID,] },] },
        ];
      };
      return DeprecatedDatePipe;
    }();
    /**\n * @param {?} value\n * @return {?} */
    function isDate(value) {
      return value instanceof Date && !isNaN(value.valueOf());
    }
  }
  /**\n * @fileoverview added by tsickle\n * @suppress {checkTypes} checked by tsc\n *
  * @license\n * Copyright Google Inc. All Rights Reserved.\n * Use of this source code is governed by an MIT-style license that can be\n * found in the LICENSE file at\n * https://angular.io/license\n *
  nvar NUMBER_FORMAT_REGEXP = /^(\\d+)?\\.((\\d+)(-\\d+))?$;/
  nvar MAX_DIGITS = 22;
  nvar DECIMAL_SEP = '.';
  nvar ZERO_CHAR = '0';
  nvar PATTERN_SEP = ',';
  nvar GROUP_SEP = ',';
  nvar DIGIT_CHAR = '#';
  nvar CURRENCY_CHAR = '¤';
  nvar PERCENT_CHAR = '%';
  /**\n * Transform a number to a locale string based on a style and a format\n * @@internal\n * @param {?} value\n * @param {?} locale\n * @param {?} style\n * @param {=} digitsInfo\n * @param {=} currency\n * @return {?} */
  function formatNumber$1(value, locale, style, digitsInfo, currency) {
    if (currency === void 0) {
      currency = null;
    }
    var /** @type {?} */ res = { str: null };
    var /** @type {?} */ format = getLocaleNumberFormat(locale, style);
    var /** @type {?} */ num;
    // Convert strings to numbers
    if (typeof value === 'string' && !isNaN(+value - parseFloat(value))) {
      num = +value;
    } else if (typeof value !== 'number') {
      res.error = value + " is not a number";
      return res;
    } else {
      num =
    
```

```

value;\n }\n var /** @type {?} */ pattern = parseNumberFormat(format, getLocaleNumberSymbol(locale,
NumberSymbol.MinusSign));\n var /** @type {?} */ formattedText = ";\n var /** @type {?} */ isZero = false;\n
if (!isFinite(num)) {\n formattedText = getLocaleNumberSymbol(locale, NumberSymbol.Infinity);\n }\n
else {\n var /** @type {?} */ parsedNumber = parseNumber(num);\n if (style ===
NumberFormatStyle.Percent) {\n parsedNumber = toPercent(parsedNumber);\n }\n var /** @type
{?} */ minInt = pattern.minInt;\n var /** @type {?} */ minFraction = pattern.minFrac;\n var /** @type {?}
*/ maxFraction = pattern.maxFrac;\n if (digitsInfo) {\n var /** @type {?} */ parts =
digitsInfo.match(NUMBER_FORMAT_REGEX);\n if (parts === null) {\n res.error = digitsInfo +
\' is not a valid digit info\';\n return res;\n }\n var /** @type {?} */ minIntPart = parts[1];\n
var /** @type {?} */ minFractionPart = parts[3];\n var /** @type {?} */ maxFractionPart = parts[5];\n
if (minIntPart != null) {\n minInt = parseIntAutoRadix(minIntPart);\n }\n if
(minFractionPart != null) {\n minFraction = parseIntAutoRadix(minFractionPart);\n }\n if
(maxFractionPart != null) {\n maxFraction = parseIntAutoRadix(maxFractionPart);\n }\n else
if (minFractionPart != null && minFraction > maxFraction) {\n maxFraction = minFraction;\n }\n
}\n roundNumber(parsedNumber, minFraction, maxFraction);\n var /** @type {?} */ digits =
parsedNumber.digits;\n var /** @type {?} */ integerLen = parsedNumber.integerLen;\n var /** @type {?}
*/ exponent = parsedNumber.exponent;\n var /** @type {?} */ decimals = [];\n isZero =
digits.every(function (d) { return !d; });\n // pad zeros for small numbers\n for (; integerLen < minInt;
integerLen++) {\n digits.unshift(0);\n }\n // pad zeros for small numbers\n for (; integerLen < 0;
integerLen++) {\n digits.unshift(0);\n }\n // extract decimals digits\n if (integerLen > 0) {\n
decimals = digits.splice(integerLen, digits.length);\n }\n else {\n decimals = digits;\n digits =
[0];\n }\n // format the integer digits with grouping separators\n var /** @type {?} */ groups = [];\n
if (digits.length >= pattern.lgSize) {\n groups.unshift(digits.splice(-pattern.lgSize, digits.length).join("));\n
}\n while (digits.length > pattern.gSize) {\n groups.unshift(digits.splice(-pattern.gSize,
digits.length).join("));\n }\n if (digits.length) {\n groups.unshift(digits.join("));\n }\n var /**
@type {?} */ groupSymbol = currency ? NumberSymbol.CurrencyGroup : NumberSymbol.Group;\n
formattedText = groups.join(getLocaleNumberSymbol(locale, groupSymbol));\n // append the decimal digits\n
if (decimals.length) {\n var /** @type {?} */ decimalSymbol = currency ?
NumberSymbol.CurrencyDecimal : NumberSymbol.Decimal;\n formattedText +=
getLocaleNumberSymbol(locale, decimalSymbol) + decimals.join(");\n }\n if (exponent) {\n
formattedText += getLocaleNumberSymbol(locale, NumberSymbol.Exponential) + '+' + exponent;\n }\n }\n
if (num < 0 && !isZero) {\n formattedText = pattern.negPre + formattedText + pattern.negSuf;\n }\n else
{\n formattedText = pattern.posPre + formattedText + pattern.posSuf;\n }\n if (style ===
NumberFormatStyle.Currency && currency !== null) {\n res.str = formattedText\n
.replace(CURRENCY_CHAR, currency)\n .replace(CURRENCY_CHAR, ");\n return res;\n }\n if
(style === NumberFormatStyle.Percent) {\n res.str = formattedText.replace(new RegExp(PERCENT_CHAR,
'g'), getLocaleNumberSymbol(locale, NumberSymbol.PercentSign));\n return res;\n }\n res.str =
formattedText;\n return res;\n}\n\n/**\n * @param {?} format\n * @param {?} = minusSign\n * @return {?} \n
*/\nfunction parseNumberFormat(format, minusSign) {\n if (minusSign === void 0) { minusSign = '-'; }\n var
/** @type {?} */ p = {\n minInt: 1,\n minFrac: 0,\n maxFrac: 0,\n posPre: ",\n posSuf: ",\n
negPre: ",\n negSuf: ",\n gSize: 0,\n lgSize: 0\n }; \n var /** @type {?} */ patternParts =
format.split(PATTERN_SEP);\n var /** @type {?} */ positive = patternParts[0];\n var /** @type {?} */
negative = patternParts[1];\n var /** @type {?} */ positiveParts = positive.indexOf(DECIMAL_SEP) !== -1 ?\n
positive.split(DECIMAL_SEP) : [\n positive.substring(0, positive.lastIndexOf(ZERO_CHAR) + 1),\n
positive.substring(positive.lastIndexOf(ZERO_CHAR) + 1)\n ], /** @type {?} */\n integer =
positiveParts[0], /** @type {?} */ fraction = positiveParts[1] || ";\n p.posPre = integer.substr(0,
integer.indexOf(DIGIT_CHAR));\n for (var /** @type {?} */ i = 0; i < fraction.length; i++) {\n var /** @type
{?} */ ch = fraction.charAt(i);\n if (ch === ZERO_CHAR) {\n p.minFrac = p.maxFrac = i + 1;\n }\n
}

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else if (ch === DIGIT_CHAR) {\n      p.maxFrac = i + 1;\n    }\n    else {\n      p.posSuf += ch;\n    }\n  }\n  var /** @type {?} */ groups = integer.split(GROUP_SEP);\n  p.gSize = groups[1] ? groups[1].length : 0;\n  p.lgSize = (groups[2] || groups[1]) ? (groups[2] || groups[1]).length : 0;\n  if (negative) {\n    var /** @type {?} */ trunkLen = positive.length - p.posPre.length - p.posSuf.length, /** @type {?} */\n    pos = negative.indexOf(DIGIT_CHAR);\n    p.negPre = negative.substr(0, pos).replace(/g, ");\n    p.negSuf = negative.substr(pos + trunkLen).replace(/g, ");\n  }\n  else {\n    p.negPre = minusSign + p.posPre;\n    p.negSuf = p.posSuf;\n  }\n  return p;\n}\n\n/**\n * @param {?} parsedNumber\n * @return {?} *\n */\nfunction toPercent(parsedNumber) {\n  // if the number is 0, don't do anything\n  if (parsedNumber.digits[0] === 0) {\n    return parsedNumber;\n  }\n  // Getting the current number of decimals\n  var /** @type {?} */ fractionLen = parsedNumber.digits.length - parsedNumber.integerLen;\n  if (parsedNumber.exponent) {\n    parsedNumber.exponent += 2;\n  }\n  else {\n    if (fractionLen === 0) {\n      parsedNumber.digits.push(0);\n    }\n    else if (fractionLen === 1) {\n      parsedNumber.digits.push(0);\n    }\n    parsedNumber.integerLen += 2;\n  }\n  return parsedNumber;\n}\n\n/**\n * Parses a number.\n * Significant bits of this parse algorithm came from https://github.com/MikeMcl/big.js/\n * @param {?} num\n * @return {?} *\n */\nfunction parseNumber(num) {\n  var /** @type {?} */ numStr = Math.abs(num) + ";\n  var /** @type {?} */ exponent = 0, /** @type {?} */ digits, /** @type {?} */ integerLen;\n  var /** @type {?} */ i, /** @type {?} */ j, /** @type {?} */ zeros;\n  // Decimal point?\n  if ((integerLen = numStr.indexOf(DECIMAL_SEP)) > -1) {\n    numStr = numStr.replace(DECIMAL_SEP, ");\n  }\n  // Exponential form?\n  if ((i = numStr.search(/e/i)) > 0) {\n    // Work out the exponent.\n    if (integerLen < 0)\n      integerLen = i;\n    integerLen += +numStr.slice(i + 1);\n    numStr = numStr.substring(0, i);\n  }\n  else if (integerLen < 0) {\n    // There was no decimal point or exponent so it is an integer.\n    integerLen = numStr.length;\n  }\n  // Count the number of leading zeros.\n  for (i = 0; numStr.charAt(i) === ZERO_CHAR; i++) {\n    /* empty *\n  }\n  if (i === (zeros = numStr.length)) {\n    // The digits are all zero.\n    digits = [0];\n    integerLen = 1;\n  }\n  else {\n    // Count the number of trailing zeros\n    zeros--;\n    while (numStr.charAt(zeros) === ZERO_CHAR)\n      zeros--;\n    // Trailing zeros are insignificant so ignore them\n    integerLen -= i;\n    digits = [];\n    // Convert string to array of digits without leading/trailing zeros.\n    for (j = 0; i <= zeros; i++, j++) {\n      digits[j] = +numStr.charAt(i);\n    }\n  }\n  // If the number overflows the maximum allowed digits then use an exponent.\n  if (integerLen > MAX_DIGITS) {\n    digits = digits.splice(0, MAX_DIGITS - 1);\n    exponent = integerLen - 1;\n    integerLen = 1;\n  }\n  return { digits: digits, exponent: exponent, integerLen: integerLen };\n}\n\n/**\n * Round the parsed number to the specified number of decimal places\n * This function changes the parsedNumber in-place\n * @param {?} parsedNumber\n * @param {?} minFrac\n * @param {?} maxFrac\n * @return {?} *\n */\nfunction roundNumber(parsedNumber, minFrac, maxFrac) {\n  if (minFrac > maxFrac) {\n    throw new Error("The minimum number of digits after fraction (" + minFrac + ") is higher than the maximum (" + maxFrac + ").");\n  }\n  var /** @type {?} */ digits = parsedNumber.digits;\n  var /** @type {?} */ fractionLen = digits.length - parsedNumber.integerLen;\n  var /** @type {?} */ fractionSize = Math.min(Math.max(minFrac, fractionLen), maxFrac);\n  // The index of the digit to where rounding is to occur\n  var /** @type {?} */ roundAt = fractionSize + parsedNumber.integerLen;\n  var /** @type {?} */ digit = digits[roundAt];\n  if (roundAt > 0) {\n    // Drop fractional digits beyond `roundAt`\n    digits.splice(Math.max(parsedNumber.integerLen, roundAt));\n    // Set non-fractional digits beyond `roundAt` to 0\n    for (var /** @type {?} */ j = roundAt; j < digits.length; j++) {\n      digits[j] = 0;\n    }\n  }\n  else {\n    // We rounded to zero so reset the parsedNumber\n    fractionLen = Math.max(0, fractionLen);\n    parsedNumber.integerLen = 1;\n    digits.length = Math.max(1, roundAt = fractionSize + 1);\n    digits[0] = 0;\n    for (var /** @type {?} */ i = 1; i < roundAt; i++)\n      digits[i] = 0;\n  }\n  if (digit >= 5) {\n    if (roundAt - 1 < 0) {\n      for (var /** @type {?} */ k = 0; k > roundAt; k--) {\n        digits.unshift(0);\n        parsedNumber.integerLen++;\n      }\n      digits.unshift(1);\n      parsedNumber.integerLen++;\n    }\n    else {\n      digits[roundAt - 1]++;\n    }\n  }\n  // Pad out with zeros to get the required fraction length\n  for (; fractionLen < Math.max(0, fractionSize); fractionLen++)\n    digits.push(0);\n  var /** @type {?} */ dropTrailingZeros = fractionSize !== 0;\n  // Minimal length = nb of decimals required + current nb of

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integers\n // Any number besides that is optional and can be removed if it's a trailing 0\n var /** @type {?} */
minLen = minFrac + parsedNumber.integerLen;\n // Do any carrying, e.g. a digit was rounded up to 10\n var /**
@param {?} */ carry = digits.reduceRight(function (carry, d, i, digits) {\n d = d + carry;\n digits[i] = d < 10 ?
d : d - 10; // d % 10\n if (dropTrailingZeros) {\n // Do not keep meaningless fractional trailing zeros (e.g.
15.52000 --> 15.52)\n if (digits[i] === 0 && i >= minLen) {\n digits.pop();\n }\n else
{\n dropTrailingZeros = false;\n }\n }\n return d >= 10 ? 1 : 0; // Math.floor(d / 10);\n },
0);\n if (carry) {\n digits.unshift(carry);\n parsedNumber.integerLen++;\n }\n}\n\n/**\n * @@internal\n *
@param {?} text\n * @return ?\n */\nfunction parseIntAutoRadix(text) {\n var /** @type {?} */ result =
parseInt(text);\n if (isNaN(result)) {\n throw new Error('Invalid integer literal when parsing ' + text);\n }\n
return result;\n}\n\n/**\n * @fileoverview added by tsickle\n * @suppress {checkTypes} checked by tsc\n */\n\n
* @license\n * Copyright Google Inc. All Rights Reserved.\n * Use of this source code is governed by an MIT-
style license that can be\n * found in the LICENSE file at https://angular.io/license\n */\n\n * @param {?} pipe\n *
@param {?} locale\n * @param {?} value\n * @param {?} style\n * @param {?=} digits\n * @param {?=}
currency\n * @param {?=} currencyAsSymbol\n * @return ?\n */\nfunction formatNumber(pipe, locale, value,
style, digits, currency, currencyAsSymbol) {\n if (currency === void 0) { currency = null; }\n if
(currencyAsSymbol === void 0) { currencyAsSymbol = false; }\n if (value == null)\n return null;\n //
Convert strings to numbers\n value = typeof value === 'string' && !isNaN(+value - parseFloat(value)) ? +value :
value;\n if (typeof value !== 'number') {\n throw invalidPipeArgumentError(pipe, value);\n }\n var /**
@param {?} */ minInt;\n var /** @type {?} */ minFraction;\n var /** @type {?} */ maxFraction;\n if (style !==
NumberFormatStyle.Currency) {\n // rely on Intl default for currency\n minInt = 1;\n minFraction =
0;\n maxFraction = 3;\n }\n if (digits) {\n var /** @type {?} */ parts =
digits.match(NUMBER_FORMAT_REGEXP);\n if (parts === null) {\n throw new Error(digits + '\n is
not a valid digit info for number pipes');\n }\n if (parts[1] != null) {\n // min integer digits\n
minInt = parseIntAutoRadix(parts[1]);\n }\n if (parts[3] != null) {\n // min fraction digits\n
minFraction = parseIntAutoRadix(parts[3]);\n }\n if (parts[5] != null) {\n // max fraction digits\n
maxFraction = parseIntAutoRadix(parts[5]);\n }\n }\n return NumberFormatter.format(** @type {?} */
(value), locale, style, {\n minimumIntegerDigits: minInt,\n minimumFractionDigits: minFraction,\n
maximumFractionDigits: maxFraction,\n currency: currency,\n currencyAsSymbol: currencyAsSymbol,\n
});\n}\n\n/**\n * @@ngModule CommonModule\n * @@whatItDoes Formats a number according to locale rules.\n *
@@howToUse `number_expression | number[:digitInfo]`\n * Formats a number as text. Group sizing and
separator and other locale-specific\n * configurations are based on the active locale.\n * where `expression` is a
number:\n * - `digitInfo` is a `string` which has a following format: <br>\n *
<code>{minIntegerDigits}.{minFractionDigits}-{maxFractionDigits}</code>\n * - `minIntegerDigits` is the
minimum number of integer digits to use. Defaults to `1`.\n * - `minFractionDigits` is the minimum number of
digits after fraction. Defaults to `0`.\n * - `maxFractionDigits` is the maximum number of digits after fraction.
Defaults to `3`.\n * For more information on the acceptable range for each of these numbers and other\n * details
see your native internationalization library.\n * WARNING: this pipe uses the Internationalization API which is
not yet available in all browsers\n * and may require a polyfill. See [Browser Support](guide/browser-support) for
details.\n * ### Example\n * @@example common/pipes/ts/number_pipe.ts
region='DeprecatedNumberPipe'}\n * @@stable\n */\nvar DeprecatedDecimalPipe = /** @class */ (function ()
{\n function DeprecatedDecimalPipe(_locale) {\n this._locale = _locale;\n }\n /**\n * @param {?}
value\n * @param {?=} digits\n * @return ?\n */\n DeprecatedDecimalPipe.prototype.transform = /**\n *
@param {?} value\n * @param {?=} digits\n * @return ?\n */\n function (value, digits) {\n
return formatNumber(DeprecatedDecimalPipe, this._locale, value, NumberFormatStyle.Decimal, digits);\n }\n
\n DeprecatedDecimalPipe.decorators = [\n { type: Pipe, args: [{ name: 'number' }, ],\n },\n ];\n /** @nocollapse
*\n */\n DeprecatedDecimalPipe.ctorParameters = function () { return [\n { type: undefined, decorators: [{ type:
Inject, args: [LOCALE_ID, ], },\n ],\n },\n ];\n return DeprecatedDecimalPipe;\n});\n\n/**\n * @@ngModule
CommonModule\n * @@whatItDoes Formats a number as a percentage according to locale rules.\n * @@howToUse

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`number_expression | percent[:digitInfo]`\n * \n * @@description\n * \n * Formats a number as percentage.\n * \n * -
`digitInfo` See {@link DecimalPipe} for detailed description.\n * \n * WARNING: this pipe uses the
Internationalization API which is not yet available in all browsers\n * and may require a polyfill. See [Browser
Support](guide/browser-support) for details.\n * \n * ### Example\n * \n * {@example
common/pipes/ts/percent_pipe.ts region='DeprecatedPercentPipe'}\n * \n * @@stable\n * \n var
DeprecatedPercentPipe = /** @class */ (function () {\n function DeprecatedPercentPipe(_locale) {\n
this._locale = _locale;\n } \n /**\n * @param {?} value\n * @param {?=} digits\n * @return {?} \n * \n
DeprecatedPercentPipe.prototype.transform = /**\n * @param {?} value\n * @param {?=} digits\n *
@return {?} \n * \n function (value, digits) {\n return formatNumber(DeprecatedPercentPipe, this._locale,
value, NumberFormatStyle.Percent, digits);\n }; \n DeprecatedPercentPipe.decorators = [\n { type: Pipe,
args: [{ name: 'percent' },] }, \n ]; \n /** @nocollapse */ \n DeprecatedPercentPipe.ctorParameters = function ()
{ return [\n { type: undefined, decorators: [{ type: Inject, args: [LOCALE_ID,] },] }, \n ]; }; \n return
DeprecatedPercentPipe;\n})();\n/**\n * @@ngModule CommonModule\n * @@whatItDoes Formats a number as
currency using locale rules.\n * @@howToUse `number_expression |
currency[:currencyCode[:symbolDisplay[:digitInfo]]`\n * @@description\n * \n * Use `currency` to format a number
as currency.\n * \n * - `currencyCode` is the [ISO 4217](https://en.wikipedia.org/wiki/ISO_4217) currency code,
such\n * as `USD` for the US dollar and `EUR` for the euro.\n * - `symbolDisplay` is a boolean indicating whether
to use the currency symbol or code.\n * - `true`: use symbol (e.g. `$`).\n * - `false` (default): use code (e.g.
`USD`).\n * - `digitInfo` See {@link DecimalPipe} for detailed description.\n * \n * WARNING: this pipe uses the
Internationalization API which is not yet available in all browsers\n * and may require a polyfill. See [Browser
Support](guide/browser-support) for details.\n * \n * ### Example\n * \n * {@example
common/pipes/ts/currency_pipe.ts region='DeprecatedCurrencyPipe'}\n * \n * @@stable\n * \n var
DeprecatedCurrencyPipe = /** @class */ (function () {\n function DeprecatedCurrencyPipe(_locale) {\n
this._locale = _locale;\n } \n /**\n * @param {?} value\n * @param {?=} currencyCode\n * @param
{?=} symbolDisplay\n * @param {?=} digits\n * @return {?} \n * \n
DeprecatedCurrencyPipe.prototype.transform = /**\n * @param {?} value\n * @param {?=} currencyCode\n
* @param {?=} symbolDisplay\n * @param {?=} digits\n * @return {?} \n * \n function (value,
currencyCode, symbolDisplay, digits) {\n if (currencyCode === void 0) { currencyCode = 'USD'; } \n if
(symbolDisplay === void 0) { symbolDisplay = false; } \n return formatNumber(DeprecatedCurrencyPipe,
this._locale, value, NumberFormatStyle.Currency, digits, currencyCode, symbolDisplay);\n }; \n
DeprecatedCurrencyPipe.decorators = [\n { type: Pipe, args: [{ name: 'currency' },] }, \n ]; \n /**
@nocollapse */ \n DeprecatedCurrencyPipe.ctorParameters = function () { return [\n { type: undefined,
decorators: [{ type: Inject, args: [LOCALE_ID,] },] }, \n ]; }; \n return DeprecatedCurrencyPipe;\n})();\n\n\n *
@fileoverview added by tsickle\n * @suppress {checkTypes} checked by tsc\n * \n\n * @license\n * Copyright
Google Inc. All Rights Reserved.\n * \n * Use of this source code is governed by an MIT-style license that can be\n *
found in the LICENSE file at https://angular.io/license\n * \n\n * A collection of deprecated i18n pipes that
require intl api\n * \n * @deprecated from v5\n * \n var COMMON_DEPRECATED_I18N_PIPES =
[DeprecatedDecimalPipe, DeprecatedPercentPipe, DeprecatedCurrencyPipe, DeprecatedDatePipe];\n\n\n *
@fileoverview added by tsickle\n * @suppress {checkTypes} checked by tsc\n * \n\n * @license\n * Copyright
Google Inc. All Rights Reserved.\n * \n * Use of this source code is governed by an MIT-style license that can be\n *
found in the LICENSE file at https://angular.io/license\n * \n\n var ObservableStrategy = /** @class */ (function () {\n
function ObservableStrategy() {\n } \n /**\n * @param {?} async\n * @param {?} updateLatestValue\n
* @return {?} \n * \n ObservableStrategy.prototype.createSubscription = /**\n * @param {?} async\n *
@param {?} updateLatestValue\n * @return {?} \n * \n function (async, updateLatestValue) {\n return
async.subscribe({ next: updateLatestValue, error: function (e) { throw e; } });\n }; \n /**\n * @param {?}
subscription\n * @return {?} \n * \n ObservableStrategy.prototype.dispose = /**\n * @param {?}
subscription\n * @return {?} \n * \n function (subscription) { subscription.unsubscribe();\n }; \n /**\n *
@param {?} subscription\n * @return {?} \n * \n ObservableStrategy.prototype.onDestroy = /**\n *

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@param {?} subscription\n * @return {?}\n *^ function (subscription) { subscription.unsubscribe(); }\n
return ObservableStrategy;\n});\nvar PromiseStrategy = /** @class */ (function () {\n function
PromiseStrategy() {\n }\n /**\n * @param {?} async\n * @param {?} updateLatestValue\n * @return
{?}\n *^ PromiseStrategy.prototype.createSubscription = /**\n * @param {?} async\n * @param {?}
updateLatestValue\n * @return {?}\n *^ function (async, updateLatestValue) {\n return
async.then(updateLatestValue, function (e) { throw e; });\n });\n /**\n * @param {?} subscription\n *
@return {?}\n *^ PromiseStrategy.prototype.dispose = /**\n * @param {?} subscription\n * @return
{?}\n *^ function (subscription) { }\n /**\n * @param {?} subscription\n * @return {?}\n *^
PromiseStrategy.prototype.onDestroy = /**\n * @param {?} subscription\n * @return {?}\n *^ function
(subscription) { }\n return PromiseStrategy;\n});\nvar _promiseStrategy = new PromiseStrategy();\nvar
_observableStrategy = new ObservableStrategy();\n/**\n * \\@ngModule CommonModule\n * \\@whatItDoes
Unwraps a value from an asynchronous primitive.\n * \\@howToUse `observable_or_promise_expression | async`\n
* \\@description\n * The `async` pipe subscribes to an `Observable` or `Promise` and returns the latest value it has\n
* emitted. When a new value is emitted, the `async` pipe marks the component to be checked for\n * changes. When
the component gets destroyed, the `async` pipe unsubscribes automatically to avoid\n * potential memory leaks.\n
*\n * \\# Examples\n * This example binds a `Promise` to the view. Clicking the `Resolve` button resolves
the\n * promise.\n * \\@example common/pipes/ts/async_pipe.ts region='AsyncPipePromise'\n * It's also
possible to use `async` with Observables. The example below binds the `time` Observable\n * to the view. The
Observable continuously updates the view with the current time.\n * \\@example
common/pipes/ts/async_pipe.ts region='AsyncPipeObservable'\n * \\@stable\n *^ nvar AsyncPipe = /** @class
*/ (function () {\n function AsyncPipe(_ref) {\n this._ref = _ref;\n this._latestValue = null;\n
this._latestReturnedValue = null;\n this._subscription = null;\n this._obj = null;\n this._strategy = /**
@type {?} */ ((null));\n }\n /**\n * @return {?}\n *^ AsyncPipe.prototype.ngOnDestroy = /**\n *
@return {?}\n *^ function () {\n if (this._subscription) {\n this._dispose();\n }\n });\n /**\n
* @param {?} obj\n * @return {?}\n *^ AsyncPipe.prototype.transform = /**\n * @param {?} obj\n *
@return {?}\n *^ function (obj) {\n if (!this._obj) {\n if (obj) {\n this._subscribe(obj);\n
}\n this._latestReturnedValue = this._latestValue;\n return this._latestValue;\n }\n if (obj
!== this._obj) {\n this._dispose();\n return this.transform(** @type {?} */ (obj));\n }\n if
(this._latestValue === this._latestReturnedValue) {\n return this._latestReturnedValue;\n }\n
this._latestReturnedValue = this._latestValue;\n return WrappedValue.wrap(this._latestValue);\n });\n /**\n
* @param {?} obj\n * @return {?}\n *^ AsyncPipe.prototype._subscribe = /**\n * @param {?} obj\n
* @return {?}\n *^ function (obj) {\n var _this = this;\n this._obj = obj;\n this._strategy =
this._selectStrategy(obj);\n this._subscription = this._strategy.createSubscription(obj, function (value) { return
_this.updateLatestValue(obj, value); });\n });\n /**\n * @param {?} obj\n * @return {?}\n *^
AsyncPipe.prototype._selectStrategy = /**\n * @param {?} obj\n * @return {?}\n *^ function (obj) {\n
if (isPromise(obj)) {\n return _promiseStrategy;\n }\n if (isObservable(obj)) {\n return
_observableStrategy;\n }\n throw invalidPipeArgumentError(AsyncPipe, obj);\n });\n /**\n * @return
{?}\n *^ AsyncPipe.prototype._dispose = /**\n * @return {?}\n *^ function () {\n
this._strategy.dispose(** @type {?} */ ((this._subscription)));\n this._latestValue = null;\n
this._latestReturnedValue = null;\n this._subscription = null;\n this._obj = null;\n });\n /**\n
*
@param {?} async\n * @param {?} value\n * @return {?}\n *^
AsyncPipe.prototype._updateLatestValue = /**\n * @param {?} async\n * @param {?} value\n * @return
{?}\n *^ function (async, value) {\n if (async === this._obj) {\n this._latestValue = value;\n
this._ref.markForCheck();\n }\n });\n AsyncPipe.decorators = [\n { type: Pipe, args: [{ name: 'async',
pure: false },],\n },\n ];\n /** @nocollapse\n *^ AsyncPipe.ctorParameters = function () { return [\n { type:
ChangeDetectorRef, },\n ];\n }; return AsyncPipe;\n});\n\n/**\n * @fileoverview added by tsickle\n *
@suppress {checkTypes} checked by tsc\n *^ \\n\n * @license\n * Copyright Google Inc. All Rights Reserved.\n
*\n * Use of this source code is governed by an MIT-style license that can be\n * found in the LICENSE file at

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https://angular.io/license\n *\n/**\n * Transforms text to lowercase.\n *\n * {@example
common/pipes/ts/lowerupper_pipe.ts region='LowerUpperCasePipe'}\n *\n * {@stable\n *\nvar LowerCasePipe = /**
@class */ (function () {\n  function LowerCasePipe() {\n    }\n  /**\n   * @param {?} value\n   * @return {?}\n
  *\n  LowerCasePipe.prototype.transform = /**\n   * @param {?} value\n   * @return {?}\n  *\n  function
(value) {\n    if (!value)\n      return value;\n    if (typeof value !== 'string') {\n      throw
invalidPipeArgumentError(LowerCasePipe, value);\n    }\n    return value.toLowerCase();\n  };\n
LowerCasePipe.decorators = [\n    { type: Pipe, args: [{ name: 'lowercase' }, ] },\n  ];\n  /** @nocollapse *\n
LowerCasePipe.ctorParameters = function () { return []; }; return LowerCasePipe;\n})();\n\n/**\n * Helper
method to transform a single word to titlecase.\n *\n * {@stable\n * @param {?} word\n * @return {?}\n
*\n  function titleCaseWord(word) {\n    if (!word)\n      return word;\n    return word[0].toUpperCase() +
word.substr(1).toLowerCase();\n  }\n\n/**\n * Transforms text to titlecase.\n *\n * {@stable\n *\nvar TitleCasePipe =
/** @class */ (function () {\n  function TitleCasePipe() {\n    }\n  /**\n   * @param {?} value\n   * @return
{?}\n  *\n  TitleCasePipe.prototype.transform = /**\n   * @param {?} value\n   * @return {?}\n  *\n  function
(value) {\n    if (!value)\n      return value;\n    if (typeof value !== 'string') {\n      throw
invalidPipeArgumentError(TitleCasePipe, value);\n    }\n    return value.split(/\b/g).map(function (word) {\n
return titleCaseWord(word); }).join("");\n  };\n  TitleCasePipe.decorators = [\n    { type: Pipe, args: [{ name:
'titlecase' }, ] },\n  ];\n  /** @nocollapse *\n  TitleCasePipe.ctorParameters = function () { return []; }; return
TitleCasePipe;\n})();\n\n/**\n * Transforms text to uppercase.\n *\n * {@stable\n *\nvar UpperCasePipe = /**
@class */ (function () {\n  function UpperCasePipe() {\n    }\n  /**\n   * @param {?} value\n   * @return {?}\n
  *\n  UpperCasePipe.prototype.transform = /**\n   * @param {?} value\n   * @return {?}\n  *\n  function
(value) {\n    if (!value)\n      return value;\n    if (typeof value !== 'string') {\n      throw
invalidPipeArgumentError(UpperCasePipe, value);\n    }\n    return value.toUpperCase();\n  };\n
UpperCasePipe.decorators = [\n    { type: Pipe, args: [{ name: 'uppercase' }, ] },\n  ];\n  /** @nocollapse *\n
UpperCasePipe.ctorParameters = function () { return []; }; return UpperCasePipe;\n})();\n\n/**\n *
@fileoverview added by tsickle\n * @suppress {checkTypes} checked by tsc\n *\n\n/**\n * @license\n * Copyright
Google Inc. All Rights Reserved.\n *\n * Use of this source code is governed by an MIT-style license that can be\n *
found in the LICENSE file at https://angular.io/license\n *\nvar _INTERPOLATION_REGEXP = /#\d/g;\n\n/**\n *
{@ngModule CommonModule\n * {@whatItDoes Maps a value to a string that pluralizes the value according to
locale rules.\n * {@howToUse `expression | i18nPlural:mapping[:locale]`\n * {@description\n *\n * Where:\n * -
`expression` is a number.\n * - `mapping` is an object that mimics the ICU format, see\n * http://userguide.icu-
project.org/formatparse/messages\n * - `locale` is a `string` defining the locale to use (uses the current {@link
LOCALE_ID} by\n * default)\n *\n * ## Example\n *\n * {@example common/pipes/ts/i18n_pipe.ts
region='I18nPluralPipeComponent'}\n *\n * {@experimental\n *\nvar I18nPluralPipe = /** @class */ (function ()
{\n  function I18nPluralPipe(_localization) {\n    this._localization = _localization;\n    }\n  /**\n   * @param
{?} value\n   * @param {?} pluralMap\n   * @param {?=} locale\n   * @return {?}\n  *\n  I18nPluralPipe.prototype.transform = /**\n   * @param {?} value\n   * @param {?} pluralMap\n   * @param
{?=} locale\n   * @return {?}\n  *\n  function (value, pluralMap, locale) {\n    if (value == null)\n
return "";\n    if (typeof pluralMap !== 'object' || pluralMap === null) {\n      throw
invalidPipeArgumentError(I18nPluralPipe, pluralMap);\n    }\n    var /** @type {?} */ key =
getPluralCategory(value, Object.keys(pluralMap), this._localization, locale);\n    return
pluralMap[key].replace(_INTERPOLATION_REGEXP, value.toString());\n  };\n  I18nPluralPipe.decorators =
[\n    { type: Pipe, args: [{ name: 'i18nPlural', pure: true }, ] },\n  ];\n  /** @nocollapse *\n
I18nPluralPipe.ctorParameters = function () { return [\n    { type: NgLocalization, },\n  ]; }; return
I18nPluralPipe;\n})();\n\n/**\n * @fileoverview added by tsickle\n * @suppress {checkTypes} checked by tsc\n
*\n\n/**\n * @license\n * Copyright Google Inc. All Rights Reserved.\n *\n * Use of this source code is governed by
an MIT-style license that can be\n * found in the LICENSE file at https://angular.io/license\n *\n\n/**\n *
{@ngModule CommonModule\n * {@whatItDoes Generic selector that displays the string that matches the current
value.\n * {@howToUse `expression | i18nSelect:mapping`\n * {@description\n *\n * Where `mapping` is an

```

object that indicates the text that should be displayed for different values of the provided `expression`. If none of the keys of the mapping match the value of the `expression`, then the content of the `other` key is returned when present, otherwise an empty string is returned.

Example

```

@@example
common/pipes/ts/i18n_pipe.ts region='I18nSelectPipeComponent'
@@experimental
I18nSelectPipe = /** @class */ (function () {
  function I18nSelectPipe() {}
  /** @param {?} value
   * @param {?} mapping
   * @return {?} */
  I18nSelectPipe.prototype.transform = /** @param {?} value
   * @param {?} mapping
   * @return {?} */
  function (value, mapping) {
    if (value == null)
      return "";
    if (typeof mapping !== 'object' || typeof value !== 'string')
      throw invalidPipeArgumentError(I18nSelectPipe, mapping);
    if (mapping.hasOwnProperty(value))
      return mapping[value];
    if (mapping.hasOwnProperty('other'))
      return mapping['other'];
  };
  I18nSelectPipe.decorators = [
    { type: Pipe, args: [{ name: 'i18nSelect', pure: true },] },
  ];
  /** @nocollapse */
  I18nSelectPipe.ctorParameters = function () { return []; };
  return I18nSelectPipe;
})();
@fileoverview added by tsickle
@suppress {checkTypes} checked by tsc
@license Copyright Google Inc. All Rights Reserved.
Use of this source code is governed by an MIT-style license that can be found in the LICENSE file at https://angular.io/license
@@ngModule CommonModule
@@whatItDoes Converts value into JSON string.
@@howToUse `expression | json`
@@description Converts value into string using `JSON.stringify`. Useful for debugging.
### Example
@@example common/pipes/ts/json_pipe.ts region='JsonPipe'
@@stable
JsonPipe = /** @class */ (function () {
  function JsonPipe() {}
  /** @param {?} value
   * @return {?} */
  JsonPipe.prototype.transform = /** @param {?} value
   * @return {?} */
  function (value) { return JSON.stringify(value, null, 2); };
  JsonPipe.decorators = [
    { type: Pipe, args: [{ name: 'json', pure: false },] },
  ];
  /** @nocollapse */
  JsonPipe.ctorParameters = function () { return []; };
  return JsonPipe;
})();
@fileoverview added by tsickle
@suppress {checkTypes} checked by tsc
@license Copyright Google Inc. All Rights Reserved.
Use of this source code is governed by an MIT-style license that can be found in the LICENSE file at https://angular.io/license
@@ngModule CommonModule
@@whatItDoes Formats a number according to locale rules.
@@howToUse `number_expression | number[:digitInfo[:locale]]`
Formats a number as text. Group sizing and separator and other locale-specific configurations are based on the active locale where `expression` is a number. - `digitInfo` is a `string` which has a following format:   

{minIntegerDigits}.{minFractionDigits}-{maxFractionDigits}
- `minIntegerDigits` is the minimum number of integer digits to use. Defaults to `1`. - `minFractionDigits` is the minimum number of digits after fraction. Defaults to `0`. - `maxFractionDigits` is the maximum number of digits after fraction. Defaults to `3`. - `locale` is a `string` defining the locale to use (uses the current {@link LOCALE_ID} by default). For more information on the acceptable range for each of these numbers and other details see your native internationalization library.
### Example
@@example common/pipes/ts/number_pipe.ts region='NumberPipe'
@@stable
DecimalPipe = /** @class */ (function () {
  function DecimalPipe(_locale) {
    this._locale = _locale;
  }
  /** @param {?} value
   * @param {=} digits
   * @param {=} locale
   * @return {?} */
  DecimalPipe.prototype.transform = /** @param {?} value
   * @param {=} digits
   * @param {=} locale
   * @return {?} */
  function (value, digits, locale) {
    if (isEmpty(value))
      return null;
    locale = locale || this._locale;
    var _a = formatNumber$1(value, locale, NumberFormatStyle.Decimal, digits), str = _a.str, error = _a.error;
    if (error)
      throw invalidPipeArgumentError(DecimalPipe, error);
    return str;
  };
  DecimalPipe.decorators = [
    { type: Pipe, args: [{ name: 'number' },] },
  ];
  /** @nocollapse */
  DecimalPipe.ctorParameters = function () { return [
    { type: undefined, decorators: [{ type: Inject, args: [LOCALE_ID,] },] },
  ]; };
  return DecimalPipe;
})();
@@ngModule CommonModule
@@whatItDoes Formats a number as a percentage according to locale rules.
@@howToUse `number_expression | percent[:digitInfo[:locale]]`
Formats a number as percentage. - `digitInfo` See {@link DecimalPipe} for detailed description. - `locale` is a `string` defining the locale to use (uses the current {@link LOCALE_ID} by default).

```


expression**: return an empty list or string.\n * - **if negative and greater than the size of the expression**: return entire list or string.\n * - `end`: The ending index of the subset to return.\n * - **omitted**: return all items until the end.\n * - **if positive**: return all items before `end` index of the list or string.\n * - **if negative**: return all items before `end` index from the end of the list or string.\n * \n * All behavior is based on the expected behavior of the JavaScript API `Array.prototype.slice()`\n * and `String.prototype.slice()`.\n * \n * When operating on a [List], the returned list is always a copy even when all\n * the elements are being returned.\n * \n * When operating on a blank value, the pipe returns the blank value.\n * \n * ## List Example\n * \n * This `ngFor` example:\n * \n * `\\@example common/pipes/ts/slice_pipe.ts region='SlicePipe_list'`\n * \n * produces the following:\n * \n * `b`\n * `c`\n * \n * ## String Examples\n * \n * `\\@example common/pipes/ts/slice_pipe.ts region='SlicePipe_string'`\n * \n * `\\@stable\n * ^\nvar SlicePipe = /** @class */ (function ()\n * function SlicePipe() {\n * }\n * /**\n * @param {?} value\n * @param {?} start\n * @param {?=} end\n * @return {?}\n * ^\n * SlicePipe.prototype.transform = /**\n * @param {?} value\n * @param {?} start\n * @param {?=} end\n * @return {?}\n * ^\n * function (value, start, end) {\n * if (value == null)\n * return value;\n * if (!this.supports(value)) {\n * throw invalidPipeArgumentError(SlicePipe, value);\n * }\n * return value.slice(start, end);\n * };\n * /**\n * @param {?} obj\n * @return {?}\n * ^\n * SlicePipe.prototype.supports = /**\n * @param {?} obj\n * @return {?}\n * ^\n * function (obj) {\n * return typeof obj === 'string' || Array.isArray(obj);\n * };\n * SlicePipe.decorators = [\n * { type: Pipe, args: [{ name: 'slice', pure: false },,]\n * }];\n * /** @nocollapse *\n * ^\n * SlicePipe.ctorParameters = function () {\n * return [];\n * };\n * return SlicePipe;\n * }());\n * \n * @fileoverview added by tsickle\n * @suppress {checkTypes} checked by tsc\n * \n * @license\n * Copyright Google Inc. All Rights Reserved.\n * \n * Use of this source code is governed by an MIT-style license that can be\n * found in the LICENSE file at https://angular.io/license\n * \n * A collection of Angular pipes that are likely to be used in each and every application.\n * \n * ^\nvar COMMON_PIPES = [\n * AsyncPipe,\n * UpperCasePipe,\n * LowerCasePipe,\n * JsonPipe,\n * SlicePipe,\n * DecimalPipe,\n * PercentPipe,\n * TitleCasePipe,\n * CurrencyPipe,\n * DatePipe,\n * I18nPluralPipe,\n * I18nSelectPipe,\n *];\n * \n * @fileoverview added by tsickle\n * @suppress {checkTypes} checked by tsc\n * \n * @license\n * Copyright Google Inc. All Rights Reserved.\n * \n * Use of this source code is governed by an MIT-style license that can be\n * found in the LICENSE file at https://angular.io/license\n * \n * The module that includes all the basic Angular directives like \\@link NgIf, \\@link NgForOf, ...
\\@stable\n * ^\nvar CommonModule = /** @class */ (function () {\n * function CommonModule() {\n * }\n * CommonModule.decorators = [\n * { type: NgModule, args: [{\n * declarations:\n * [COMMON_DIRECTIVES, COMMON_PIPES],\n * exports: [COMMON_DIRECTIVES, COMMON_PIPES],\n * providers: [\n * { provide: NgLocalization, useClass: NgLocaleLocalization },\n *],\n * }],\n * }];\n * /** @nocollapse *\n * ^\n * CommonModule.ctorParameters = function () {\n * return [];\n * };\n * return CommonModule;\n * }());\n * \n * ^\nvar 0 = getPluralCase;\n * \n * A module that contains the deprecated i18n pipes.\n * \n * @deprecated from v5\n * ^\nvar DeprecatedI18NPipesModule = /** @class */ (function () {\n * function DeprecatedI18NPipesModule() {\n * }\n * DeprecatedI18NPipesModule.decorators = [\n * { type: NgModule, args: [{\n * declarations:\n * [COMMON_DEPRECATED_I18N_PIPES],\n * exports: [COMMON_DEPRECATED_I18N_PIPES],\n * providers: [{ provide: DEPRECATED_PLURAL_FN, useValue: 0 }],\n * }],\n * }];\n * /** @nocollapse *\n * ^\n * DeprecatedI18NPipesModule.ctorParameters = function () {\n * return [];\n * };\n * return DeprecatedI18NPipesModule;\n * }());\n * \n * @fileoverview added by tsickle\n * @suppress {checkTypes} checked by tsc\n * \n * @license\n * Copyright Google Inc. All Rights Reserved.\n * \n * Use of this source code is governed by an MIT-style license that can be\n * found in the LICENSE file at https://angular.io/license\n * \n * A DI Token representing the main rendering context. In a browser this is the DOM Document.
Note: Document might not be available in the Application Context when Application and Rendering Contexts are not the same (e.g. when running the application into a Web Worker).
\\@stable\n * ^\nvar DOCUMENT = new InjectionToken('DocumentToken');\n * \n * @fileoverview added by tsickle\n * @suppress {checkTypes} checked by tsc\n * \n * @license\n * Copyright Google Inc. All Rights Reserved.\n * \n * Use of this source`


```

`HttpParams`.prototype.serialize = /** @class */ (function () {
function HttpParams(options) {
    if (options === void 0) { options = {}; }
    this._this = this;
    this._updates = null;
    this._cloneFrom = null;
    this._encoder = options.encoder || new
    HttpUrlEncodingCodec();
    if (!options.fromString) {
        if (!options.fromObject) {
            throw
            new Error("Cannot specify both fromString and fromObject.");
        }
        this._map =
        paramParser(options.fromString, this._encoder);
    } else if (!options.fromObject) {
        this._map =
        new Map();
        Object.keys(options.fromObject).forEach(function (key) {
            var value = (options.fromObject)[key];
            Array.isArray(value) ? value : [value];
        });
    } else {
        this._map = null;
    }
}

/**
 * Check whether the body has one or more values for the given parameter name.
 *
 * @param {string} name The parameter name.
 * @return {boolean} True if the body has one or more values for the given
 * parameter name, or `null` if it's not present.
 */
HttpParams.prototype.has = function (name) {
    return !!this._map.get(name);
};

/**
 * Get the first value for the given parameter
 * name, or `null` if it's not present.
 *
 * @param {string} name The parameter name.
 * @return {string|boolean|number|object} The first value for the given
 * parameter name, or `null` if it's not present.
 */
HttpParams.prototype.get = function (name) {
    return this._map.get(name);
};

/**
 * Get all values for the given parameter
 * name, or `null` if it's not present.
 *
 * @param {string} name The parameter name.
 * @return {string[]|boolean[]|number[]|object[]} All values for the given
 * parameter name, or `null` if it's not present.
 */
HttpParams.prototype.getAll = function (name) {
    return this._map.get(name) || null;
};

/**
 * Get all the parameter names for this body.
 */
HttpParams.prototype.getNames = function () {
    return Object.keys(this._map);
};
}());

```



```

- 1 ? '&': ');
    this.urlWithParams = url + sep + params;
  }
}
/**
 * Transform
the free-form body into a serialized format suitable for
 * transmission to the server.
 */
 * Transform the free-form body into a serialized
format suitable for
 * transmission to the server.
 * @return
{?}
 */
HttpRequest.prototype.serializeBody = /**
 * Transform the free-form body into a serialized
format suitable for
 * transmission to the server.
 * @return {?}
 */
function () {
  // If no body is
present, no need to serialize it.
  if (this.body === null) {
    return null;
  }
  // Check whether
the body is already in a serialized form. If so,
  // it can just be returned directly.
  if
(isArrayBuffer(this.body) || isBlob(this.body) || isFormData(this.body) ||
  typeof this.body === 'string') {
    return this.body;
  }
  // Check whether the body is an instance of HttpUrlEncodedParams.
  if
(this.body instanceof HttpParams) {
    return this.body.toString();
  }
  // Check whether the body is
an object or array, and serialize with JSON if so.
  if (typeof this.body === 'object' || typeof this.body ===
'boolean' ||
  Array.isArray(this.body)) {
    return JSON.stringify(this.body);
  }
  // Fall back
on toString() for everything else.
  return (/** @type {?} */(this.body)).toString();
};
/**
 *
Examine the body and attempt to infer an appropriate MIME type
 * for it.
 *
 * If no such type can be
inferred, this method will return `null`.
 *
 * Examine the body and attempt to infer an appropriate
MIME type
 * for it.
 *
 * If no such type can be inferred, this method will return `null`.
 * @return
{?}
 */
HttpRequest.prototype.detectContentTypeHeader = /**
 * Examine the body and attempt to infer
an appropriate MIME type
 * for it.
 *
 * If no such type can be inferred, this method will return `null`.
 * @return
{?}
 */
function () {
  // An empty body has no content type.
  if (this.body === null)
{
    return null;
  }
  // FormData bodies rely on the browser's content type assignment.
  if
(isFormData(this.body)) {
    return null;
  }
  // Blobs usually have their own content type. If it
doesn't, then
  // no type can be inferred.
  if (isBlob(this.body)) {
    return this.body.type || null;
  }
  // Array buffers have unknown contents and thus no type can be inferred.
  if
(isArrayBuffer(this.body)) {
    return null;
  }
  // Technically, strings could be a form of JSON data,
but it's safe enough
  // to assume they're plain strings.
  if (typeof this.body === 'string') {
    return
'text/plain';
  }
  // `HttpUrlEncodedParams` has its own content-type.
  if (this.body instanceof
HttpRequest.prototype) {
    return 'application/x-www-form-urlencoded;charset=UTF-8';
  }
  // Arrays,
objects, and numbers will be encoded as JSON.
  if (typeof this.body === 'object' || typeof this.body ===
'number' ||
  Array.isArray(this.body)) {
    return 'application/json';
  }
  // No type could be
inferred.
  return null;
};
/**
 * @param {?=} update
 * @return {?}
 */
HttpRequest.prototype.clone = /**
 * @param {?=} update
 * @return {?}
 */
function (update) {
  if (update === void 0) {
    update = {};
  }
  // For method, url, and responseType, take the current value unless
  // it is overridden in the update hash.
  var /** @type {?} */ method = update.method || this.method;
  var /** @type {?} */ url = update.url || this.url;
  var /** @type {?} */ responseType = update.responseType ||
this.responseType;
  // The body is somewhat special - a `null` value in update.body means
  // whatever
current body is present is being overridden with an empty
  // body, whereas an `undefined` value in
update.body implies no
  // override.
  var /** @type {?} */ body = (update.body !== undefined) ?
update.body : this.body;
  // Carefully handle the boolean options to differentiate between
  // `false` and
`undefined` in the update args.
  var /** @type {?} */ withCredentials = (update.withCredentials !==
undefined) ?
update.withCredentials : this.withCredentials;
  var /** @type {?} */ reportProgress =
(update.reportProgress !== undefined) ?
update.reportProgress : this.reportProgress;
  // Headers and params
may be appended to if `setHeaders` or
  // `setParams` are used.
  var /** @type {?} */ headers =
update.headers || this.headers;
  var /** @type {?} */ params = update.params || this.params;
  // Check
whether the caller has asked to add headers.
  if (update.setHeaders !== undefined) {
    // Set every
requested header.
    headers =
      Object.keys(update.setHeaders)
        .reduce(function
(headers, name) {
          return headers.set(name, /** @type {?} */
((update.setHeaders)[name]));
        }, headers);
  }
  // Check whether the caller has asked to set params.
  if (update.setParams) {
    // Set every requested
param.
    params = Object.keys(update.setParams)
      .reduce(function (params, param) {
        return

```

```

params.set(param, /** @type {?} */ ((update.setParams))[param]); }, params);\n    }\n    // Finally, construct
the new HttpRequest using the pieces from above.\n    return new HttpRequest(method, url, body, {\n
params: params, headers: headers, reportProgress: reportProgress, responseType: responseType, withCredentials:
withCredentials,\n    });\n  });\n  return HttpRequest;\n})();\n\n/**\n * @fileoverview added by tsickle\n *
@suppress {checkTypes} checked by tsc\n */\n\n * @license\n * Copyright Google Inc. All Rights Reserved.\n
*\n * Use of this source code is governed by an MIT-style license that can be\n * found in the LICENSE file at
https://angular.io/license\n */\n\n * @enum {number} *\n\nvar EventType = {\n  /**\n   * The request was
sent out over the wire.\n   */\n  Sent: 0,\n  /**\n   * An upload progress event was received.\n   */\n
UploadProgress: 1,\n  /**\n   * The response status code and headers were received.\n   */\n
ResponseHeader: 2,\n  /**\n   * A download progress event was received.\n   */\n  DownloadProgress: 3,\n
  /**\n   * The full response including the body was received.\n   */\n  Response: 4,\n  /**\n   * A custom
event from an interceptor or a backend.\n   */\n  User: 5,\n};\n\nEventType[EventType.Sent] =
'Sent';\nEventType[EventType.UploadProgress] =
'UploadProgress';\nEventType[EventType.ResponseHeader] =
'ResponseHeader';\nEventType[EventType.DownloadProgress] =
'DownloadProgress';\nEventType[EventType.Response] =
'Response';\nEventType[EventType.User] = 'User';\n\n/**\n * Base interface for progress events.\n */\n
*\n * @stable\n * @record\n */\n\n * A download progress event.\n */\n\n * @stable\n * @record\n */\n\n * An
upload progress event.\n */\n\n * @stable\n * @record\n */\n\n * An event indicating that the request was sent to
the server. Useful\n * when a request may be retried multiple times, to distinguish between\n * retries on the final
event stream.\n */\n\n * @stable\n * @record\n */\n\n * A user-defined event.\n */\n\n * Grouping all custom
events under this type ensures they will be handled\n * and forwarded by all implementations of interceptors.\n */\n
*\n * @stable\n * @record\n */\n\n * An error that represents a failed attempt to JSON.parse text coming back\n *
from the server.\n */\n\n * It bundles the Error object with the actual response body that failed to parse.\n */\n
*\n * @stable\n * @record\n */\n\n * Base class for both `HttpResponse` and `HttpHeaderResponse`.\n */\n
*\n * @stable\n * @abstract\n */\n\nvar HttpResponseBase = /** @class */ (function () {\n  /**\n   * Super-constructor
for all responses.\n   */\n\n   * The single parameter accepted is an initialization hash. Any properties\n   * of the
response passed there will override the default values.\n   */\n\n   function HttpResponseBase(init, defaultStatus,
defaultStatusText) {\n    if (defaultStatus === void 0) { defaultStatus = 200; }\n    if (defaultStatusText ===
void 0) { defaultStatusText = 'OK'; }\n    // If the hash has values passed, use them to initialize the response.\n
// Otherwise use the default values.\n    this.headers = init.headers || new HttpHeaders();\n    this.status =
init.status !== undefined ? init.status : defaultStatus;\n    this.statusText = init.statusText || defaultStatusText;\n
this.url = init.url || null;\n    // Cache the ok value to avoid defining a getter.\n    this.ok = this.status >= 200 &&
this.status < 300;\n  }\n  return HttpResponseBase;\n})();\n\n/**\n * A partial HTTP response which only includes
the status and header data,\n * but no response body.\n */\n\n * `HttpHeaderResponse` is a `HttpEvent` available on the
response\n * event stream, only when progress events are requested.\n */\n\n * @stable\n */\n\nvar
HttpHeaderResponse = /** @class */ (function (_super) {\n  __extends(HttpHeaderResponse, _super);\n  /**\n   *\n
* Create a new `HttpHeaderResponse` with the given parameters.\n   */\n\n   function HttpHeaderResponse(init) {\n
    if (init === void 0) { init = {}; }\n    var _this = _super.call(this, init) || this;\n    _this.type =
EventType.ResponseHeader;\n    return _this;\n  }\n  /**\n   * Copy this `HttpHeaderResponse`,
overriding its contents with the\n   * given parameter hash.\n   */\n  /**\n   * Copy this `HttpHeaderResponse`,
overriding its contents with the\n   * given parameter hash.\n   */\n  @param {?} = update\n   * @return {?}\n   */\n
HttpHeaderResponse.prototype.clone = /**\n   * Copy this `HttpHeaderResponse`, overriding its contents with
the\n   * given parameter hash.\n   */\n   @param {?} = update\n   * @return {?}\n   */\n   function (update) {\n
if (update === void 0) { update = {}; }\n    // Perform a straightforward initialization of the new
HttpHeaderResponse,\n    // overriding the current parameters with new ones if given.\n    return new
HttpHeaderResponse({\n      headers: update.headers || this.headers,\n      status: update.status !== undefined
? update.status : this.status,\n      statusText: update.statusText || this.statusText,\n      url: update.url || this.url

```

```

    });\n    });\n    return HttpHeadersResponse;\n})(HttpResponseBody);\n/**\n * A full HTTP
response, including a typed response body (which may be `null` if one was not returned).\n * `HttpResponse`
is a `HttpEvent` available on the response event\n * stream.\n * \n * @stable\n * \nvar HttpHeaders = /** @class
*/ (function (_super) {\n    __extends(HttpResponse, _super);\n    /**\n     * Construct a new `HttpResponse`.\n
*\n     * function HttpHeaders(init) {\n         if (init === void 0) { init = {}; }\n         var _this = _super.call(this, init) ||
this;\n         _this.type = HttpEventType.Response;\n         _this.body = init.body !== undefined ? init.body : null;\n
return _this;\n     }\n     /**\n     * @param {=} update\n     * @return {?}\n     */\n     HttpHeaders.prototype.clone
= /**\n     * @param {=} update\n     * @return {?}\n     */\n     function (update) {\n         if (update === void 0) {\n
update = {};\n         }\n         return new HttpHeaders({\n             body: (update.body !== undefined) ? update.body :\n
this.body,\n             headers: update.headers || this.headers,\n             status: (update.status !== undefined) ?\n
update.status : this.status,\n             statusText: update.statusText || this.statusText,\n             url: update.url || this.url ||
undefined,\n         });\n     });\n    });\n    return HttpHeaders;\n})(HttpResponseBody);\n/**\n * A response that represents an
error or failure, either from a\n * non-successful HTTP status, an error while executing the request,\n * or some
other failure which occurred during the parsing of the response.\n * \n * Any error returned on the `Observable`
response stream will be\n * wrapped in an `HttpErrorResponse` to provide additional context about\n * the state of
the HTTP layer when the error occurred. The error property\n * will contain either a wrapped Error object or the
error response returned\n * from the server.\n * \n * @stable\n * \nvar HttpErrorResponse = /** @class */ (function
(_super) {\n    __extends(HttpErrorResponse, _super);\n    function HttpErrorResponse(init) {\n        var _this = \n
// Initialize with a default status of 0 / Unknown Error.\n        _super.call(this, init, 0, 'Unknown Error') || this;\n
        _this.name = 'HttpErrorResponse';\n        /**\n         * Errors are never okay, even when the status code is in the 2xx
success range.\n         */\n         _this.ok = false;\n        // If the response was successful, then this was a parse error.
Otherwise, it was\n        // a protocol-level failure of some sort. Either the request failed in transit\n        // or the
server returned an unsuccessful status code.\n        if (_this.status >= 200 && _this.status < 300) {\n
            _this.message = `Http failure during parsing for ` + (init.url || '(unknown url)');\n        }\n        else {\n
            _this.message = \n                `Http failure response for ` + (init.url || '(unknown url)') + `: ` + init.status + ` ` +\n
init.statusText;\n        }\n        _this.error = init.error || null;\n        return _this;\n    }\n    return
HttpErrorResponse;\n})(HttpResponseBody);\n/**\n * @fileoverview added by tsickle\n * @suppress
{checkTypes} checked by tsc\n * \n * @license\n * Copyright Google Inc. All Rights Reserved.\n * \n * Use of
this source code is governed by an MIT-style license that can be\n * found in the LICENSE file at
https://angular.io/license\n * \n * Construct an instance of `HttpRequestOptions<T>` from a source
`HttpMethodOptions` and\n * the given `body`. Basically, this clones the object and adds the body.\n * @template
T\n * @param {?} options\n * @param {?} body\n * @return {?}\n */\nfunction addBody(options, body) {\n
return {\n    body: body,\n    headers: options.headers,\n    observe: options.observe,\n    params:\n    options.params,\n    reportProgress: options.reportProgress,\n    responseType: options.responseType,\n
withCredentials: options.withCredentials,\n    };\n}\n/**\n * Perform HTTP requests.\n * \n * `HttpClient` is
available as an injectable class, with methods to perform HTTP requests.\n * Each request method has multiple
signatures, and the return type varies according to which\n * signature is called (mainly the values of `observe` and
`responseType`).\n * \n * @stable\n * \nvar HttpClient = /** @class */ (function () {\n    function
HttpClient(handler) {\n        this.handler = handler;\n    }\n    /**\n     * Constructs an `Observable` for a particular
HTTP request that, when subscribed,\n     * fires the request through the chain of registered interceptors and on to
the\n     * server.\n     * \n     * This method can be called in one of two ways. Either an `HttpRequest`\n     * instance
can be passed directly as the only parameter, or a method can be\n     * passed as the first parameter, a string URL as
the second, and an\n     * options hash as the third.\n     * \n     * If a `HttpRequest` object is passed directly, an
`Observable` of the\n     * raw `HttpEvent` stream will be returned.\n     * \n     * If a request is instead built by
providing a URL, the options object\n     * determines the return type of `request()`. In addition to configuring\n     *
request parameters such as the outgoing headers and/or the body, the options\n     * hash specifies two key pieces of
information about the request: the\n     * `responseType` and what to `observe`.\n     * \n     * The `responseType`
value determines how a successful response body will be\n     * parsed. If `responseType` is the default `json`, a type

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interface for the
 * resulting object may be passed as a type parameter to `request()`.
 * The `observe`
value determines the return type of `request()`, based on what
 * the consumer is interested in observing. A value
of `events` will return an
 * `Observable<HttpEvent>` representing the raw `HttpEvent` stream,
 * including
progress events by default. A value of `response` will return an
 * `Observable<HttpResponse<T>>` where the
`T` parameter of `HttpResponse`
 * depends on the `responseType` and any optionally provided type
parameter.
 * A value of `body` will return an `Observable<T>` with the same `T` body type.
 *
 * Constructs an `Observable` for a particular HTTP request that, when subscribed,
 * fires the request through
the chain of registered interceptors and on to the
 * server.
 * This method can be called in one of two
ways. Either an `HttpRequest`
 * instance can be passed directly as the only parameter, or a method can be
 * passed as the first parameter, a string URL as the second, and an
 * options hash as the third.
 * If a
`HttpRequest` object is passed directly, an `Observable` of the
 * raw `HttpEvent` stream will be returned.
 *
 * If a request is instead built by providing a URL, the options object
 * determines the return type of
`request()`. In addition to configuring
 * request parameters such as the outgoing headers and/or the body, the
options
 * hash specifies two key pieces of information about the request: the
 * `responseType` and what to
`observe`.
 * The `responseType` value determines how a successful response body will be
 * parsed.
If `responseType` is the default `json`, a type interface for the
 * resulting object may be passed as a type
parameter to `request()`.
 * The `observe` value determines the return type of `request()`, based on what
 * the consumer is interested in observing. A value of `events` will return an
 * `Observable<HttpEvent>`
representing the raw `HttpEvent` stream,
 * including progress events by default. A value of `response` will
return an
 * `Observable<HttpResponse<T>>` where the `T` parameter of `HttpResponse`
 * depends on the
`responseType` and any optionally provided type parameter.
 * A value of `body` will return an
 * `Observable<T>` with the same `T` body type.
 * @param {?} first
 * @param {?} url
 * @param {?}
options
 * @return {?}
 *
 * HttpClient.prototype.request = /**
 * Constructs an `Observable` for a
particular HTTP request that, when subscribed,
 * fires the request through the chain of registered interceptors
and on to the
 * server.
 * This method can be called in one of two ways. Either an `HttpRequest`
 * instance can be passed directly as the only parameter, or a method can be
 * passed as the first parameter, a
string URL as the second, and an
 * options hash as the third.
 * If a `HttpRequest` object is passed
directly, an `Observable` of the
 * raw `HttpEvent` stream will be returned.
 * If a request is instead
built by providing a URL, the options object
 * determines the return type of `request()`. In addition to
configuring
 * request parameters such as the outgoing headers and/or the body, the options
 * hash specifies
two key pieces of information about the request: the
 * `responseType` and what to `observe`.
 * The
`responseType` value determines how a successful response body will be
 * parsed. If `responseType` is the
default `json`, a type interface for the
 * resulting object may be passed as a type parameter to `request()`.
 * The `observe` value determines the return type of `request()`, based on what
 * the consumer is
interested in observing. A value of `events` will return an
 * `Observable<HttpEvent>` representing the raw
`HttpEvent` stream,
 * including progress events by default. A value of `response` will return an
 *
 * `Observable<HttpResponse<T>>` where the `T` parameter of `HttpResponse`
 * depends on the `responseType`
and any optionally provided type parameter.
 * A value of `body` will return an `Observable<T>` with the same
 * `T` body type.
 * @param {?} first
 * @param {?} url
 * @param {?} options
 * @return {?}
 *
 * function (first, url, options) {
 *   var _this = this;
 *   if (options === void 0) { options = {}; }
 *   var
/** @type {?} */ req;
 *   // Firstly, check whether the primary argument is an instance of `HttpRequest`.
 *   if
(first instanceof HttpRequest) {
 *     // It is. The other arguments must be undefined (per the signatures) and can
be
 *     // ignored.
 *     req = /** @type {?} */ (first);
 *   } else {
 *     // It's a string, so it
represents a URL. Construct a request based on it,
 *     // and incorporate the remaining arguments (assuming
GET unless a method is
 *     // provided.
 *     // Figure out the headers.
 *     var /** @type {?} */
headers = undefined;
 *     if (options.headers instanceof HttpHeaders) {
 *       headers = options.headers;
 *     } else {
 *       headers = new HttpHeaders(options.headers);
 *     }
 *     // Sort out
parameters.
 *     var /** @type {?} */ params = undefined;
 *     if (!!options.params) {

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(options.params instanceof HttpParams) {\n          params = options.params;\n          }\n          else {\n            params = new HttpParams(** @type {?} */ ({ fromObject: options.params }));\n          }\n          }\n          // Construct the request.\n          req = new HttpRequest(first, ** @type {?} */ ((url)), (options.body !==\n          undefined ? options.body : null), {\n            headers: headers,\n            params: params,\n            reportProgress: options.reportProgress,\n            // By default, JSON is assumed to be returned for all calls.\n            responseType: options.responseType || 'json',\n            withCredentials: options.withCredentials,\n          });\n          }\n          // Start with an Observable.of() the initial request, and run the handler (which\n          // includes all interceptors) inside a concatMap(). This way, the handler runs\n          // inside an Observable chain, which causes interceptors to be re-run on every\n          // subscription (this also makes retries re-run the handler, including interceptors).\n          var ** @type {?} */ events$ = concatMap.call(of(req), function (req) { return\n          _this.handler.handle(req); });\n          // If coming via the API signature which accepts a previously constructed\n          // HttpRequest, the only option is to get the event stream. Otherwise, return the event stream if\n          // that is what was requested.\n          if (first instanceof HttpRequest || options.observe === 'events') {\n            return events$;\n          }\n          // The requested stream contains either the full response or the body. In either\n          // case, the first step is to filter the event stream to extract a stream of\n          // responses(s).\n          var ** @type {?} */ res$ = filter.call(events$, function (event) { return event instanceof HttpResponse; });\n          // Decide which stream to return.\n          switch (options.observe || 'body') {\n            case 'body':\n              // The requested stream is the body. Map the response stream to the response\n              // body. This could be done more simply, but a misbehaving interceptor might\n              // transform the response body into a different format and ignore the requested\n              // responseType. Guard against this by validating that the response is of the\n              // requested type.\n              switch (req.responseType) {\n                case 'arraybuffer':\n                  return map.call(res$, function (res) {\n                    // Validate that the body is an ArrayBuffer.\n                    if (res.body !== null && !(res.body instanceof ArrayBuffer)) {\n                      throw new Error('Response is not an ArrayBuffer.);\n                    }\n                    return res.body;\n                  });\n                case 'blob':\n                  return map.call(res$, function (res) {\n                    // Validate that the body is a Blob.\n                    if (res.body !== null && !(res.body instanceof Blob)) {\n                      throw new Error('Response is not a Blob.);\n                    }\n                    return res.body;\n                  });\n                case 'text':\n                  return map.call(res$, function (res) {\n                    // Validate that the body is a string.\n                    if (res.body !== null && typeof res.body !== 'string') {\n                      throw new Error('Response is not a string.);\n                    }\n                    return res.body;\n                  });\n                case 'json':\n                  default:\n                    // No validation needed for JSON responses, as they can be of any type.\n                    return map.call(res$, function (res) { return res.body; });\n                case 'response':\n                  // The response stream was requested directly, so return it.\n                  return res$;\n                default:\n                  // Guard against new future observe types being added.\n                  throw new Error("Unreachable: unhandled observe type '" +\n                    options.observe + "'");\n              }\n            }\n          });\n          /**\n           * Constructs an `Observable` which, when subscribed, will cause the configured\n           * DELETE request to be executed on the server. See the individual overloads for\n           * details of `delete()`'s return type based on the provided options.\n           *\n           * Constructs an `Observable` which, when subscribed, will cause the configured\n           * DELETE request to be executed on the server. See the individual overloads for\n           * details of `delete()`'s return type based on the provided options.\n           *\n           * @param {?} url\n           * @param {?=} options\n           * @return {?} Httpclient.prototype.delete = **\n           * Constructs an `Observable` which, when subscribed, will cause the configured\n           * DELETE request to be executed on the server. See the individual overloads for\n           * details of `delete()`'s return type based on the provided options.\n           *\n           * @param {?} url\n           * @param {?=} options\n           * @return {?} function (url, options) {\n           * if (options === void 0) { options = {}; }\n           * return this.request('DELETE', url, ** @type {?} */ (options));\n           * }\n           *\n           * Constructs an `Observable` which, when subscribed, will cause the configured\n           * GET request to be executed on the server. See the individual overloads for\n           * details of `get()`'s return type based on the provided options.\n           *\n           * Constructs an `Observable` which, when subscribed, will cause the configured\n           * GET request to be executed on the server. See the individual overloads for\n           * details of `get()`'s return type based

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on the provided options.\n * @param {?} url\n * @param {?} options\n * @return {?}\n */\n
HttpClient.prototype.get = /**\n * Constructs an `Observable` which, when subscribed, will cause the\n configured\n * GET request to be executed on the server. See the individual overloads for\n * details of `get()`'s\n return type based on the provided options.\n * @param {?} url\n * @param {?} options\n * @return {?}\n */\n function (url, options) {\n if (options === void 0) { options = {}; }\n return this.request('GET', url,\n /** @type {?} */(options));\n };\n /**\n * Constructs an `Observable` which, when subscribed, will cause the\n configured\n * HEAD request to be executed on the server. See the individual overloads for\n * details of\n `head()`'s return type based on the provided options.\n */\n /**\n * Constructs an `Observable` which, when\n subscribed, will cause the configured\n * HEAD request to be executed on the server. See the individual\n overloads for\n * details of `head()`'s return type based on the provided options.\n * @param {?} url\n * @param {?} options\n * @return {?}\n */\n HttpClient.prototype.head = /**\n * Constructs an\n `Observable` which, when subscribed, will cause the configured\n * HEAD request to be executed on the server.\n See the individual overloads for\n * details of `head()`'s return type based on the provided options.\n * @param\n {?} url\n * @param {?} options\n * @return {?}\n */\n function (url, options) {\n if (options ===\n void 0) { options = {}; }\n return this.request('HEAD', url, /** @type {?} */(options));\n };\n /**\n * Constructs an `Observable` which, when subscribed, will cause a request\n * with the special method `JSONP` to\n be dispatched via the interceptor pipeline.\n */\n * A suitable interceptor must be installed (e.g. via the\n `HttpClientJsonpModule`).\n * If no such interceptor is reached, then the `JSONP` request will likely be\n * rejected by the configured backend.\n */\n /**\n * Constructs an `Observable` which, when subscribed, will\n cause a request\n * with the special method `JSONP` to be dispatched via the interceptor pipeline.\n */\n * A\n suitable interceptor must be installed (e.g. via the `HttpClientJsonpModule`).\n * If no such interceptor is reached,\n then the `JSONP` request will likely be\n * rejected by the configured backend.\n * @template T\n * @param {?} url\n * @param {?} callbackParam\n * @return {?}\n */\n HttpClient.prototype.jsonp = /**\n * Constructs an `Observable` which, when subscribed, will cause a request\n * with the special method\n `JSONP` to be dispatched via the interceptor pipeline.\n */\n * A suitable interceptor must be installed (e.g. via\n the `HttpClientJsonpModule`).\n * If no such interceptor is reached, then the `JSONP` request will likely be\n * rejected by the configured backend.\n * @template T\n * @param {?} url\n * @param {?} callbackParam\n * @return {?}\n */\n function (url, callbackParam) {\n return this.request('JSONP', url, {\n params:\n new HttpParams().append(callbackParam, 'JSONP_CALLBACK'),\n observe: 'body',\n responseType:\n 'json',\n });\n };\n /**\n * Constructs an `Observable` which, when subscribed, will cause the configured\n * OPTIONS request to be executed on the server. See the individual overloads for\n * details of `options()`'s\n return type based on the provided options.\n */\n /**\n * Constructs an `Observable` which, when subscribed,\n will cause the configured\n * OPTIONS request to be executed on the server. See the individual overloads for\n * details of `options()`'s return type based on the provided options.\n * @param {?} url\n * @param {?} options\n * @return {?}\n */\n HttpClient.prototype.options = /**\n * Constructs an `Observable` which,\n when subscribed, will cause the configured\n * OPTIONS request to be executed on the server. See the individual\n overloads for\n * details of `options()`'s return type based on the provided options.\n * @param {?} url\n * @param\n {?} options\n * @return {?}\n */\n function (url, options) {\n if (options === void 0) { options =\n {};\n };\n return this.request('OPTIONS', url, /** @type {?} */(options));\n };\n /**\n * Constructs an\n `Observable` which, when subscribed, will cause the configured\n * PATCH request to be executed on the server.\n See the individual overloads for\n * details of `patch()`'s return type based on the provided options.\n */\n /**\n * Constructs an `Observable` which, when subscribed, will cause the configured\n * PATCH request to\n be executed on the server. See the individual overloads for\n * details of `patch()`'s return type based on the\n provided options.\n * @param {?} url\n * @param {?} body\n * @param {?} options\n * @return {?}\n */\n HttpClient.prototype.patch = /**\n * Constructs an `Observable` which, when subscribed, will cause the\n configured\n * PATCH request to be executed on the server. See the individual overloads for\n * details of\n `patch()`'s return type based on the provided options.\n * @param {?} url\n * @param {?} body\n * @param\n {?} options\n * @return {?}\n */\n function (url, body, options) {\n if (options === void 0) { options =

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}; } return this.request('PATCH', url, addBody(options, body)); }
/** Constructs an `Observable` which, when subscribed, will cause the configured
 * POST request to be executed on the server. See the individual overloads for
 * details of `post()`'s return type based on the provided options.
 */
/** Constructs an `Observable` which, when subscribed, will cause the configured
 * POST request to be executed on the server. See the individual overloads for
 * details of `post()`'s return type based on the provided options.
 * @param {?} url
 * @param {?} body
 * @param {?=} options
 * @return {?}
 */
HttpClient.prototype.post = /**
 * Constructs an `Observable` which, when subscribed, will cause the
 * configured
 * POST request to be executed on the server. See the individual overloads for
 * details of
 * `post()`'s return type based on the provided options.
 * @param {?} url
 * @param {?} body
 * @param
 * {?=} options
 * @return {?}
 */
function (url, body, options) {
  if (options === void 0) { options =
  }; }
  return this.request('POST', url, addBody(options, body)); }
/** Constructs an
 * `Observable` which, when subscribed, will cause the configured
 * POST request to be executed on the server. See the individual overloads for
 * details of `post()`'s return type based on the provided options.
 */
/** Constructs an `Observable` which, when subscribed, will cause the configured
 * POST request to be executed on the server. See the individual overloads for
 * details of `post()`'s return type based on the provided options.
 * @param {?} url
 * @param {?} body
 * @param
 * {?=} options
 * @return {?}
 */
function (url, body, options) {
  if (options === void 0) { options =
  }; }
  return this.request('PUT', url, addBody(options, body)); }
HttpClient.decorators = [
  {
    type: Injectable,
  },
];
/** @nocollapse */
HttpClient.ctorParameters = function () {
  return [
    {
      type:
      HttpHandler,
    },
  ];
};
return HttpClient;
})();
/** @fileoverview added by tsickle
 * @suppress {checkTypes} checked by tsc
 * @license
 * Copyright Google Inc. All Rights Reserved.
 * Use of this source code is governed by an MIT-style license that can be
 * found in the LICENSE file at
 * https://angular.io/license
 * Intercepts `HttpRequest` and handles them.
 * Most interceptors will
 * transform the outgoing request before passing it to the
 * next interceptor in the chain, by calling
 * `next.handle(transformedReq)`.
 * In rare cases, interceptors may wish to completely handle a request
 * themselves,
 * and not delegate to the remainder of the chain. This behavior is allowed.
 * @stable
 * @record
 * @nvar HttpHandler which applies an `HttpInterceptor` to an `HttpRequest`.
 * @stable
 * @nvar HttpInterceptorHandler = /** @class */ (function () {
  function HttpInterceptorHandler(next, interceptor) {
    this.next = next;
    this.interceptor = interceptor;
  }
  /**
   * @param {?} req
   * @return
   * {?}
   */
  HttpInterceptorHandler.prototype.handle = /**
   * @param {?} req
   * @return {?}
   */
  function (req) {
    return this.interceptor.intercept(req, this.next);
  };
  return
  HttpInterceptorHandler;
})();
/** A multi-provider token which represents the array of `HttpInterceptor`s
 * that
 * are registered.
 * @stable
 * @nvar HTTP_INTERCEPTORS = new
  InjectionToken('HTTP_INTERCEPTORS');
  @nvar NoopInterceptor = /** @class */ (function () {
  function
  NoopInterceptor() {
  }
  /**
   * @param {?} req
   * @param {?} next
   * @return
   * {?}
   */
  NoopInterceptor.prototype.intercept = /**
   * @param {?} req
   * @param {?} next
   * @return
   * {?}
   */
  function (req, next) {
    return next.handle(req);
  };
  NoopInterceptor.decorators = [
    {
      type:
      Injectable,
    },
  ];
  /** @nocollapse */
  NoopInterceptor.ctorParameters = function () {
    return [];
  };
  return
  NoopInterceptor;
})();
/** @fileoverview added by tsickle
 * @suppress {checkTypes} checked by tsc
 * @license
 * Copyright Google Inc. All Rights Reserved.
 * Use of this source code is governed by
 * an MIT-style license that can be
 * found in the LICENSE file at https://angular.io/license
 * Every request
 * made through JSONP needs a callback name that's unique across the
 * whole page. Each request is assigned an id
 * and the callback name is constructed
 * from that. The next id to be assigned is tracked in a global variable here
 * that
 * is shared among all applications on the page.
 * @nvar nextRequestId = 0;
 * Error text given when a JSONP
 * script is injected, but doesn't invoke the callback
 * passed in its URL.
 * @nvar JSONP_ERR_NO_CALLBACK =

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'JSONP injected script did not invoke callback.');// Error text given when a request is passed to the
JsonpClientBackend that doesn't\n// have a request method JSONP.\nvar JSONP_ERR_WRONG_METHOD =
'JSONP requests must use JSONP request method.');//\nvar JSONP_ERR_WRONG_RESPONSE_TYPE = 'JSONP
requests must use Json response type.');//\n/**\n * DI token/abstract type representing a map of JSONP callbacks.\n
*\n * In the browser, this should always be the `window` object.\n *\n * @@stable\n * @abstract\n */\nvar
JsonpCallbackContext = /** @class */ (function () {\n  function JsonpCallbackContext() {\n  }\n  return
JsonpCallbackContext;\n})();\n/**\n * `HttpBackend` that only processes `HttpRequest` with the JSONP method,\n
* by performing JSONP style requests.\n *\n * @@stable\n */\nvar JsonpClientBackend = /** @class */ (function ()
{\n  function JsonpClientBackend(callbackMap, document) {\n    this.callbackMap = callbackMap;\n
this.document = document;\n  }\n  /**\n   * Get the name of the next callback method, by incrementing the
global `nextRequestId`.\n   * @return {?}\n   */\n  JsonpClientBackend.prototype.nextCallback = /**\n   * Get
the name of the next callback method, by incrementing the global `nextRequestId`.\n   * @return {?}\n   */\n
function () { return `ng_jsonp_callback_${nextRequestId++}`; }\n  /**\n   * Process a JSONP request and return
an event stream of the results.\n   *\n   */\n  /**\n   * Process a JSONP request and return an event stream of the
results.\n   * @param {?} req\n   * @return {?}\n   */\n  JsonpClientBackend.prototype.handle = /**\n   *
Process a JSONP request and return an event stream of the results.\n   * @param {?} req\n   * @return {?}\n
*/\n  function (req) {\n    var _this = this;\n    // Firstly, check both the method and response type. If either
doesn't match\n    // then the request was improperly routed here and cannot be handled.\n    if (req.method !==
'JSONP') {\n      throw new Error(JSONP_ERR_WRONG_METHOD);\n    }\n    else if (req.responseType
!== 'json') {\n      throw new Error(JSONP_ERR_WRONG_RESPONSE_TYPE);\n    }\n    // Everything
else happens inside the Observable boundary.\n    return new Observable(function (observer) {\n      // The
first step to make a request is to generate the callback name, and replace the\n      // callback placeholder in the
URL with the name. Care has to be taken here to ensure\n      // a trailing &, if matched, gets inserted back into
the URL in the correct place.\n      var /** @type {?} */ callback = _this.nextCallback();\n      var /** @type
{?} */ url = req.urlWithParams.replace(/=JSONP_CALLBACK(&|$)/, "=" + callback + "$1");\n      //
Construct the <script> tag and point it at the URL.\n      var /** @type {?} */ node =
_this.document.createElement('script');\n      node.src = url;\n      // A JSONP request requires waiting for
multiple callbacks. These variables\n      // are closed over and track state across those callbacks.\n      // The
response object, if one has been received, or null otherwise.\n      var /** @type {?} */ body = null;\n      //
Whether the response callback has been called.\n      var /** @type {?} */ finished = false;\n      // Whether
the request has been cancelled (and thus any other callbacks)\n      // should be ignored.\n      var /** @type
{?} */ cancelled = false;\n      // Set the response callback in this.callbackMap (which will be the window\n
// object in the browser. The script being loaded via the <script> tag will\n      // eventually call this callback.\n
      // Set the response callback in this.callbackMap (which will be the window\n      // object in the browser. The
script being loaded via the <script> tag will\n      // eventually call this callback.\n
      _this.callbackMap[callback] = function (data) {\n        // Data has been received from the JSONP script. Firstly,
delete this callback.\n        delete _this.callbackMap[callback];\n        // Next, make sure the request wasn't
cancelled in the meantime.\n        if (cancelled) {\n          return;\n        }\n        // Set state to
indicate data was received.\n        body = data;\n        finished = true;\n      }; \n      // cleanup() is a
utility closure that removes the <script> from the page and\n      // the response callback from the window. This
logic is used in both the\n      // success, error, and cancellation paths, so it's extracted out for convenience.\n
      var /** @type {?} */ cleanup = function () {\n        // Remove the <script> tag if it's still on the page.\n
        if (node.parentNode) {\n          node.parentNode.removeChild(node);\n        }\n        // Remove the
response callback from the callbackMap (window object in the\n        // browser).\n        delete
_this.callbackMap[callback];\n      }; \n      // onLoad() is the success callback which runs after the response
callback\n      // if the JSONP script loads successfully. The event itself is unimportant.\n      // If something
went wrong, onLoad() may run without the response callback\n      // having been invoked.\n      var /**
@type {?} */ onLoad = function (event) {\n        // Do nothing if the request has been cancelled.\n        if

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(cancelled) {\n          return;\n        }\n        // Cleanup the page.\n        cleanup();\n        //
Check whether the response callback has run.\n        if (!finished) {\n          // It hasn't, something went
wrong with the request. Return an error via\n          // the Observable error path. All JSONP errors have status
0.\n          observer.error(new HttpResponse({\n            url: url,\n            status: 0,\n            statusText: 'JSONP Error',\n            error: new Error(JSONP_ERR_NO_CALLBACK),\n          }));\n          return;\n        }\n        // Success. body either contains the response body or null if none
was\n        // returned.\n        observer.next(new HttpResponse({\n          body: body,\n          status: 200,\n          statusText: 'OK', url: url,\n        }));\n        // Complete the stream, the response is
over.\n        observer.complete();\n      });\n      // onError() is the error callback, which runs if the script
returned generates\n      // a Javascript error. It emits the error via the Observable error channel as\n      // a
HttpResponse.\n      var /** @type {?} */ onError = function (error) {\n        // If the request was
already cancelled, no need to emit anything.\n        if (cancelled) {\n          return;\n        }\n        cleanup();\n        // Wrap the error in a HttpResponse.\n        observer.error(new
HttpResponse({\n          error: error,\n          status: 0,\n          statusText: 'JSONP Error', url:
url,\n        }));\n      });\n      // Subscribe to both the success (load) and error events on the <script> tag,\n
      // and add it to the page.\n      node.addEventListener('load', onLoad);\n      node.addEventListener('error', onError);\n      _this.document.body.appendChild(node);\n      // The request
has now been successfully sent.\n      observer.next({ type: EventType.Sent });\n      // Cancellation
handler.\n      return function () {\n        // Track the cancellation so event listeners won't do anything even if
already scheduled.\n        cancelled = true;\n        // Remove the event listeners so they won't run if the
events later fire.\n        node.removeEventListener('load', onLoad);\n        node.removeEventListener('error', onError);\n        // And finally, clean up the page.\n        cleanup();\n      };\n    });\n  ];\n  JsonpClientBackend.decorators = [\n    { type: Injectable },\n  ];\n  /** @nocollapse
*/\n  JsonpClientBackend.ctorParameters = function () { return [\n    { type: JsonpCallbackContext, },\n    {
type: undefined, decorators: [{ type: Inject, args: [DOCUMENT,] },] },\n  ];\n  }; return
JsonpClientBackend;})();\n\n  /**\n   * An `HttpInterceptor` which identifies requests with the method JSONP and\n
  * shifts them to the `JsonpClientBackend`.\n   *\n   * @stable\n   */\n  var JsonpInterceptor = /** @class */ (function ()
{\n    function JsonpInterceptor(jsonp) {\n      this.jsonp = jsonp;\n    }\n    /**\n     * @param {?} req\n     *
@param {?} next\n     * @return {?}\n     */\n    JsonpInterceptor.prototype.intercept = /**\n     * @param {?} req\n
     * @param {?} next\n     * @return {?}\n     */\n    function (req, next) {\n      if (req.method === 'JSONP') {\n
        return this.jsonp.handle(/** @type {?} */ (req));\n      }\n      // Fall through for normal HTTP requests.\n
      return next.handle(req);\n    };\n    JsonpInterceptor.decorators = [\n      { type: Injectable },\n    ];\n    /**
     * @nocollapse\n     */\n    JsonpInterceptor.ctorParameters = function () { return [\n      { type: JsonpClientBackend, },\n
    ];\n    }; return JsonpInterceptor;})();\n\n  /**\n   * @fileoverview added by tsickle\n   * @suppress {checkTypes}
checked by tsc\n   */\n  /**\n   * @license\n   * Copyright Google Inc. All Rights Reserved.\n   * Use of this source
code is governed by an MIT-style license that can be\n   * found in the LICENSE file at https://angular.io/license\n
   */\n  var XSSI_PREFIX = /^\\|\\|\\|\\|'?|\\n/;\n  /**\n   * Determine an appropriate URL for the response, by checking
either\n   * XMLHttpRequest.responseURL or the X-Request-URL header.\n   * @param {?} xhr\n   * @return {?}\n
   */\n  function getUrl(xhr) {\n    if ('responseURL' in xhr && xhr.responseURL) {\n      return
xhr.responseURL;\n    }\n    if (/^X-Request-URL:/m.test(xhr.getAllResponseHeaders())) {\n      return
xhr.getResponseHeader('X-Request-URL');\n    }\n    return null;\n  }\n  /**\n   * A wrapper around the
`XMLHttpRequest` constructor.\n   *\n   * @stable\n   * @abstract\n   */\n  var XhrFactory = /** @class */ (function ()
{\n    function XhrFactory() {\n    }\n    return XhrFactory;\n  });\n  /**\n   * A factory for\n   * @link HttpXhrBackend
that uses the `XMLHttpRequest` browser API.\n   *\n   * @stable\n   */\n  var BrowserXhr = /** @class */ (function ()
{\n    function BrowserXhr() {\n    }\n    /**\n     * @return {?}\n     */\n    BrowserXhr.prototype.build = /**\n     *
@return {?}\n     */\n    function () { return /** @type {?} */ ((new XMLHttpRequest())); }; return
BrowserXhr.decorators = [\n      { type: Injectable },\n    ];\n    /** @nocollapse\n     */\n    BrowserXhr.ctorParameters
= function () { return []; }; return BrowserXhr;})();\n\n  /**\n   * An `HttpBackend` which uses the

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XMLHttpRequest API to send\n * requests to a backend server.\n *\n * \\@stable\n *^\nvar HttpXhrBackend = /**
@class */(function () {\n  function HttpXhrBackend(xhrFactory) {\n    this.xhrFactory = xhrFactory;\n  }\n  /**\n   * Process a request and return a stream of response events.\n   */\n  /**\n   * Process a request and return
a stream of response events.\n   * @param {?} req\n   * @return {?}\n   */\n  HttpXhrBackend.prototype.handle
= /**\n   * Process a request and return a stream of response events.\n   * @param {?} req\n   * @return {?}\n
*/\n   function (req) {\n     var _this = this;\n     // Quick check to give a better error message when a user
attempts to use\n     // HttpClient.jsonp() without installing the JsonpClientModule\n     if (req.method ===
'JSONP') {\n       throw new Error("Attempted to construct Jsonp request without JsonpClientModule
installed.");\n     }\n     // Everything happens on Observable subscription.\n     return new Observable(function
(observer) {\n       // Start by setting up the XHR object with request method, URL, and withCredentials flag.\n
var /** @type {?} */ xhr = _this.xhrFactory.build();\n       xhr.open(req.method, req.urlWithParams);\n
if (!req.withCredentials) {\n         xhr.withCredentials = true;\n       }\n       // Add all the requested
headers.\n       req.headers.forEach(function (name, values) { return xhr.setRequestHeader(name, values.join(','));
});\n       // Add an Accept header if one isn't present already.\n       if (!req.headers.has('Accept')) {\n
xhr.setRequestHeader('Accept', 'application/json, text/plain, */*');\n       }\n       // Auto-detect the Content-
Type header if one isn't present already.\n       if (!req.headers.has('Content-Type')) {\n         var /** @type
{?} */ detectedType = req.detectContentTypeHeader();\n         // Sometimes Content-Type detection fails.\n
if (detectedType !== null) {\n           xhr.setRequestHeader('Content-Type', detectedType);\n         }\n
}\n       // Set the responseType if one was requested.\n       if (req.responseType) {\n         var /**
@type {?} */ responseType = req.responseType.toLowerCase();\n         // JSON responses need to be processed
as text. This is because if the server\n         // returns an XSSI-prefixed JSON response, the browser will fail to
parse it,\n         // xhr.response will be null, and xhr.responseText cannot be accessed to\n         // retrieve the
prefixed JSON data in order to strip the prefix. Thus, all JSON\n         // is parsed by first requesting text and
then applying JSON.parse.\n         xhr.responseType = /** @type {?} */ (((responseType !== 'json') ?
responseType : 'text'));\n       }\n       // Serialize the request body if one is present. If not, this will be set to
null.\n       var /** @type {?} */ reqBody = req.serializeBody();\n       // If progress events are enabled,
response headers will be delivered\n       // in two events - the HttpHeadersResponse event and the full
HttpResponse\n       // event. However, since response headers don't change in between these\n       // two
events, it doesn't make sense to parse them twice. So headerResponse\n       // caches the data extracted from the
response whenever it's first parsed,\n       // to ensure parsing isn't duplicated.\n       var /** @type {?} */
headerResponse = null;\n       // partialFromXhr extracts the HttpHeadersResponse from the current
XMLHttpRequest\n       // state, and memoizes it into headerResponse.\n       var /** @type {?} */
partialFromXhr = function () {\n         if (headerResponse !== null) {\n           return headerResponse;\n
}\n         // Read status and normalize an IE9 bug (http://bugs.jquery.com/ticket/1450).\n         var /**
@type {?} */ status = xhr.status === 1223 ? 204 : xhr.status;\n         var /** @type {?} */ statusText =
xhr.statusText || 'OK';\n         // Parse headers from XMLHttpRequest - this step is lazy.\n         var /**
@type {?} */ headers = new HttpHeaders(xhr.getAllResponseHeaders());\n         // Read the response URL from
the XMLHttpRequestResponse instance and fall back on the\n         // request URL.\n         var /** @type {?} */ url
= getResponseUrl(xhr) || req.url;\n         // Construct the HttpHeadersResponse and memoize it.\n
headerResponse = new HttpHeadersResponse({ headers: headers, status: status, statusText: statusText, url: url });\n
return headerResponse;\n       });\n       // Next, a few closures are defined for the various events which
XMLHttpRequest can\n       // emit. This allows them to be unregistered as event listeners later.\n       // First
up is the load event, which represents a response being fully available.\n       var /** @type {?} */ onLoad =
function () {\n         // Read response state from the memoized partial data.\n         var _a =
partialFromXhr(), headers = _a.headers, status = _a.status, statusText = _a.statusText, url = _a.url;\n         // The
body will be read out if present.\n         var /** @type {?} */ body = null;\n         if (status !== 204) {\n
// Use XMLHttpRequest.response if set, responseText otherwise.\n         body = (typeof xhr.response
=== 'undefined') ? xhr.responseText : xhr.response;\n         }\n         // Normalize another potential bug (this

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one comes from CORS).\n          if (status === 0) {\n          status = !!body ? 200 : 0;\n          }\n  // ok determines whether the response will be transmitted on the event or\n  // error channel. Unsuccessful\n  status codes (not 2xx) will always be errors,\n  // but a successful status code can still result in an error if the\n  user\n  // asked for JSON data and the body cannot be parsed as such.\n  var /** @type {?} */ ok =\n  status >= 200 && status < 300;\n  // Check whether the body needs to be parsed as JSON (in many cases\n  the browser\n  // will have done that already).\n  if (req.responseType === 'json' && typeof body\n  === 'string') {\n  // Save the original body, before attempting XSSI prefix stripping.\n  var /**\n  @type {?} */ originalBody = body;\n  body = body.replace(XSSI_PREFIX, '');\n  try {\n  // Attempt the parse. If it fails, a parse error should be delivered to the user.\n  body = body\n  !== " ? JSON.parse(body) : null;\n  }\n  catch (/** @type {?} */ error) {\n  //\n  Since the JSON.parse failed, it's reasonable to assume this might not have been a\n  // JSON response.\n  Restore the original body (including any XSSI prefix) to deliver\n  // a better error response.\n  body = originalBody;\n  // If this was an error request to begin with, leave it as a string, it\n  probably\n  // just isn't JSON. Otherwise, deliver the parsing error to the user.\n  if (ok)\n  {\n  // Even though the response status was 2xx, this is still an error.\n  ok = false;\n  // The parse error contains the text of the body that failed to parse.\n  body = /**\n  @type {?} */ ({ error: error, text: body });\n  }\n  }\n  if (ok) {\n  // A successful response is delivered on the event stream.\n  observer.next(new HttpResponse({\n  body: body,\n  headers: headers,\n  status: status,\n  statusText:\n  statusText,\n  url: url || undefined,\n  }));\n  // The full body has been received\n  and delivered, no further events\n  // are possible. This request is complete.\n  observer.complete();\n  }\n  else {\n  // An unsuccessful request is delivered on the error\n  channel.\n  observer.error(new HttpResponse({\n  // The error in this case is the\n  response body (error from the server).\n  error: body,\n  headers: headers,\n  status: status,\n  statusText: statusText,\n  url: url || undefined,\n  }));\n  }\n  }; \n  // The onError callback is called when something goes wrong at the network level.\n  //\n  Connection timeout, DNS error, offline, etc. These are actual errors, and are\n  // transmitted on the error\n  channel.\n  var /** @type {?} */ onError = function (error) {\n  var /** @type {?} */ res = new\n  HttpResponse({\n  error: error,\n  status: xhr.status || 0,\n  statusText:\n  xhr.statusText || 'Unknown Error',\n  });\n  observer.error(res);\n  }; \n  // The\n  sentHeaders flag tracks whether the HttpResponseHeaders event\n  // has been sent on the stream. This is\n  necessary to track if progress\n  // is enabled since the event will be sent on only the first download\n  //\n  progress event.\n  var /** @type {?} */ sentHeaders = false;\n  // The download progress event handler,\n  which is only registered if\n  // progress events are enabled.\n  var /** @type {?} */ onDownProgress =\n  function (event) {\n  // Send the HttpResponseHeaders event if it hasn't been sent already.\n  if\n  (!sentHeaders) {\n  observer.next(partialFromXhr());\n  sentHeaders = true;\n  }\n  // Start building the download progress event to deliver on the response\n  // event stream.\n  var /** @type {?} */ progressEvent = {\n  type: EventType.DownloadProgress,\n  loaded: event.loaded,\n  };\n  // Set the total number of bytes in the event if it's available.\n  if (event.lengthComputable) {\n  progressEvent.total = event.total;\n  }\n  // If the\n  request was for text content and a partial response is\n  // available on XMLHttpRequest, include it in the\n  progress event\n  // to allow for streaming reads.\n  if (req.responseType === 'text' &&\n  !!xhr.responseText) {\n  progressEvent.partialText = xhr.responseText;\n  }\n  // Finally, fire the event.\n  observer.next(progressEvent);\n  }; \n  // The upload progress event\n  handler, which is only registered if\n  // progress events are enabled.\n  var /** @type {?} */\n  onUpProgress = function (event) {\n  // Upload progress events are simpler. Begin building the progress\n  // event.\n  var /** @type {?} */ progress = {\n  type: EventType.UploadProgress,\n  loaded: event.loaded,\n  };\n  // If the total number of bytes being uploaded is available,

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include\n          // it.\n          if (event.lengthComputable) {\n          progress.total = event.total;\n          }\n          // Send the event.\n          observer.next(progress);\n          });\n          // By default, register for\n          load and error events.\n          xhr.addEventListener('load', onLoad);\n          xhr.addEventListener('error',\n          onError);\n          // Progress events are only enabled if requested.\n          if (req.reportProgress) {\n          //\n          Download progress is always enabled if requested.\n          xhr.addEventListener('progress', onDownProgress);\n          // Upload progress depends on whether there is a body to upload.\n          if (reqBody !== null &&\n          xhr.upload) {\n          xhr.upload.addEventListener('progress', onUpProgress);\n          }\n          }\n          // Fire the request, and notify the event stream that it was fired.\n          xhr.send(reqBody);\n          observer.next({\n          type: HttpEventType.Sent });\n          // This is the return from the Observable function, which is the\n          //\n          request cancellation handler.\n          return function () {\n          // On a cancellation, remove all registered\n          event listeners.\n          xhr.removeEventListener('error', onError);\n          xhr.removeEventListener('load',\n          onLoad);\n          if (req.reportProgress) {\n          xhr.removeEventListener('progress',\n          onDownProgress);\n          if (reqBody !== null && xhr.upload) {\n          xhr.upload.removeEventListener('progress', onUpProgress);\n          }\n          }\n          // Finally, abort\n          the in-flight request.\n          xhr.abort();\n          });\n          });\n          HttpXhrBackend.decorators = [\n          {\n          type: Injectable },\n          ];\n          /** @nocollapse */\n          HttpXhrBackend.ctorParameters = function () { return [\n          {\n          type: XhrFactory },\n          ];\n          }; return HttpXhrBackend;\n          });\n          /**\n          * @fileoverview added by tsickle\n          * @suppress {checkTypes} checked by tsc\n          */\n          /**\n          * @license\n          * Copyright Google Inc. All Rights Reserved.\n          *\n          * Use of this source code is governed by an MIT-style license that can be\n          * found in the LICENSE file at\n          https://angular.io/license\n          */\n          var XSRF_COOKIE_NAME = new\n          InjectionToken('XSRF_COOKIE_NAME');\n          var XSRF_HEADER_NAME = new\n          InjectionToken('XSRF_HEADER_NAME');\n          /**\n          * Retrieves the current XSRF token to use with the next\n          outgoing request.\n          */\n          @stable\n          @abstract\n          @nvar HttpXsrfTokenExtractor = /** @class */ (function () {\n          function HttpXsrfTokenExtractor() {\n          }\n          return HttpXsrfTokenExtractor;\n          });\n          /**\n          * `HttpXsrfTokenExtractor` which retrieves the token from a cookie.\n          */\n          @nvar HttpXsrfCookieExtractor = /** @class\n          */ (function () {\n          function HttpXsrfCookieExtractor(doc, platform, cookieName) {\n          this.doc = doc;\n          this.platform = platform;\n          this.cookieName = cookieName;\n          this.lastCookieString = '';\n          this.lastToken = null;\n          /**\n          * @internal for testing\n          */\n          this.parseCount = 0;\n          }\n          /**\n          * @return {?}\n          */\n          HttpXsrfCookieExtractor.prototype.getToken = /**\n          * @return {?}\n          */\n          function\n          () {\n          if (this.platform === 'server') {\n          return null;\n          }\n          var /** @type {?} */ cookieString =\n          this.doc.cookie || '';\n          if (cookieString !== this.lastCookieString) {\n          this.parseCount++;\n          this.lastToken = parseCookieValue(cookieString, this.cookieName);\n          this.lastCookieString =\n          cookieString;\n          }\n          return this.lastToken;\n          });\n          HttpXsrfCookieExtractor.decorators = [\n          {\n          type:\n          Injectable },\n          ];\n          /** @nocollapse */\n          HttpXsrfCookieExtractor.ctorParameters = function () { return [\n          {\n          type: undefined, decorators: [{\n          type: Inject, args: [DOCUMENT, ] },\n          ],\n          },\n          {\n          type: undefined, decorators: [{\n          type: Inject, args: [PLATFORM_ID, ] },\n          ],\n          },\n          {\n          type: undefined, decorators: [{\n          type: Inject, args:\n          [XSRF_COOKIE_NAME, ] },\n          ],\n          },\n          ];\n          }; return HttpXsrfCookieExtractor;\n          });\n          /**\n          * `HttpInterceptor`\n          which adds an XSRF token to eligible outgoing requests.\n          */\n          @nvar HttpXsrfInterceptor = /** @class */ (function ()\n          {\n          function HttpXsrfInterceptor(tokenService, headerName) {\n          this.tokenService = tokenService;\n          this.headerName = headerName;\n          }\n          /**\n          * @param {?} req\n          * @param {?} next\n          * @return {?}\n          */\n          HttpXsrfInterceptor.prototype.intercept = /**\n          * @param {?} req\n          * @param {?} next\n          * @return\n          {?}\n          */\n          function (req, next) {\n          var /** @type {?} */ lcUrl = req.url.toLowerCase();\n          // Skip both\n          non-mutating requests and absolute URLs.\n          // Non-mutating requests don't require a token, and absolute URLs\n          require special handling\n          // anyway as the cookie set\n          // on our origin is not the same as the token\n          expected by another origin.\n          if (req.method === 'GET' || req.method === 'HEAD' || lcUrl.startsWith('http://')\n          ||\n          lcUrl.startsWith('https://')) {\n          return next.handle(req);\n          }\n          var /** @type {?} */ token =\n          this.tokenService.getToken();\n          // Be careful not to overwrite an existing header of the same name.\n          if\n          (token !== null && !req.headers.has(this.headerName)) {\n          req = req.clone({ headers:\n          
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req.headers.set(this.headerName, token) });\n    }\n    return next.handle(req);\n  };\n
HttpXsrfInterceptor.decorators = [\n    { type: Injectable },\n  ];\n  /** @nocollapse */\n
HttpXsrfInterceptor.ctorParameters = function () { return [\n    { type: HttpXsrfTokenExtractor, },\n    { type: undefined, decorators: [{ type: Inject, args: [XSRF_HEADER_NAME,] },] },\n  ]; }; return
HttpXsrfInterceptor;\n})();\n\n/**\n * @fileoverview added by tsickle\n * @suppress {checkTypes} checked by
ts\n */\n\n/**\n * @license\n * Copyright Google Inc. All Rights Reserved.\n *\n * Use of this source code is
governed by an MIT-style license that can be\n * found in the LICENSE file at https://angular.io/license\n */\n\n/**\n * Constructs an `HttpHandler` that applies a bunch of `HttpInterceptor`s\n * to a request before passing it to the
given `HttpBackend`.\n *\n * Meant to be used as a factory function within `HttpClientModule`.\n *\n * @@stable\n * @param {?} backend\n * @param {?=} interceptors\n * @return {?} }\n */\nfunction interceptingHandler(backend,
interceptors) {\n  if (interceptors === void 0) { interceptors = []; }\n  if (!interceptors) {\n    return backend;\n  }\n  return interceptors.reduceRight(function (next, interceptor) { return new HttpInterceptorHandler(next,
interceptor); }, backend);\n}\n\n/**\n * Factory function that determines where to store JSONP callbacks.\n *\n * Ordinarily JSONP callbacks are stored on the `window` object, but this may not exist\n * in test environments. In
that case, callbacks are stored on an anonymous object instead.\n *\n * @@stable\n * @return {?} }\n */\nfunction
jsonpCallbackContext() {\n  if (typeof window === 'object') {\n    return window;\n  }\n  return {};\n}\n\n/**\n * `NgModule` which adds XSRF protection support to outgoing requests.\n *\n * Provided the server supports a
cookie-based XSRF protection system, this\n * module can be used directly to configure XSRF protection with the
correct\n * cookie and header names.\n *\n * If no such names are provided, the default is to use `X-XSRF-TOKEN`
for\n * the header name and `XSRF-TOKEN` for the cookie name.\n *\n * @@stable\n */\n
HttpClientXsrfModule = /** @class */ (function () {\n  function HttpClientXsrfModule() {\n    }\n  /**\n   *
Disable the default XSRF protection.\n   *\n   */\n  /**\n   * Disable the default XSRF protection.\n   *\n   * @return
{?}\n   *\n   */\n  /**\n   * Disable the default XSRF protection.\n   *\n   * @return {?} }\n   *\n   */\n  function () {\n    return {\n      ngModule: HttpClientXsrfModule,\n      providers: [\n        {\n          provide: HttpXsrfInterceptor, useClass: NoopInterceptor },\n        ],\n      ];\n    }; }\n  /**\n   * Configure XSRF
protection to use the given cookie name or header name,\n   * or the default names (as described above) if not
provided.\n   *\n   */\n  /**\n   * Configure XSRF protection to use the given cookie name or header name,\n   * or
the default names (as described above) if not provided.\n   * @param {?=} options\n   * @return {?} }\n   *\n   */\n  HttpClientXsrfModule.withOptions = /**\n   * Configure XSRF protection to use the given cookie name or header
name,\n   * or the default names (as described above) if not provided.\n   * @param {?=} options\n   * @return
{?}\n   *\n   */\n  function (options) {\n    if (options === void 0) { options = {}; }\n    return {\n      ngModule: HttpClientXsrfModule,\n      providers: [\n        options.cookieName ? { provide:
XSRF_COOKIE_NAME, useValue: options.cookieName } : [],\n        options.headerName ? { provide:
XSRF_HEADER_NAME, useValue: options.headerName } : [],\n      ],\n    }; }\n  }\n  HttpClientXsrfModule.decorators = [\n    { type: NgModule, args: [{\n      providers: [\n        HttpXsrfInterceptor,\n        {\n          provide: HTTP_INTERCEPTORS, useExisting: HttpXsrfInterceptor, multi:
true },\n        {\n          provide: HttpXsrfTokenExtractor, useClass: HttpXsrfCookieExtractor },\n        {\n          provide: XSRF_COOKIE_NAME, useValue: 'XSRF-TOKEN' },\n        {\n          provide:
XSRF_HEADER_NAME, useValue: 'X-XSRF-TOKEN' },\n        ],\n      },\n    ],\n  ];\n  /**\n   * @nocollapse */\n  HttpClientXsrfModule.ctorParameters = function () { return []; }; }\n  return
HttpClientXsrfModule;\n})();\n\n/**\n * `NgModule` which provides the `HttpClient` and associated services.\n *\n * Interceptors can be added to the chain behind `HttpClient` by binding them\n * to the multiprovider for
`HTTP_INTERCEPTORS`.\n *\n * @@stable\n */\nfunction HttpClientModule = /** @class */ (function () {\n  function HttpClientModule() {\n    }\n  HttpClientModule.decorators = [\n    { type: NgModule, args: [{\n      imports: [\n        HttpClientModule.withOptions({\n          cookieName: 'XSRF-TOKEN',\n          headerName: 'X-XSRF-TOKEN',\n        }),\n      ],\n      providers: [\n        HttpClient,\n        // HttpHandler is the backend + interceptors and is
constructed\n        // using the interceptingHandler factory function.\n      ],\n    }]\n  }

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\Emulated\;\nViewEncapsulation[ViewEncapsulation.Native] =
\Native\;\nViewEncapsulation[ViewEncapsulation.None] = \None\";\n/** @enum {number} */\nvar
ChangeDetectionStrategy = {\n  OnPush: 0,\n  Default:
1,\n};\nChangeDetectionStrategy[ChangeDetectionStrategy.OnPush] =
\OnPush\";\nChangeDetectionStrategy[ChangeDetectionStrategy.Default] = \Default\";\nvar createComponent =
makeMetadataFactory('Component', function (c) {\n  if (c === void 0) { c = {}; }\n  return (__assign({
changeDetection: ChangeDetectionStrategy.Default }, c));\n});\n/**\n * @record\n */\nfunction Pipe() { }\nvar
createPipe = makeMetadataFactory('Pipe', function (p) { return (__assign({ pure: true }, p)); });\n/**\n * @record\n */\nfunction Input() { }\nvar createInput = makeMetadataFactory('Input', function (bindingPropertyName) { return
({ bindingPropertyName: bindingPropertyName }); });\n/**\n * @record\n */\nfunction Output() { }\nvar
createOutput = makeMetadataFactory('Output', function (bindingPropertyName) { return ({ bindingPropertyName:
bindingPropertyName }); });\n/**\n * @record\n */\nfunction HostBinding() { }\nvar createHostBinding =
makeMetadataFactory('HostBinding', function (hostPropertyName) { return ({ hostPropertyName:
hostPropertyName }); });\n/**\n * @record\n */\nfunction HostListener() { }\nvar createHostListener =
makeMetadataFactory('HostListener', function (eventName, args) { return ({ eventName: eventName, args: args });
});\n/**\n * @record\n */\nfunction NgModule() { }\nvar createNgModule = makeMetadataFactory('NgModule',
function (ngModule) { return ngModule; });\n/**\n * @record\n */\nfunction ModuleWithProviders() { }\n/**\n *
@record\n */\nfunction SchemaMetadata() { }\nvar CUSTOM_ELEMENTS_SCHEMA = {\n  name: 'custom-
elements'\n};\nvar NO_ERRORS_SCHEMA = {\n  name: 'no-errors-schema'\n};\nvar createOptional =
makeMetadataFactory('Optional');\nvar createInjectable = makeMetadataFactory('Injectable');\nvar createSelf =
makeMetadataFactory('Self');\nvar createSkipSelf = makeMetadataFactory('SkipSelf');\nvar createHost =
makeMetadataFactory('Host');\nvar Type = Function;\n/** @enum {number} */\nvar SecurityContext = {\n
NONE: 0,\n HTML: 1,\n STYLE: 2,\n SCRIPT: 3,\n URL: 4,\n RESOURCE_URL:
5,\n};\nSecurityContext[SecurityContext.NONE] = \NONE\";\nSecurityContext[SecurityContext.HTML] =
\HTML\";\nSecurityContext[SecurityContext.STYLE] = \STYLE\";\nSecurityContext[SecurityContext.SCRIPT]
= \SCRIPT\";\nSecurityContext[SecurityContext.URL] =
\URL\";\nSecurityContext[SecurityContext.RESOURCE_URL] = \RESOURCE_URL\";\n/** @enum {number}
*/\nvar NodeFlags = {\n  None: 0,\n  TypeElement: 1,\n  TypeText: 2,\n  ProjectedTemplate: 4,\n
CatRenderNode: 3,\n  TypeNgContent: 8,\n  TypePipe: 16,\n  TypePureArray: 32,\n  TypePureObject: 64,\n
TypePurePipe: 128,\n  CatPureExpression: 224,\n  TypeValueProvider: 256,\n  TypeClassProvider: 512,\n
TypeFactoryProvider: 1024,\n  TypeUseExistingProvider: 2048,\n  LazyProvider: 4096,\n  PrivateProvider:
8192,\n  TypeDirective: 16384,\n  Component: 32768,\n  CatProviderNoDirective: 3840,\n  CatProvider:
20224,\n  OnInit: 65536,\n  OnDestroy: 131072,\n  DoCheck: 262144,\n  OnChanges: 524288,\n
AfterContentInit: 1048576,\n  AfterContentChecked: 2097152,\n  AfterViewInit: 4194304,\n
AfterViewChecked: 8388608,\n  EmbeddedViews: 16777216,\n  ComponentView: 33554432,\n
TypeContentQuery: 67108864,\n  TypeViewQuery: 134217728,\n  StaticQuery: 268435456,\n  DynamicQuery:
536870912,\n  CatQuery: 201326592,\n  // mutually exclusive values...\n  Types: 201347067,\n};\n/** @enum
{number} */\nvar DepFlags = {\n  None: 0,\n  SkipSelf: 1,\n  Optional: 2,\n  Value: 8,\n};\n/** @enum
{number} */\nvar ArgumentType = { Inline: 0, Dynamic: 1, };;\n/** @enum {number} */\nvar BindingFlags = {\n
TypeElementAttribute: 1,\n  TypeElementClass: 2,\n  TypeElementStyle: 4,\n  TypeProperty: 8,\n
SyntheticProperty: 16,\n  SyntheticHostProperty: 32,\n  CatSyntheticProperty: 48,\n  // mutually exclusive
values...\n  Types: 15,\n};\n/** @enum {number} */\nvar QueryBindingType = { First: 0, All: 1, };;\n/** @enum
{number} */\nvar QueryValueType = {\n  ElementRef: 0,\n  RenderElement: 1,\n  TemplateRef: 2,\n
ViewContainerRef: 3,\n  Provider: 4,\n};\n/** @enum {number} */\nvar ViewFlags = {\n  None: 0,\n  OnPush:
2,\n};\n/** @enum {number} */\nvar MissingTranslationStrategy = {\n  Error: 0,\n  Warning: 1,\n  Ignore:
2,\n};\nMissingTranslationStrategy[MissingTranslationStrategy.Error] =
\Error\";\nMissingTranslationStrategy[MissingTranslationStrategy.Warning] =
\Warning\";\nMissingTranslationStrategy[MissingTranslationStrategy.Ignore] = \Ignore\";\n/**\n * @record\n

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@return {?} \n  * \n  ValueTransformer.prototype.visitStringMap = /** \n  * @param {?} map \n  * @param
{?} context \n  * @return {?} \n  * \n  function (map, context) { \n    var _this = this; \n    var /** @type {?}
*/ result = {}; \n    Object.keys(map).forEach(function (key) { result[key] = visitValue(map[key], _this, context);
}); \n    return result; \n  }; \n  /** \n  * @param {?} value \n  * @param {?} context \n  * @return {?} \n
* \n  ValueTransformer.prototype.visitPrimitive = /** \n  * @param {?} value \n  * @param {?} context \n  *
@return {?} \n  * \n  function (value, context) { return value; }; \n  /** \n  * @param {?} value \n  * @param
{?} context \n  * @return {?} \n  * \n  ValueTransformer.prototype.visitOther = /** \n  * @param {?} value \n
* @param {?} context \n  * @return {?} \n  * \n  function (value, context) { return value; }; \n  return
ValueTransformer; \n  }); \n  \n  var SyncAsync = { \n    assertSync: function (value) { \n      if (isPromise(value)) { \n
throw new Error("\Illegal state: value cannot be a promise"); \n      } \n      return value; \n    }, \n    then: function
(value, cb) { return isPromise(value) ? value.then(cb) : cb(value); }, \n    all: function (syncAsyncValues) { \n
return syncAsyncValues.some(isPromise) ? Promise.all(syncAsyncValues) : /** @type {?} */
(syncAsyncValues); \n  } \n  }; \n  /** \n  * @param {?} msg \n  * @param {?=} parseErrors \n  * @return {?} \n
* \n  function syntaxError(msg, parseErrors) { \n    var /** @type {?} */ error = Error(msg); \n    (/** @type {?} */
(error))[ERROR_SYNTAX_ERROR] = true; \n    if (parseErrors) \n      (/** @type {?} */
(error))[ERROR_PARSE_ERRORS] = parseErrors; \n    return error; \n  } \n  \n  var ERROR_SYNTAX_ERROR =
'ngSyntaxError'; \n  var ERROR_PARSE_ERRORS = 'ngParseErrors'; \n  /** \n  * @param {?} error \n  * @return {?} \n
* \n  function isSyntaxError(error) { \n    return (/** @type {?} */ (error))[ERROR_SYNTAX_ERROR]; \n  } \n  /** \n
* @param {?} error \n  * @return {?} \n  * \n  function getParseErrors(error) { \n    return (/** @type {?} */
(error))[ERROR_PARSE_ERRORS] || []; \n  } \n  /** \n  * @param {?} s \n  * @return {?} \n  * \n  function
escapeRegExp(s) { \n    return s.replace(/([.*+?^=!:${}()|\[\]\/\\\|])/g, "\\$1"); \n  } \n  \n  var STRING_MAP_PROTO =
Object.getPrototypeOf({}); \n  /** \n  * @param {?} obj \n  * @return {?} \n  * \n  function isStrictStringMap(obj) { \n
return typeof obj === 'object' && obj !== null && Object.getPrototypeOf(obj) ===
STRING_MAP_PROTO; \n  } \n  /** \n  * @param {?} str \n  * @return {?} \n  * \n  function utf8Encode(str) { \n    var /**
@type {?} */ encoded = ""; \n    for (var /** @type {?} */ index = 0; index < str.length; index++) { \n      var /**
@type {?} */ codePoint = str.charCodeAt(index); \n      // decode surrogate \n      // see
https://mathiasbynens.be/notes/javascript-encoding#surrogate-formulae \n      if (codePoint >= 0xd800 &&
codePoint <= 0xdbff && str.length > (index + 1)) { \n        var /** @type {?} */ low = str.charCodeAt(index +
1); \n        if (low >= 0xdc00 && low <= 0xdfff) { \n          index++; \n          codePoint = ((codePoint -
0xd800) << 10) + low - 0xdc00 + 0x10000; \n        } \n      } \n      if (codePoint <= 0x7f) { \n        encoded +=
String.fromCharCode(codePoint); \n      } \n      else if (codePoint <= 0x7ff) { \n        encoded +=
String.fromCharCode(((codePoint >> 6) & 0x1f) | 0xc0, (codePoint & 0x3f) | 0x80); \n      } \n      else if
(codePoint <= 0xffff) { \n        encoded += String.fromCharCode((codePoint >> 12) | 0xe0, ((codePoint >> 6) &
0x3f) | 0x80, (codePoint & 0x3f) | 0x80); \n      } \n      else if (codePoint <= 0x1ffff) { \n        encoded +=
String.fromCharCode(((codePoint >> 18) & 0x07) | 0xf0, ((codePoint >> 12) & 0x3f) | 0x80, ((codePoint >> 6) &
0x3f) | 0x80, (codePoint & 0x3f) | 0x80); \n      } \n    } \n    return encoded; \n  } \n  /** \n  * @record \n  * \n  *
@param {?} token \n  * @return {?} \n  * \n  function stringify(token) { \n    if (typeof token === 'string') { \n      return
token; \n    } \n    if (token instanceof Array) { \n      return '[' + token.map(stringify).join(', ') + ']'; \n    } \n    if (token
=== null) { \n      return " + token; \n    } \n    if (token.overriddenName) { \n      return "\"" +
token.overriddenName; \n    } \n    if (token.name) { \n      return "\"" + token.name; \n    } \n    var /** @type {?} */
res = token.toString(); \n    if (res === null) { \n      return " + res; \n    } \n    var /** @type {?} */ newLineIndex =
res.indexOf("\n"); \n    return newLineIndex === -1 ? res : res.substring(0, newLineIndex); \n  } \n  /** \n  * Lazily
retrieves the reference value from a forwardRef. \n  * @param {?} type \n  * @return {?} \n  * \n  function
resolveForwardRef(type) { \n    if (typeof type === 'function' && type.hasOwnProperty('__forward_ref__')) { \n
return type(); \n    } \n    else { \n      return type; \n    } \n  } \n  /** \n  * Determine if the argument is shaped like a
Promise \n  * @param {?} obj \n  * @return {?} \n  * \n  function isPromise(obj) { \n    // allow any Promise/A+
compliant thenable. \n    // It's up to the caller to ensure that obj.then conforms to the spec \n    return !!obj && typeof
obj.then === 'function'; \n  } \n  \n  var Version = /** @class */ (function () { \n    function Version(full) { \n      this.full =

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full;\n    var /** @type {?} */ splits = full.split('.');\n    this.major = splits[0];\n    this.minor = splits[1];\n    this.patch = splits.slice(2).join('.');\n  }\n  return Version;\n})();\n\n/**\n * @record\n * ^/\n\n/**\n * @fileoverview\n added by tsickle\n * @suppress {checkTypes} checked by tsc\n * ^/\n\n/**\n * @license\n * Copyright Google Inc. All Rights Reserved.\n * ^/\n * Use of this source code is governed by an MIT-style license that can be\n * found in the LICENSE file at https://angular.io/license\n * ^/\n\n/**\n * @stable\n * ^/\n\nvar VERSION = new\nVersion('5.2.1');\n\n/**\n * @fileoverview\n added by tsickle\n * @suppress {checkTypes} checked by tsc\n * ^/\n\n/**\n * @license\n * Copyright Google Inc. All Rights Reserved.\n * ^/\n * Use of this source code is governed by an MIT-\n style license that can be\n * found in the LICENSE file at https://angular.io/license\n * ^/\n\n/**\n * An Abstract Syntax\n Tree node representing part of a parsed Angular template.\n * @record\n * ^/\n\n/**\n * A segment of text within the\n template.\n * ^/\n\nvar TextAst = /** @class */ (function () {\n  function TextAst(value, ngContentIndex, sourceSpan)\n  {\n    this.value = value;\n    this.ngContentIndex = ngContentIndex;\n    this.sourceSpan = sourceSpan;\n  }\n\n  /**\n   * @param {?} visitor\n   * @param {?} context\n   * @return {?} ^/\n   TextAst.prototype.visit = /**\n   * @param {?} visitor\n   * @param {?} context\n   * @return {?} ^/\n   function (visitor, context) {\n     return visitor.visitText(this, context);\n   };\n   return TextAst;\n})();\n\n/**\n * A bound\n expression within the text of a template.\n * ^/\n\nvar BoundTextAst = /** @class */ (function () {\n  function\n  BoundTextAst(value, ngContentIndex, sourceSpan)\n  {\n    this.value = value;\n    this.ngContentIndex =\n ngContentIndex;\n    this.sourceSpan = sourceSpan;\n  }\n\n  /**\n   * @param {?} visitor\n   * @param {?} context\n   * @return {?} ^/\n   BoundTextAst.prototype.visit = /**\n   * @param {?} visitor\n   * @param {?} context\n   * @return {?} ^/\n   function (visitor, context) {\n     return visitor.visitBoundText(this,\n context);\n   };\n   return BoundTextAst;\n})();\n\n/**\n * A plain attribute on an element.\n * ^/\n\nvar AttrAst = /** @class */ (function () {\n  function AttrAst(name, value, sourceSpan)\n  {\n    this.name = name;\n    this.value =\n value;\n    this.sourceSpan = sourceSpan;\n  }\n\n  /**\n   * @param {?} visitor\n   * @param {?} context\n   * @return {?} ^/\n   AttrAst.prototype.visit = /**\n   * @param {?} visitor\n   * @param {?} context\n   * @return {?} ^/\n   function (visitor, context) {\n     return visitor.visitAttr(this, context);\n   };\n   return\n AttrAst;\n})();\n\n/**\n * A binding for an element property (e.g. `[property]="expression"`) or an animation trigger\n (e.g. `\\[@trigger]="stateExp"`) ^/\n\nvar BoundElementPropertyAst = /** @class */ (function () {\n  function\n  BoundElementPropertyAst(name, type, securityContext, value, unit, sourceSpan)\n  {\n    this.name =\n name;\n    this.type = type;\n    this.securityContext = securityContext;\n    this.value = value;\n    this.unit\n = unit;\n    this.sourceSpan = sourceSpan;\n    this.isAnimation = this.type ===\n PropertyBindingType.Animation;\n  }\n\n  /**\n   * @param {?} visitor\n   * @param {?} context\n   * @return\n {?} ^/\n   BoundElementPropertyAst.prototype.visit = /**\n   * @param {?} visitor\n   * @param {?} context\n   * @return\n {?} ^/\n   function (visitor, context) {\n     return visitor.visitElementProperty(this,\n context);\n   };\n   return BoundElementPropertyAst;\n})();\n\n/**\n * A binding for an element event (e.g. `(event)="handler()`) or an animation trigger event\n (e.g. `\\[@trigger.phase]="callback($event)`) ^/\n\nvar BoundEventAst = /** @class */ (function () {\n  function\n  BoundEventAst(name, target, phase, handler,\n sourceSpan)\n  {\n    this.name = name;\n    this.target = target;\n    this.phase = phase;\n    this.handler =\n handler;\n    this.sourceSpan = sourceSpan;\n    this.fullName = BoundEventAst.calcFullName(this.name,\n this.target, this.phase);\n    this.isAnimation = !!this.phase;\n  }\n\n  /**\n   * @param {?} name\n   * @param\n {?} target\n   * @param {?} phase\n   * @return {?} ^/\n   BoundEventAst.calcFullName = /**\n   * @param\n {?} name\n   * @param\n {?} target\n   * @param\n {?} phase\n   * @return\n {?} ^/\n   function\n (name, target, phase)\n  {\n    if (target)\n      return target + '\\:' + name;\n    else if (phase)\n      return '\\@' + name + '\\.' + phase;\n    else\n      return name;\n  };\n\n  /**\n   * @param\n {?} visitor\n   * @param\n {?} context\n   * @return\n {?} ^/\n   BoundEventAst.prototype.visit =\n /**\n   * @param\n {?} visitor\n   * @param\n {?} context\n   * @return\n {?} ^/\n   function\n (visitor, context)\n  {\n    return visitor.visitEvent(this, context);\n  };\n   return BoundEventAst;\n})();\n\n/**\n * A reference\n declaration on an element (e.g. `let someName="expression"`) ^/\n\nvar ReferenceAst = /** @class */ (function ()\n {\n  function ReferenceAst(name, value, sourceSpan)\n  {\n    this.name = name;\n    this.value = value;\n    this.sourceSpan = sourceSpan;\n  }\n\n  /**\n   * @param\n {?} visitor\n   * @param\n {?} context\n   * @return\n
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{?}\n  *^n ReferenceAst.prototype.visit = /**\n  * @param {?} visitor\n  * @param {?} context\n  * @return {?}\n  *^n function (visitor, context) {\n  return visitor.visitReference(this, context);\n  };\n  return ReferenceAst;\n});\n/**\n * A variable declaration on a <ng-template> (e.g. `var-  
someName="someLocalName"`).\n *^nvar VariableAst = /** @class */ (function () {\n  function  
VariableAst(name, value, sourceSpan) {\n    this.name = name;\n    this.value = value;\n    this.sourceSpan =  
sourceSpan;\n  }\n  /**\n   * @param {?} visitor\n   * @param {?} context\n   * @return {?}\n   *^n  
VariableAst.prototype.visit = /**\n   * @param {?} visitor\n   * @param {?} context\n   * @return {?}\n   *^n  
function (visitor, context) {\n  return visitor.visitVariable(this, context);\n  };\n  return  
VariableAst;\n});\n/**\n * An element declaration in a template.\n *^nvar ElementAst = /** @class */ (function ()  
{\n  function ElementAst(name, attrs, inputs, outputs, references, directives, providers, hasViewContainer,  
queryMatches, children, ngContentIndex, sourceSpan, endSourceSpan) {\n    this.name = name;\n    this.attrs =  
attrs;\n    this.inputs = inputs;\n    this.outputs = outputs;\n    this.references = references;\n    this.directives = directives;\n    this.providers = providers;\n    this.hasViewContainer = hasViewContainer;\n    this.queryMatches = queryMatches;\n    this.children = children;\n    this.ngContentIndex = ngContentIndex;\n    this.sourceSpan = sourceSpan;\n    this.endSourceSpan = endSourceSpan;\n  }\n  /**\n   * @param {?} visitor\n   * @param {?} context\n   * @return {?}\n   *^n  
ElementAst.prototype.visit = /**\n   * @param  
{?} visitor\n   * @param {?} context\n   * @return {?}\n   *^n  
function (visitor, context) {\n  return  
visitor.visitElement(this, context);\n  };\n  return ElementAst;\n});\n/**\n * A <ng-template> element included  
in an Angular template.\n *^nvar EmbeddedTemplateAst = /** @class */ (function () {\n  function  
EmbeddedTemplateAst(attrs, outputs, references, variables, directives, providers, hasViewContainer, queryMatches,  
children, ngContentIndex, sourceSpan) {\n    this.attrs = attrs;\n    this.outputs = outputs;\n    this.references =  
references;\n    this.variables = variables;\n    this.directives = directives;\n    this.providers = providers;\n    this.hasViewContainer = hasViewContainer;\n    this.queryMatches = queryMatches;\n    this.children =  
children;\n    this.ngContentIndex = ngContentIndex;\n    this.sourceSpan = sourceSpan;\n  }\n  /**\n   * @param {?} visitor\n   * @param {?} context\n   * @return {?}\n   *^n  
EmbeddedTemplateAst.prototype.visit = /**\n   * @param {?} visitor\n   * @param {?} context\n   * @return {?}\n   *^n  
function (visitor, context)  
{\n  return visitor.visitEmbeddedTemplate(this, context);\n  };\n  return EmbeddedTemplateAst;\n});\n/**\n * A directive property with a bound value (e.g. `*ngIf="condition"`).\n *^nvar BoundDirectivePropertyAst = /**  
@class */ (function () {\n  function BoundDirectivePropertyAst(directiveName, templateName, value, sourceSpan)  
{\n    this.directiveName = directiveName;\n    this.templateName = templateName;\n    this.value = value;\n    this.sourceSpan = sourceSpan;\n  }\n  /**\n   * @param {?} visitor\n   * @param {?} context\n   * @return  
{?}\n   *^n  
BoundDirectivePropertyAst.prototype.visit = /**\n   * @param {?} visitor\n   * @param {?} context\n   * @return {?}\n   *^n  
function (visitor, context) {\n  return visitor.visitDirectiveProperty(this,  
context);\n  };\n  return BoundDirectivePropertyAst;\n});\n/**\n * A directive declared on an element.\n *^nvar  
DirectiveAst = /** @class */ (function () {\n  function DirectiveAst(directive, inputs, hostProperties, hostEvents,  
contentQueryStartId, sourceSpan) {\n    this.directive = directive;\n    this.inputs = inputs;\n    this.hostProperties = hostProperties;\n    this.hostEvents = hostEvents;\n    this.contentQueryStartId =  
contentQueryStartId;\n    this.sourceSpan = sourceSpan;\n  }\n  /**\n   * @param {?} visitor\n   * @param  
{?} context\n   * @return {?}\n   *^n  
DirectiveAst.prototype.visit = /**\n   * @param {?} visitor\n   * @param  
{?} context\n   * @return {?}\n   *^n  
function (visitor, context) {\n  return  
visitor.visitDirective(this, context);\n  };\n  return DirectiveAst;\n});\n/**\n * A provider declared on an  
element\n *^nvar ProviderAst = /** @class */ (function () {\n  function ProviderAst(token, multiProvider, eager,  
providers, providerType, lifecycleHooks, sourceSpan) {\n    this.token = token;\n    this.multiProvider =  
multiProvider;\n    this.eager = eager;\n    this.providers = providers;\n    this.providerType =  
providerType;\n    this.lifecycleHooks = lifecycleHooks;\n    this.sourceSpan = sourceSpan;\n  }\n  /**\n   * @param {?} visitor\n   * @param {?} context\n   * @return {?}\n   *^n  
ProviderAst.prototype.visit = /**\n   * @param {?} visitor\n   * @param {?} context\n   * @return {?}\n   *^n  
function (visitor, context) {\n  //  
No visit method in the visitor for now...\n  return null;\n  };\n  return ProviderAst;\n});\n/** @enum

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{number} *^nvar ProviderAstType = {\n  PublicService: 0,\n  PrivateService: 1,\n  Component: 2,\n  Directive:
3,\n  Builtin: 4,\n};\nProviderAstType[ProviderAstType.PublicService] =
\"PublicService\";\nProviderAstType[ProviderAstType.PrivateService] =
\"PrivateService\";\nProviderAstType[ProviderAstType.Component] =
\"Component\";\nProviderAstType[ProviderAstType.Directive] =
\"Directive\";\nProviderAstType[ProviderAstType.Builtin] = \"Builtin\";\n/**\n * Position where content is to be
projected (instance of `<ng-content>` in a template).\n */\n^nvar NgContentAst = /** @class */ (function () {\n
function NgContentAst(index, ngContentIndex, sourceSpan) {\n  this.index = index;\n  this.ngContentIndex
= ngContentIndex;\n  this.sourceSpan = sourceSpan;\n } \n /**\n  * @param {?} visitor\n  * @param {?}
context\n  * @return {?} \n  */\n  ^n NgContentAst.prototype.visit = /**\n  * @param {?} visitor\n  * @param
{?} context\n  * @return {?} \n  */\n  ^n function (visitor, context) {\n  return visitor.visitNgContent(this,
context);\n }; \n return NgContentAst;\n})();\n/** @enum {number} */\n^nvar PropertyBindingType = {\n /**\n  * A normal binding to a property (e.g. `[property]=\"expression\")\n  */\n  Property: 0,\n /**\n  * A
binding to an element attribute (e.g. `[attr.name]=\"expression\")\n  */\n  Attribute: 1,\n /**\n  * A binding
to a CSS class (e.g. `[class.name]=\"condition\")\n  */\n  Class: 2,\n /**\n  * A binding to a style rule (e.g.
`[style.rule]=\"expression\")\n  */\n  Style: 3,\n /**\n  * A binding to an animation reference (e.g.
`[animate.key]=\"expression\")\n  */\n  Animation:
4,\n};\nPropertyBindingType[PropertyBindingType.Property] =
\"Property\";\nPropertyBindingType[PropertyBindingType.Attribute] =
\"Attribute\";\nPropertyBindingType[PropertyBindingType.Class] =
\"Class\";\nPropertyBindingType[PropertyBindingType.Style] =
\"Style\";\nPropertyBindingType[PropertyBindingType.Animation] = \"Animation\";\n/**\n * @record\n
*/\n^n/**\n * A visitor for {@link TemplateAst} trees that will process each node.\n */\n * @record\n */\n^n/**\n * A
visitor that accepts each node but doesn't do anything. It is intended to be used\n * as the base class for a visitor that
is only interested in a subset of the node types.\n */\n^nvar NullTemplateVisitor = /** @class */ (function () {\n
function NullTemplateVisitor() {\n } \n /**\n  * @param {?} ast\n  * @param {?} context\n  * @return
{?} \n  */\n  ^n NullTemplateVisitor.prototype.visitNgContent = /**\n  * @param {?} ast\n  * @param {?}
context\n  * @return {?} \n  */\n  ^n function (ast, context) { }; \n /**\n  * @param {?} ast\n  * @param {?}
context\n  * @return {?} \n  */\n  ^n NullTemplateVisitor.prototype.visitEmbeddedTemplate = /**\n  * @param
{?} ast\n  * @param {?} context\n  * @return {?} \n  */\n  ^n function (ast, context) { }; \n /**\n  * @param
{?} ast\n  * @param {?} context\n  * @return {?} \n  */\n  ^n NullTemplateVisitor.prototype.visitElement =
/**\n  * @param {?} ast\n  * @param {?} context\n  * @return {?} \n  */\n  ^n function (ast, context) { }; \n
/**\n  * @param {?} ast\n  * @param {?} context\n  * @return {?} \n  */\n  ^n
NullTemplateVisitor.prototype.visitReference = /**\n  * @param {?} ast\n  * @param {?} context\n  *
@return {?} \n  */\n  ^n function (ast, context) { }; \n /**\n  * @param {?} ast\n  * @param {?} context\n  *
@return {?} \n  */\n  ^n NullTemplateVisitor.prototype.visitVariable = /**\n  * @param {?} ast\n  * @param {?}
context\n  * @return {?} \n  */\n  ^n function (ast, context) { }; \n /**\n  * @param {?} ast\n  * @param {?}
context\n  * @return {?} \n  */\n  ^n NullTemplateVisitor.prototype.visitEvent = /**\n  * @param {?} ast\n  *
@return {?} \n  */\n  ^n function (ast, context) { }; \n /**\n  * @param {?} ast\n  * @param {?} context\n  *
@return {?} \n  */\n  ^n NullTemplateVisitor.prototype.visitElementProperty = /**\n  * @param {?} ast\n  *
@return {?} \n  */\n  ^n function (ast, context) { }; \n /**\n  * @param {?} ast\n  * @param {?} context\n  *
@return {?} \n  */\n  ^n NullTemplateVisitor.prototype.visitAttr =
/**\n  * @param {?} ast\n  * @param {?} context\n  * @return {?} \n  */\n  ^n function (ast, context) { }; \n
/**\n  * @param {?} ast\n  * @param {?} context\n  * @return {?} \n  */\n  ^n
NullTemplateVisitor.prototype.visitBoundText = /**\n  * @param {?} ast\n  * @param {?} context\n  *
@return {?} \n  */\n  ^n function (ast, context) { }; \n /**\n  * @param {?} ast\n  * @param {?} context\n  *
@return {?} \n  */\n  ^n NullTemplateVisitor.prototype.visitText = /**\n  * @param {?} ast\n  * @param {?}
context\n  * @return {?} \n  */\n  ^n function (ast, context) { }; \n /**\n  * @param {?} ast\n  * @param {?}
context\n  * @return {?} \n  */\n  ^n

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context\n * @return {?} \n * \n NullTemplateVisitor.prototype.visitDirective = /** \n * @param {?} ast \n
* @param {?} context \n * @return {?} \n * \n function (ast, context) { }; \n /** \n * @param {?} ast \n *
@param {?} context \n * @return {?} \n * \n NullTemplateVisitor.prototype.visitDirectiveProperty = /** \n
* @param {?} ast \n * @param {?} context \n * @return {?} \n * \n function (ast, context) { }; \n return
NullTemplateVisitor;\n})(); \n /** \n * Base class that can be used to build a visitor that visits each node \n * in
a template ast recursively. \n * \n nvar RecursiveTemplateAstVisitor = /** @class */ (function (_super) { \n
__extends(RecursiveTemplateAstVisitor, _super); \n function RecursiveTemplateAstVisitor() { \n return
_super.call(this) || this; \n } \n // Nodes with children \n /** \n * @param {?} ast \n * @param {?} context \n
* @return {?} \n * \n RecursiveTemplateAstVisitor.prototype.visitEmbeddedTemplate = /** \n * @param {?}
ast \n * @param {?} context \n * @return {?} \n * \n function (ast, context) { \n return
this.visitChildren(context, function (visit) { \n visit(ast.attrs); \n visit(ast.references); \n
visit(ast.variables); \n visit(ast.directives); \n visit(ast.providers); \n visit(ast.children); \n }); \n
}; \n /** \n * @param {?} ast \n * @param {?} context \n * @return {?} \n * \n
RecursiveTemplateAstVisitor.prototype.visitElement = /** \n * @param {?} ast \n * @param {?} context \n *
@return {?} \n * \n function (ast, context) { \n return this.visitChildren(context, function (visit) { \n
visit(ast.attrs); \n visit(ast.inputs); \n visit(ast.outputs); \n visit(ast.references); \n
visit(ast.directives); \n visit(ast.providers); \n visit(ast.children); \n }); \n }); \n /** \n * @param
 {?} ast \n * @param {?} context \n * @return {?} \n * \n
RecursiveTemplateAstVisitor.prototype.visitDirective = /** \n * @param {?} ast \n * @param {?} context \n
* @return {?} \n * \n function (ast, context) { \n return this.visitChildren(context, function (visit) { \n
visit(ast.inputs); \n visit(ast.hostProperties); \n visit(ast.hostEvents); \n }); \n }); \n /** \n *
@template T \n * @param {?} context \n * @param {?} cb \n * @return {?} \n * \n
RecursiveTemplateAstVisitor.prototype.visitChildren = /** \n * @template T \n * @param {?} context \n *
@param {?} cb \n * @return {?} \n * \n function (context, cb) { \n var /** @type {?} */ results = []; \n
var /** @type {?} */ t = this; \n /** \n * @template T \n * @param {?} children \n * @return {?} \n
* \n function visit(children) { \n if (children && children.length) \n
results.push(templateVisitAll(t, children, context)); \n } \n cb(visit); \n return [].concat.apply([],
results); \n }; \n return RecursiveTemplateAstVisitor;\n})(NullTemplateVisitor); \n /** \n * Visit every node in a
list of {@link TemplateAst}s with the given {@link TemplateAstVisitor}. \n * @param {?} visitor \n * @param
 {?} asts \n * @param {=} context \n * @return {?} \n * \n function templateVisitAll(visitor, asts, context) { \n if
(context === void 0) { context = null; } \n var /** @type {?} */ result = []; \n var /** @type {?} */ visit =
visitor.visit ? \n function (ast) { return ((visitor.visit))(ast, context) || ast.visit(visitor, context); } : \n
function (ast) { return ast.visit(visitor, context); }; \n asts.forEach(function (ast) { \n var /** @type {?} */
astResult = visit(ast); \n if (astResult) { \n result.push(astResult); \n } \n }); \n return result; \n } \n \n /** \n
* @fileoverview added by tsickle \n * @suppress {checkTypes} checked by tsc \n * \n /** \n * @license \n * Copyright
Google Inc. All Rights Reserved. \n * \n * Use of this source code is governed by an MIT-style license that can be \n
* found in the LICENSE file at https://angular.io/license \n * \n nvar CompilerConfig = /** @class */ (function () { \n
function CompilerConfig(_a) { \n var _b = _a === void 0 ? {} : _a, _c = _b.defaultEncapsulation,
defaultEncapsulation = _c === void 0 ? ViewEncapsulation.Emulated : _c, _d = _b.useJit, useJit = _d === void 0 ?
true : _d, _e = _b.jitDevMode, jitDevMode = _e === void 0 ? false : _e, _f = _b.missingTranslation,
missingTranslation = _f === void 0 ? null : _f, enableLegacyTemplate = _b.enableLegacyTemplate,
preserveWhitespaces = _b.preserveWhitespaces, strictInjectionParameters = _b.strictInjectionParameters; \n
this.defaultEncapsulation = defaultEncapsulation; \n this.useJit = !!useJit; \n this.jitDevMode =
!!jitDevMode; \n this.missingTranslation = missingTranslation; \n this.enableLegacyTemplate =
enableLegacyTemplate === true; \n this.preserveWhitespaces =
preserveWhitespacesDefault(noUndefined(preserveWhitespaces)); \n this.strictInjectionParameters =
strictInjectionParameters === true; \n } \n return CompilerConfig;\n})(); \n /** \n * @param {?}
preserveWhitespacesOption \n * @param {=} defaultSetting \n * @return {?} \n * \n function

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preserveWhitespacesDefault(preserveWhitespacesOption, defaultSetting) {\n  if (defaultSetting === void 0) {\n    defaultSetting = true; }\n  return preserveWhitespacesOption === null ? defaultSetting :
preserveWhitespacesOption;\n}\n\n/**\n * @fileoverview added by tsickle\n * @suppress {checkTypes} checked
by tsc\n *\n * @license\n * Copyright Google Inc. All Rights Reserved.\n *\n * Use of this source code is
governed by an MIT-style license that can be\n * found in the LICENSE file at https://angular.io/license\n *\n **\n * A token representing the a reference to a static type.\n *\n * This token is unique for a filePath and name and can
be used as a hash table key.\n *\n nvar StaticSymbol = /** @class */ (function () {\n  function
StaticSymbol(filePath, name, members) {\n    this.filePath = filePath;\n    this.name = name;\n
this.members = members;\n  }\n  /**\n   * @return {?}\n   *\n   StaticSymbol.prototype.assertNoMembers =
/**\n   * @return {?}\n   *\n   function () {\n    if (this.members.length) {\n      throw new Error("Illegal
state: symbol without members expected, but got '" + JSON.stringify(this) + "'.");\n    }\n  };\n  return
StaticSymbol;\n})();\n\n **\n * A cache of static symbol used by the StaticReflector to return the same symbol for
the\n * same symbol values.\n *\n nvar StaticSymbolCache = /** @class */ (function () {\n  function
StaticSymbolCache() {\n    this.cache = new Map();\n  }\n  /**\n   * @param {?} declarationFile\n   *
@param {?} name\n   * @param {?=} members\n   * @return {?}\n   *\n   StaticSymbolCache.prototype.get =
/**\n   * @param {?} declarationFile\n   * @param {?} name\n   * @param {?=} members\n   * @return {?}\n
*\n   function (declarationFile, name, members) {\n    members = members || [];\n    var /** @type {?} */
memberSuffix = members.length ? "\\.\" + members.join('.') : ";\n    var /** @type {?} */ key = "\"\" +
declarationFile + "\"\" + name + memberSuffix;\n    var /** @type {?} */ result = this.cache.get(key);\n    if
(!result) {\n      result = new StaticSymbol(declarationFile, name, members);\n      this.cache.set(key,
result);\n    }\n    return result;\n  };\n  return StaticSymbolCache;\n})();\n\n **\n * @fileoverview added by
tsickle\n * @suppress {checkTypes} checked by tsc\n *\n * @license\n * Copyright Google Inc. All Rights
Reserved.\n *\n * Use of this source code is governed by an MIT-style license that can be\n * found in the
LICENSE file at https://angular.io/license\n *\n // group 0: \"[prop] or (event) or @trigger\"\n // group 1: \"prop\"
from \"[prop]\"\n // group 2: \"event\" from \"(event)\"\n // group 3: \"@trigger\" from \"@trigger\"\n nvar
HOST_REG_EXP = /^(?:(?!(?:[^\w\]]+)))(?:(?!(?:[^\w\]]+)))(\|(?!(?:[^\w\]]+))$/;\n\n **\n * @param {?} name\n * @return
{?}\n *\n function _sanitizeIdentifier(name) {\n  return name.replace(/\\W/g, '_');\n}\n nvar _anonymousTypeIndex
= 0;\n\n **\n * @param {?} compileIdentifier\n * @return {?}\n *\n function identifierName(compileIdentifier) {\n
if (!compileIdentifier || !compileIdentifier.reference) {\n  return null;\n }\n  var /** @type {?} */ ref =
compileIdentifier.reference;\n  if (ref instanceof StaticSymbol) {\n    return ref.name;\n  }\n  if
(ref['__anonymousType']) {\n    return ref['__anonymousType'];\n  }\n  var /** @type {?} */ identifier =
stringify(ref);\n  if (identifier.indexOf('(') >= 0) {\n    // case: anonymous functions!\n    identifier =
\"anonymous_\" + _anonymousTypeIndex++;\n    ref['__anonymousType'] = identifier;\n  }\n  else {\n
identifier = _sanitizeIdentifier(identifier);\n  }\n  return identifier;\n}\n\n **\n * @param {?} compileIdentifier\n *
@return {?}\n *\n function identifierModuleName(compileIdentifier) {\n  var /** @type {?} */ ref =
compileIdentifier.reference;\n  if (ref instanceof StaticSymbol) {\n    return ref.filePath;\n  }\n  // Runtime
type\n  return \".\" + stringify(ref);\n}\n\n **\n * @param {?} compType\n * @param {?}\n
embeddedTemplateIndex\n * @return {?}\n *\n function viewClassName(compType, embeddedTemplateIndex) {\n
return \"View_\" + identifierName({ reference: compType }) + \"_\" + embeddedTemplateIndex;\n}\n\n **\n *
@param {?} compType\n * @return {?}\n *\n function rendererTypeName(compType) {\n  return
\"RenderType_\" + identifierName({ reference: compType });\n}\n\n **\n * @param {?} compType\n * @return
{?}\n *\n function hostViewClassName(compType) {\n  return \"HostView_\" + identifierName({ reference:
compType });\n}\n\n **\n * @param {?} compType\n * @return {?}\n *\n function
componentFactoryName(compType) {\n  return identifierName({ reference: compType }) +
\"NgFactory\";\n}\n\n **\n * @record\n *\n **\n * @record\n *\n **\n * @enum {number} *\n nvar
CompileSummaryKind = {\n  Pipe: 0,\n  Directive: 1,\n  NgModule: 2,\n  Injectable:
3,\n};\n\n CompileSummaryKind[CompileSummaryKind.Pipe] =
\"Pipe\";\n\n CompileSummaryKind[CompileSummaryKind.Directive] =

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\"Directive\";\nCompileSummaryKind[CompileSummaryKind.NgModule] =
\"NgModule\";\nCompileSummaryKind[CompileSummaryKind.Injectable] = \"Injectable\";\n/**\n * A
CompileSummary is the data needed to use a directive / pipe / module\n * in other modules / components. However,
this data is not enough to compile\n * the directive / module itself.\n * @record\n */\n * @record\n
*/\n * @record\n */\n * @record\n */\n * @param {?} token\n * @return {?}\n */\nfunction
tokenName(token) {\n  return token.value != null ? _sanitizeIdentifier(token.value) :
identifierName(token.identifier);\n}\n/**\n * @param {?} token\n * @return {?}\n */\nfunction
tokenReference(token) {\n  if (token.identifier != null) {\n    return token.identifier.reference;\n  }\n  else {\n
return token.value;\n  }\n}\n/**\n * @record\n */\n * Metadata regarding compilation of a type.\n *
@record\n */\n * @record\n */\n * Metadata about a stylesheet\n */\nvar CompileStylesheetMetadata = /** @class */ (function () {\n  function CompileStylesheetMetadata(_a) {\n    var _b = _a === void 0 ? {} : _a,
moduleUrl = _b.moduleUrl, styles = _b.styles, styleUrls = _b.styleUrls;\n    this.moduleUrl = moduleUrl || null;\n
this.styles = _normalizeArray(styles);\n    this.styleUrls = _normalizeArray(styleUrls);\n  }\n  return
CompileStylesheetMetadata;\n})();\n/**\n * Summary Metadata regarding compilation of a template.\n * @record\n
*/\n * Metadata regarding compilation of a template.\n */\nvar CompileTemplateMetadata = /** @class */
(function () {\n  function CompileTemplateMetadata(_a) {\n    var encapsulation = _a.encapsulation, template =
_a.template, templateUrl = _a.templateUrl, htmlAst = _a.htmlAst, styles = _a.styles, styleUrls = _a.styleUrls,
externalStylesheets = _a.externalStylesheets, animations = _a.animations, ngContentSelectors =
_a.ngContentSelectors, interpolation = _a.interpolation, isInline = _a.isInline, preserveWhitespaces =
_a.preserveWhitespaces;\n    this.encapsulation = encapsulation;\n    this.template = template;\n
this.templateUrl = templateUrl;\n    this.htmlAst = htmlAst;\n    this.styles = _normalizeArray(styles);\n
this.styleUrls = _normalizeArray(styleUrls);\n    this.externalStylesheets =
_normalizeArray(externalStylesheets);\n    this.animations = animations ? flatten(animations) : [];\n
this.ngContentSelectors = ngContentSelectors || [];\n    if (interpolation && interpolation.length != 2) {\n
throw new Error(\"'interpolation' should have a start and an end symbol.\");\n    }\n    this.interpolation =
interpolation;\n    this.isInline = isInline;\n    this.preserveWhitespaces = preserveWhitespaces;\n  }\n  /**\n
 * @return {?}\n */\n  CompileTemplateMetadata.prototype.toSummary = /**\n * @return {?}\n */\n  function () {\n    return {\n      ngContentSelectors: this.ngContentSelectors,\n      encapsulation:
this.encapsulation,\n    };
};\n  return CompileTemplateMetadata;\n})();\n/**\n * @record\n */\n * Metadata regarding compilation of a directive.\n */\nvar CompileDirectiveMetadata = /**
@class */ (function () {\n  function CompileDirectiveMetadata(_a) {\n    var isHost = _a.isHost, type = _a.type,
isComponent = _a.isComponent, selector = _a.selector, exportAs = _a.exportAs, changeDetection =
_a.changeDetection, inputs = _a.inputs, outputs = _a.outputs, hostListeners = _a.hostListeners, hostProperties =
_a.hostProperties, hostAttributes = _a.hostAttributes, providers = _a.providers, viewProviders = _a.viewProviders,
queries = _a.queries, guards = _a.guards, viewQueries = _a.viewQueries, entryComponents = _a.entryComponents,
template = _a.template, componentViewType = _a.componentViewType, rendererType = _a.rendererType,
componentFactory = _a.componentFactory;\n    this.isHost = !!isHost;\n    this.type = type;\n
this.isComponent = isComponent;\n    this.selector = selector;\n    this.exportAs = exportAs;\n
this.changeDetection = changeDetection;\n    this.inputs = inputs;\n    this.outputs = outputs;\n
this.hostListeners = hostListeners;\n    this.hostProperties = hostProperties;\n    this.hostAttributes =
hostAttributes;\n    this.providers = _normalizeArray(providers);\n    this.viewProviders =
_normalizeArray(viewProviders);\n    this.queries = _normalizeArray(queries);\n    this.guards = guards;\n
this.viewQueries = _normalizeArray(viewQueries);\n    this.entryComponents =
_normalizeArray(entryComponents);\n    this.template = template;\n    this.componentViewType =
componentViewType;\n    this.rendererType = rendererType;\n    this.componentFactory =
componentFactory;\n  }\n  /**\n * @param {?} __0\n * @return {?}\n */\n  function (_a) {\n
var isHost = _a.isHost, type = _a.type, isComponent = _a.isComponent, selector = _a.selector, exportAs =

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_a.exportAs, changeDetection = _a.changeDetection, inputs = _a.inputs, outputs = _a.outputs, host = _a.host,
providers = _a.providers, viewProviders = _a.viewProviders, queries = _a.queries, guards = _a.guards, viewQueries
= _a.viewQueries, entryComponents = _a.entryComponents, template = _a.template, componentViewType =
_a.componentViewType, rendererType = _a.rendererType, componentFactory = _a.componentFactory;\n    var
/** @type {?} */ hostListeners = {};\n    var /** @type {?} */ hostProperties = {};\n    var /** @type {?} */
hostAttributes = {};\n    if (host != null) {\n        Object.keys(host).forEach(function (key) {\n            var /**
@type {?} */ value = host[key];\n            var /** @type {?} */ matches = key.match(HOST_REG_EXP);\n            if (matches === null) {\n                hostAttributes[key] = value;\n            }\n            else if (matches[1] !=
null) {\n                hostProperties[matches[1]] = value;\n            }\n            else if (matches[2] != null) {\n                hostListeners[matches[2]] = value;\n            }\n        });\n    }\n    var /** @type {?} */ inputsMap =
{};\n    if (inputs != null) {\n        inputs.forEach(function (bindConfig) {\n            // canonical syntax:
`dirProp: elProp`\n            // if there is no `:` , use dirProp = elProp\n            var /** @type {?} */ parts =
splitAtColon(bindConfig, [bindConfig, bindConfig]);\n            inputsMap[parts[0]] = parts[1];\n        });\n    }\n    var /** @type {?} */ outputsMap = {};\n    if (outputs != null) {\n        outputs.forEach(function
(bindConfig) {\n            // canonical syntax: `dirProp: elProp`\n            // if there is no `:` , use dirProp =
elProp\n            var /** @type {?} */ parts = splitAtColon(bindConfig, [bindConfig, bindConfig]);\n            outputsMap[parts[0]] = parts[1];\n        });\n    }\n    return new CompileDirectiveMetadata({\n        isHost:
isHost,\n        type: type,\n        isComponent: !!isComponent, selector: selector, exportAs: exportAs,\n        changeDetection: changeDetection,\n        inputs: inputsMap,\n        outputs: outputsMap,\n        hostListeners: hostListeners,\n        hostProperties: hostProperties,\n        hostAttributes: hostAttributes,\n        providers: providers,\n        viewProviders: viewProviders,\n        queries: queries,\n        guards: guards,\n        viewQueries: viewQueries,\n        entryComponents: entryComponents,\n        template: template,\n        componentViewType: componentViewType,\n        rendererType: rendererType,\n        componentFactory:
componentFactory,\n    });\n};\n\n/**\n * @return {?}\n */\n\nCompileDirectiveMetadata.prototype.toSummary = /**\n * @return {?}\n */\n function () {\n    return {\n        summaryKind: CompileSummaryKind.Directive,\n        type: this.type,\n        isComponent:
this.isComponent,\n        selector: this.selector,\n        exportAs: this.exportAs,\n        inputs: this.inputs,\n        outputs: this.outputs,\n        hostListeners: this.hostListeners,\n        hostProperties: this.hostProperties,\n        hostAttributes: this.hostAttributes,\n        providers: this.providers,\n        viewProviders: this.viewProviders,\n        queries: this.queries,\n        guards: this.guards,\n        viewQueries: this.viewQueries,\n        entryComponents: this.entryComponents,\n        changeDetection: this.changeDetection,\n        template:
this.template && this.template.toSummary(),\n        componentViewType: this.componentViewType,\n        rendererType: this.rendererType,\n        componentFactory: this.componentFactory\n    }; \n};\n    return
CompileDirectiveMetadata;\n})();\n\n/**\n * @record\n */\n\nvar CompilePipeMetadata = /** @class */ (function ()
{\n    function CompilePipeMetadata(_a) {\n        var type = _a.type, name = _a.name, pure = _a.pure;\n        this.type = type;\n        this.name = name;\n        this.pure = !!pure;\n    }\n    /**\n * @return {?}\n */\n\nCompilePipeMetadata.prototype.toSummary = /**\n * @return {?}\n */\n function () {\n    return {\n        summaryKind: CompileSummaryKind.Pipe,\n        type: this.type,\n        name: this.name,\n        pure:
this.pure\n    }; \n};\n    return CompilePipeMetadata;\n})();\n\n/**\n * @record\n */\n\nvar CompileNgModuleMetadata = /** @class */ (function () {\n    function CompileNgModuleMetadata(_a) {\n        var type = _a.type, providers = _a.providers, declaredDirectives =
_a.declaredDirectives, exportedDirectives = _a.exportedDirectives, declaredPipes = _a.declaredPipes, exportedPipes
= _a.exportedPipes, entryComponents = _a.entryComponents, bootstrapComponents = _a.bootstrapComponents,
importedModules = _a.importedModules, exportedModules = _a.exportedModules, schemas = _a.schemas,
transitiveModule = _a.transitiveModule, id = _a.id;\n        this.type = type || null;\n        this.declaredDirectives =
_normalizeArray(declaredDirectives);\n        this.exportedDirectives = _normalizeArray(exportedDirectives);\n        this.declaredPipes = _normalizeArray(declaredPipes);\n        this.exportedPipes =
_normalizeArray(exportedPipes);\n        this.providers = _normalizeArray(providers);\n        this.entryComponents =

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_normalizeArray(entryComponents);\n      this.bootstrapComponents = _normalizeArray(bootstrapComponents);\n      this.importedModules = _normalizeArray(importedModules);\n      this.exportedModules =\n      _normalizeArray(exportedModules);\n      this.schemas = _normalizeArray(schemas);\n      this.id = id || null;\n      this.transitiveModule = transitiveModule || null;\n    }\n    /**\n     * @return {?}\n     */\n    CompileNgModuleMetadata.prototype.toSummary = /**\n     * @return {?}\n     */\n    function () {\n      var /**\n       * @type {?} */ module = /** @type {?} */ ((this.transitiveModule));\n      return {\n        summaryKind:\n        CompileSummaryKind.NgModule,\n        type: this.type,\n        entryComponents: module.entryComponents,\n        providers: module.providers,\n        modules: module.modules,\n        exportedDirectives:\n        module.exportedDirectives,\n        exportedPipes: module.exportedPipes\n      };\n    };\n    return\n    CompileNgModuleMetadata;\n  }();\n  nvar TransitiveCompileNgModuleMetadata = /** @class */ (function () {\n    function TransitiveCompileNgModuleMetadata() {\n      this.directivesSet = new Set();\n      this.directives = [];\n      this.exportedDirectivesSet = new Set();\n      this.exportedDirectives = [];\n      this.pipesSet = new Set();\n      this.pipes = [];\n      this.exportedPipesSet = new Set();\n      this.exportedPipes = [];\n      this.modulesSet = new\n      Set();\n      this.modules = [];\n      this.entryComponentsSet = new Set();\n      this.entryComponents = [];\n      this.providers = [];\n    }\n    /**\n     * @param {?} provider\n     * @param {?} module\n     * @return {?}\n     */\n    TransitiveCompileNgModuleMetadata.prototype.addProvider = /**\n     * @param {?} provider\n     * @param\n     {?} module\n     * @return {?}\n     */\n    function (provider, module) {\n      this.providers.push({ provider:\n      provider, module: module });\n    };\n    /**\n     * @param {?} id\n     * @return {?}\n     */\n    TransitiveCompileNgModuleMetadata.prototype.addDirective = /**\n     * @param {?} id\n     * @return {?}\n     */\n    function (id) {\n      if (!this.directivesSet.has(id.reference)) {\n        this.directivesSet.add(id.reference);\n        this.directives.push(id);\n      }\n    };\n    /**\n     * @param {?} id\n     * @return {?}\n     */\n    TransitiveCompileNgModuleMetadata.prototype.addExportedDirective = /**\n     * @param {?} id\n     * @return\n     {?}\n     */\n    function (id) {\n      if (!this.exportedDirectivesSet.has(id.reference)) {\n        this.exportedDirectivesSet.add(id.reference);\n        this.exportedDirectives.push(id);\n      }\n    };\n    /**\n     * @param {?} id\n     * @return {?}\n     */\n    TransitiveCompileNgModuleMetadata.prototype.addPipe = /**\n     * @param {?} id\n     * @return {?}\n     */\n    function (id) {\n      if (!this.pipesSet.has(id.reference)) {\n        this.pipesSet.add(id.reference);\n        this.pipes.push(id);\n      }\n    };\n    /**\n     * @param {?} id\n     * @return {?}\n     */\n    TransitiveCompileNgModuleMetadata.prototype.addExportedPipe = /**\n     * @param {?} id\n     * @return {?}\n     */\n    function (id) {\n      if (!this.exportedPipesSet.has(id.reference)) {\n        this.exportedPipesSet.add(id.reference);\n        this.exportedPipes.push(id);\n      }\n    };\n    /**\n     * @param\n     {?} id\n     * @return {?}\n     */\n    TransitiveCompileNgModuleMetadata.prototype.addModule = /**\n     * @param\n     {?} id\n     * @return {?}\n     */\n    function (id) {\n      if (!this.modulesSet.has(id.reference)) {\n        this.modulesSet.add(id.reference);\n        this.modules.push(id);\n      }\n    };\n    /**\n     * @param\n     {?} ec\n     * @return {?}\n     */\n    TransitiveCompileNgModuleMetadata.prototype.addEntryComponent = /**\n     * @param\n     {?} ec\n     * @return {?}\n     */\n    function (ec) {\n      if\n      (!this.entryComponentsSet.has(ec.componentType)) {\n        this.entryComponentsSet.add(ec.componentType);\n        this.entryComponents.push(ec);\n      }\n    };\n    return TransitiveCompileNgModuleMetadata;\n  }());\n  /**\n   * @param {?} obj\n   * @return {?}\n   */\n  function _normalizeArray(obj) {\n    return obj || [];\n  }\n  nvar ProviderMeta\n  = /** @class */ (function () {\n    function ProviderMeta(token, _a) {\n      var useClass = _a.useClass, useValue =\n      _a.useValue, useExisting = _a.useExisting, useFactory = _a.useFactory, deps = _a.deps, multi = _a.multi;\n      this.token = token;\n      this.useClass = useClass || null;\n      this.useValue = useValue;\n      this.useExisting =\n      useExisting;\n      this.useFactory = useFactory || null;\n      this.dependencies = deps || null;\n      this.multi =\n      !!multi;\n    }\n    return ProviderMeta;\n  }());\n  /**\n   * @template T\n   * @param {?} list\n   * @return {?}\n   */\n  function flatten(list) {\n    return list.reduce(function (flat, item) {\n      var /** @type {?} */ flatItem =\n      Array.isArray(item) ? flatten(item) : item;\n      return (** @type {?} */ (flat)).concat(flatItem);\n    },\n    []);\n  }\n  /**\n   * @param {?} url\n   * @return {?}\n   */\n  function jitSourceUrl(url) {\n    // Note: We need 3 "\\^" so\n    that ng shows up as a separate domain\n    // in the chrome dev tools.\n    return url.replace(/(\\w+:\\\\|\\w+:\n  ]+)?(\\w+)?/, 'ng://');\n  }\n  /**\n   * @param {?} ngModuleType\n   * @param {?} compMeta\n   * @param {?}

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templateMeta\n * @return {?} \n */\nfunction templateUrl(ngModuleType, compMeta, templateMeta) {\n
var /** @type {?} */ url;\n if (templateMeta.isInline) {\n if (compMeta.type.reference instanceof
StaticSymbol) {\n // Note: a .ts file might contain multiple components with inline templates,\n // so
we need to give them unique urls, as these will be used for sourcemaps.\n url =
compMeta.type.reference.filePath + "." + compMeta.type.reference.name + ".html";\n } else {\n
url = identifierName(ngModuleType) + "." + identifierName(compMeta.type) + ".html";\n } } else
{\n url = /** @type {?} */ ((templateMeta.templateUrl));\n } return compMeta.type.reference instanceof
StaticSymbol ? url : jitSourceUrl(url);\n}\n/** \n * @param {?} meta\n * @param {?} id\n * @return {?} \n
*/\nfunction sharedStylesheetJitUrl(meta, id) {\n var /** @type {?} */ pathParts = /** @type {?} */
((meta.moduleUrl)).split(/\\/\\/g);\n var /** @type {?} */ baseName = pathParts[pathParts.length - 1];\n return
jitSourceUrl("css/" + id + baseName + ".ngstyle.js");\n}\n/** \n * @param {?} moduleMeta\n * @return {?} \n
*/\nfunction ngModuleJitUrl(moduleMeta) {\n return jitSourceUrl(identifierName(moduleMeta.type) +
"/module.ngfactory.js");\n}\n/** \n * @param {?} ngModuleType\n * @param {?} compMeta\n * @return {?} \n
*/\nfunction templateUrl(ngModuleType, compMeta) {\n return jitSourceUrl(identifierName(ngModuleType) +
"." + identifierName(compMeta.type) + ".ngfactory.js");\n}\n\n/** \n * @fileoverview added by tsickle\n *
@suppress {checkTypes} checked by tsc\n */\n\n * @license\n * Copyright Google Inc. All Rights Reserved.\n
*\n * Use of this source code is governed by an MIT-style license that can be\n * found in the LICENSE file at
https://angular.io/license\n */\n\n * A path is an ordered set of elements. Typically a path is to a\n * particular
offset in a source file. The head of the list is the top\n * most node. The tail is the node that contains the offset
directly.\n *\n * For example, the expression `a + b + c` might have an ast that looks\n * like:\n * +\n * / \n * a
+\n * / \n * b c\n *\n * The path to the node at offset 9 would be `[+` at 1-10, `+` at 7-10, `c` at 9-10]` and
the path the node at offset 1 would be `[+` at 1-10, `a` at 1-2]`.\n *\nvar AstPath = /** @class */ (function () {\n
function AstPath(path, position) {\n if (position === void 0) { position = -1; }\n this.path = path;\n
this.position = position;\n }\n Object.defineProperty(AstPath.prototype, "empty", {\n get: /** \n *
@return {?} \n *\n function () { return !this.path || !this.path.length; },\n enumerable: true,\n
configurable: true\n });\n Object.defineProperty(AstPath.prototype, "head", {\n get: /** \n *
@return
{?} \n *\n function () { return this.path[0]; },\n enumerable: true,\n configurable: true\n });\n
Object.defineProperty(AstPath.prototype, "tail", {\n get: /** \n *
@return {?} \n *\n function () {\n
return this.path[this.path.length - 1]; },\n enumerable: true,\n configurable: true\n });\n /** \n *
@param {?} node\n * @return {?} \n *\n AstPath.prototype.parentOf = /** \n * @param {?} node\n *
@return {?} \n *\n function (node) {\n return node && this.path[this.path.indexOf(node) - 1];\n }; \n
/** \n * @param {?} node\n * @return {?} \n *\n AstPath.prototype.childOf = /** \n * @param {?}
node\n * @return {?} \n *\n function (node) {\n return this.path[this.path.indexOf(node) + 1];\n }; \n
/** \n *
@template N\n * @param {?} ctor\n * @return {?} \n *\n AstPath.prototype.first = /** \n * @template
N\n * @param {?} ctor\n * @return {?} \n *\n function (ctor) {\n for (var /** @type {?} */ i =
this.path.length - 1; i >= 0; i--) {\n var /** @type {?} */ item = this.path[i];\n if (item instanceof
ctor)\n return /** @type {?} */ (item);\n } }\n /** \n * @param {?} node\n * @return {?} \n
*/\n AstPath.prototype.push = /** \n * @param {?} node\n * @return {?} \n *\n function (node) {\n
this.path.push(node);\n } \n /** \n * @return {?} \n *\n AstPath.prototype.pop = /** \n * @return {?} \n
*/\n function () {\n return /** @type {?} */ ((this.path.pop()));\n }\n return AstPath;\n});\n\n/** \n *
@fileoverview added by tsickle\n * @suppress {checkTypes} checked by tsc\n */\n\n * @license\n * Copyright
Google Inc. All Rights Reserved.\n *\n * Use of this source code is governed by an MIT-style license that can be\n
* found in the LICENSE file at https://angular.io/license\n */\n\n * @record\n */\n\nvar Text = /** @class */
(function () {\n function Text(value, sourceSpan) {\n this.value = value;\n this.sourceSpan =
sourceSpan;\n }\n /** \n * @param {?} visitor\n * @param {?} context\n * @return {?} \n *\n
Text.prototype.visit = /** \n * @param {?} visitor\n * @param {?} context\n * @return {?} \n *\n
function (visitor, context) {\n return visitor.visitText(this, context);\n }\n return Text;\n});\n\nvar Expansion = /**
@class */ (function () {\n function Expansion(switchValue, type, cases, sourceSpan, switchValueSourceSpan) {\n

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    this.switchValue = switchValue;\n    this.type = type;\n    this.cases = cases;\n    this.sourceSpan =
sourceSpan;\n    this.switchValueSourceSpan = switchValueSourceSpan;\n } \n /**\n  * @param {?}
visitor\n  * @param {?} context\n  * @return {?}\n  */\n Expansion.prototype.visit = /**\n  * @param {?}
visitor\n  * @param {?} context\n  * @return {?}\n  */\n function (visitor, context) { return
visitor.visitExpansion(this, context); }\n return Expansion;\n})();\nvar ExpansionCase = /** @class */ (function
() {\n  function ExpansionCase(value, expression, sourceSpan, valueSourceSpan, expSourceSpan) {\n
this.value = value;\n    this.expression = expression;\n    this.sourceSpan = sourceSpan;\n
this.valueSourceSpan = valueSourceSpan;\n    this.expSourceSpan = expSourceSpan;\n  }\n  /**\n  * @param
{?} visitor\n  * @param {?} context\n  * @return {?}\n  */\n  ExpansionCase.prototype.visit = /**\n  *
@param {?} visitor\n  * @param {?} context\n  * @return {?}\n  */\n  function (visitor, context) { return
visitor.visitExpansionCase(this, context); }\n  return ExpansionCase;\n})();\nvar Attribute$1 = /** @class */
(function () {\n  function Attribute(name, value, sourceSpan, valueSpan) {\n    this.name = name;\n
this.value = value;\n    this.sourceSpan = sourceSpan;\n    this.valueSpan = valueSpan;\n  }\n  /**\n  *
@param {?} visitor\n  * @param {?} context\n  * @return {?}\n  */\n  Attribute.prototype.visit = /**\n  *
@param {?} visitor\n  * @param {?} context\n  * @return {?}\n  */\n  function (visitor, context) { return
visitor.visitAttribute(this, context); }\n  return Attribute;\n})();\nvar Element = /** @class */ (function () {\n
function Element(name, attrs, children, sourceSpan, startSourceSpan, endSourceSpan) {\n  if (startSourceSpan
=== void 0) { startSourceSpan = null; }\n  if (endSourceSpan === void 0) { endSourceSpan = null; }\n
this.name = name;\n    this.attrs = attrs;\n    this.children = children;\n    this.sourceSpan = sourceSpan;\n
this.startSourceSpan = startSourceSpan;\n    this.endSourceSpan = endSourceSpan;\n  }\n  /**\n  * @param
{?} visitor\n  * @param {?} context\n  * @return {?}\n  */\n  Element.prototype.visit = /**\n  * @param
{?} visitor\n  * @param {?} context\n  * @return {?}\n  */\n  function (visitor, context) { return
visitor.visitElement(this, context); }\n  return Element;\n})();\nvar Comment = /** @class */ (function () {\n
function Comment(value, sourceSpan) {\n  this.value = value;\n  this.sourceSpan = sourceSpan;\n }\n
/**\n  * @param {?} visitor\n  * @param {?} context\n  * @return {?}\n  */\n  Comment.prototype.visit =
/**\n  * @param {?} visitor\n  * @param {?} context\n  * @return {?}\n  */\n  function (visitor, context) {\n
return visitor.visitComment(this, context); }\n  return Comment;\n})();\n/**\n * @record\n */\n/**\n * @param
{?} visitor\n * @param {?} nodes\n * @param {=} context\n * @return {?}\n */\n function visitAll(visitor, nodes,
context) {\n  if (context === void 0) { context = null; }\n  var /** @type {?} */ result = [];\n  var /** @type {?}
*/ visit = visitor.visit\n  function (ast) { return ((visitor.visit))(ast, context) || ast.visit(visitor, context); }\n
function (ast) { return ast.visit(visitor, context); }\n  nodes.forEach(function (ast) {\n    var /** @type {?} */
astResult = visit(ast);\n    if (astResult) {\n      result.push(astResult);\n    }\n  });\n  return result;\n }\nvar
RecursiveVisitor = /** @class */ (function () {\n  function RecursiveVisitor() {\n  }\n  /**\n  * @param {?}
ast\n  * @param {?} context\n  * @return {?}\n  */\n  RecursiveVisitor.prototype.visitElement = /**\n  *
@param {?} ast\n  * @param {?} context\n  * @return {?}\n  */\n  function (ast, context) {\n
this.visitChildren(context, function (visit) {\n    visit(ast.attrs);\n    visit(ast.children);\n  });\n  }\n
}\n  /**\n  * @param {?} ast\n  * @param {?} context\n  * @return {?}\n  */\n  RecursiveVisitor.prototype.visitAttribute = /**\n  * @param {?} ast\n  * @param {?} context\n  * @return
{?}\n  */\n  function (ast, context) { }\n  /**\n  * @param {?} ast\n  * @param {?} context\n  * @return
{?}\n  */\n  RecursiveVisitor.prototype.visitText = /**\n  * @param {?} ast\n  * @param {?} context\n  *
@return {?}\n  */\n  function (ast, context) { }\n  /**\n  * @param {?} ast\n  * @param {?} context\n  *
@return {?}\n  */\n  RecursiveVisitor.prototype.visitComment = /**\n  * @param {?} ast\n  * @param {?}
context\n  * @return {?}\n  */\n  function (ast, context) { }\n  /**\n  * @param {?} ast\n  * @param {?}
context\n  * @return {?}\n  */\n  RecursiveVisitor.prototype.visitExpansion = /**\n  * @param {?} ast\n  *
@param {?} context\n  * @return {?}\n  */\n  function (ast, context) {\n    return this.visitChildren(context,
function (visit) { visit(ast.cases); });\n  }\n  }\n  /**\n  * @param {?} ast\n  * @param {?} context\n  *
@return
{?}\n  */\n  RecursiveVisitor.prototype.visitExpansionCase = /**\n  * @param {?} ast\n  * @param {?}
context\n  * @return {?}\n  */\n  function (ast, context) { }\n  /**\n  * @template T\n  * @param {?}

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context\n    * @param {?} cb\n    * @return {?}\n    *^/\n    RecursiveVisitor.prototype.visitChildren = /**\n    * @template T\n    * @param {?} context\n    * @param {?} cb\n    * @return {?}\n    *^/\n    function (context, cb)\n    {\n    var /** @type {?} */ results = [];\n    var /** @type {?} */ t = this;\n    /**\n    * @template T\n    * @param {?} children\n    * @return {?}\n    *^/\n    function visit(children) {\n    if (children)\n    results.push(visitAll(t, children, context));\n    }\n    cb(visit);\n    return [].concat.apply([], results);\n    };\n    return RecursiveVisitor;\n    }());\n    /**\n    * @param {?} ast\n    * @return {?}\n    *^/\n    function spanOf(ast) {\n    var /**\n    * @type {?} */ start = ast.sourceSpan.start.offset;\n    var /** @type {?} */ end = ast.sourceSpan.end.offset;\n    if (ast\n    instanceof Element) {\n    if (ast.endSourceSpan) {\n    end = ast.endSourceSpan.end.offset;\n    }\n    else if (ast.children && ast.children.length) {\n    end = spanOf(ast.children[ast.children.length - 1]).end;\n    }\n    }\n    return { start: start, end: end };\n    }\n    /**\n    * @param {?} nodes\n    * @param {?} position\n    * @return\n    {?}\n    *^/\n    function findNode(nodes, position) {\n    var /** @type {?} */ path = [];\n    var /** @type {?} */ visitor =\n    new /** @class */ (function (_super) {\n    __extends(class_1, _super);\n    function class_1() {\n    return\n    _super !== null && _super.apply(this, arguments) || this;\n    }\n    /**\n    * @param {?} ast\n    *\n    * @param {?} context\n    * @return {?}\n    *^/\n    class_1.prototype.visit = /**\n    * @param {?} ast\n    *\n    * @param {?} context\n    * @return {?}\n    *^/\n    function (ast, context) {\n    var /** @type {?} */\n    span = spanOf(ast);\n    if (span.start <= position && position < span.end) {\n    path.push(ast);\n    }\n    else {\n    // Returning a value here will result in the children being skipped.\n    return\n    true;\n    }\n    };\n    return class_1;\n    })(RecursiveVisitor);\n    visitAll(visitor, nodes);\n    return new\n    AstPath(path, position);\n    }\n    /**\n    * @fileoverview added by tsickle\n    * @suppress {checkTypes} checked by\n    tsc\n    *^/\n    /**\n    * @license\n    * Copyright Google Inc. All Rights Reserved.\n    *^/\n    * Use of this source code is\n    governed by an MIT-style license that can be\n    * found in the LICENSE file at https://angular.io/license\n    *^/\n    /**\n    * @param {?} identifier\n    * @param {?} value\n    * @return {?}\n    *^/\n    function assertArrayOfStrings(identifier,\n    value) {\n    if (value == null) {\n    return;\n    }\n    if (!Array.isArray(value)) {\n    throw new\n    Error("Expected \"" + identifier + "\" to be an array of strings.");\n    }\n    for (var /** @type {?} */ i = 0; i <\n    value.length; i += 1) {\n    if (typeof value[i] !== 'string') {\n    throw new Error("Expected \"" + identifier +\n    "\" to be an array of strings.");\n    }\n    }\n    }\n    }\n    nvar INTERPOLATION_BLACKLIST_REGEXPS = [\n    /^\\s*$/, \n    /<>/, \n    /^{}$/, \n    /&#[a-z]/i, \n    /^\\|\\|/, \n    ];\n    /**\n    * @param {?} identifier\n    * @param {?} value\n    * @return {?}\n    *^/\n    function assertInterpolationSymbols(identifier, value) {\n    if (value != null &&\n    !(Array.isArray(value) && value.length == 2)) {\n    throw new Error("Expected \"" + identifier + "\" to be an\n    array, [start, end].");\n    }\n    else if (value != null) {\n    var /** @type {?} */ start_1 = /** @type {?} */\n    (value[0]);\n    var /** @type {?} */ end_1 = /** @type {?} */ (value[1]);\n    // black list checking\n    INTERPOLATION_BLACKLIST_REGEXPS.forEach(function (regexp) {\n    if (regexp.test(start_1) ||\n    regexp.test(end_1)) {\n    throw new Error("\"[" + start_1 + "\", \"" + end_1 +\n    "\"] contains unusable\n    interpolation symbol.");\n    }\n    });\n    }\n    }\n    }\n    /**\n    * @fileoverview added by tsickle\n    * @suppress\n    {checkTypes} checked by tsc\n    *^/\n    /**\n    * @license\n    * Copyright Google Inc. All Rights Reserved.\n    *^/\n    * Use of\n    this source code is governed by an MIT-style license that can be\n    * found in the LICENSE file at\n    https://angular.io/license\n    *^/\n    nvar InterpolationConfig = /** @class */ (function () {\n    function\n    InterpolationConfig(start, end) {\n    this.start = start;\n    this.end = end;\n    }\n    /**\n    * @param {?} markers\n    * @return {?}\n    *^/\n    InterpolationConfig.fromArray = /**\n    * @param {?} markers\n    *\n    * @return {?}\n    *^/\n    function (markers) {\n    if (!markers) {\n    return\n    DEFAULT_INTERPOLATION_CONFIG;\n    }\n    assertInterpolationSymbols('interpolation', markers);\n    return new InterpolationConfig(markers[0], markers[1]);\n    };\n    return InterpolationConfig;\n    }());\n    nvar\n    DEFAULT_INTERPOLATION_CONFIG = new InterpolationConfig('{' , '}');\n    /**\n    * @fileoverview added by\n    tsickle\n    * @suppress {checkTypes} checked by tsc\n    *^/\n    /**\n    * @license\n    * Copyright Google Inc. All Rights\n    Reserved.\n    *^/\n    * Use of this source code is governed by an MIT-style license that can be\n    * found in the\n    LICENSE file at https://angular.io/license\n    *^/\n    nvar StyleWithImports = /** @class */ (function () {\n    function\n    StyleWithImports(style, styleUrls) {\n    this.style = style;\n    this.styleUrls = styleUrls;\n    }\n    return\n    StyleWithImports;\n    }());\n    /**\n    * @param {?} url\n    * @return {?}\n    *^/\n    function isStyleUrlResolvable(url) {\n    if
  
```


\u00E8',\n 'empty': '\u2205',\n 'emsp': '\u2003',\n 'ensp': '\u2002',\n 'Epsilon': '\u0395',\n 'epsilon': '\u03B5',\n 'equiv': '\u2261',\n 'Eta': '\u0397',\n 'eta': '\u03B7',\n 'ETH': '\u00D0',\n 'eth': '\u00F0',\n 'Euml': '\u00CB',\n 'euml': '\u00EB',\n 'euro': '\u20AC',\n 'exist': '\u2203',\n 'fnof': '\u0192',\n 'forall': '\u2200',\n 'frac12': '\u00BD',\n 'frac14': '\u00BC',\n 'frac34': '\u00BE',\n 'frasl': '\u2044',\n 'Gamma': '\u0393',\n 'gamma': '\u03B3',\n 'ge': '\u2265',\n 'gt': '>',\n 'harr': '\u2194',\n 'hArr': '\u21D4',\n 'hearts': '\u2665',\n 'hellip': '\u2026',\n 'Iacute': '\u00CD',\n 'iacute': '\u00ED',\n 'Icirc': '\u00CE',\n 'icirc': '\u00EE',\n 'iexcl': '\u00A1',\n 'Igrave': '\u00CC',\n 'igrave': '\u00EC',\n 'image': '\u2111',\n 'infin': '\u221E',\n 'int': '\u222B',\n 'Iota': '\u0399',\n 'iota': '\u03B9',\n 'iquest': '\u00BF',\n 'isin': '\u2208',\n 'Iuml': '\u00CF',\n 'iuml': '\u00EF',\n 'Kappa': '\u039A',\n 'kappa': '\u03BA',\n 'Lambda': '\u039B',\n 'lambda': '\u03BB',\n 'lang': '\u27E8',\n 'laquo': '\u00AB',\n 'larr': '\u2190',\n 'lArr': '\u21D0',\n 'lceil': '\u2308',\n 'ldquo': '\u201C',\n 'le': '\u2264',\n 'lfloor': '\u230A',\n 'lowast': '\u2217',\n 'loz': '\u25CA',\n 'lrm': '\u200E',\n 'lsaquo': '\u2039',\n 'lsquo': '\u2018',\n 'lt': '<',\n 'macr': '\u00AF',\n 'mdash': '\u2014',\n 'micro': '\u00B5',\n 'middot': '\u00B7',\n 'minus': '\u2212',\n 'Mu': '\u039C',\n 'mu': '\u03BC',\n 'nabla': '\u2207',\n 'nbsp': '\u00A0',\n 'ndash': '\u2013',\n 'ne': '\u2260',\n 'ni': '\u220B',\n 'not': '\u00AC',\n 'notin': '\u2209',\n 'nsub': '\u2284',\n 'Ntilde': '\u00D1',\n 'ntilde': '\u00F1',\n 'Nu': '\u039D',\n 'nu': '\u03BD',\n 'Oacute': '\u00D3',\n 'oacute': '\u00F3',\n 'Ocirc': '\u00D4',\n 'ocirc': '\u00F4',\n 'OElig': '\u0152',\n 'oelig': '\u0153',\n 'Ograve': '\u00D2',\n 'ograve': '\u00F2',\n 'oline': '\u203E',\n 'Omega': '\u03A9',\n 'omega': '\u03C9',\n 'Omicron': '\u039F',\n 'omicron': '\u03BF',\n 'oplus': '\u2295',\n 'or': '\u2228',\n 'ordf': '\u00AA',\n 'ordm': '\u00BA',\n 'Oslash': '\u00D8',\n 'oslash': '\u00F8',\n 'Otilde': '\u00D5',\n 'otilde': '\u00F5',\n 'otimes': '\u2297',\n 'Ouml': '\u00D6',\n 'ouml': '\u00F6',\n 'para': '\u00B6',\n 'permil': '\u2030',\n 'perp': '\u22A5',\n 'Phi': '\u03A6',\n 'phi': '\u03C6',\n 'Pi': '\u03A0',\n 'pi': '\u03C0',\n 'piv': '\u03D6',\n 'plusmn': '\u00B1',\n 'pound': '\u00A3',\n 'prime': '\u2032',\n 'Prime': '\u2033',\n 'prod': '\u220F',\n 'prop': '\u221D',\n 'Psi': '\u03A8',\n 'psi': '\u03C8',\n 'quot': '\u0022',\n 'radic': '\u221A',\n 'rang': '\u27E9',\n 'raquo': '\u00BB',\n 'rarr': '\u2192',\n 'rArr': '\u21D2',\n 'rceil': '\u2309',\n 'rdquo': '\u201D',\n 'real': '\u211C',\n 'reg': '\u00AE',\n 'rfloor': '\u230B',\n 'Rho': '\u03A1',\n 'rho': '\u03C1',\n 'rlm': '\u200F',\n 'rsaquo': '\u203A',\n 'rsquo': '\u2019',\n 'sbquo': '\u201A',\n 'Scaron': '\u0160',\n 'scaron': '\u0161',\n 'sdot': '\u22C5',\n 'sect': '\u00A7',\n 'shy': '\u00AD',\n 'Sigma': '\u03A3',\n 'sigma': '\u03C3',\n 'sigmaf': '\u03C2',\n 'sim': '\u223C',\n 'spades': '\u2660',\n 'sub': '\u2282',\n 'sube': '\u2286',\n 'sum': '\u2211',\n 'sup': '\u2283',\n 'sup1': '\u00B9',\n 'sup2': '\u00B2',\n 'sup3': '\u00B3',\n 'supe': '\u2287',\n 'szlig': '\u00DF',\n 'Tau': '\u03A4',\n 'tau': '\u03C4',\n 'there4': '\u2234',\n 'Theta': '\u0398',\n 'theta': '\u03B8',\n 'thetasym': '\u03D1',\n 'thinsp': '\u2009',\n 'THORN': '\u00DE',\n 'thorn': '\u00FE',\n 'tilde': '\u02DC',\n 'times': '\u00D7',\n 'trade': '\u2122',\n 'Uacute': '\u00DA',\n 'uacute': '\u00FA',\n 'uarr': '\u2191',\n 'uArr': '\u21D1',\n 'Ucirc': '\u00DB',\n 'ucirc': '\u00FB',\n 'Ugrave': '\u00D9',\n 'ugrave': '\u00F9',\n 'uml': '\u00A8',\n 'upsih': '\u03D2',\n 'Upsilon': '\u03A5',\n 'upsilon': '\u03C5',\n 'Uuml': '\u00DC',\n 'uuml': '\u00FC',\n 'weierp': '\u2118',\n 'Xi': '\u039E',\n 'xi': '\u03BE',\n 'Yacute': '\u00DD',\n 'yacute': '\u00FD',\n 'yen': '\u00A5',\n 'yuml': '\u00FF',\n 'Yuml': '\u0178',\n 'Zeta': '\u0396',\n 'zeta': '\u03B6',\n 'zwj': '\u200D',\n 'zwnj': '\u200C',\n};\n// The pseudo-entity is denoting a space. see:\n// https://github.com/dart-lang/angular/blob/0bb611387d29d65b5af7f9d2515ab571fd3fbef4/_tests/test/compiler/preserve_whitespace_test.dart\n\nvar NGSP_UNICODE = '\uE500';\nvar NAMED_ENTITIES[ngsp] = NGSP_UNICODE;\n\n/**\n * @fileoverview\n * added by tsickle\n * @suppress {checkTypes} checked by tsc\n */\n\n * @license\n * Copyright Google Inc. All Rights Reserved.\n * Use of this source code is governed by an MIT-style license that can be\n * found in the LICENSE file at https://angular.io/license\n */\n\nvar NG_CONTENT_SELECT_ATTR = 'select';\nvar LINK_ELEMENT = 'link';\nvar LINK_STYLE_REL_ATTR = 'rel';\nvar LINK_STYLE_HREF_ATTR = 'href';\nvar LINK_STYLE_REL_VALUE = 'stylesheet';\nvar STYLE_ELEMENT = 'style';\nvar SCRIPT_ELEMENT = 'script';\nvar NG_NON_BINDABLE_ATTR = 'ngNonBindable';\nvar NG_PROJECT_AS = 'ngProjectAs';\n\n/**\n * @param {?} ast\n * @return {?}\n */\nfunction preparseElement(ast) {\n var /** @type {?} */ selectAttr = /** @type {?} */ ((null));\n var /** @type {?} */ hrefAttr = /** @type {?} */ ((null));\n var

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/** @type {?} */ relAttr = /** @type {?} */ ((null));\n  var /** @type {?} */ nonBindable = false;\n  var /**
@type {?} */ projectAs = /** @type {?} */ ((null));\n  ast.attrs.forEach(function (attr) {\n    var /** @type {?}
*/ lcAttrName = attr.name.toLowerCase();\n    if (lcAttrName == NG_CONTENT_SELECT_ATTR) {\n
selectAttr = attr.value;\n    }\n    else if (lcAttrName == LINK_STYLE_HREF_ATTR) {\n      hrefAttr =
attr.value;\n    }\n    else if (lcAttrName == LINK_STYLE_REL_ATTR) {\n      relAttr = attr.value;\n
}\n    else if (attr.name == NG_NON_BINDABLE_ATTR) {\n      nonBindable = true;\n    }\n    else if
(attr.name == NG_PROJECT_AS) {\n      if (attr.value.length > 0) {\n        projectAs = attr.value;\n
}\n    }\n  });\n  selectAttr = normalizeNgContentSelect(selectAttr);\n  var /** @type {?} */ nodeName =
ast.name.toLowerCase();\n  var /** @type {?} */ type = PreparedElementType.OTHER;\n  if
(isNgContent(nodeName)) {\n    type = PreparedElementType.NG_CONTENT;\n  }\n  else if (nodeName ==
STYLE_ELEMENT) {\n    type = PreparedElementType.STYLE;\n  }\n  else if (nodeName ==
SCRIPT_ELEMENT) {\n    type = PreparedElementType.SCRIPT;\n  }\n  else if (nodeName ==
LINK_ELEMENT && relAttr == LINK_STYLE_REL_VALUE) {\n    type =
PreparedElementType.STYLESHEET;\n  }\n  return new PreparedElement(type, selectAttr, hrefAttr,
nonBindable, projectAs);\n}\n\n/** @enum {number} */\nvar PreparedElementType = {\n  NG_CONTENT: 0,\n
STYLE: 1,\n  STYLESHEET: 2,\n  SCRIPT: 3,\n  OTHER:
4,\n};\n\nPreparedElementType[PreparedElementType.NG_CONTENT] =
'NG_CONTENT';\n\nPreparedElementType[PreparedElementType.STYLE] =
'STYLE';\n\nPreparedElementType[PreparedElementType.STYLESHEET] =
'STYLESHEET';\n\nPreparedElementType[PreparedElementType.SCRIPT] =
'SCRIPT';\n\nPreparedElementType[PreparedElementType.OTHER] = 'OTHER';\n\nvar PreparedElement = /**
@class */ (function () {\n  function PreparedElement(type, selectAttr, hrefAttr, nonBindable, projectAs) {\n
this.type = type;\n    this.selectAttr = selectAttr;\n    this.hrefAttr = hrefAttr;\n    this.nonBindable =
nonBindable;\n    this.projectAs = projectAs;\n  }\n  return PreparedElement;\n})();\n\n/**\n * @param {?}
selectAttr\n * @return {?} */\n * \nfunction normalizeNgContentSelect(selectAttr) {\n  if (selectAttr === null ||
selectAttr.length === 0) {\n    return '*';\n  }\n  return selectAttr;\n}\n\n/**\n * @fileoverview added by
tsickle\n * @suppress {checkTypes} checked by tsc\n * \n\n * @license\n * Copyright Google Inc. All Rights
Reserved.\n * \n * Use of this source code is governed by an MIT-style license that can be\n * found in the
LICENSE file at https://angular.io/license\n * \n\n * @record\n * \n\nvar DirectiveNormalizer = /** @class */
(function () {\n  function DirectiveNormalizer(_resourceLoader, _urlResolver, _htmlParser, _config) {\n
this._resourceLoader = _resourceLoader;\n    this._urlResolver = _urlResolver;\n    this._htmlParser =
_htmlParser;\n    this._config = _config;\n    this._resourceLoaderCache = new Map();\n  }\n  /**\n
 * @return {?} */\n  * \n  DirectiveNormalizer.prototype.clearCache = /**\n  * @return {?} */\n  * \n  function () {\n
this._resourceLoaderCache.clear();\n  }\n  /**\n  * @param {?} normalizedDirective\n  * @return {?} */\n  * \n
  DirectiveNormalizer.prototype.clearCacheFor = /**\n  * @param {?} normalizedDirective\n  * @return {?} */\n
  * \n  function (normalizedDirective) {\n    var _this = this;\n    if (!normalizedDirective.isComponent) {\n
return;\n    }\n    var /** @type {?} */ template = /** @type {?} */ ((normalizedDirective.template));\n
this._resourceLoaderCache.delete(/** @type {?} */ ((template.templateUrl));\n
template.externalStylesheets.forEach(function (stylesheet) { _this._resourceLoaderCache.delete(/** @type {?} */
((stylesheet.moduleUrl));\n  });\n  });\n  /**\n  * @param {?} url\n  * @return {?} */\n  * \n
  DirectiveNormalizer.prototype._fetch = /**\n  * @param {?} url\n  * @return {?} */\n  * \n  function (url) {\n
var /** @type {?} */ result = this._resourceLoaderCache.get(url);\n    if (!result) {\n      result =
this._resourceLoader.get(url);\n      this._resourceLoaderCache.set(url, result);\n    }\n    return result;\n
};\n  /**\n  * @param {?} prenormData\n  * @return {?} */\n  * \n
  DirectiveNormalizer.prototype.normalizeTemplate = /**\n  * @param {?} prenormData\n  * @return {?} */\n
  * \n  function (prenormData) {\n    var _this = this;\n    if (isDefined(prenormData.template)) {\n      if
(isDefined(prenormData.templateUrl)) {\n        throw syntaxError("'" +
stringify(prenormData.componentType) + "' component cannot define both template and templateUrl");\n

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}\n      if (typeof prenormData.template !== 'string') {\n          throw syntaxError("The template specified for
component \" + stringify(prenormData.componentType) + \" is not a string");\n      }\n      }\n      else if
(isDefined(prenormData.templateUrl)) {\n          if (typeof prenormData.templateUrl !== 'string') {\n
throw syntaxError("The templateUrl specified for component \" + stringify(prenormData.componentType) + \" is
not a string");\n          }\n      }\n      else {\n          throw syntaxError("No template specified for component \"
+ stringify(prenormData.componentType));\n      }\n      if (isDefined(prenormData.preserveWhitespaces) &&\n
      typeof prenormData.preserveWhitespaces !== 'boolean') {\n          throw syntaxError("The
preserveWhitespaces option for component \" + stringify(prenormData.componentType) + \" must be a boolean");\n
      }\n      return SyncAsync.then(this._preParseTemplate(prenormData), function (parsedTemplate) { return
_this._normalizeTemplateMetadata(prenormData, parsedTemplate); });\n    });\n    /**\n     * @param {?}
prenormData\n     * @return {?}\n     */\n    DirectiveNormalizer.prototype._preParseTemplate = /**\n     * @param
{?} prenormData\n     * @return {?}\n     */\n     function (prenormData) {\n     var _this = this;\n     var /** @type
{?} */ template;\n     var /** @type {?} */ templateUrl;\n     if (prenormData.template != null) {\n     template
= prenormData.template;\n     templateUrl = prenormData.moduleUrl;\n     }\n     else {\n     templateUrl
= this._urlResolver.resolve(prenormData.moduleUrl, /** @type {?} */ ((prenormData.templateUrl)));\n
template = this._fetch(templateUrl);\n     }\n     return SyncAsync.then(template, function (template) { return
_this._preparseLoadedTemplate(prenormData, template, templateUrl); });\n    });\n    /**\n     * @param {?}
prenormData\n     * @param {?} template\n     * @param {?} templateAbsUrl\n     * @return {?}\n     */\n
DirectiveNormalizer.prototype._preparseLoadedTemplate = /**\n     * @param {?} prenormData\n     * @param
{?} template\n     * @param {?} templateAbsUrl\n     * @return {?}\n     */\n     function (prenormData, template,
templateAbsUrl) {\n     var /** @type {?} */ isInline = !!prenormData.template;\n     var /** @type {?} */
interpolationConfig = InterpolationConfig.fromArray(/** @type {?} */ ((prenormData.interpolation)));\n     var
/** @type {?} */ rootNodesAndErrors = this._htmlParser.parse(template, templateUrl({ reference:
prenormData.ngModuleType }, { type: { reference: prenormData.componentType } }, { isInline: isInline,
templateUrl: templateAbsUrl }), true, interpolationConfig);\n     if (rootNodesAndErrors.errors.length > 0) {\n
var /** @type {?} */ errorString = rootNodesAndErrors.errors.join("\\n");\n     throw syntaxError("Template
parse errors:\\n" + errorString);\n     }\n     var /** @type {?} */ templateMetadataStyles =
this._normalizeStylesheet(new CompileStylesheetMetadata({ styles: prenormData.styles, moduleUrl:
prenormData.moduleUrl }));\n     var /** @type {?} */ visitor = new TemplatePreparseVisitor();\n
visitAll(visitor, rootNodesAndErrors.rootNodes);\n     var /** @type {?} */ templateStyles =
this._normalizeStylesheet(new CompileStylesheetMetadata({ styles: visitor.styles, styleUrls: visitor.styleUrls,
moduleUrl: templateAbsUrl }));\n     var /** @type {?} */ styles =
templateMetadataStyles.styles.concat(templateStyles.styles);\n     var /** @type {?} */ inlineStyleUrls =
templateMetadataStyles.styleUrls.concat(templateStyles.styleUrls);\n     var /** @type {?} */ styleUrls = this\n
._normalizeStylesheet(new CompileStylesheetMetadata({ styleUrls: prenormData.styleUrls, moduleUrl:
prenormData.moduleUrl })).styleUrls;\n     return {\n     template: template,\n     templateUrl:
templateAbsUrl, isInline: isInline,\n     htmlAst: rootNodesAndErrors, styles: styles, inlineStyleUrls:
inlineStyleUrls, styleUrls: styleUrls,\n     ngContentSelectors: visitor.ngContentSelectors,\n     });\n    });\n
/**\n     * @param {?} prenormData\n     * @param {?} preparedTemplate\n     * @return {?}\n     */\n
DirectiveNormalizer.prototype._normalizeTemplateMetadata = /**\n     * @param {?} prenormData\n     * @param
{?} preparedTemplate\n     * @return {?}\n     */\n     function (prenormData, preparedTemplate) {\n     var _this
= this;\n     return
SyncAsync.then(this._loadMissingExternalStylesheets(preparedTemplate.styleUrls.concat(preparedTemplate.inlin
eStyleUrls)), function (externalStylesheets) {\n     return
_this._normalizeLoadedTemplateMetadata(prenormData, preparedTemplate, externalStylesheets);\n     });\n    });\n
/**\n     * @param {?} prenormData\n     * @param {?} preparedTemplate\n     * @param {?} stylesheets\n
     * @return {?}\n     */\n     function (prenormData, preparedTemplate, externalStylesheets) {\n     return
_this._normalizeLoadedTemplateMetadata(prenormData, preparedTemplate, externalStylesheets);\n     }\n    });\n
/**\n     * @param {?} prenormData\n     * @param {?} preparedTemplate\n     * @param {?} stylesheets\n
     * @return {?}\n     */\n     function (prenormData, preparedTemplate, externalStylesheets) {\n     return
_this._normalizeLoadedTemplateMetadata(prenormData, preparedTemplate, externalStylesheets);\n     }\n    });\n

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function (prenormData, preparedTemplate, stylesheets) {\n    var _this = this;\n    // Algorithm:\n    // -  
produce exactly 1 entry per original styleUrl in\n    // CompileTemplateMetadata.externalStylesheets with all  
styles inlined\n    // - inline all styles that are referenced by the template into CompileTemplateMetadata.styles.\n    // Reason: be able to determine how many stylesheets there are even without loading\n    // the template nor the  
stylesheets, so we can create a stub for TypeScript always synchronously\n    // (as resource loading may be  
async)\n    var /** @type {?} */ styles = preparedTemplate.styles.slice();\n    this._inlineStyles(preparedTemplate.inlineStyleUrls, stylesheets, styles);\n    var /** @type {?} */ styleUrls =  
preparedTemplate.styleUrls;\n    var /** @type {?} */ externalStylesheets = styleUrls.map(function (styleUrl)  
{\n        var /** @type {?} */ stylesheet = /** @type {?} */ ((stylesheets.get(styleUrl)));\n        var /** @type  
{?} */ styles = stylesheet.styles.slice();\n        _this._inlineStyles(stylesheet.styleUrls, stylesheets, styles);\n    });\n    return new CompileStylesheetMetadata({ moduleUrl: styleUrl, styles: styles });\n    });\n    var /** @type {?} */  
*/ encapsulation = prenormData.encapsulation;\n    if (encapsulation == null) {\n        encapsulation =  
this._config.defaultEncapsulation;\n    }\n    if (encapsulation === ViewEncapsulation.Emulated &&  
styles.length === 0 &&\n        styleUrls.length === 0) {\n        encapsulation = ViewEncapsulation.None;\n    }\n    return new CompileTemplateMetadata({\n        encapsulation: encapsulation,\n        template:  
preparedTemplate.template,\n        templateUrl: preparedTemplate.templateUrl,\n        htmlAst:  
preparedTemplate.htmlAst, styles: styles, styleUrls: styleUrls,\n        ngContentSelectors:  
preparedTemplate.ngContentSelectors,\n        animations: prenormData.animations,\n        interpolation:  
prenormData.interpolation,\n        isInline: preparedTemplate.isInline, externalStylesheets: externalStylesheets,\n        preserveWhitespaces: preserveWhitespacesDefault(prenormData.preserveWhitespaces,  
this._config.preserveWhitespaces),\n    });\n    /**\n     * @param {?} styleUrls\n     * @param {?} stylesheets\n     * @param {?} targetStyles\n     * @return {?}\n     */\n    DirectiveNormalizer.prototype._inlineStyles = /**\n     * @param {?} styleUrls\n     * @param {?} stylesheets\n     * @param {?} targetStyles\n     * @return {?}\n     */ function (styleUrls, stylesheets, targetStyles) {\n        var  
_this = this;\n        styleUrls.forEach(function (styleUrl) {\n            var /** @type {?} */ stylesheet = /** @type {?} */  
*/ ((stylesheets.get(styleUrl)));\n            stylesheet.styles.forEach(function (style) { return targetStyles.push(style);  
});\n            _this._inlineStyles(stylesheet.styleUrls, stylesheets, targetStyles);\n        });\n    });\n    /**\n     * @param  
{?} styleUrls\n     * @param {=} loadedStylesheets\n     * @return {?}\n     */\n    DirectiveNormalizer.prototype._loadMissingExternalStylesheets = /**\n     * @param {?} styleUrls\n     * @param  
{=} loadedStylesheets\n     * @return {?}\n     */ function (styleUrls, loadedStylesheets) {\n        var _this =  
this;\n        if (loadedStylesheets === void 0) { loadedStylesheets = new Map(); }\n        return  
SyncAsync.then(SyncAsync.all(styleUrls.filter(function (styleUrl) { return !loadedStylesheets.has(styleUrl); })))\n        .map(function (styleUrl) {\n            return SyncAsync.then(_this._fetch(styleUrl), function (loadedStyle) {\n                var /** @type {?} */ stylesheet = _this._normalizeStylesheet(new CompileStylesheetMetadata({ styles:  
[loadedStyle], moduleUrl: styleUrl }));\n                loadedStylesheets.set(styleUrl, stylesheet);\n                return  
_this._loadMissingExternalStylesheets(stylesheet.styleUrls, loadedStylesheets);\n            });\n        })), function (_) {\n            return loadedStylesheets;\n        });\n    });\n    /**\n     * @param {?} stylesheet\n     * @return {?}\n     */\n    DirectiveNormalizer.prototype._normalizeStylesheet = /**\n     * @param {?} stylesheet\n     * @return {?}\n     */\n     */ function (stylesheet) {\n        var _this = this;\n        var /** @type {?} */ moduleUrl = /** @type {?} */  
*/ ((stylesheet.moduleUrl));\n        var /** @type {?} */ allStyleUrls =  
stylesheet.styleUrls.filter(isStyleUrlResolvable)\n        .map(function (url) { return  
_this._urlResolver.resolve(moduleUrl, url); });\n        var /** @type {?} */ allStyles = stylesheet.styles.map(function  
(style) {\n            var /** @type {?} */ styleWithImports = extractStyleUrls(_this._urlResolver, moduleUrl, style);\n            allStyleUrls.push.apply(allStyleUrls, styleWithImports.styleUrls);\n            return styleWithImports.style;\n        });\n        return new CompileStylesheetMetadata({ styles: allStyles, styleUrls: allStyleUrls, moduleUrl: moduleUrl  
});\n    });\n    return DirectiveNormalizer;\n    });\n    var TemplatePreprepareVisitor = /** @class */ (function () {\n        function TemplatePreprepareVisitor() {\n            this.ngContentSelectors = [];\n            this.styles = [];\n            this.styleUrls  
= [];\n            this.ngNonBindableStackCount = 0;\n        }\n        /**\n         * @param {?} ast\n         * @param {?} context\n
```

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* @return {?} \n * \n TemplatePreparseVisitor.prototype.visitElement = /** \n * @param {?} ast \n *
* @param {?} context \n * @return {?} \n * \n function (ast, context) { \n var /** @type {?} */
preparsedElement = preparseElement(ast); \n switch (preparsedElement.type) { \n case
PreparsedElementType.NG_CONTENT: \n if (this.ngNonBindableStackCount === 0) { \n
this.ngContentSelectors.push(preparsedElement.selectAttr); \n } \n break; \n case
PreparsedElementType.STYLE: \n var /** @type {?} */ textContent_1 = ""; \n
ast.children.forEach(function (child) { \n if (child instanceof Text) { \n textContent_1 +=
child.value; \n } \n }); \n this.styles.push(textContent_1); \n break; \n
case PreparsedElementType.STYLESHEET: \n this.styleUrls.push(preparsedElement.hrefAttr); \n
break; \n default: \n break; \n } \n if (preparsedElement.nonBindable) { \n
this.ngNonBindableStackCount++; \n } \n visitAll(this, ast.children); \n if
(preparsedElement.nonBindable) { \n this.ngNonBindableStackCount--; \n } \n return null; \n }; \n
/** \n * @param {?} ast \n * @param {?} context \n * @return {?} \n * \n
TemplatePreparseVisitor.prototype.visitExpansion = /** \n * @param {?} ast \n * @param {?} context \n *
* @return {?} \n * \n function (ast, context) { visitAll(this, ast.cases); }; \n /** \n * @param {?} ast \n *
* @param {?} context \n * @return {?} \n * \n TemplatePreparseVisitor.prototype.visitExpansionCase = /** \n
* @param {?} ast \n * @param {?} context \n * @return {?} \n * \n function (ast, context) { \n
visitAll(this, ast.expression); \n }; \n /** \n * @param {?} ast \n * @param {?} context \n * @return {?} \n
* \n TemplatePreparseVisitor.prototype.visitComment = /** \n * @param {?} ast \n * @param {?} context \n
* @return {?} \n * \n function (ast, context) { return null; }; \n /** \n * @param {?} ast \n * @param {?}
context \n * @return {?} \n * \n TemplatePreparseVisitor.prototype.visitAttribute = /** \n * @param {?}
ast \n * @param {?} context \n * @return {?} \n * \n function (ast, context) { return null; }; \n /** \n *
* @param {?} ast \n * @param {?} context \n * @return {?} \n * \n
TemplatePreparseVisitor.prototype.visitText = /** \n * @param {?} ast \n * @param {?} context \n * @return
{?} \n * \n function (ast, context) { return null; }; \n return TemplatePreparseVisitor; \n }(); \n \n /** \n *
* @fileoverview added by tsickle \n * @suppress {checkTypes} checked by tsc \n * \n /** \n * @license \n * Copyright
Google Inc. All Rights Reserved. \n * \n * Use of this source code is governed by an MIT-style license that can be \n *
found in the LICENSE file at https://angular.io/license \n * \n var QUERY_METADATA_IDENTIFIERS = [ \n
createViewChild, \n createViewChildren, \n createContentChild, \n createContentChildren, \n ]; \n var
DirectiveResolver = /** @class */ (function () { \n function DirectiveResolver(_reflector) { \n this._reflector =
_reflector; \n } \n /** \n * @param {?} type \n * @return {?} \n * \n
DirectiveResolver.prototype.isDirective = /** \n * @param {?} type \n * @return {?} \n * \n function (type)
{ \n var /** @type {?} */ typeMetadata = this._reflector.annotations(resolveForwardRef(type)); \n return
typeMetadata && typeMetadata.some(isDirectiveMetadata); \n }; \n /** \n * @param {?} type \n * @param
{?=} throwIfNotFound \n * @return {?} \n * \n DirectiveResolver.prototype.resolve = /** \n * @param {?}
type \n * @param {?=} throwIfNotFound \n * @return {?} \n * \n function (type, throwIfNotFound) { \n
if (throwIfNotFound === void 0) { throwIfNotFound = true; } \n var /** @type {?} */ typeMetadata =
this._reflector.annotations(resolveForwardRef(type)); \n if (typeMetadata) { \n var /** @type {?} */
metadata = findLast(typeMetadata, isDirectiveMetadata); \n if (metadata) { \n var /** @type {?} */
propertyMetadata = this._reflector.propMetadata(type); \n var /** @type {?} */ guards =
this._reflector.guards(type); \n return this._mergeWithPropertyMetadata(metadata, propertyMetadata,
guards, type); \n } \n } \n if (throwIfNotFound) { \n throw new Error("No Directive annotation
found on " + stringify(type)); \n } \n return null; \n }; \n /** \n * @param {?} dm \n * @param {?}
propertyMetadata \n * @param {?} guards \n * @param {?} directiveType \n * @return {?} \n * \n
DirectiveResolver.prototype._mergeWithPropertyMetadata = /** \n * @param {?} dm \n * @param {?}
propertyMetadata \n * @param {?} guards \n * @param {?} directiveType \n * @return {?} \n * \n
function (dm, propertyMetadata, guards, directiveType) { \n var /** @type {?} */ inputs = []; \n var /**
* @type {?} */ outputs = []; \n var /** @type {?} */ host = {}; \n var /** @type {?} */ queries = {}; \n

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Object.keys(propertyMetadata).forEach(function (propName) {\n      var /** @type {?} */ input =
findLast(propertyMetadata[propName], function (a) { return createInput.isTypeOf(a); });\n      if (input) {\n
  if (input.bindingPropertyName) {\n        inputs.push(propName + \"\": \"\" + input.bindingPropertyName);\n
      }\n      else {\n        inputs.push(propName);\n      }\n      }\n      var /** @type
 {?} */ output = findLast(propertyMetadata[propName], function (a) { return createOutput.isTypeOf(a); });\n
if (output) {\n      if (output.bindingPropertyName) {\n        outputs.push(propName + \"\": \"\" +
output.bindingPropertyName);\n      }\n      else {\n        outputs.push(propName);\n      }\n
      }\n      var /** @type {?} */ hostBindings = propertyMetadata[propName].filter(function (a) { return
createHostBinding.isTypeOf(a); });\n      hostBindings.forEach(function (hostBinding) {\n        if
(hostBinding.hostPropertyName) {\n          var /** @type {?} */ startWith =
hostBinding.hostPropertyName[0];\n          if (startWith === '(') {\n            throw new
Error(\"@HostBinding can not bind to events. Use @HostListener instead.\");\n          }\n          else if
(startWith === '[') {\n            throw new Error(\"@HostBinding parameter should be a property name,
'class.<name>', or 'attr.<name>.\");\n          }\n          host[\"[\" + hostBinding.hostPropertyName + \"]\"]
= propName;\n        }\n        else {\n          host[\"[\" + propName + \"]\"] = propName;\n
        }\n      });\n      var /** @type {?} */ hostListeners = propertyMetadata[propName].filter(function (a) { return
createHostListener.isTypeOf(a); });\n      hostListeners.forEach(function (hostListener) {\n        var /**
@type {?} */ args = hostListener.args || [];\n        host[\"(\" + hostListener.eventName + \")\"] = propName +
\"(\" + args.join(',') + \")\";\n      });\n      var /** @type {?} */ query =
findLast(propertyMetadata[propName], function (a) { return QUERY_METADATA_IDENTIFIERS.some(function
(i) { return i.isTypeOf(a); }); });\n      if (query) {\n        queries[propName] = query;\n      }\n
      });\n      return this._merge(dm, inputs, outputs, host, queries, guards, directiveType);\n    };\n    /**\n     * @param {?}
def\n     * @return {?} */\n     * ^\n     DirectiveResolver.prototype._extractPublicName = /**\n     * @param {?} def\n
     * @return {?} */\n     * ^\n     function (def) { return splitAtColon(def, [/** @type {?} */ ((null)), def)][1].trim(); };
\n     /**\n     * @param {?} bindings\n     * @return {?} */\n     * ^\n     DirectiveResolver.prototype._dedupeBindings =
/**\n     * @param {?} bindings\n     * @return {?} */\n     * ^\n     function (bindings) {\n       var /** @type {?} */
names = new Set();\n       var /** @type {?} */ publicNames = new Set();\n       var /** @type {?} */
reversedResult = [];\n       // go last to first to allow later entries to overwrite previous entries\n       for (var /**
@type {?} */ i = bindings.length - 1; i >= 0; i--) {\n         var /** @type {?} */ binding = bindings[i];\n         var
/** @type {?} */ name_1 = this._extractPublicName(binding);\n         publicNames.add(name_1);\n         if
(!names.has(name_1)) {\n           names.add(name_1);\n           reversedResult.push(binding);\n         }\n
       }\n       return reversedResult.reverse();\n     };\n     /**\n     * @param {?} directive\n     * @param {?} inputs\n
     * @param {?} outputs\n     * @param {?} host\n     * @param {?} queries\n     * @param {?} guards\n     * @param
 {?} directiveType\n     * @return {?} */\n     * ^\n     DirectiveResolver.prototype._merge = /**\n     * @param {?}
directive\n     * @param {?} inputs\n     * @param {?} outputs\n     * @param {?} host\n     * @param {?} queries\n
     * @param {?} guards\n     * @param {?} directiveType\n     * @return {?} */\n     * ^\n     function (directive, inputs,
outputs, host, queries, guards, directiveType) {\n       var /** @type {?} */ mergedInputs =
this._dedupeBindings(directive.inputs ? directive.inputs.concat(inputs) : inputs);\n       var /** @type {?} */
mergedOutputs = this._dedupeBindings(directive.outputs ? directive.outputs.concat(outputs) : outputs);\n       var
/** @type {?} */ mergedHost = directive.host ? __assign({}, directive.host, host) : host;\n       var /** @type {?} */
mergedQueries = directive.queries ? __assign({}, directive.queries, queries) : queries;\n       if
(createComponent.isTypeOf(directive)) {\n         var /** @type {?} */ comp = /** @type {?} */ (directive);\n
         return createComponent({\n           selector: comp.selector,\n           inputs: mergedInputs,\n           outputs:
mergedOutputs,\n           host: mergedHost,\n           exportAs: comp.exportAs,\n           moduleId:
comp.moduleId,\n           queries: mergedQueries,\n           changeDetection: comp.changeDetection,\n
           providers: comp.providers,\n           viewProviders: comp.viewProviders,\n           entryComponents:
comp.entryComponents,\n           template: comp.template,\n           templateUrl: comp.templateUrl,\n
           styles: comp.styles,\n           styleUrls: comp.styleUrls,\n           encapsulation: comp.encapsulation,\n

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animations: comp.animations,\n          interpolation: comp.interpolation,\n          preserveWhitespaces:
directive.preserveWhitespaces,\n          });\n          }\n          else {\n          return createDirective({\n
selector: directive.selector,\n          inputs: mergedInputs,\n          outputs: mergedOutputs,\n          host:
mergedHost,\n          exportAs: directive.exportAs,\n          queries: mergedQueries,\n          providers:
directive.providers, guards: guards\n          });\n          }\n          });\n          return DirectiveResolver;\n          });\n          /**\n          * @param
{?}\n          type\n          * @return {?}\n          */\n          function isDirectiveMetadata(type) {\n          return createDirective.isTypeOf(type) ||
createComponent.isTypeOf(type);\n          }\n          /**\n          * @template T\n          * @param {?}\n          arr\n          * @param {?}\n          condition\n          *
@return {?}\n          */\n          function findLast(arr, condition) {\n          for (var /** @type {?} */ i = arr.length - 1; i >= 0; i--) {\n
          if (condition(arr[i])) {\n          return arr[i];\n          }\n          }\n          return null;\n          }\n          /**\n          * @fileoverview added by
tsickle\n          * @suppress {checkTypes} checked by tsc\n          */\n          /**\n          * @license\n          * Copyright Google Inc. All Rights
Reserved.\n          * Use of this source code is governed by an MIT-style license that can be\n          * found in the
LICENSE file at https://angular.io/license\n          */\n          $EOF = 0;\n          $TAB = 9;\n          $LF = 10;\n          $VTAB =
11;\n          $FF = 12;\n          $CR = 13;\n          $SPACE = 32;\n          $BANG = 33;\n          $DQ = 34;\n          $HASH = 35;\n          $ =
36;\n          $PERCENT = 37;\n          $AMPERSAND = 38;\n          $SQ = 39;\n          $LPAREN = 40;\n          $RPAREN
= 41;\n          $STAR = 42;\n          $PLUS = 43;\n          $COMMA = 44;\n          $MINUS = 45;\n          $PERIOD = 46;\n          $SLASH = 47;\n          $COLON
= 58;\n          $SEMICOLON = 59;\n          $LT = 60;\n          $EQ = 61;\n          $GT =
62;\n          $QUESTION = 63;\n          $0 = 48;\n          $9 = 57;\n          $A = 65;\n          $E = 69;\n          $F = 70;\n          $X =
88;\n          $Z = 90;\n          $LBRACKET = 91;\n          $BACKSLASH = 92;\n          $RBRACKET = 93;\n          $CARET =
94;\n          $_ = 95;\n          $a = 97;\n          $e = 101;\n          $f = 102;\n          $n = 110;\n          $r = 114;\n          $t = 116;\n          $u =
117;\n          $v = 118;\n          $x = 120;\n          $z = 122;\n          $LBRACE = 123;\n          $BAR = 124;\n          $RBRACE =
125;\n          $NBSP = 160;\n          /**\n          * @param {?}\n          code\n          * @return {?}\n          */\n          function
isWhitespace(code) {\n          return (code >= $TAB && code <= $SPACE) || (code == $NBSP);\n          }\n          /**\n          * @param
{?}\n          code\n          * @return {?}\n          */\n          function isDigit(code) {\n          return $0 <= code && code <= $9;\n          }\n          /**\n          * @param
{?}\n          code\n          * @return {?}\n          */\n          function isAsciiLetter(code) {\n          return code >= $a && code <= $z || code >= $A
&& code <= $Z;\n          }\n          /**\n          * @param {?}\n          code\n          * @return {?}\n          */\n          function isAsciiHexDigit(code) {\n
          return code >= $a && code <= $f || code >= $A && code <= $F || isDigit(code);\n          }\n          /**\n          * @fileoverview added by
tsickle\n          * @suppress {checkTypes} checked by tsc\n          */\n          /**\n          * @license\n          * Copyright Google Inc. All Rights
Reserved.\n          * Use of this source code is governed by an MIT-style license that can be\n          * found in the
LICENSE file at https://angular.io/license\n          */\n          /**\n          * @enum {number}\n          */\n          TokenType = {\n          Character: 0,\n
Identifier: 1,\n          Keyword: 2,\n          String: 3,\n          Operator: 4,\n          Number: 5,\n          Error:
6,\n          };\n          TokenType[TokenType.Character] = "Character";\n          TokenType[TokenType.Identifier] =
"Identifier";\n          TokenType[TokenType.Keyword] = "Keyword";\n          TokenType[TokenType.String] =
"String";\n          TokenType[TokenType.Operator] = "Operator";\n          TokenType[TokenType.Number] =
"Number";\n          TokenType[TokenType.Error] = "Error";\n          var KEYWORDS = ['var', 'let', 'as', 'null', 'undefined',
'true', 'false', 'if', 'else', 'this'];\n          var Lexer = /** @class */ (function () {\n          function Lexer() {\n          }\n          /**\n          *
@param {?}\n          text\n          * @return {?}\n          */\n          Lexer.prototype.tokenize = /**\n          * @param {?}\n          text\n          *
@return {?}\n          */\n          function (text) {\n          var /** @type {?} */ scanner = new _Scanner(text);\n          var /**
@type {?} */ tokens = [];\n          var /** @type {?} */ token = scanner.scanToken();\n          while (token != null) {\n
          tokens.push(token);\n          token = scanner.scanToken();\n          }\n          return tokens;\n          };\n          return
Lexer;\n          }());\n          var Token = /** @class */ (function () {\n          function Token(index, type, numValue, strValue) {\n
          this.index = index;\n          this.type = type;\n          this.numValue = numValue;\n          this.strValue = strValue;\n          }\n          /**\n          *
@param {?}\n          code\n          * @return {?}\n          */\n          Token.prototype.isCharacter = /**\n          * @param {?}\n          code\n          *
@return {?}\n          */\n          function (code) {\n          return this.type == TokenType.Character &&
this.numValue == code;\n          };\n          /**\n          * @return {?}\n          */\n          Token.prototype.isNumber = /**\n          *
@return {?}\n          */\n          function () {\n          return this.type == TokenType.Number;\n          };\n          /**\n          * @return {?}\n          */\n          Token.prototype.isString = /**\n          *
@return {?}\n          */\n          function () {\n          return this.type == TokenType.String;\n          };\n          /**\n          * @param {?}\n          operater\n          * @return {?}\n          */\n          Token.prototype.isOperator = /**\n          *
@param {?}\n          operater\n          * @return {?}\n          */\n          function (operater) {\n          return this.type ==

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TokenType.Operator && this.strValue == operator;\n }; \n /**\n * @return {?}\n *\n
Token.prototype.isIdentifier = /**\n * @return {?}\n *\n function () { return this.type ==
TokenType.Identifier; }; \n /**\n * @return {?}\n *\n Token.prototype.isKeyword = /**\n * @return
{?}\n *\n function () { return this.type == TokenType.Keyword; }; \n /**\n * @return {?}\n *\n
Token.prototype.isKeywordLet = /**\n * @return {?}\n *\n function () { return this.type ==
TokenType.Keyword && this.strValue == 'let'; }; \n /**\n * @return {?}\n *\n
Token.prototype.isKeywordAs = /**\n * @return {?}\n *\n function () { return this.type ==
TokenType.Keyword && this.strValue == 'as'; }; \n /**\n * @return {?}\n *\n
Token.prototype.isKeywordNull = /**\n * @return {?}\n *\n function () { return this.type ==
TokenType.Keyword && this.strValue == 'null'; }; \n /**\n * @return {?}\n *\n
Token.prototype.isKeywordUndefined = /**\n * @return {?}\n *\n function () {\n return this.type ==
TokenType.Keyword && this.strValue == 'undefined'; \n }; \n /**\n * @return {?}\n *\n
Token.prototype.isKeywordTrue = /**\n * @return {?}\n *\n function () { return this.type ==
TokenType.Keyword && this.strValue == 'true'; }; \n /**\n * @return {?}\n *\n
Token.prototype.isKeywordFalse = /**\n * @return {?}\n *\n function () { return this.type ==
TokenType.Keyword && this.strValue == 'false'; }; \n /**\n * @return {?}\n *\n
Token.prototype.isKeywordThis = /**\n * @return {?}\n *\n function () { return this.type ==
TokenType.Keyword && this.strValue == 'this'; }; \n /**\n * @return {?}\n *\n Token.prototype.isError =
/**\n * @return {?}\n *\n function () { return this.type == TokenType.Error; }; \n /**\n * @return {?}\n
*\n Token.prototype.toNumber = /**\n * @return {?}\n *\n function () { return this.type ==
TokenType.Number ? this.numValue : -1; }; \n /**\n * @return {?}\n *\n Token.prototype.toString = /**\n
* @return {?}\n *\n function () {\n switch (this.type) {\n case TokenType.Character:\n case
TokenType.Identifier:\n case TokenType.Keyword:\n case TokenType.Operator:\n case
TokenType.String:\n case TokenType.Error:\n return this.strValue;\n case
TokenType.Number:\n return this.numValue.toString();\n default:\n return null;\n }\n
}; \n return Token;\n})(); \n /**\n * @param {?} index\n * @param {?} code\n * @return {?}\n *\n function
newCharacterToken(index, code) {\n return new Token(index, TokenType.Character, code,
String.fromCharCode(code)); \n } \n /**\n * @param {?} index\n * @param {?} text\n * @return {?}\n *\n function
newIdentifierToken(index, text) {\n return new Token(index, TokenType.Identifier, 0, text); \n } \n /**\n * @param
{?} index\n * @param {?} text\n * @return {?}\n *\n function newKeywordToken(index, text) {\n return new
Token(index, TokenType.Keyword, 0, text); \n } \n /**\n * @param {?} index\n * @param {?} text\n * @return {?}\n
*\n function newOperatorToken(index, text) {\n return new Token(index, TokenType.Operator, 0, text); \n } \n /**\n
* @param {?} index\n * @param {?} text\n * @return {?}\n *\n function newStringToken(index, text) {\n return
new Token(index, TokenType.String, 0, text); \n } \n /**\n * @param {?} index\n * @param {?} n\n * @return {?}\n
*\n function newNumberToken(index, n) {\n return new Token(index, TokenType.Number, n, "); \n } \n /**\n *
@param {?} index\n * @param {?} message\n * @return {?}\n *\n function newErrorToken(index, message) {\n
return new Token(index, TokenType.Error, 0, message); \n } \n var EOF = new Token(-1, TokenType.Character, 0,
"); \n var _Scanner = /** @class */ (function () {\n function _Scanner(input) {\n this.input = input;\n
this.peek = 0;\n this.index = -1;\n this.length = input.length;\n this.advance(); \n } \n /**\n *
@return {?}\n *\n _Scanner.prototype.advance = /**\n * @return {?}\n *\n function () {\n
this.peek = ++this.index >= this.length ? $EOF : this.input.charCodeAt(this.index); \n }; \n /**\n * @return
{?}\n *\n _Scanner.prototype.scanToken = /**\n * @return {?}\n *\n function () {\n var /** @type
{?} */ input = this.input, /** @type {?} */ length = this.length;\n var /** @type {?} */ peek = this.peek, /**
@type {?} */ index = this.index;\n // Skip whitespace.\n while (peek <= $SPACE) {\n if (++index
>= length) {\n peek = $EOF;\n break;\n } \n else {\n peek =
input.charCodeAt(index);\n } \n } \n this.peek = peek;\n this.index = index;\n if (index >=
length) {\n return null;\n } \n // Handle identifiers and numbers.\n if (isIdentifierStart(peek))\n
return this.scanIdentifier(); \n if (isDigit(peek))\n return this.scanNumber(index); \n var /** @type

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{?} */ start = index;\n    switch (peek) {\n        case $PERIOD:\n            this.advance();\n            return\nisDigit(this.peek) ? this.scanNumber(start) : \n                newCharacterToken(start, $PERIOD);\n            case\n$LPAREN:\n        case $RPAREN:\n        case $LBRACE:\n        case $RBRACE:\n        case\n$LBACKET:\n        case $RBACKET:\n        case $COMMA:\n        case $COLON:\n        case\n$SEMICOLON:\n            return this.scanCharacter(start, peek);\n        case $$SQ:\n        case $$DQ:\n            return this.scanString();\n        case $HASH:\n        case $PLUS:\n        case $MINUS:\n        case\n$STAR:\n        case $$SLASH:\n        case $PERCENT:\n        case $CARET:\n            return\nthis.scanOperator(start, String.fromCharCode(peek));\n        case $QUESTION:\n            return\nthis.scanComplexOperator(start, '?', $PERIOD, '.');\n        case $LT:\n        case $GT:\n            return\nthis.scanComplexOperator(start, String.fromCharCode(peek), $EQ, '=');\n        case $BANG:\n        case\n$EQ:\n            return this.scanComplexOperator(start, String.fromCharCode(peek), $EQ, '=', $EQ, '=');\n        case $AMPERSAND:\n            return this.scanComplexOperator(start, '&', $AMPERSAND, '&');\n        case\n$BAR:\n            return this.scanComplexOperator(start, '|', $BAR, '|');\n        case $NBSB:\n            while\n(isWhitespace(this.peek))\n                this.advance();\n            return this.scanToken();\n        }\nthis.advance();\n    return this.error("Unexpected character [" + String.fromCharCode(peek) + "]", 0);\n    }\n\n/**\n * @param {?} start\n * @param {?} code\n * @return {?} \n */\n_Scanner.prototype.scanCharacter = /**\n * @param {?} start\n * @param {?} code\n * @return {?} \n */\nfunction (start, code) {\n    this.advance();\n    return newCharacterToken(start, code);\n};\n\n/**\n * @param {?} start\n * @param {?} str\n * @return {?} \n */\n_Scanner.prototype.scanOperator = /**\n * @param {?} start\n * @param {?} str\n * @return {?} \n */\nfunction (start, str) {\n    this.advance();\n    return newOperatorToken(start, str);\n};\n\n/**\n * Tokenize a 2/3 char long operator\n *\n * @param start start index in the expression\n * @param one first symbol (always part of the operator)\n * @param twoCode code point for the second symbol\n * @param two second symbol (part of the operator when\nthe second code point matches)\n * @param threeCode code point for the third symbol\n * @param three third\nsymbol (part of the operator when provided and matches source expression)\n */\n/**\n * Tokenize a 2/3\nchar long operator\n *\n * @param {?} start start index in the expression\n * @param {?} one first symbol\n(always part of the operator)\n * @param {?} twoCode code point for the second symbol\n * @param {?} two\nsecond symbol (part of the operator when the second code point matches)\n * @param {=} threeCode code point\nfor the third symbol\n * @param {=} three third symbol (part of the operator when provided and matches source\nexpression)\n * @return {?} \n */\n_Scanner.prototype.scanComplexOperator = /**\n * Tokenize a 2/3\nchar long operator\n *\n * @param {?} start start index in the expression\n * @param {?} one first symbol\n(always part of the operator)\n * @param {?} twoCode code point for the second symbol\n * @param {?} two\nsecond symbol (part of the operator when the second code point matches)\n * @param {=} threeCode code point\nfor the third symbol\n * @param {=} three third symbol (part of the operator when provided and matches source\nexpression)\n * @return {?} \n */\nfunction (start, one, twoCode, two, threeCode, three) {\n    this.advance();\n    var /** @type {?} */ str = one;\n    if (this.peek == twoCode) {\n        this.advance();\n        str += two;\n    }\n    if (threeCode != null && this.peek == threeCode) {\n        this.advance();\n        str += three;\n    }\n    return newOperatorToken(start, str);\n};\n\n/**\n * @return {?} \n */\n_Scanner.prototype.scanIdentifier = /**\n * @return {?} \n */\nfunction () {\n    var /** @type {?} */ start\n= this.index;\n    this.advance();\n    while (isIdentifierPart(this.peek))\n        this.advance();\n    var /**\n * @type {?} */ str = this.input.substring(start, this.index);\n    return KEYWORDS.indexOf(str) > -1 ?\nnewKeywordToken(start, str) :\n    newIdentifierToken(start, str);\n};\n\n/**\n * @param {?} start\n * @return {?} \n */\n_Scanner.prototype.scanNumber = /**\n * @param {?} start\n * @return {?} \n */\nfunction (start) {\n    var /** @type {?} */ simple = (this.index === start);\n    this.advance();\n    // Skip initial\n    digit.\n    while (true) {\n        if (isDigit(this.peek)) {\n            // Do nothing.\n        }\n        else if\n        (this.peek == $PERIOD) {\n            simple = false;\n        }\n        else if (isExponentStart(this.peek)) {\n            this.advance();\n            if (isExponentSign(this.peek))\n                this.advance();\n            if\n            (!isDigit(this.peek))\n                return this.error('Invalid exponent', -1);\n            simple = false;\n        }\n    }\n}

```



```

= /**\n * @param {?} visitor\n * @param {?=} context\n * @return {?}\n */\n function (visitor,
context) {\n if (context === void 0) { context = null; }\n return null;\n };\n /**\n * @return {?}\n */\n AST.prototype.toString = /**\n * @return {?}\n */\n function () { return 'AST'; };\n return
AST;\n});\n/**\n * Represents a quoted expression of the form:\n * quote = prefix ` `
uninterpretedExpression\n * prefix = identifier\n * uninterpretedExpression = arbitrary string\n * A quoted
expression is meant to be pre-processed by an AST transformer that\n * converts it into another AST that no longer
contains quoted expressions.\n * It is meant to allow third-party developers to extend Angular template\n *
expression language. The `uninterpretedExpression` part of the quote is\n * therefore not interpreted by the
Angular's own expression parser.\n */\nvar Quote = /** @class */ (function (_super) {\n __extends(Quote,
_super);\n function Quote(span, prefix, uninterpretedExpression, location) {\n var _this = _super.call(this,
span) || this;\n _this.prefix = prefix;\n _this.uninterpretedExpression = uninterpretedExpression;\n
_this.location = location;\n return _this;\n } \n /**\n * @param {?} visitor\n * @param {?=} context\n
* @return {?}\n */\n Quote.prototype.visit = /**\n * @param {?} visitor\n * @param {?=} context\n
* @return {?}\n */\n function (visitor, context) {\n if (context === void 0) { context = null; }\n return
visitor.visitQuote(this, context);\n };\n /**\n * @return {?}\n */\n Quote.prototype.toString = /**\n *
@return {?}\n */\n function () { return 'Quote'; };\n return Quote;\n})(AST));\nvar EmptyExpr = /** @class */
(function (_super) {\n __extends(EmptyExpr, _super);\n function EmptyExpr() {\n return _super !== null
&& _super.apply(this, arguments) || this;\n } \n /**\n * @param {?} visitor\n * @param {?=} context\n
* @return {?}\n */\n EmptyExpr.prototype.visit = /**\n * @param {?} visitor\n * @param {?=} context\n
* @return {?}\n */\n function (visitor, context) {\n if (context === void 0) { context = null; }\n // do
nothing\n };\n return EmptyExpr;\n})(AST));\nvar ImplicitReceiver = /** @class */ (function (_super) {\n
__extends(ImplicitReceiver, _super);\n function ImplicitReceiver() {\n return _super !== null &&
_super.apply(this, arguments) || this;\n } \n /**\n * @param {?} visitor\n * @param {?=} context\n
* @return {?}\n */\n ImplicitReceiver.prototype.visit = /**\n * @param {?} visitor\n * @param {?=}
context\n * @return {?}\n */\n function (visitor, context) {\n if (context === void 0) { context = null; }\n
return visitor.visitImplicitReceiver(this, context);\n };\n return ImplicitReceiver;\n})(AST));\n/**\n * Multiple
expressions separated by a semicolon.\n */\nvar Chain = /** @class */ (function (_super) {\n __extends(Chain,
_super);\n function Chain(span, expressions) {\n var _this = _super.call(this, span) || this;\n
_this.expressions = expressions;\n return _this;\n } \n /**\n * @param {?} visitor\n * @param {?=}
context\n * @return {?}\n */\n Chain.prototype.visit = /**\n * @param {?} visitor\n * @param {?=}
context\n * @return {?}\n */\n function (visitor, context) {\n if (context === void 0) { context = null; }\n
return visitor.visitChain(this, context);\n };\n return Chain;\n})(AST));\nvar Conditional = /** @class */
(function (_super) {\n __extends(Conditional, _super);\n function Conditional(span, condition, trueExp,
falseExp) {\n var _this = _super.call(this, span) || this;\n _this.condition = condition;\n _this.trueExp =
trueExp;\n _this.falseExp = falseExp;\n return _this;\n } \n /**\n * @param {?} visitor\n * @param
{?=} context\n * @return {?}\n */\n Conditional.prototype.visit = /**\n * @param {?} visitor\n *
@param {?=} context\n * @return {?}\n */\n function (visitor, context) {\n if (context === void 0) {
context = null; }\n return visitor.visitConditional(this, context);\n };\n return Conditional;\n})(AST));\nvar
PropertyRead = /** @class */ (function (_super) {\n __extends(PropertyRead, _super);\n function
PropertyRead(span, receiver, name) {\n var _this = _super.call(this, span) || this;\n _this.receiver =
receiver;\n _this.name = name;\n return _this;\n } \n /**\n * @param {?} visitor\n * @param {?=}
context\n * @return {?}\n */\n PropertyRead.prototype.visit = /**\n * @param {?} visitor\n * @param
{?=} context\n * @return {?}\n */\n function (visitor, context) {\n if (context === void 0) { context =
null; }\n return visitor.visitPropertyRead(this, context);\n };\n return PropertyRead;\n})(AST));\nvar
PropertyWrite = /** @class */ (function (_super) {\n __extends(PropertyWrite, _super);\n function
PropertyWrite(span, receiver, name, value) {\n var _this = _super.call(this, span) || this;\n _this.receiver =
receiver;\n _this.name = name;\n _this.value = value;\n return _this;\n } \n /**\n * @param {?}
visitor\n * @param {?=} context\n * @return {?}\n */\n PropertyWrite.prototype.visit = /**\n *

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@param {?} visitor\n * @param {?=} context\n * @return {?}\n */\n function (visitor, context) {\n if
(context === void 0) { context = null; }\n return visitor.visitPropertyWrite(this, context);\n };\n return
PropertyWrite;\n}(AST));\nvar SafePropertyRead = /** @class */ (function (_super) {\n
__extends(SafePropertyRead, _super);\n function SafePropertyRead(span, receiver, name) {\n var _this =
_super.call(this, span) || this;\n _this.receiver = receiver;\n _this.name = name;\n return _this;\n }\n
/**\n * @param {?} visitor\n * @param {?=} context\n * @return {?}\n */\n
SafePropertyRead.prototype.visit = /**\n * @param {?} visitor\n * @param {?=} context\n * @return {?}\n
*/\n function (visitor, context) {\n if (context === void 0) { context = null; }\n return
visitor.visitSafePropertyRead(this, context);\n };\n return SafePropertyRead;\n}(AST));\nvar KeyedRead = /**
@class */ (function (_super) {\n __extends(KeyedRead, _super);\n function KeyedRead(span, obj, key) {\n
var _this = _super.call(this, span) || this;\n _this.obj = obj;\n _this.key = key;\n return _this;\n }\n
/**\n * @param {?} visitor\n * @param {?=} context\n * @return {?}\n */\n
KeyedRead.prototype.visit = /**\n * @param {?} visitor\n * @param {?=} context\n * @return {?}\n */\n
function (visitor, context) {\n if (context === void 0) { context = null; }\n return
visitor.visitKeyedRead(this, context);\n };\n return KeyedRead;\n}(AST));\nvar KeyedWrite = /** @class */ (function (_super) {\n
__extends(KeyedWrite, _super);\n function KeyedWrite(span, obj, key, value) {\n var _this = _super.call(this,
span) || this;\n _this.obj = obj;\n _this.key = key;\n _this.value = value;\n return _this;\n }\n
/**\n * @param {?} visitor\n * @param {?=} context\n * @return {?}\n */\n
KeyedWrite.prototype.visit = /**\n * @param {?} visitor\n * @param {?=} context\n * @return {?}\n */\n
function (visitor, context) {\n if (context === void 0) { context = null; }\n return
visitor.visitKeyedWrite(this, context);\n };\n return KeyedWrite;\n}(AST));\nvar BindingPipe = /** @class */
(function (_super) {\n __extends(BindingPipe, _super);\n function BindingPipe(span, exp, name, args) {\n
var _this = _super.call(this, span) || this;\n _this.exp = exp;\n _this.name = name;\n _this.args = args;\n
return _this;\n }\n /**\n * @param {?} visitor\n * @param {?=} context\n * @return {?}\n */\n
BindingPipe.prototype.visit = /**\n * @param {?} visitor\n * @param {?=} context\n * @return {?}\n */\n
function (visitor, context) {\n if (context === void 0) { context = null; }\n return
visitor.visitPipe(this, context);\n };\n return BindingPipe;\n}(AST));\nvar LiteralPrimitive = /** @class */
(function (_super) {\n __extends(LiteralPrimitive, _super);\n function LiteralPrimitive(span, value) {\n var
_this = _super.call(this, span) || this;\n _this.value = value;\n return _this;\n }\n /**\n * @param {?}
visitor\n * @param {?=} context\n * @return {?}\n */\n
LiteralPrimitive.prototype.visit = /**\n * @param {?} visitor\n * @param {?=} context\n * @return {?}\n */\n
function (visitor, context) {\n if (context === void 0) { context = null; }\n return
visitor.visitLiteralPrimitive(this, context);\n };\n return
LiteralPrimitive;\n}(AST));\nvar LiteralArray = /** @class */ (function (_super) {\n __extends(LiteralArray,
_super);\n function LiteralArray(span, expressions) {\n var _this = _super.call(this, span) || this;\n
_this.expressions = expressions;\n return _this;\n }\n /**\n * @param {?} visitor\n * @param {?=}
context\n * @return {?}\n */\n
LiteralArray.prototype.visit = /**\n * @param {?} visitor\n * @param {?=} context\n * @return {?}\n */\n
function (visitor, context) {\n if (context === void 0) { context =
null; }\n return visitor.visitLiteralArray(this, context);\n };\n return LiteralArray;\n}(AST));\nvar LiteralMap
= /** @class */ (function (_super) {\n __extends(LiteralMap, _super);\n function LiteralMap(span, keys, values)
{\n var _this = _super.call(this, span) || this;\n _this.keys = keys;\n _this.values = values;\n return
_this;\n }\n /**\n * @param {?} visitor\n * @param {?=} context\n * @return {?}\n */\n
LiteralMap.prototype.visit = /**\n * @param {?} visitor\n * @param {?=} context\n * @return {?}\n */\n
function (visitor, context) {\n if (context === void 0) { context = null; }\n return
visitor.visitLiteralMap(this, context);\n };\n return LiteralMap;\n}(AST));\nvar Interpolation = /** @class */
(function (_super) {\n __extends(Interpolation, _super);\n function Interpolation(span, strings, expressions) {\n
var _this = _super.call(this, span) || this;\n _this.strings = strings;\n _this.expressions = expressions;\n
return _this;\n }\n /**\n * @param {?} visitor\n * @param {?=} context\n * @return {?}\n */\n
Interpolation.prototype.visit = /**\n * @param {?} visitor\n * @param {?=} context\n * @return {?}\n

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*\n function (visitor, context) {\n    if (context === void 0) { context = null; }\n    return
visitor.visitInterpolation(this, context);\n }; \n return Interpolation;\n}(AST));\nvar Binary = /** @class */
(function (_super) {\n    __extends(Binary, _super);\n    function Binary(span, operation, left, right) {\n        var _this
= _super.call(this, span) || this;\n        _this.operation = operation;\n        _this.left = left;\n        _this.right = right;\n        return _this;\n    }\n    /**\n     * @param {?} visitor\n     * @param {?=} context\n     * @return {?}\n     */\n    Binary.prototype.visit = /**\n     * @param {?} visitor\n     * @param {?=} context\n     * @return {?}\n     */\n    function (visitor, context) {\n        if (context === void 0) { context = null; }\n        return visitor.visitBinary(this,
context);\n    }; \n return Binary;\n}(AST));\nvar PrefixNot = /** @class */ (function (_super) {\n
__extends(PrefixNot, _super);\n    function PrefixNot(span, expression) {\n        var _this = _super.call(this, span) ||
this;\n        _this.expression = expression;\n        return _this;\n    }\n    /**\n     * @param {?} visitor\n     * @param
{?=} context\n     * @return {?}\n     */\n    PrefixNot.prototype.visit = /**\n     * @param {?} visitor\n     * @param
{?=} context\n     * @return {?}\n     */\n    function (visitor, context) {\n        if (context === void 0) { context =
null; }\n        return visitor.visitPrefixNot(this, context);\n    }; \n return PrefixNot;\n}(AST));\nvar NonNullAssert
= /** @class */ (function (_super) {\n    __extends(NonNullAssert, _super);\n    function NonNullAssert(span,
expression) {\n        var _this = _super.call(this, span) || this;\n        _this.expression = expression;\n        return
_this;\n    }\n    /**\n     * @param {?} visitor\n     * @param {?=} context\n     * @return {?}\n     */\n    NonNullAssert.prototype.visit = /**\n     * @param {?} visitor\n     * @param {?=} context\n     * @return {?}\n     */\n    function (visitor, context) {\n        if (context === void 0) { context =
null; }\n        return
visitor.visitNonNullAssert(this, context);\n    }; \n return NonNullAssert;\n}(AST));\nvar MethodCall = /** @class
*/ (function (_super) {\n    __extends(MethodCall, _super);\n    function MethodCall(span, receiver, name, args) {\n
        var _this = _super.call(this, span) || this;\n        _this.receiver = receiver;\n        _this.name = name;\n
        _this.args = args;\n        return _this;\n    }\n    /**\n     * @param {?} visitor\n     * @param {?=} context\n     *
@return {?}\n     */\n    MethodCall.prototype.visit = /**\n     * @param {?} visitor\n     * @param {?=} context\n
     * @return {?}\n     */\n    function (visitor, context) {\n        if (context === void 0) { context = null; }\n        return
visitor.visitMethodCall(this, context);\n    }; \n return MethodCall;\n}(AST));\nvar SafeMethodCall = /** @class
*/ (function (_super) {\n    __extends(SafeMethodCall, _super);\n    function SafeMethodCall(span, receiver, name,
args) {\n        var _this = _super.call(this, span) || this;\n        _this.receiver = receiver;\n        _this.name = name;\n
        _this.args = args;\n        return _this;\n    }\n    /**\n     * @param {?} visitor\n     * @param {?=} context\n     *
@return {?}\n     */\n    SafeMethodCall.prototype.visit = /**\n     * @param {?} visitor\n     * @param {?=}
context\n     * @return {?}\n     */\n    function (visitor, context) {\n        if (context === void 0) { context = null; }\n
        return
visitor.visitSafeMethodCall(this, context);\n    }; \n return SafeMethodCall;\n}(AST));\nvar FunctionCall
= /** @class */ (function (_super) {\n    __extends(FunctionCall, _super);\n    function FunctionCall(span, target,
args) {\n        var _this = _super.call(this, span) || this;\n        _this.target = target;\n        _this.args = args;\n
        return _this;\n    }\n    /**\n     * @param {?} visitor\n     * @param {?=} context\n     * @return {?}\n     */\n
    FunctionCall.prototype.visit = /**\n     * @param {?} visitor\n     * @param {?=} context\n     * @return {?}\n     */\n
    function (visitor, context) {\n        if (context === void 0) { context = null; }\n        return
visitor.visitFunctionCall(this, context);\n    }; \n return FunctionCall;\n}(AST));\nvar ASTWithSource = /**
@class */ (function (_super) {\n    __extends(ASTWithSource, _super);\n    function ASTWithSource(ast, source,
location, errors) {\n        var _this = _super.call(this, new ParseSpan(0, source === null ? 0 : source.length)) || this;\n
        _this.ast = ast;\n        _this.source = source;\n        _this.location = location;\n        _this.errors = errors;\n
        return _this;\n    }\n    /**\n     * @param {?} visitor\n     * @param {?=} context\n     * @return {?}\n     */\n
    ASTWithSource.prototype.visit = /**\n     * @param {?} visitor\n     * @param {?=} context\n     * @return {?}\n     */\n
    function (visitor, context) {\n        if (context === void 0) { context = null; }\n        return this.ast.visit(visitor,
context);\n    }; \n /**\n     * @return {?}\n     */\n    ASTWithSource.prototype.toString = /**\n     * @return {?}\n     */\n
    function () { return this.source + \" in \" + this.location; }; \n return ASTWithSource;\n}(AST));\nvar
TemplateBinding = /** @class */ (function () {\n    function TemplateBinding(span, key, keyIsVar, name,
expression) {\n        this.span = span;\n        this.key = key;\n        this.keyIsVar = keyIsVar;\n        this.name =
name;\n        this.expression = expression;\n    }\n    return TemplateBinding;\n}());\n/**\n * @record\n */\nvar

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```

NullAstVisitor = /** @class */ (function () {
  function NullAstVisitor() {}
  /**
   * @param {?} ast
   * @param {?} context
   * @return {?}
   */
  NullAstVisitor.prototype.visitBinary = /**
   * @param {?} ast
   * @param {?} context
   * @return {?}
   */
  function (ast, context) {}
  /**
   * @param {?} ast
   * @param {?} context
   * @return {?}
   */
  NullAstVisitor.prototype.visitChain = /**
   * @param {?} ast
   * @param {?} context
   * @return {?}
   */
  function (ast, context) {}
  /**
   * @param {?} ast
   * @param {?} context
   * @return {?}
   */
  NullAstVisitor.prototype.visitConditional = /**
   * @param {?} ast
   * @param {?} context
   * @return {?}
   */
  function (ast, context) {}
  /**
   * @param {?} ast
   * @param {?} context
   * @return {?}
   */
  NullAstVisitor.prototype.visitFunctionCall = /**
   * @param {?} ast
   * @param {?} context
   * @return {?}
   */
  function (ast, context) {}
  /**
   * @param {?} ast
   * @param {?} context
   * @return {?}
   */
  NullAstVisitor.prototype.visitImplicitReceiver = /**
   * @param {?} ast
   * @param {?} context
   * @return {?}
   */
  function (ast, context) {}
  /**
   * @param {?} ast
   * @param {?} context
   * @return {?}
   */
  NullAstVisitor.prototype.visitInterpolation = /**
   * @param {?} ast
   * @param {?} context
   * @return {?}
   */
  function (ast, context) {}
  /**
   * @param {?} ast
   * @param {?} context
   * @return {?}
   */
  NullAstVisitor.prototype.visitKeyedRead = /**
   * @param {?} ast
   * @param {?} context
   * @return {?}
   */
  function (ast, context) {}
  /**
   * @param {?} ast
   * @param {?} context
   * @return {?}
   */
  NullAstVisitor.prototype.visitKeyedWrite = /**
   * @param {?} ast
   * @param {?} context
   * @return {?}
   */
  function (ast, context) {}
  /**
   * @param {?} ast
   * @param {?} context
   * @return {?}
   */
  NullAstVisitor.prototype.visitLiteralArray = /**
   * @param {?} ast
   * @param {?} context
   * @return {?}
   */
  function (ast, context) {}
  /**
   * @param {?} ast
   * @param {?} context
   * @return {?}
   */
  NullAstVisitor.prototype.visitLiteralMap = /**
   * @param {?} ast
   * @param {?} context
   * @return {?}
   */
  function (ast, context) {}
  /**
   * @param {?} ast
   * @param {?} context
   * @return {?}
   */
  NullAstVisitor.prototype.visitLiteralPrimitive = /**
   * @param {?} ast
   * @param {?} context
   * @return {?}
   */
  function (ast, context) {}
  /**
   * @param {?} ast
   * @param {?} context
   * @return {?}
   */
  NullAstVisitor.prototype.visitMethodCall = /**
   * @param {?} ast
   * @param {?} context
   * @return {?}
   */
  function (ast, context) {}
  /**
   * @param {?} ast
   * @param {?} context
   * @return {?}
   */
  NullAstVisitor.prototype.visitPipe = /**
   * @param {?} ast
   * @param {?} context
   * @return {?}
   */
  function (ast, context) {}
  /**
   * @param {?} ast
   * @param {?} context
   * @return {?}
   */
  NullAstVisitor.prototype.visitPrefixNot = /**
   * @param {?} ast
   * @param {?} context
   * @return {?}
   */
  function (ast, context) {}
  /**
   * @param {?} ast
   * @param {?} context
   * @return {?}
   */
  NullAstVisitor.prototype.visitNonNullAssert = /**
   * @param {?} ast
   * @param {?} context
   * @return {?}
   */
  function (ast, context) {}
  /**
   * @param {?} ast
   * @param {?} context
   * @return {?}
   */
  NullAstVisitor.prototype.visitPropertyRead = /**
   * @param {?} ast
   * @param {?} context
   * @return {?}
   */
  function (ast, context) {}
  /**
   * @param {?} ast
   * @param {?} context
   * @return {?}
   */
  NullAstVisitor.prototype.visitPropertyWrite = /**
   * @param {?} ast
   * @param {?} context
   * @return {?}
   */
  function (ast, context) {}
  /**
   * @param {?} ast
   * @param {?} context
   * @return {?}
   */
  NullAstVisitor.prototype.visitQuote = /**
   * @param {?} ast
   * @param {?} context
   * @return {?}
   */
  function (ast, context) {}
  /**
   * @param {?} ast
   * @param {?} context
   * @return {?}
   */
  NullAstVisitor.prototype.visitSafeMethodCall = /**
   * @param {?} ast
   * @param {?} context
   * @return {?}
   */
  function (ast, context) {}
  /**
   * @param {?} ast
   * @param {?} context
   * @return {?}
   */
  NullAstVisitor.prototype.visitSafePropertyRead = /**
   * @param {?} ast
   * @param {?} context
   * @return {?}
   */
  function (ast, context) {}
  return NullAstVisitor;
})();
var RecursiveAstVisitor = /**
 * @class */ (function () {
  function RecursiveAstVisitor() {}
  /**
   * @param {?} ast
   * @param {?} context
   * @return {?}
   */
  RecursiveAstVisitor.prototype.visitBinary = /**
   * @param {?} ast
   * @param {?} context
   * @return {?}
   */
  function (ast, context) {
    ast.left.visit(this);
  }

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ast.right.visit(this);\n    return null;\n    };\n    /**\n     * @param {?} ast\n     * @param {?} context\n     * @return\n     {?}\n     *\n     ^\n     RecursiveAstVisitor.prototype.visitChain = /**\n     *\n     * @param {?} ast\n     * @param {?} context\n     * @return\n     {?}\n     *\n     ^\n     function (ast, context) { return this.visitAll(ast.expressions, context); };\n     /**\n     *\n     * @param {?} ast\n     * @param {?} context\n     * @return\n     {?}\n     *\n     ^\n     RecursiveAstVisitor.prototype.visitConditional = /**\n     *\n     * @param {?} ast\n     * @param {?} context\n     * @return\n     {?}\n     *\n     ^\n     function (ast, context) {\n     ast.condition.visit(this);\n     ast.trueExp.visit(this);\n     ast.falseExp.visit(this);\n     return null;\n     };\n     /**\n     *\n     * @param {?} ast\n     * @param {?} context\n     * @return\n     {?}\n     *\n     ^\n     RecursiveAstVisitor.prototype.visitPipe = /**\n     *\n     * @param {?} ast\n     * @param {?} context\n     * @return\n     {?}\n     *\n     ^\n     function (ast, context) {\n     ast.exp.visit(this);\n     this.visitAll(ast.args,\n     context);\n     return null;\n     };\n     /**\n     *\n     * @param {?} ast\n     * @param {?} context\n     * @return\n     {?}\n     *\n     ^\n     RecursiveAstVisitor.prototype.visitFunctionCall = /**\n     *\n     * @param {?} ast\n     * @param {?} context\n     * @return\n     {?}\n     *\n     ^\n     function (ast, context) {\n     /** @type {?} */ ((ast.target)).visit(this);\n     this.visitAll(ast.args, context);\n     return null;\n     };\n     /**\n     *\n     * @param {?} ast\n     * @param {?} context\n     * @return\n     {?}\n     *\n     ^\n     RecursiveAstVisitor.prototype.visitImplicitReceiver = /**\n     *\n     * @param {?} ast\n     * @param {?} context\n     * @return\n     {?}\n     *\n     ^\n     function (ast, context) { return null; };\n     /**\n     *\n     * @param {?} ast\n     * @param {?} context\n     * @return\n     {?}\n     *\n     ^\n     RecursiveAstVisitor.prototype.visitInterpolation =\n     /**\n     *\n     * @param {?} ast\n     * @param {?} context\n     * @return\n     {?}\n     *\n     ^\n     function (ast, context) {\n     return this.visitAll(ast.expressions, context);\n     };\n     /**\n     *\n     * @param {?} ast\n     * @param {?} context\n     * @return\n     {?}\n     *\n     ^\n     RecursiveAstVisitor.prototype.visitKeyedRead = /**\n     *\n     * @param {?} ast\n     * @param\n     {?}\n     context\n     * @return\n     {?}\n     *\n     ^\n     function (ast, context) {\n     ast.obj.visit(this);\n     ast.key.visit(this);\n     return null;\n     };\n     /**\n     *\n     * @param {?} ast\n     * @param\n     {?}\n     context\n     * @return\n     {?}\n     *\n     ^\n     RecursiveAstVisitor.prototype.visitKeyedWrite = /**\n     *\n     * @param {?} ast\n     * @param\n     {?}\n     context\n     * @return\n     {?}\n     *\n     ^\n     function (ast, context) {\n     ast.obj.visit(this);\n     ast.key.visit(this);\n     ast.value.visit(this);\n     return null;\n     };\n     /**\n     *\n     * @param {?} ast\n     * @param\n     {?}\n     context\n     * @return\n     {?}\n     *\n     ^\n     RecursiveAstVisitor.prototype.visitLiteralArray = /**\n     *\n     * @param {?} ast\n     * @param\n     {?}\n     context\n     * @return\n     {?}\n     *\n     ^\n     function (ast, context) {\n     return this.visitAll(ast.expressions,\n     context);\n     };\n     /**\n     *\n     * @param {?} ast\n     * @param\n     {?}\n     context\n     * @return\n     {?}\n     *\n     ^\n     RecursiveAstVisitor.prototype.visitLiteralMap = /**\n     *\n     * @param {?} ast\n     * @param\n     {?}\n     context\n     * @return\n     {?}\n     *\n     ^\n     function (ast, context) { return this.visitAll(ast.values, context); };\n     /**\n     *\n     * @param\n     {?}\n     ast\n     * @param\n     {?}\n     context\n     * @return\n     {?}\n     *\n     ^\n     RecursiveAstVisitor.prototype.visitLiteralPrimitive =\n     /**\n     *\n     * @param {?} ast\n     * @param\n     {?}\n     context\n     * @return\n     {?}\n     *\n     ^\n     function (ast, context) {\n     return null; };\n     /**\n     *\n     * @param {?} ast\n     * @param\n     {?}\n     context\n     * @return\n     {?}\n     *\n     ^\n     RecursiveAstVisitor.prototype.visitMethodCall = /**\n     *\n     * @param {?} ast\n     * @param\n     {?}\n     context\n     * @return\n     {?}\n     *\n     ^\n     function (ast, context) {\n     ast.receiver.visit(this);\n     return this.visitAll(ast.args,\n     context);\n     };\n     /**\n     *\n     * @param {?} ast\n     * @param\n     {?}\n     context\n     * @return\n     {?}\n     *\n     ^\n     RecursiveAstVisitor.prototype.visitPrefixNot = /**\n     *\n     * @param {?} ast\n     * @param\n     {?}\n     context\n     * @return\n     {?}\n     *\n     ^\n     function (ast, context) {\n     ast.expression.visit(this);\n     return null;\n     };\n     /**\n     *\n     * @param\n     {?}\n     ast\n     * @param\n     {?}\n     context\n     * @return\n     {?}\n     *\n     ^\n     RecursiveAstVisitor.prototype.visitNonNullAssert = /**\n     *\n     * @param {?} ast\n     * @param\n     {?}\n     context\n     * @return\n     {?}\n     *\n     ^\n     function (ast, context) {\n     ast.expression.visit(this);\n     return null;\n     };\n     /**\n     *\n     * @param\n     {?}\n     ast\n     * @param\n     {?}\n     context\n     * @return\n     {?}\n     *\n     ^\n     RecursiveAstVisitor.prototype.visitPropertyRead = /**\n     *\n     * @param {?} ast\n     * @param\n     {?}\n     context\n     * @return\n     {?}\n     *\n     ^\n     function (ast, context) {\n     ast.receiver.visit(this);\n     return null;\n     };\n     /**\n     *\n     * @param\n     {?}\n     ast\n     * @param\n     {?}\n     context\n     * @return\n     {?}\n     *\n     ^\n     RecursiveAstVisitor.prototype.visitPropertyWrite = /**\n     *\n     * @param {?} ast\n     * @param\n     {?}\n     context\n     * @return\n     {?}\n     *\n     ^\n     function (ast, context) {\n     ast.receiver.visit(this);\n     ast.value.visit(this);\n     return\n     null;\n     };\n     /**\n     *\n     * @param\n     {?}\n     ast\n     * @param\n     {?}\n     context\n     * @return\n     {?}\n     *\n     ^\n     RecursiveAstVisitor.prototype.visitSafePropertyRead = /**\n     *\n     * @param {?} ast\n     * @param\n     {?}\n     context\n     *

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@return {?} \n * \n function (ast, context) { \n ast.receiver.visit(this); \n return null; \n }; \n /** \n *
@param {?} ast \n * @param {?} context \n * @return {?} \n * \n
RecursiveAstVisitor.prototype.visitSafeMethodCall = /** \n * @param {?} ast \n * @param {?} context \n *
@return {?} \n * \n function (ast, context) { \n ast.receiver.visit(this); \n return this.visitAll(ast.args,
context); \n }; \n /** \n * @param {?} asts \n * @param {?} context \n * @return {?} \n * \n
RecursiveAstVisitor.prototype.visitAll = /** \n * @param {?} asts \n * @param {?} context \n * @return
{} \n * \n function (asts, context) { \n var _this = this; \n asts.forEach(function (ast) { return
ast.visit(_this, context); }); \n return null; \n }; \n /** \n * @param {?} ast \n * @param {?} context \n *
@return {?} \n * \n RecursiveAstVisitor.prototype.visitQuote = /** \n * @param {?} ast \n * @param {?}
context \n * @return {?} \n * \n function (ast, context) { return null; }; \n return
RecursiveAstVisitor; \n }); \n var AstTransformer = /** @class */ (function () { \n function AstTransformer() { \n
} \n /** \n * @param {?} ast \n * @param {?} context \n * @return {?} \n * \n
AstTransformer.prototype.visitImplicitReceiver = /** \n * @param {?} ast \n * @param {?} context \n *
@return {?} \n * \n function (ast, context) { return ast; }; \n /** \n * @param {?} ast \n * @param {?}
context \n * @return {?} \n * \n AstTransformer.prototype.visitInterpolation = /** \n * @param {?} ast \n
* @param {?} context \n * @return {?} \n * \n function (ast, context) { \n return new
Interpolation(ast.span, ast.strings, this.visitAll(ast.expressions)); \n }; \n /** \n * @param {?} ast \n * @param
{} context \n * @return {?} \n * \n AstTransformer.prototype.visitLiteralPrimitive = /** \n * @param {?}
ast \n * @param {?} context \n * @return {?} \n * \n function (ast, context) { \n return new
LiteralPrimitive(ast.span, ast.value); \n }; \n /** \n * @param {?} ast \n * @param {?} context \n * @return
{} \n * \n AstTransformer.prototype.visitPropertyRead = /** \n * @param {?} ast \n * @param {?}
context \n * @return {?} \n * \n function (ast, context) { \n return new PropertyRead(ast.span,
ast.receiver.visit(this), ast.name); \n }; \n /** \n * @param {?} ast \n * @param {?} context \n * @return
{} \n * \n AstTransformer.prototype.visitPropertyWrite = /** \n * @param {?} ast \n * @param {?}
context \n * @return {?} \n * \n function (ast, context) { \n return new PropertyWrite(ast.span,
ast.receiver.visit(this), ast.name, ast.value.visit(this)); \n }; \n /** \n * @param {?} ast \n * @param {?}
context \n * @return {?} \n * \n AstTransformer.prototype.visitSafePropertyRead = /** \n * @param {?}
ast \n * @param {?} context \n * @return {?} \n * \n function (ast, context) { \n return new
SafePropertyRead(ast.span, ast.receiver.visit(this), ast.name); \n }; \n /** \n * @param {?} ast \n * @param
{} context \n * @return {?} \n * \n AstTransformer.prototype.visitMethodCall = /** \n * @param {?} ast \n
* @param {?} context \n * @return {?} \n * \n function (ast, context) { \n return new
MethodCall(ast.span, ast.receiver.visit(this), ast.name, this.visitAll(ast.args)); \n }; \n /** \n * @param {?} ast \n
* @param {?} context \n * @return {?} \n * \n AstTransformer.prototype.visitSafeMethodCall = /** \n *
@param {?} ast \n * @param {?} context \n * @return {?} \n * \n function (ast, context) { \n return new
SafeMethodCall(ast.span, ast.receiver.visit(this), ast.name, this.visitAll(ast.args)); \n }; \n /** \n * @param {?}
ast \n * @param {?} context \n * @return {?} \n * \n AstTransformer.prototype.visitFunctionCall = /** \n
* @param {?} ast \n * @param {?} context \n * @return {?} \n * \n function (ast, context) { \n return
new FunctionCall(ast.span, /** @type {?} */ ((ast.target)).visit(this), this.visitAll(ast.args)); \n }; \n /** \n *
@param {?} ast \n * @param {?} context \n * @return {?} \n * \n
AstTransformer.prototype.visitLiteralArray = /** \n * @param {?} ast \n * @param {?} context \n * @return
{} \n * \n function (ast, context) { \n return new LiteralArray(ast.span, this.visitAll(ast.expressions)); \n
}; \n /** \n * @param {?} ast \n * @param {?} context \n * @return {?} \n * \n
AstTransformer.prototype.visitLiteralMap = /** \n * @param {?} ast \n * @param {?} context \n * @return
{} \n * \n function (ast, context) { \n return new LiteralMap(ast.span, ast.keys, this.visitAll(ast.values)); \n
}; \n /** \n * @param {?} ast \n * @param {?} context \n * @return {?} \n * \n
AstTransformer.prototype.visitBinary = /** \n * @param {?} ast \n * @param {?} context \n * @return {?} \n
* \n function (ast, context) { \n return new Binary(ast.span, ast.operation, ast.left.visit(this),
ast.right.visit(this)); \n }; \n /** \n * @param {?} ast \n * @param {?} context \n * @return {?} \n * \n

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AstTransformer.prototype.visitPrefixNot = /**\n * @param {?} ast\n * @param {?} context\n * @return\n {?} \n *^\n function (ast, context) {\n return new PrefixNot(ast.span, ast.expression.visit(this));\n };\n */\n * @param {?} ast\n * @param {?} context\n * @return {?} \n *^\n
AstTransformer.prototype.visitNonNullAssert = /**\n * @param {?} ast\n * @param {?} context\n * @return {?} \n *^\n function (ast, context) {\n return new NonNullAssert(ast.span,\n ast.expression.visit(this));\n };\n */\n * @param {?} ast\n * @param {?} context\n * @return {?} \n *^\n
AstTransformer.prototype.visitConditional = /**\n * @param {?} ast\n * @param {?} context\n * @return {?} \n *^\n function (ast, context) {\n return new Conditional(ast.span, ast.condition.visit(this),\n ast.trueExp.visit(this), ast.falseExp.visit(this));\n };\n */\n * @param {?} ast\n * @param {?} context\n * @return {?} \n *^\n
AstTransformer.prototype.visitPipe = /**\n * @param {?} ast\n * @param {?} context\n * @return {?} \n *^\n function (ast, context) {\n return new BindingPipe(ast.span,\n ast.exp.visit(this), ast.name, this.visitAll(ast.args));\n };\n */\n * @param {?} ast\n * @param {?} context\n * @return {?} \n *^\n
AstTransformer.prototype.visitKeyedRead = /**\n * @param {?} ast\n * @param {?} context\n * @return {?} \n *^\n function (ast, context) {\n return new KeyedRead(ast.span,\n ast.obj.visit(this), ast.key.visit(this));\n };\n */\n * @param {?} ast\n * @param {?} context\n * @return {?} \n *^\n
AstTransformer.prototype.visitKeyedWrite = /**\n * @param {?} ast\n * @param {?} context\n * @return {?} \n *^\n function (ast, context) {\n return new KeyedWrite(ast.span, ast.obj.visit(this),\n ast.key.visit(this), ast.value.visit(this));\n };\n */\n * @param {?} asts\n * @return {?} \n *^\n
AstTransformer.prototype.visitAll = /**\n * @param {?} asts\n * @return {?} \n *^\n function (asts) {\n var /** @type {?} */ res = new Array(asts.length);\n for (var /** @type {?} */ i = 0; i < asts.length; ++i) {\n res[i] = asts[i].visit(this);\n }\n return res;\n };\n */\n * @param {?} ast\n * @param {?} context\n * @return {?} \n *^\n
AstTransformer.prototype.visitChain = /**\n * @param {?} ast\n * @param {?} context\n * @return {?} \n *^\n function (ast, context) {\n return new Chain(ast.span,\n this.visitAll(ast.expressions));\n };\n */\n * @param {?} ast\n * @param {?} context\n * @return {?} \n *^\n
AstTransformer.prototype.visitQuote = /**\n * @param {?} ast\n * @param {?} context\n * @return\n {?} \n *^\n function (ast, context) {\n return new Quote(ast.span, ast.prefix, ast.uninterpretedExpression,\n ast.location);\n };\n return AstTransformer;\n };\n */\n * @param {?} ast\n * @param {?} visitor\n * @param\n {=} context\n * @return {?}\n */\n function visitAstChildren(ast, visitor, context) {\n /**\n * @param {?} ast\n * @return {?} \n *^\n function visit(ast) {\n visitor.visit && visitor.visit(ast, context) || ast.visit(visitor,\n context);\n }\n */\n * @template T\n * @param {?} asts\n * @return {?} \n *^\n function\n visitAll(asts) {\n asts.forEach(visit);\n }\n ast.visit({\n visitBinary: /**\n * @param {?} ast\n * @return\n {?} \n *^\n function (ast) {\n visit(ast.left);\n visit(ast.right);\n },\n visitChain: /**\n * @param {?} ast\n * @return {?} \n *^\n function (ast) {\n visitAll(ast.expressions);\n },\n visitConditional: /**\n * @param {?} ast\n * @return {?} \n *^\n function (ast) {\n visit(ast.condition);\n visit(ast.trueExp);\n visit(ast.falseExp);\n },\n visitFunctionCall: /**\n * @param {?} ast\n * @return {?} \n *^\n function (ast) {\n if (ast.target) {\n visit(ast.target);\n }\n visitAll(ast.args);\n },\n visitImplicitReceiver: /**\n * @param {?} ast\n * @return {?} \n *^\n function (ast) {\n },\n visitInterpolation: /**\n * @param {?} ast\n * @return {?} \n *^\n function (ast) {\n visitAll(ast.expressions);\n },\n visitKeyedRead: /**\n * @param {?} ast\n * @return {?} \n *^\n function (ast) {\n visit(ast.obj);\n visit(ast.key);\n },\n visitKeyedWrite: /**\n * @param {?} ast\n * @return {?} \n *^\n function (ast) {\n visit(ast.obj);\n visit(ast.key);\n visit(ast.obj);\n },\n visitLiteralArray:\n /**\n * @param {?} ast\n * @return {?} \n *^\n function (ast) {\n visitAll(ast.expressions);\n },\n visitLiteralMap: /**\n * @param {?} ast\n * @return {?} \n *^\n function (ast) {\n },\n visitLiteralPrimitive: /**\n * @param {?} ast\n * @return {?} \n *^\n function (ast) {\n },\n visitMethodCall: /**\n * @param {?} ast\n * @return {?} \n *^\n function (ast) {\n visit(ast.receiver);\n visitAll(ast.args);\n },\n visitPipe: /**\n * @param {?} ast\n * @return {?} \n *^\n function (ast) {\n visit(ast.exp);\n visitAll(ast.args);\n },\n

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visitPrefixNot: /**\n      * @param {?} ast\n      * @return {?}\n      */\n      function (ast) {\n        visit(ast.expression); },\n      visitNonNullAssert: /**\n      * @param {?} ast\n      * @return {?}\n      */\n      function (ast) {\n        visit(ast.expression); },\n      visitPropertyRead: /**\n      * @param {?} ast\n      * @return {?}\n      */\n      function (ast) {\n        visit(ast.receiver); },\n      visitPropertyWrite: /**\n      * @param {?} ast\n      * @return {?}\n      */\n      function (ast) {\n        visit(ast.receiver);\n        visit(ast.value);\n      },\n      visitQuote: /**\n      * @param {?} ast\n      * @return {?}\n      */\n      function (ast) {\n      },\n      visitSafeMethodCall: /**\n      * @param {?} ast\n      * @return {?}\n      */\n      function (ast) {\n        visit(ast.receiver);\n        visitAll(ast.args);\n      },\n      visitSafePropertyRead: /**\n      * @param {?} ast\n      * @return {?}\n      */\n      function (ast) {\n        visit(ast.receiver); },\n      });\n\n\n/**\n * @fileoverview added by  
tsickle\n * @suppress {checkTypes} checked by tsc\n */\n\n/**\n * @license\n * Copyright Google Inc. All Rights Reserved.\n * Use of this source code is governed by an MIT-style license that can be found in the LICENSE file at https://angular.io/license\n */\n\nvar SplitInterpolation = /** @class */ (function () {\n  function SplitInterpolation(strings, expressions, offsets) {\n    this.strings = strings;\n    this.expressions = expressions;\n    this.offsets = offsets;\n  }\n  return SplitInterpolation;\n})();\n\nvar TemplateBindingParseResult = /** @class */ (function () {\n  function TemplateBindingParseResult(templateBindings, warnings, errors) {\n    this.templateBindings = templateBindings;\n    this.warnings = warnings;\n    this.errors = errors;\n  }\n  return TemplateBindingParseResult;\n})();\n\n/**\n * @param {?} config\n * @return {?}\n */\nfunction _createInterpolateRegExp(config) {\n  var /** @type {?} */ pattern = escapeRegExp(config.start) + '([\\\\s\\\\|\\\\S]*)' + escapeRegExp(config.end);\n  return new RegExp(pattern, 'g');\n}\n\nvar Parser = /** @class */ (function () {\n  function Parser(_lexer) {\n    this._lexer = _lexer;\n    this.errors = [];\n  }\n  /**\n   * @param {?} input\n   * @param {?} location\n   * @param {?=} interpolationConfig\n   * @return {?}\n   */\n  Parser.prototype.parseAction = /**\n   * @param {?} input\n   * @param {?} location\n   * @param {?=} interpolationConfig\n   * @return {?}\n   */\n  function (input, location, interpolationConfig) {\n    if (interpolationConfig === void 0) {\n      interpolationConfig = DEFAULT_INTERPOLATION_CONFIG;\n    }\n    this._checkNoInterpolation(input, location, interpolationConfig);\n    var /** @type {?} */ sourceToLex = this._stripComments(input);\n    var /** @type {?} */ tokens = this._lexer.tokenize(this._stripComments(input));\n    var /** @type {?} */ ast = new _ParseAST(input, location, tokens, sourceToLex.length, true, this.errors, input.length - sourceToLex.length);\n    .parseChain();\n    return new ASTWithSource(ast, input, location, this.errors);\n  }; \n  /**\n   * @param {?} input\n   * @param {?} location\n   * @param {?=} interpolationConfig\n   * @return {?}\n   */\n  Parser.prototype.parseBinding = /**\n   * @param {?} input\n   * @param {?} location\n   * @param {?=} interpolationConfig\n   * @return {?}\n   */\n  function (input, location, interpolationConfig) {\n    if (interpolationConfig === void 0) {\n      interpolationConfig = DEFAULT_INTERPOLATION_CONFIG;\n    }\n    var /** @type {?} */ ast = this._parseBindingAst(input, location, interpolationConfig);\n    return new ASTWithSource(ast, input, location, this.errors);\n  }; \n  /**\n   * @param {?} input\n   * @param {?} location\n   * @param {?=} interpolationConfig\n   * @return {?}\n   */\n  Parser.prototype.parseSimpleBinding = /**\n   * @param {?} input\n   * @param {?} location\n   * @param {?=} interpolationConfig\n   * @return {?}\n   */\n  function (input, location, interpolationConfig) {\n    if (interpolationConfig === void 0) {\n      interpolationConfig = DEFAULT_INTERPOLATION_CONFIG;\n    }\n    var /** @type {?} */ ast = this._parseBindingAst(input, location, interpolationConfig);\n    var /** @type {?} */ errors = SimpleExpressionChecker.check(ast);\n    if (errors.length > 0) {\n      this._reportError("Host binding expression cannot contain '" + errors.join(' '), input, location);\n    }\n    return new ASTWithSource(ast, input, location, this.errors);\n  }; \n  /**\n   * @param {?} message\n   * @param {?} input\n   * @param {?} errLocation\n   * @param {?=} ctxLocation\n   * @return {?}\n   */\n  Parser.prototype._reportError = /**\n   * @param {?} message\n   * @param {?} input\n   * @param {?} errLocation\n   * @param {?=} ctxLocation\n   * @return {?}\n   */\n  function (message, input, errLocation, ctxLocation) {\n    this.errors.push(new ParserError(message, input, errLocation, ctxLocation));\n  }; \n  /**\n   * @param {?} input\n   * @param {?} location\n   * @param {?=} interpolationConfig\n   * @return {?}\n   */\n  Parser.prototype._parseBindingAst = /**\n   * @param {?}

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input\n    * @param {?} location\n    * @param {?} interpolationConfig\n    * @return {?}\n    */\n    function\n    (input, location, interpolationConfig) {\n        // Quotes expressions use 3rd-party expression language. We don't\n        want to use\n        // our lexer or parser for that, so we check for that ahead of time.\n        var /** @type {?} */ quote\n        = this._parseQuote(input, location);\n        if (quote !== null) {\n            return quote;\n        }\n        this._checkNoInterpolation(input, location, interpolationConfig);\n        var /** @type {?} */ sourceToLex =\n        this._stripComments(input);\n        var /** @type {?} */ tokens = this._lexer.tokenize(sourceToLex);\n        return\n        new _ParseAST(input, location, tokens, sourceToLex.length, false, this.errors, input.length - sourceToLex.length)\n        .parseChain();\n    };\n    /**\n     * @param {?} input\n     * @param {?} location\n     * @return {?}\n     */\n    Parser.prototype._parseQuote = /**\n     * @param {?} input\n     * @param {?} location\n     * @return {?}\n     */\n    function (input, location) {\n        if (input == null)\n            return null;\n        var /** @type {?} */\n        prefixSeparatorIndex = input.indexOf(':');\n        if (prefixSeparatorIndex === -1)\n            return null;\n        var /**\n        @type {?} */ prefix = input.substring(0, prefixSeparatorIndex).trim();\n        if (!isIdentifier(prefix))\n            return\n            null;\n        var /** @type {?} */ uninterpretedExpression = input.substring(prefixSeparatorIndex + 1);\n        return\n        new Quote(new ParseSpan(0, input.length), prefix, uninterpretedExpression, location);\n    };\n    /**\n     * @param\n     {?} prefixToken\n     * @param {?} input\n     * @param {?} location\n     * @return {?}\n     */\n    Parser.prototype.parseTemplateBindings = /**\n     * @param {?} prefixToken\n     * @param {?} input\n     * @param {?} location\n     * @return {?}\n     */\n    function (prefixToken, input, location) {\n        var /** @type\n        {?} */ tokens = this._lexer.tokenize(input);\n        if (prefixToken) {\n            // Prefix the tokens with the tokens\n            from prefixToken but have them take no space (0 index).\n            var /** @type {?} */ prefixTokens =\n            this._lexer.tokenize(prefixToken).map(function (t) {\n                t.index = 0;\n                return t;\n            });\n            tokens.unshift.apply(tokens, prefixTokens);\n        }\n        return new _ParseAST(input, location, tokens,\n        input.length, false, this.errors, 0)\n        .parseTemplateBindings();\n    };\n    /**\n     * @param {?} input\n     * @param {?} location\n     * @param {?=} interpolationConfig\n     * @return {?}\n     */\n    Parser.prototype.parseInterpolation = /**\n     * @param {?} input\n     * @param {?} location\n     * @param {?=\n     interpolationConfig\n     * @return {?}\n     */\n    function (input, location, interpolationConfig) {\n        if\n        (interpolationConfig === void 0) {\n            interpolationConfig = DEFAULT_INTERPOLATION_CONFIG;\n        }\n        var\n        /** @type {?} */ split = this.splitInterpolation(input, location, interpolationConfig);\n        if (split == null)\n            return\n            null;\n        var /** @type {?} */ expressions = [];\n        for (var /** @type {?} */ i = 0; i <\n        split.expressions.length; ++i) {\n            var /** @type {?} */ expressionText = split.expressions[i];\n            var /**\n            @type {?} */ sourceToLex = this._stripComments(expressionText);\n            var /** @type {?} */ tokens =\n            this._lexer.tokenize(sourceToLex);\n            var /** @type {?} */ ast = new _ParseAST(input, location, tokens,\n            sourceToLex.length, false, this.errors, split.offsets[i] + (expressionText.length - sourceToLex.length))\n            .parseChain();\n            expressions.push(ast);\n        }\n        return new ASTWithSource(new Interpolation(new\n        ParseSpan(0, input == null ? 0 : input.length), split.strings, expressions), input, location, this.errors);\n    };\n    /**\n     * @param {?} input\n     * @param {?} location\n     * @param {?=} interpolationConfig\n     * @return {?}\n     */\n    Parser.prototype.splitInterpolation = /**\n     * @param {?} input\n     * @param {?} location\n     * @param\n     {?=} interpolationConfig\n     * @return {?}\n     */\n    function (input, location, interpolationConfig) {\n        if\n        (interpolationConfig === void 0) {\n            interpolationConfig = DEFAULT_INTERPOLATION_CONFIG;\n        }\n        var\n        /** @type {?} */ regexp = _createInterpolateRegExp(interpolationConfig);\n        var /** @type {?} */ parts =\n        input.split(regexp);\n        if (parts.length <= 1) {\n            return\n            null;\n        }\n        var /** @type {?} */ strings =\n        [];\n        var /** @type {?} */ expressions = [];\n        var /** @type {?} */ offsets = [];\n        var /** @type {?} */\n        offset = 0;\n        for (var /** @type {?} */ i = 0; i < parts.length; i++) {\n            var /** @type {?} */ part =\n            parts[i];\n            if (i % 2 === 0) {\n                // fixed string\n                strings.push(part);\n                offset +=\n                part.length;\n            }\n            else if (part.trim().length > 0) {\n                offset +=\n                interpolationConfig.start.length;\n                expressions.push(part);\n                offsets.push(offset);\n                offset +=\n                part.length + interpolationConfig.end.length;\n            }\n            else {\n                this._reportError('Blank\n                expressions are not allowed in interpolated strings', input, \"at column \" + this._findInterpolationErrorColumn(parts,\n                i, interpolationConfig) + \" in\", location);\n                expressions.push('$implicit');\n                offsets.push(offset);\n            }\n        }\n    };\n
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    }\n    }\n    return new SplitInterpolation(strings, expressions, offsets);\n  };\n  /**\n   * @param {?}
input\n   * @param {?} location\n   * @return {?}\n   */\n  Parser.prototype.wrapLiteralPrimitive = /**\n   *
@param {?} input\n   * @param {?} location\n   * @return {?}\n   */\n  function (input, location) {\n
return new ASTWithSource(new LiteralPrimitive(new ParseSpan(0, input == null ? 0 : input.length), input), input,
location, this.errors);\n  };\n  /**\n   * @param {?} input\n   * @return {?}\n   */\n  Parser.prototype.stripComments = /**\n   * @param {?} input\n   * @return {?}\n   */\n  function (input) {\n
var /** @type {?} */ i = this._commentStart(input);\n    return i != null ? input.substring(0, i).trim() : input;\n
};\n  /**\n   * @param {?} input\n   * @return {?}\n   */\n  Parser.prototype._commentStart = /**\n   *
@param {?} input\n   * @return {?}\n   */\n  function (input) {\n    var /** @type {?} */ outerQuote = null;\n
for (var /** @type {?} */ i = 0; i < input.length - 1; i++) {\n      var /** @type {?} */ char =
input.charCodeAtAt(i);\n      var /** @type {?} */ nextChar = input.charCodeAtAt(i + 1);\n      if (char ===
$SLASH && nextChar == $SLASH && outerQuote == null)\n        return i;\n      if (outerQuote === char)\n
{\n        outerQuote = null;\n      }\n      else if (outerQuote == null && isQuote(char)) {\n
outerQuote = char;\n      }\n    }\n    return null;\n  };\n  /**\n   * @param {?} input\n   * @param {?}
location\n   * @param {?} interpolationConfig\n   * @return {?}\n   */\n  Parser.prototype._checkNoInterpolation = /**\n   * @param {?} input\n   * @param {?} location\n   * @param
{?} interpolationConfig\n   * @return {?}\n   */\n  function (input, location, interpolationConfig) {\n    var /**
@type {?} */ regexp = _createInterpolateRegExp(interpolationConfig);\n    var /** @type {?} */ parts =
input.split(regexp);\n    if (parts.length > 1) {\n      this._reportError(`Got interpolation (` +
interpolationConfig.start + interpolationConfig.end + `) where expression was expected`, input, `at column ` +
this._findInterpolationErrorColumn(parts, 1, interpolationConfig) + ` in`, location);\n    }\n  };\n  /**\n   *
@param {?} parts\n   * @param {?} partInErrIdx\n   * @param {?} interpolationConfig\n   * @return {?}\n   */\n  Parser.prototype._findInterpolationErrorColumn = /**\n   * @param {?} parts\n   * @param {?}
partInErrIdx\n   * @param {?} interpolationConfig\n   * @return {?}\n   */\n  function (parts, partInErrIdx,
interpolationConfig) {\n    var /** @type {?} */ errLocation = ";\n    for (var /** @type {?} */ j = 0; j <
partInErrIdx; j++) {\n      errLocation += j % 2 === 0 ? ` ` : ` ` +
interpolationConfig.start + parts[j] + interpolationConfig.end;\n    }\n    return errLocation.length;\n  };\n
return Parser;})();\nvar _ParseAST = /** @class */ (function () {\n  function _ParseAST(input, location, tokens,
inputLength, parseAction, errors, offset) {\n    this.input = input;\n    this.location = location;\n    this.tokens
= tokens;\n    this.inputLength = inputLength;\n    this.parseAction = parseAction;\n    this.errors = errors;\n
this.offset = offset;\n    this.rparensExpected = 0;\n    this.rbracketsExpected = 0;\n    this.rbracesExpected
= 0;\n    this.index = 0;\n  }\n  /**\n   * @param {?} offset\n   * @return {?}\n   */\n  _ParseAST.prototype.peek = /**\n   * @param {?} offset\n   * @return {?}\n   */\n  function (offset) {\n
var /** @type {?} */ i = this.index + offset;\n    return i < this.tokens.length ? this.tokens[i] : EOF;\n  };\n
Object.defineProperty(_ParseAST.prototype, `next`, {\n    get: /**\n     * @return {?}\n     */\n    function () { return this.peek(0); },\n    enumerable: true,\n    configurable: true\n  });\n
Object.defineProperty(_ParseAST.prototype, `inputIndex`, {\n    get: /**\n     * @return {?}\n     */\n    function () {\n      return (this.index < this.tokens.length) ? this.next.index + this.offset :\n
this.inputLength + this.offset;\n    },\n    enumerable: true,\n    configurable: true\n  });\n  /**\n   *
@param {?} start\n   * @return {?}\n   */\n  _ParseAST.prototype.span = /**\n   * @param {?} start\n   *
@return {?}\n   */\n  function (start) {\n    return new ParseSpan(start, this.inputIndex);\n  };\n  /**\n   * @return
{?}\n   */\n  _ParseAST.prototype.advance = /**\n   * @return {?}\n   */\n  function () {\n    this.index++;\n  };\n
/**\n   * @param {?} code\n   * @return {?}\n   */\n  _ParseAST.prototype.optionalCharacter = /**\n   *
@param {?} code\n   * @return {?}\n   */\n  function (code) {\n    if (this.next.isCharacter(code)) {\n
this.advance();\n    return true;\n    }\n    else {\n      return false;\n    }\n  };\n  /**\n   * @return
{?}\n   */\n  _ParseAST.prototype.peekKeywordLet = /**\n   * @return {?}\n   */\n  function () {\n    return
this.next.isKeywordLet();\n  };\n  /**\n   * @return {?}\n   */\n  _ParseAST.prototype.peekKeywordAs = /**\n   *
@return {?}\n   */\n  function () {\n    return this.next.isKeywordAs();\n  };\n  /**\n   * @param {?} code\n   *

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@return {?} \n * \n _ParseAST.prototype.expectCharacter = /** \n * @param {?} code \n * @return {?} \n
* \n function (code) { \n if (this.optionalCharacter(code)) \n return; \n this.error("Missing expected
\" + String.fromCharCode(code)); \n }; \n /** \n * @param {?} op \n * @return {?} \n * \n
_ParseAST.prototype.optionalOperator = /** \n * @param {?} op \n * @return {?} \n * \n function (op) { \n
if (this.next.isOperator(op)) { \n this.advance(); \n return true; \n } \n else { \n return
false; \n } \n }; \n /** \n * @param {?} operator \n * @return {?} \n * \n
_ParseAST.prototype.expectOperator = /** \n * @param {?} operator \n * @return {?} \n * \n function
(operator) { \n if (this.optionalOperator(operator)) \n return; \n this.error("Missing expected operator
\" + operator); \n }; \n /** \n * @return {?} \n * \n _ParseAST.prototype.expectIdentifierOrKeyword = /** \n
* @return {?} \n * \n function () { \n var /** @type {?} */ n = this.next; \n if (!n.isIdentifier() &&
!n.isKeyword()) { \n this.error("Unexpected token \" + n + \", expected identifier or keyword"); \n
return "; \n } \n this.advance(); \n return /** @type {?} */ (n.toString()); \n }; \n /** \n * @return
{?} \n * \n _ParseAST.prototype.expectIdentifierOrKeywordOrString = /** \n * @return {?} \n * \n
function () { \n var /** @type {?} */ n = this.next; \n if (!n.isIdentifier() && !n.isKeyword() &&
!n.isString()) { \n this.error("Unexpected token \" + n + \", expected identifier, keyword, or string"); \n
return "; \n } \n this.advance(); \n return /** @type {?} */ (n.toString()); \n }; \n /** \n * @return
{?} \n * \n _ParseAST.prototype.parseChain = /** \n * @return {?} \n * \n function () { \n var /**
@type {?} */ exprs = []; \n var /** @type {?} */ start = this.inputIndex; \n while (this.index <
this.tokens.length) { \n var /** @type {?} */ expr = this.parsePipe(); \n exprs.push(expr); \n if
(this.optionalCharacter($SEMICOLON)) { \n if (!this.parseAction) { \n this.error('Binding
expression cannot contain chained expression'); \n } \n while
(this.optionalCharacter($SEMICOLON)) { \n } // read all semicolons \n } \n else if (this.index
< this.tokens.length) { \n this.error("Unexpected token \" + this.next + \""); \n } \n } \n if
(exprs.length == 0) \n return new EmptyExpr(this.span(start)); \n if (exprs.length == 1) \n return
exprs[0]; \n return new Chain(this.span(start), exprs); \n }; \n /** \n * @return {?} \n * \n
_ParseAST.prototype.parsePipe = /** \n * @return {?} \n * \n function () { \n var /** @type {?} */ result
= this.parseExpression(); \n if (this.optionalOperator('|')) { \n if (this.parseAction) { \n
this.error('Cannot have a pipe in an action expression'); \n } \n do { \n var /** @type {?} */
name_1 = this.expectIdentifierOrKeyword(); \n var /** @type {?} */ args = []; \n while
(this.optionalCharacter($COLON)) { \n args.push(this.parseExpression()); \n } \n result
= new BindingPipe(this.span(result.span.start), result, name_1, args); \n } while (this.optionalOperator('|')); \n
} \n return result; \n }; \n /** \n * @return {?} \n * \n _ParseAST.prototype.parseExpression = /** \n
* @return {?} \n * \n function () { return this.parseConditional(); }; \n /** \n * @return {?} \n * \n
_ParseAST.prototype.parseConditional = /** \n * @return {?} \n * \n function () { \n var /** @type {?} */
start = this.inputIndex; \n var /** @type {?} */ result = this.parseLogicalOr(); \n if
(this.optionalOperator('?')) { \n var /** @type {?} */ yes = this.parsePipe(); \n var /** @type {?} */ no
= void 0; \n if (!this.optionalCharacter($COLON)) { \n var /** @type {?} */ end = this.inputIndex; \n
var /** @type {?} */ expression = this.input.substring(start, end); \n this.error("Conditional
expression \" + expression + \" requires all 3 expressions"); \n no = new EmptyExpr(this.span(start)); \n
} \n else { \n no = this.parsePipe(); \n } \n return new Conditional(this.span(start),
result, yes, no); \n } \n else { \n return result; \n } \n }; \n /** \n * @return {?} \n * \n
_ParseAST.prototype.parseLogicalOr = /** \n * @return {?} \n * \n function () { \n // || \n var /**
@type {?} */ result = this.parseLogicalAnd(); \n while (this.optionalOperator('|')) { \n var /** @type {?} */
right = this.parseLogicalAnd(); \n result = new Binary(this.span(result.span.start), '|', result, right); \n
} \n return result; \n }; \n /** \n * @return {?} \n * \n _ParseAST.prototype.parseLogicalAnd = /** \n
* @return {?} \n * \n function () { \n // '&&' \n var /** @type {?} */ result = this.parseEquality(); \n
while (this.optionalOperator('&&')) { \n var /** @type {?} */ right = this.parseEquality(); \n result =
new Binary(this.span(result.span.start), '&&', result, right); \n } \n return result; \n }; \n /** \n * @return

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{?}\n *\n _ParseAST.prototype.parseEquality = /**\n * @return {?}\n *\n function () {\n //
'==','!=','===','!=='\n var /** @type {?} */ result = this.parseRelational();\n while (this.next.type ==
TokenType.Operator) {\n var /** @type {?} */ operator = this.next.strValue;\n switch (operator) {\n
case '==':\n case '===':\n case '!=':\n case '!==':\n this.advance();\n
var /** @type {?} */ right = this.parseRelational();\n result = new
Binary(this.span(result.span.start), operator, result, right);\n continue;\n }\n break;\n
}\n return result;\n };\n /**\n * @return {?}\n *\n _ParseAST.prototype.parseRelational = /**\n *
@return {?}\n *\n function () {\n // '<', '>', '<=', '>='\n var /** @type {?} */ result =
this.parseAdditive();\n while (this.next.type == TokenType.Operator) {\n var /** @type {?} */ operator
= this.next.strValue;\n switch (operator) {\n case '<':\n case '>':\n case '<=':\n
case '>':\n this.advance();\n var /** @type {?} */ right = this.parseAdditive();\n
result = new Binary(this.span(result.span.start), operator, result, right);\n continue;\n }\n
break;\n }\n return result;\n };\n /**\n * @return {?}\n *\n _ParseAST.prototype.parseAdditive
= /**\n * @return {?}\n *\n function () {\n // '+', '-'\n var /** @type {?} */ result =
this.parseMultiplicative();\n while (this.next.type == TokenType.Operator) {\n var /** @type {?} */
operator = this.next.strValue;\n switch (operator) {\n case '+':\n case '-':\n
this.advance();\n var /** @type {?} */ right = this.parseMultiplicative();\n result = new
Binary(this.span(result.span.start), operator, result, right);\n continue;\n }\n break;\n
}\n return result;\n };\n /**\n * @return {?}\n *\n _ParseAST.prototype.parseMultiplicative = /**\n *
@return {?}\n *\n function () {\n // '*', '%', '/'\n var /** @type {?} */ result = this.parsePrefix();\n
while (this.next.type == TokenType.Operator) {\n var /** @type {?} */ operator = this.next.strValue;\n
switch (operator) {\n case '*':\n case '%':\n case '/':\n this.advance();\n
var /** @type {?} */ right = this.parsePrefix();\n result = new Binary(this.span(result.span.start),
operator, result, right);\n continue;\n }\n break;\n }\n return result;\n };\n /**\n *
@return {?}\n *\n _ParseAST.prototype.parsePrefix = /**\n * @return {?}\n *\n function () {\n
if (this.next.type == TokenType.Operator) {\n var /** @type {?} */ start = this.inputIndex;\n var /**
@type {?} */ operator = this.next.strValue;\n var /** @type {?} */ result = void 0;\n switch (operator)
{\n case '+':\n this.advance();\n return this.parsePrefix();\n case '-':\n
this.advance();\n result = this.parsePrefix();\n return new Binary(this.span(start),
operator, new LiteralPrimitive(new ParseSpan(start, start), 0), result);\n case '!':\n
this.advance();\n result = this.parsePrefix();\n return new PrefixNot(this.span(start),
result);\n }\n }\n return this.parseCallChain();\n };\n /**\n * @return {?}\n *\n
_ParseAST.prototype.parseCallChain = /**\n * @return {?}\n *\n function () {\n var /** @type {?} */
result = this.parsePrimary();\n while (true) {\n if (this.optionalCharacter($PERIOD)) {\n result
= this.parseAccessMemberOrMethodCall(result, false);\n } else if (this.optionalOperator('?')) {\n
result = this.parseAccessMemberOrMethodCall(result, true);\n } else if
(this.optionalCharacter($LBRACKET)) {\n this.rbracketsExpected++;\n var /** @type {?} */
key = this.parsePipe();\n this.rbracketsExpected--;\n this.expectCharacter($RBRACKET);\n
if (this.optionalOperator('=')) {\n var /** @type {?} */ value = this.parseConditional();\n
result = new KeyedWrite(this.span(result.span.start), result, key, value);\n } else {\n
result = new KeyedRead(this.span(result.span.start), result, key);\n } else if
(this.optionalCharacter($LPAREN)) {\n this.rparensExpected++;\n var /** @type {?} */ args =
this.parseCallArguments();\n this.rparensExpected--;\n this.expectCharacter($RPAREN);\n
result = new FunctionCall(this.span(result.span.start), result, args);\n } else if
(this.optionalOperator('!')) {\n result = new NonNullAssert(this.span(result.span.start), result);\n
} else {\n return result;\n } }\n };\n /**\n * @return {?}\n *\n
_ParseAST.prototype.parsePrimary = /**\n * @return {?}\n *\n function () {\n var /** @type {?} */
start = this.inputIndex;\n if (this.optionalCharacter($LPAREN)) {\n this.rparensExpected++;\n var

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/** @type {?} */ result = this.parsePipe();\n      this.rparensExpected--;\n      this.expectCharacter($RPAREN);\n      return result;\n    }\n    else if (this.next.isKeywordNull()) {\n      this.advance();\n      return new LiteralPrimitive(this.span(start), null);\n    }\n    else if\n      (this.next.isKeywordUndefined()) {\n      this.advance();\n      return new LiteralPrimitive(this.span(start),\n      void 0);\n    }\n    else if (this.next.isKeywordTrue()) {\n      this.advance();\n      return new\n      LiteralPrimitive(this.span(start), true);\n    }\n    else if (this.next.isKeywordFalse()) {\n      this.advance();\n      return new LiteralPrimitive(this.span(start), false);\n    }\n    else if (this.next.isKeywordThis()) {\n      this.advance();\n      return new ImplicitReceiver(this.span(start));\n    }\n    else if\n      (this.optionalCharacter($LBRACKET)) {\n      this.rbracketsExpected++;\n      var /** @type {?} */\n      elements = this.parseExpressionList($RBRACKET);\n      this.rbracketsExpected--;\n      this.expectCharacter($RBRACKET);\n      return new LiteralArray(this.span(start), elements);\n    }\n    else if (this.next.isCharacter($LBRACE)) {\n      return this.parseLiteralMap();\n    }\n    else if\n      (this.next.isIdentifier()) {\n      return this.parseAccessMemberOrMethodCall(new\n      ImplicitReceiver(this.span(start)), false);\n    }\n    else if (this.next.isNumber()) {\n      var /** @type {?} */\n      /* value = this.next.toNumber();\n      this.advance();\n      return new LiteralPrimitive(this.span(start),\n      value); */\n    }\n    else if (this.next.isString()) {\n      var /** @type {?} */ literalValue =\n      this.next.toString();\n      this.advance();\n      return new LiteralPrimitive(this.span(start), literalValue);\n    }\n    else if (this.index >= this.tokens.length) {\n      this.error("Unexpected end of expression: '" +\n      this.input);\n      return new EmptyExpr(this.span(start));\n    }\n    else {\n      this.error("Unexpected\n      token '" + this.next);\n      return new EmptyExpr(this.span(start));\n    }\n  };\n  /**\n   * @return {?}\n   * ^\n   * _ParseAST.prototype.parseExpressionList = /**\n   * @return {?}\n   * ^\n   * function (terminator) {\n   *   var /** @type {?} */ result = [];\n   *   if\n   *   (!this.next.isCharacter(terminator)) {\n   *     do {\n   *       result.push(this.parsePipe());\n   *     } while\n   *     (this.optionalCharacter($COMMA));\n   *   }\n   *   return result;\n   * };\n   /**\n   * @return {?}\n   * ^\n   * _ParseAST.prototype.parseLiteralMap = /**\n   * @return {?}\n   * ^\n   * function () {\n   *   var /** @type {?} */\n   *   keys = [];\n   *   var /** @type {?} */ values = [];\n   *   var /** @type {?} */ start = this.inputIndex;\n   *   this.expectCharacter($LBRACE);\n   *   if (!this.optionalCharacter($RBRACE)) {\n   *     this.rbracesExpected++;\n   *     do {\n   *       var /** @type {?} */ quoted = this.next.isString();\n   *       var\n   *       /** @type {?} */ key = this.expectIdentifierOrKeywordOrString();\n   *       keys.push({ key: key, quoted: quoted\n   *       });\n   *       this.expectCharacter($COLON);\n   *       values.push(this.parsePipe());\n   *     } while\n   *     (this.optionalCharacter($COMMA));\n   *     this.rbracesExpected--;\n   *     this.expectCharacter($RBRACE);\n   *   }\n   *   return new LiteralMap(this.span(start), keys, values);\n   * };\n   /**\n   * @param {?} receiver\n   * @param {?} isSafe\n   * @return {?}\n   * ^\n   * _ParseAST.prototype.parseAccessMemberOrMethodCall =\n   * /**\n   * @param {?} receiver\n   * @param {?} isSafe\n   * @return {?}\n   * ^\n   * function (receiver, isSafe)\n   * {\n   *   if (isSafe === void 0) { isSafe = false; }\n   *   var /** @type {?} */ start = receiver.span.start;\n   *   var /**\n   *   @type {?} */ id = this.expectIdentifierOrKeyword();\n   *   if (this.optionalCharacter($LPAREN)) {\n   *     this.rparensExpected++;\n   *     var /** @type {?} */ args = this.parseCallArguments();\n   *     this.expectCharacter($RPAREN);\n   *     this.rparensExpected--;\n   *     var /** @type {?} */ span =\n   *     this.span(start);\n   *     return isSafe ? new SafeMethodCall(span, receiver, id, args) : new\n   *     MethodCall(span, receiver, id, args);\n   *   }\n   *   else {\n   *     if (isSafe) {\n   *       if\n   *       (this.optionalOperator('=')) {\n   *         this.error("The '\\?.\\?' operator cannot be used in the assignment");\n   *         return new EmptyExpr(this.span(start));\n   *       }\n   *       else {\n   *         return new\n   *         SafePropertyRead(this.span(start), receiver, id);\n   *       }\n   *     }\n   *     else {\n   *       if\n   *       (this.optionalOperator('=')) {\n   *         if (!this.parseAction) {\n   *           this.error("Bindings cannot\n   *           contain assignments");\n   *           return new EmptyExpr(this.span(start));\n   *         }\n   *         var /**\n   *         @type {?} */ value = this.parseConditional();\n   *         return new PropertyWrite(this.span(start), receiver, id,\n   *         value);\n   *       }\n   *       else {\n   *         return new PropertyRead(this.span(start), receiver, id);\n   *       }\n   *     }\n   *   }\n   * }\n   * };\n   /**\n   * @return {?}\n   * ^\n   * _ParseAST.prototype.parseCallArguments = /**

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@param {?} ast\n * @return {?}\n *^ SimpleExpressionChecker.check = /**\n * @param {?} ast\n *
@return {?}\n *^ function (ast) {\n var /** @type {?} */ s = new SimpleExpressionChecker();\n
ast.visit(s);\n return s.errors;\n };\n /**\n * @param {?} ast\n * @param {?} context\n * @return
{?}\n *^ SimpleExpressionChecker.prototype.visitImplicitReceiver = /**\n * @param {?} ast\n *
@param {?} context\n * @return {?}\n *^ function (ast, context) { };\n /**\n * @param {?} ast\n *
@param {?} context\n * @return {?}\n *^ SimpleExpressionChecker.prototype.visitInterpolation = /**\n
* @param {?} ast\n * @param {?} context\n * @return {?}\n *^ function (ast, context) { };\n /**\n *
@param {?} ast\n * @param {?} context\n * @return {?}\n *^
SimpleExpressionChecker.prototype.visitLiteralPrimitive = /**\n * @param {?} ast\n * @param {?} context\n
* @return {?}\n *^ function (ast, context) { };\n /**\n * @param {?} ast\n * @param {?} context\n
* @return {?}\n *^ SimpleExpressionChecker.prototype.visitPropertyRead = /**\n * @param {?} ast\n *
@param {?} context\n * @return {?}\n *^ function (ast, context) { };\n /**\n * @param {?} ast\n *
@param {?} context\n * @return {?}\n *^ SimpleExpressionChecker.prototype.visitPropertyWrite = /**\n
* @param {?} ast\n * @param {?} context\n * @return {?}\n *^ function (ast, context) { };\n /**\n
* @param {?} ast\n * @param {?} context\n * @return {?}\n *^
SimpleExpressionChecker.prototype.visitSafePropertyRead = /**\n * @param {?} ast\n * @param {?}
context\n * @return {?}\n *^ function (ast, context) { };\n /**\n * @param {?} ast\n * @param {?}
context\n * @return {?}\n *^ SimpleExpressionChecker.prototype.visitMethodCall = /**\n * @param
{?} ast\n * @param {?} context\n * @return {?}\n *^ function (ast, context) { };\n /**\n * @param
{?} ast\n * @param {?} context\n * @return {?}\n *^
SimpleExpressionChecker.prototype.visitSafeMethodCall = /**\n * @param {?} ast\n * @param {?} context\n
* @return {?}\n *^ function (ast, context) { };\n /**\n * @param {?} ast\n * @param {?} context\n
* @return {?}\n *^ SimpleExpressionChecker.prototype.visitFunctionCall = /**\n * @param {?} ast\n *
@param {?} context\n * @return {?}\n *^ function (ast, context) { };\n /**\n * @param {?} ast\n *
@param {?} context\n * @return {?}\n *^ SimpleExpressionChecker.prototype.visitLiteralArray = /**\n
* @param {?} ast\n * @param {?} context\n * @return {?}\n *^ function (ast, context) {
this.visitAll(ast.expressions); };\n /**\n * @param {?} ast\n * @param {?} context\n * @return {?}\n
*^ SimpleExpressionChecker.prototype.visitLiteralMap = /**\n * @param {?} ast\n * @param {?}
context\n * @return {?}\n *^ function (ast, context) { this.visitAll(ast.values); };\n /**\n * @param {?}
ast\n * @param {?} context\n * @return {?}\n *^ SimpleExpressionChecker.prototype.visitBinary =
/**\n * @param {?} ast\n * @param {?} context\n * @return {?}\n *^ function (ast, context) { };\n
/**\n * @param {?} ast\n * @param {?} context\n * @return {?}\n *^
SimpleExpressionChecker.prototype.visitPrefixNot = /**\n * @param {?} ast\n * @param {?} context\n *
@return {?}\n *^ function (ast, context) { };\n /**\n * @param {?} ast\n * @param {?} context\n *
@return {?}\n *^ SimpleExpressionChecker.prototype.visitNonNullAssert = /**\n * @param {?} ast\n *
@param {?} context\n * @return {?}\n *^ function (ast, context) { };\n /**\n * @param {?} ast\n *
@param {?} context\n * @return {?}\n *^ SimpleExpressionChecker.prototype.visitConditional = /**\n
* @param {?} ast\n * @param {?} context\n * @return {?}\n *^ function (ast, context) { };\n /**\n
* @param {?} ast\n * @param {?} context\n * @return {?}\n *^
SimpleExpressionChecker.prototype.visitPipe = /**\n * @param {?} ast\n * @param {?} context\n *
@return {?}\n *^ function (ast, context) { this.errors.push('pipes'); };\n /**\n * @param {?} ast\n *
@param {?} context\n * @return {?}\n *^ SimpleExpressionChecker.prototype.visitKeyedRead = /**\n
* @param {?} ast\n * @param {?} context\n * @return {?}\n *^ function (ast, context) { };\n /**\n
* @param {?} ast\n * @param {?} context\n * @return {?}\n *^
SimpleExpressionChecker.prototype.visitKeyedWrite = /**\n * @param {?} ast\n * @param {?} context\n *
@return {?}\n *^ function (ast, context) { };\n /**\n * @param {?} ast\n * @return {?}\n *^
SimpleExpressionChecker.prototype.visitAll = /**\n * @param {?} ast\n * @return {?}\n *^ function
(ast) {\n var _this = this;\n return asts.map(function (node) { return node.visit(_this); });\n };\n /**\n

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* @param {?} ast\n * @param {?} context\n * @return {?}\n *\n
SimpleExpressionChecker.prototype.visitChain = /**\n * @param {?} ast\n * @param {?} context\n *
@return {?}\n *\n function (ast, context) {;\n /**\n * @param {?} ast\n * @param {?} context\n *
@return {?}\n *\n SimpleExpressionChecker.prototype.visitQuote = /**\n * @param {?} ast\n * @param
{?} context\n * @return {?}\n *\n function (ast, context) {;\n return
SimpleExpressionChecker;\n});\n\n/**\n * @fileoverview added by tsickle\n * @suppress {checkTypes} checked
by tsc\n *\nvar ParseLocation = /** @class */ (function () {\n function ParseLocation(file, offset, line, col) {\n
this.file = file;\n this.offset = offset;\n this.line = line;\n this.col = col;\n }\n /**\n * @return
{?}\n *\n ParseLocation.prototype.toString = /**\n * @return {?}\n *\n function () {\n return
this.offset != null ? this.file.url + @"\@" + this.line + ":" + this.col : this.file.url;\n };;\n /**\n * @param {?}
delta\n * @return {?}\n *\n ParseLocation.prototype.moveBy = /**\n * @param {?} delta\n * @return
{?}\n *\n function (delta) {\n var /** @type {?} */ source = this.file.content;\n var /** @type {?} */
len = source.length;\n var /** @type {?} */ offset = this.offset;\n var /** @type {?} */ line = this.line;\n
var /** @type {?} */ col = this.col;\n while (offset > 0 && delta < 0) {\n offset--;\n delta++;\n
var /** @type {?} */ ch = source.charCodeAt(offset);\n if (ch == $LF) {\n line--;\n var
/** @type {?} */ priorLine = source.substr(0, offset - 1).lastIndexOf(String.fromCharCode($LF));\n col =
priorLine > 0 ? offset - priorLine : offset;\n }\n else {\n col--;\n }\n }\n while
(offset < len && delta > 0) {\n var /** @type {?} */ ch = source.charCodeAt(offset);\n offset++;\n
delta--;\n if (ch == $LF) {\n line++;\n col = 0;\n }\n else {\n
col++;\n }\n }\n return new ParseLocation(this.file, offset, line, col);\n };;\n // Return the source
around the location\n // Up to `maxChars` or `maxLines` on each side of the location\n /**\n * @param {?}
maxChars\n * @param {?} maxLines\n * @return {?}\n *\n ParseLocation.prototype.getContext = /**\n
* @param {?} maxChars\n * @param {?} maxLines\n * @return {?}\n *\n function (maxChars,
maxLines) {\n var /** @type {?} */ content = this.file.content;\n var /** @type {?} */ startOffset =
this.offset;\n if (startOffset != null) {\n if (startOffset > content.length - 1) {\n startOffset =
content.length - 1;\n }\n var /** @type {?} */ endOffset = startOffset;\n var /** @type {?} */
ctxChars = 0;\n var /** @type {?} */ ctxLines = 0;\n while (ctxChars < maxChars && startOffset > 0)
{\n startOffset--;\n ctxChars++;\n if (content[startOffset] == '\n') {\n if
(++ctxLines == maxLines) {\n break;\n }\n }\n }\n ctxChars = 0;\n
ctxLines = 0;\n while (ctxChars < maxChars && endOffset < content.length - 1) {\n
endOffset++;\n ctxChars++;\n if (content[endOffset] == '\n') {\n if (++ctxLines ==
maxLines) {\n break;\n }\n }\n }\n return {\n before:
content.substring(startOffset, this.offset),\n after: content.substring(this.offset, endOffset + 1),\n
};;\n }\n return null;\n };;\n return ParseLocation;\n});\n\nvar ParseSourceFile = /** @class */ (function () {\n
function ParseSourceFile(content, url) {\n this.content = content;\n this.url = url;\n }\n return
ParseSourceFile;\n});\n\nvar ParseSourceSpan = /** @class */ (function () {\n function ParseSourceSpan(start,
end, details) {\n if (details === void 0) { details = null; }\n this.start = start;\n this.end = end;\n
this.details = details;\n }\n /**\n * @return {?}\n *\n ParseSourceSpan.prototype.toString = /**\n
* @return {?}\n *\n function () {\n return this.start.file.content.substring(this.start.offset, this.end.offset);\n
};;\n return ParseSourceSpan;\n});\n\n/** @enum {number} *\nvar ParseErrorLevel = {\n WARNING: 0,\n
ERROR: 1,\n};\nParseErrorLevel[ParseErrorLevel.WARNING] =
\"WARNING\";\nParseErrorLevel[ParseErrorLevel.ERROR] = \"ERROR\";\n\nvar ParseError = /** @class */
(function () {\n function ParseError(span, msg, level) {\n if (level === void 0) { level =
ParseErrorLevel.ERROR; }\n this.span = span;\n this.msg = msg;\n this.level = level;\n }\n /**\n
* @return {?}\n *\n ParseError.prototype.contextualMessage = /**\n * @return {?}\n *\n function ()
{\n var /** @type {?} */ ctx = this.span.start.getContext(100, 3);\n return ctx ? this.msg + \"(\\\"\\\"\" +
ctx.before + \"[\" + ParseErrorLevel[this.level] + \" ->\" + ctx.after + \"\\\"\\\")\":\n this.msg;\n };;\n /**\n
* @return {?}\n *\n ParseError.prototype.toString = /**\n * @return {?}\n *\n function () {\n var

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/** @type {?} */ details = this.span.details ? "\, \" + this.span.details : ";
return this.contextualMessage() + \"\":
\" + this.span.start + details;\n };
return ParseError;\n));\n/**\n * @param {?} kind\n * @param {?} type\n *
@return {?}\n */\nfunction typeSourceSpan(kind, type) {\n var /** @type {?} */ moduleId =
identifierModuleUrl(type);\n var /** @type {?} */ sourceFileName = moduleId != null ? \"in \" + kind + \" \" +
identifierName(type) + \" in \" + moduleId : \" \" + kind + \" \" + identifierName(type);\n var /** @type
{?} */ sourceFile = new ParseSourceFile(\"\", sourceFileName);\n return new ParseSourceSpan(new
ParseLocation(sourceFile, -1, -1, -1), new ParseLocation(sourceFile, -1, -1, -1));\n}\n\n/**\n * @fileoverview added
by tsickle\n * @suppress {checkTypes} checked by tsc\n */\n\n/**\n * @license\n * Copyright Google Inc. All Rights
Reserved.\n */\n * Use of this source code is governed by an MIT-style license that can be\n * found in the
LICENSE file at https://angular.io/license\n */\n\n/** @enum {number} */\nvar TokenType$1 = {\n
TAG_OPEN_START: 0,\n TAG_OPEN_END: 1,\n TAG_OPEN_END_VOID: 2,\n TAG_CLOSE: 3,\n
TEXT: 4,\n ESCAPABLE_RAW_TEXT: 5,\n RAW_TEXT: 6,\n COMMENT_START: 7,\n
COMMENT_END: 8,\n CDATA_START: 9,\n CDATA_END: 10,\n ATTR_NAME: 11,\n
ATTR_VALUE: 12,\n DOC_TYPE: 13,\n EXPANSION_FORM_START: 14,\n
EXPANSION_CASE_VALUE: 15,\n EXPANSION_CASE_EXP_START: 16,\n
EXPANSION_CASE_EXP_END: 17,\n EXPANSION_FORM_END: 18,\n EOF:
19,\n};\nTokenType$1[TokenType$1.TAG_OPEN_START] =
\"TAG_OPEN_START\";\nTokenType$1[TokenType$1.TAG_OPEN_END] =
\"TAG_OPEN_END\";\nTokenType$1[TokenType$1.TAG_OPEN_END_VOID] =
\"TAG_OPEN_END_VOID\";\nTokenType$1[TokenType$1.TAG_CLOSE] =
\"TAG_CLOSE\";\nTokenType$1[TokenType$1.TEXT] =
\"TEXT\";\nTokenType$1[TokenType$1.ESCAPABLE_RAW_TEXT] =
\"ESCAPABLE_RAW_TEXT\";\nTokenType$1[TokenType$1.RAW_TEXT] =
\"RAW_TEXT\";\nTokenType$1[TokenType$1.COMMENT_START] =
\"COMMENT_START\";\nTokenType$1[TokenType$1.COMMENT_END] =
\"COMMENT_END\";\nTokenType$1[TokenType$1.CDATA_START] =
\"CDATA_START\";\nTokenType$1[TokenType$1.CDATA_END] =
\"CDATA_END\";\nTokenType$1[TokenType$1.ATTR_NAME] =
\"ATTR_NAME\";\nTokenType$1[TokenType$1.ATTR_VALUE] =
\"ATTR_VALUE\";\nTokenType$1[TokenType$1.DOC_TYPE] =
\"DOC_TYPE\";\nTokenType$1[TokenType$1.EXPANSION_FORM_START] =
\"EXPANSION_FORM_START\";\nTokenType$1[TokenType$1.EXPANSION_CASE_VALUE] =
\"EXPANSION_CASE_VALUE\";\nTokenType$1[TokenType$1.EXPANSION_CASE_EXP_START] =
\"EXPANSION_CASE_EXP_START\";\nTokenType$1[TokenType$1.EXPANSION_CASE_EXP_END] =
\"EXPANSION_CASE_EXP_END\";\nTokenType$1[TokenType$1.EXPANSION_FORM_END] =
\"EXPANSION_FORM_END\";\nTokenType$1[TokenType$1.EOF] = \"EOF\";\nvar Token$1 = /** @class */
(function () {\n function Token(type, parts, sourceSpan) {\n this.type = type;\n this.parts = parts;\n
this.sourceSpan = sourceSpan;\n }
return Token;\n})();\nvar TokenError = /** @class */ (function (_super) {\n
__extends(TokenError, _super);\n function TokenError(errorMsg, tokenType, span) {\n var _this =
_super.call(this, span, errorMsg) || this;\n _this.tokenType = tokenType;\n return _this;\n }\n return
TokenError;\n}(ParseError));\nvar TokenizeResult = /** @class */ (function () {\n function
TokenizeResult(tokens, errors) {\n this.tokens = tokens;\n this.errors = errors;\n }\n return
TokenizeResult;\n})();\n/**\n * @param {?} source\n * @param {?} url\n * @param {?} getTagDefinition\n *
@param {?=} tokenizeExpansionForms\n * @param {?=} interpolationConfig\n * @return {?}\n */\nfunction
tokenize(source, url, getTagDefinition, tokenizeExpansionForms, interpolationConfig) {\n if
(tokenizeExpansionForms === void 0) { tokenizeExpansionForms = false; }\n if (interpolationConfig === void 0)
{ interpolationConfig = DEFAULT_INTERPOLATION_CONFIG; }\n return new _Tokenizer(new
ParseSourceFile(source, url), getTagDefinition, tokenizeExpansionForms, interpolationConfig)\n

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.tokenize();\n}\nvar _CR_OR_CRLF_REGEXP = /\r\n?/g;\n/**\n * @param {?} charCode\n * @return {?}\n *\n * \nfunction _unexpectedCharacterErrorMsg(charCode) {\n  var /** @type {?} */ char = charCode === $EOF ?\n  'EOF' : String.fromCharCode(charCode);\n  return \"Unexpected character '\\\" + char + '\\\"\"\";\n}\n/**\n * @param {?} entitySrc\n * @return {?}\n *\n * \nfunction _unknownEntityErrorMsg(entitySrc) {\n  return \"Unknown\nentity '\\\" + entitySrc + '\\\"\" - use the '\\\"&#<decimal>:\\\" or '\\\"&#x<hex>:\\\" syntax\";\n}\n\nvar\n_ControlFlowError = /** @class */ (function () {\n  function _ControlFlowError(error) {\n    this.error = error;\n  }\n  return _ControlFlowError;\n})();\nvar _Tokenizer = /** @class */ (function () {\n  /**\n   * @param _file\n   * The html source\n   * @param _getTagDefinition\n   * @param _tokenizeIcu Whether to tokenize ICU messages\n   * (considered as text nodes when false)\n   * @param _interpolationConfig\n   * \nfunction _Tokenizer(_file,\n_getTagDefinition, _tokenizeIcu, _interpolationConfig) {\n  if (_interpolationConfig === void 0) {\n    _interpolationConfig = DEFAULT_INTERPOLATION_CONFIG; }\n  this._file = _file;\n  this._getTagDefinition = _getTagDefinition;\n  this._tokenizeIcu = _tokenizeIcu;\n  this._interpolationConfig = _interpolationConfig;\n  this._peek = -1;\n  this._nextPeek = -1;\n  this._index = -1;\n  this._line = 0;\n  this._column = -1;\n  this._expansionCaseStack = [];\n  this._inInterpolation = false;\n  this.tokens = [];\n  this.errors = [];\n  this._input = _file.content;\n  this._length = _file.content.length;\n  this._advance();\n  }\n  /**\n   * @param {?} content\n   * @return\n   {?}\n   *\n   * \nfunction _Tokenizer.prototype._processCarriageReturns = /**\n   * @param {?} content\n   * @return\n   {?}\n   *\n   * \nfunction (content) {\n    // http://www.w3.org/TR/html5/syntax.html#preprocessing-the-input-\nstream\n    // In order to keep the original position in the source, we can not\n    // pre-process it.\n    //\n    // Instead CRs are processed right before instantiating the tokens.\n    return\ncontent.replace(_CR_OR_CRLF_REGEXP, \"\\n\");\n  }\n  /**\n   * @return {?}\n   *\n   * \nfunction () {\n    while (this._peek !== $EOF)\n    {\n      var /** @type {?} */ start = this._getLocation();\n      try {\n        if\n        (this._attemptCharCode($LT)) {\n          if (this._attemptCharCode($BANG)) {\n            if\n            (this._attemptCharCode($LBACKET)) {\n              this._consumeCdata(start);\n            }\n            else if (this._attemptCharCode($MINUS)) {\n              this._consumeComment(start);\n            }\n            else {\n              this._consumeDocType(start);\n            }\n            }\n            else if (this._attemptCharCode($SLASH)) {\n              this._consumeTagClose(start);\n            }\n            else {\n              this._consumeTagOpen(start);\n            }\n            }\n            else if\n            (!(this._tokenizeIcu && this._tokenizeExpansionForm())) {\n              this._consumeText();\n            }\n            }\n            catch (** @type {?} */ e) {\n              if (e instanceof _ControlFlowError) {\n                this.errors.push(e.error);\n              }\n              else {\n                throw e;\n              }\n            }\n            }\n            }\n            this._beginToken(TokenType.$1.EOF);\n            this._endToken([]);\n            return new\nTokenizerResult(mergeTextTokens(this.tokens), this.errors);\n          }\n          /**\n           * \nfunction _Tokenizer.prototype._getToken\nwhether an ICU token has been created\n           *\n           * \nfunction _Tokenizer.prototype._tokenizeExpansionForm = /**\n           * \nfunction _Tokenizer.prototype._tokenizeExpansionForm\nwhether an ICU token has been created\n           *\n           * \nfunction () {\n            if\n            (isExpansionFormStart(this._input, this._index, this._interpolationConfig)) {\n              this._consumeExpansionFormStart();\n              return true;\n            }\n            if (isExpansionCaseStart(this._peek) &&\nthis._isInExpansionForm()) {\n              this._consumeExpansionCaseStart();\n              return true;\n            }\n            if\n            (this._peek === $RBRACE) {\n              if (this._isInExpansionCase()) {\n                this._consumeExpansionCaseEnd();\n                return true;\n              }\n              if (this._isInExpansionForm()) {\n                this._consumeExpansionFormEnd();\n                return true;\n              }\n            }\n            return false;\n          }\n          /**\n           * @return {?}\n           *\n           * \nfunction _Tokenizer.prototype._getLocation = /**\n           * @return {?}\n           *\n           * \nfunction () {\n            return new ParseLocation(this._file, this._index, this._line, this._column);\n          }\n          /**\n           * @param\n           {?} start\n           * @param {?} end\n           * @return {?}\n           *\n           * \nfunction _Tokenizer.prototype._getSpan = /**\n           * \nfunction _Tokenizer.prototype._getSpan\n           *\n           * \nfunction (start, end) {\n            if (start ===\nvoid 0) {\n              start = this._getLocation();\n            }\n            if (end === void 0) {\n              end = this._getLocation();\n            }\n            return new\nParseSourceSpan(start, end);\n          }\n          /**\n           * @param {?} type\n           * @param {?} start\n           * @return {?}\n
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*^n  _Tokenizer.prototype._beginToken = /**^n   * @param {?} type^n   * @param {?=} start^n   * @return
{?}^n   *^n   function (type, start) {^n     if (start === void 0) { start = this._getLocation(); }^n
this._currentTokenStart = start;^n     this._currentTokenType = type;^n   };^n   /**^n   * @param {?} parts^n   *
@param {?=} end^n   * @return {?}^n   *^n   _Tokenizer.prototype._endToken = /**^n   * @param {?} parts^n
* @param {?=} end^n   * @return {?}^n   *^n   function (parts, end) {^n     if (end === void 0) { end =
this._getLocation(); }^n     var /** @type {?} */ token = new Token$1(this._currentTokenType, parts, new
ParseSourceSpan(this._currentTokenStart, end));^n     this.tokens.push(token);^n     this._currentTokenStart = /**
@type {?} */ ((null));^n     this._currentTokenType = /** @type {?} */ ((null));^n     return token;^n   };^n   /**^n
* @param {?} msg^n   * @param {?} span^n   * @return {?}^n   *^n   _Tokenizer.prototype._createError =
/**^n   * @param {?} msg^n   * @param {?} span^n   * @return {?}^n   *^n   function (msg, span) {^n     if
(this._isInExpansionForm()) {^n       msg += "\" (Do you have an unescaped \"\" in your template? Use \"\"{
'{' }\"\" to escape it.)\"";^n     }^n     var /** @type {?} */ error = new TokenError(msg, this._currentTokenType,
span);^n     this._currentTokenStart = /** @type {?} */ ((null));^n     this._currentTokenType = /** @type {?} */
((null));^n     return new _ControlFlowError(error);^n   };^n   /**^n   * @return {?}^n   *^n
_Tokenizer.prototype._advance = /**^n   * @return {?}^n   *^n   function () {^n     if (this._index >=
this._length) {^n       throw this._createError(_unexpectedCharacterErrorMsg($EOF), this._getSpan());^n     }^n
if (this._peek === $LF) {^n       this._line++;^n       this._column = 0;^n     }^n     else if (this._peek !==
$LF && this._peek !== $CR) {^n       this._column++;^n     }^n     this._index++;^n     this._peek =
this._index >= this._length ? $EOF : this._input.charCodeAtAt(this._index);^n     this._nextPeek =^n
this._index + 1 >= this._length ? $EOF : this._input.charCodeAtAt(this._index + 1);^n   };^n   /**^n   * @param {?}
charCode^n   * @return {?}^n   *^n   _Tokenizer.prototype._attemptCharCode = /**^n   * @param {?}
charCode^n   * @return {?}^n   *^n   function (charCode) {^n     if (this._peek === charCode) {^n
this._advance();^n     return true;^n   }^n     return false;^n   };^n   /**^n   * @param {?} charCode^n   *
@return {?}^n   *^n   _Tokenizer.prototype._attemptCharCodeCaseInsensitive = /**^n   * @param {?}
charCode^n   * @return {?}^n   *^n   function (charCode) {^n     if
(compareCharCodeCaseInsensitive(this._peek, charCode)) {^n       this._advance();^n       return true;^n     }^n
return false;^n   };^n   /**^n   * @param {?} charCode^n   * @return {?}^n   *^n
_Tokenizer.prototype._requireCharCode = /**^n   * @param {?} charCode^n   * @return {?}^n   *^n   function
(charCode) {^n     var /** @type {?} */ location = this._getLocation();^n     if
(!this._attemptCharCode(charCode)) {^n       throw this._createError(_unexpectedCharacterErrorMsg(this._peek),
this._getSpan(location, location));^n     }^n   };^n   /**^n   * @param {?} chars^n   * @return {?}^n   *^n
_Tokenizer.prototype._attemptStr = /**^n   * @param {?} chars^n   * @return {?}^n   *^n   function (chars) {^n
var /** @type {?} */ len = chars.length;^n     if (this._index + len > this._length) {^n       return false;^n
}^n     var /** @type {?} */ initialPosition = this._savePosition();^n     for (var /** @type {?} */ i = 0; i < len;
i++) {^n       if (!this._attemptCharCode(chars.charCodeAtAt(i))) {^n         // If attempting to parse the string
fails, we want to reset the parser^n         // to where it was before the attempt^n
this._restorePosition(initialPosition);^n         return false;^n       }^n     }^n     return true;^n   };^n   /**^n
* @param {?} chars^n   * @return {?}^n   *^n   _Tokenizer.prototype._attemptStrCaseInsensitive = /**^n   *
@param {?} chars^n   * @return {?}^n   *^n   function (chars) {^n     for (var /** @type {?} */ i = 0; i <
chars.length; i++) {^n       if (!this._attemptCharCodeCaseInsensitive(chars.charCodeAtAt(i))) {^n         return
false;^n       }^n     }^n     return true;^n   };^n   /**^n   * @param {?} chars^n   * @return {?}^n   *^n
_Tokenizer.prototype._requireStr = /**^n   * @param {?} chars^n   * @return {?}^n   *^n   function (chars) {^n
var /** @type {?} */ location = this._getLocation();^n     if (!this._attemptStr(chars)) {^n       throw
this._createError(_unexpectedCharacterErrorMsg(this._peek), this._getSpan(location));^n     }^n   };^n   /**^n
* @param {?} predicate^n   * @return {?}^n   *^n   _Tokenizer.prototype._attemptCharCodeUntilFn = /**^n   *
@param {?} predicate^n   * @return {?}^n   *^n   function (predicate) {^n     while (!predicate(this._peek)) {^n
this._advance();^n     }^n   };^n   /**^n   * @param {?} predicate^n   * @param {?} len^n   * @return
{?}^n   *^n   _Tokenizer.prototype._requireCharCodeUntilFn = /**^n   * @param {?} predicate^n   * @param

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{?} len\n * @return {?}\n */\n function (predicate, len) {\n     var /** @type {?} */ start =
this._getLocation();\n     this._attemptCharCodeUntilFn(predicate);\n     if (this._index - start.offset < len) {\n
    throw this._createError(_unexpectedCharacterErrorMsg(this._peek), this._getSpan(start, start));\n     }\n }\n
/**\n * @param {?} char\n * @return {?}\n */\n _Tokenizer.prototype._attemptUntilChar = /**\n *
@param {?} char\n * @return {?}\n */\n function (char) {\n     while (this._peek !== char) {\n
this._advance();\n     }\n }\n /**\n * @param {?} decodeEntities\n * @return {?}\n */\n
_Tokenizer.prototype._readChar = /**\n * @param {?} decodeEntities\n * @return {?}\n */\n function
(decodeEntities) {\n     if (decodeEntities && this._peek === $AMPERSAND) {\n         return
this._decodeEntity();\n     }\n     else {\n         var /** @type {?} */ index = this._index;\n
this._advance();\n         return this._input[index];\n     }\n }\n /**\n * @return {?}\n */\n
_Tokenizer.prototype._decodeEntity = /**\n * @return {?}\n */\n function () {\n     var /** @type {?} */
start = this._getLocation();\n     this._advance();\n     if (this._attemptCharCode($HASH)) {\n         var /**
@type {?} */ isHex = this._attemptCharCode($x) || this._attemptCharCode($X);\n         var /** @type {?} */
numberStart = this._getLocation().offset;\n         this._attemptCharCodeUntilFn(isDigitEntityEnd);\n         if
(this._peek !== $SEMICOLON) {\n             throw this._createError(_unexpectedCharacterErrorMsg(this._peek),
this._getSpan());\n         }\n         this._advance();\n         var /** @type {?} */ strNum =
this._input.substring(numberStart, this._index - 1);\n         try {\n             var /** @type {?} */ charCode =
parseInt(strNum, isHex ? 16 : 10);\n             return String.fromCharCode(charCode);\n         }\n         catch (**
@type {?} */ e) {\n             var /** @type {?} */ entity = this._input.substring(start.offset + 1, this._index - 1);\n
throw this._createError(_unknownEntityErrorMsg(entity), this._getSpan(start));\n         }\n     }\n     else
{\n         var /** @type {?} */ startPosition = this._savePosition();\n
this._attemptCharCodeUntilFn(isNamedEntityEnd);\n         if (this._peek !== $SEMICOLON) {\n
this._restorePosition(startPosition);\n             return '&';\n         }\n         this._advance();\n         var /**
@type {?} */ name_1 = this._input.substring(start.offset + 1, this._index - 1);\n         var /** @type {?} */ char =
NAMED_ENTITIES[name_1];\n         if (!char) {\n             throw
this._createError(_unknownEntityErrorMsg(name_1), this._getSpan(start));\n         }\n         return char;\n
}\n }\n /**\n * @param {?} decodeEntities\n * @param {?} firstCharOfEnd\n * @param {?}
attemptEndRest\n * @return {?}\n */\n _Tokenizer.prototype._consumeRawText = /**\n * @param {?}
decodeEntities\n * @param {?} firstCharOfEnd\n * @param {?} attemptEndRest\n * @return {?}\n */\n
function (decodeEntities, firstCharOfEnd, attemptEndRest) {\n     var /** @type {?} */ tagCloseStart;\n     var
/** @type {?} */ textStart = this._getLocation();\n     this._beginToken(decodeEntities ?
TokenType$1.ESCAPABLE_RAW_TEXT : TokenType$1.RAW_TEXT, textStart);\n     var /** @type {?} */
parts = [];\n     while (true) {\n         tagCloseStart = this._getLocation();\n         if
(this._attemptCharCode(firstCharOfEnd) && attemptEndRest()) {\n             break;\n         }\n         if
(this._index > tagCloseStart.offset) {\n             // add the characters consumed by the previous if statement to the
output\n             parts.push(this._input.substring(tagCloseStart.offset, this._index));\n         }\n         while
(this._peek !== firstCharOfEnd) {\n             parts.push(this._readChar(decodeEntities));\n         }\n     }\n
return this._endToken([this._processCarriageReturns(parts.join(""))], tagCloseStart);\n }\n /**\n * @param
{?} start\n * @return {?}\n */\n _Tokenizer.prototype._consumeComment = /**\n * @param {?} start\n
* @return {?}\n */\n function (start) {\n     var _this = this;\n
this._beginToken(TokenType$1.COMMENT_START, start);\n     this._requireCharCode($MINUS);\n
this._endToken([]);\n     var /** @type {?} */ textToken = this._consumeRawText(false, $MINUS, function () {\n
return _this._attemptStr('->');\n     });\n     this._beginToken(TokenType$1.COMMENT_END,
textToken.sourceSpan.end);\n     this._endToken([]);\n }\n /**\n * @param {?} start\n * @return {?}\n
*/\n _Tokenizer.prototype._consumeCdata = /**\n * @param {?} start\n * @return {?}\n */\n
function (start) {\n     var _this = this;\n     this._beginToken(TokenType$1.CDATA_START, start);\n
this._requireStr('CDATA[');\n     this._endToken([]);\n     var /** @type {?} */ textToken =
this._consumeRawText(false, $RBACKET, function () {\n         return _this._attemptStr(']>');\n     });\n

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this._beginToken(TokenType$1.CDATA_END, textToken.sourceSpan.end);\n    this._endToken([]);\n    };\n
/**\n * @param {?} start\n * @return {?}\n */\n _Tokenizer.prototype._consumeDocType = /**\n *
@param {?} start\n * @return {?}\n */\n function (start) {\n
this._beginToken(TokenType$1.DOC_TYPE, start);\n    this._attemptUntilChar($GT);\n    this._advance();\n
    this._endToken([this._input.substring(start.offset + 2, this._index - 1)];\n    ];\n    /**\n    * @return {?}\n    */\n    _Tokenizer.prototype._consumePrefixAndName = /**\n    * @return {?}\n    */\n    function () {\n        var /**
    * @type {?} */ nameOrPrefixStart = this._index;\n        var /** @type {?} */ prefix = /** @type {?} */ ((null));\n
        while (this._peek !== $COLON && !isPrefixEnd(this._peek)) {\n            this._advance();\n        }\n        var /**
    * @type {?} */ nameStart;\n        if (this._peek === $COLON) {\n            this._advance();\n            prefix =
this._input.substring(nameOrPrefixStart, this._index - 1);\n            nameStart = this._index;\n        }\n        else {\n
            nameStart = nameOrPrefixStart;\n        }\n        this._requireCharCodeUntilFn(isNameEnd, this._index ===
nameStart ? 1 : 0);\n        var /** @type {?} */ name = this._input.substring(nameStart, this._index);\n        return
[prefix, name];\n    };\n    /**\n    * @param {?} start\n    * @return {?}\n    */\n    _Tokenizer.prototype._consumeTagOpen = /**\n    * @param {?} start\n    * @return {?}\n    */\n    function
(start) {\n        var /** @type {?} */ savedPos = this._savePosition();\n        var /** @type {?} */ tagName;\n
        var /** @type {?} */ lowercaseTagName;\n        try {\n            if (!isAsciiLetter(this._peek)) {\n                throw
this._createError(_unexpectedCharacterErrorMsg(this._peek), this._getSpan());\n            }\n            var /** @type
{?} */ nameStart = this._index;\n            this._consumeTagOpenStart(start);\n            tagName =
this._input.substring(nameStart, this._index);\n            lowercaseTagName = tagName.toLowerCase();\n
            this._attemptCharCodeUntilFn(isNotWhitespace);\n            while (this._peek !== $SLASH && this._peek !== $GT)
{\n                this._consumeAttributeName();\n                this._attemptCharCodeUntilFn(isNotWhitespace);\n
                if (this._attemptCharCode($EQ)) {\n                    this._attemptCharCodeUntilFn(isNotWhitespace);\n
                    this._consumeAttributeValue();\n                }\n                this._attemptCharCodeUntilFn(isNotWhitespace);\n
            }\n            this._consumeTagOpenEnd();\n        }\n        catch (** @type {?} */ e) {\n            if (e instanceof
_ControlFlowError) {\n                // When the start tag is invalid, assume we want a "<"\n
                this._restorePosition(savedPos);\n                // Back to back text tokens are merged at the end\n
                this._beginToken(TokenType$1.TEXT, start);\n                this._endToken(['<']);\n                return;\n            }\n
            throw e;\n        }\n        var /** @type {?} */ contentTokenType = this._getTagDefinition(tagName).contentType;\n
        if (contentTokenType === TagContentType.RAW_TEXT) {\n
            this._consumeRawTextWithTagClose(lowercaseTagName, false);\n        }\n        else if (contentTokenType ===
TagContentType.ESCAPABLE_RAW_TEXT) {\n
            this._consumeRawTextWithTagClose(lowercaseTagName, true);\n        }\n    };\n    /**\n    * @param {?}
lowercaseTagName\n    * @param {?} decodeEntities\n    * @return {?}\n    */\n    _Tokenizer.prototype._consumeRawTextWithTagClose = /**\n    * @param {?} lowercaseTagName\n    *
@param {?} decodeEntities\n    * @return {?}\n    */\n    function (lowercaseTagName, decodeEntities) {\n
        var _this = this;\n        var /** @type {?} */ textToken = this._consumeRawText(decodeEntities, $LT, function ()
{\n            if (!_this._attemptCharCode($SLASH))\n                return false;\n
            _this._attemptCharCodeUntilFn(isNotWhitespace);\n            if
(!_this._attemptStrCaseInsensitive(lowercaseTagName))\n                return false;\n
            _this._attemptCharCodeUntilFn(isNotWhitespace);\n            return _this._attemptCharCode($GT);\n        });\n
        this._beginToken(TokenType$1.TAG_CLOSE, textToken.sourceSpan.end);\n        this._endToken([/** @type {?} */
*/ ((null)), lowercaseTagName]);\n    };\n    /**\n    * @param {?} start\n    * @return {?}\n    */\n    _Tokenizer.prototype._consumeTagOpenStart = /**\n    * @param {?} start\n    * @return {?}\n    */\n    function
(start) {\n        this._beginToken(TokenType$1.TAG_OPEN_START, start);\n        var /** @type {?} */ parts =
this._consumePrefixAndName();\n        this._endToken(parts);\n    };\n    /**\n    * @return {?}\n    */\n    _Tokenizer.prototype._consumeAttributeName = /**\n    * @return {?}\n    */\n    function () {\n
        this._beginToken(TokenType$1.ATTR_NAME);\n        var /** @type {?} */ prefixAndName =
this._consumePrefixAndName();\n        this._endToken(prefixAndName);\n    };\n    /**\n    * @return {?}\n    */\n

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    _Tokenizer.prototype._consumeAttributeValue = /**\n * @return {?}\n */\n function () {\n
this._beginToken(TokenType$1.ATTR_VALUE);\n var /** @type {?} */ value;\n if (this._peek === $SQ
|| this._peek === $DQ) {\n var /** @type {?} */ quoteChar = this._peek;\n this._advance();\n
var /** @type {?} */ parts = [];\n while (this._peek !== quoteChar) {\n
parts.push(this._readChar(true));\n }\n value = parts.join("");\n this._advance();\n }\n
else {\n var /** @type {?} */ valueStart = this._index;\n this._requireCharCodeUntilFn(isNameEnd,
1);\n value = this._input.substring(valueStart, this._index);\n }\n
this._endToken([this._processCarriageReturns(value)];\n );\n /**\n * @return {?}\n */\n
_Tokenizer.prototype._consumeTagOpenEnd = /**\n * @return {?}\n */\n function () {\n var /** @type
{?} */ tokenType = this._attemptCharCode($SLASH) ? TokenType$1.TAG_OPEN_END_VOID :
TokenType$1.TAG_OPEN_END;\n this._beginToken(tokenType);\n this._requireCharCode($GT);\n
this._endToken([]);\n }; \n /**\n * @param {?} start\n * @return {?}\n */\n
_Tokenizer.prototype._consumeTagClose = /**\n * @param {?} start\n * @return {?}\n */\n function
(start) {\n this._beginToken(TokenType$1.TAG_CLOSE, start);\n
this._attemptCharCodeUntilFn(isNotWhitespace);\n var /** @type {?} */ prefixAndName =
this._consumePrefixAndName();\n this._attemptCharCodeUntilFn(isNotWhitespace);\n
this._requireCharCode($GT);\n this._endToken(prefixAndName);\n }; \n /**\n * @return {?}\n */\n
_Tokenizer.prototype._consumeExpansionFormStart = /**\n * @return {?}\n */\n function () {\n
this._beginToken(TokenType$1.EXPANSION_FORM_START, this._getLocation());\n
this._requireCharCode($LBRACE);\n this._endToken([]);\n
this._expansionCaseStack.push(TokenType$1.EXPANSION_FORM_START);\n
this._beginToken(TokenType$1.RAW_TEXT, this._getLocation());\n var /** @type {?} */ condition =
this._readUntil($COMMA);\n this._endToken([condition], this._getLocation());\n
this._requireCharCode($COMMA);\n this._attemptCharCodeUntilFn(isNotWhitespace);\n
this._beginToken(TokenType$1.RAW_TEXT, this._getLocation());\n var /** @type {?} */ type =
this._readUntil($COMMA);\n this._endToken([type], this._getLocation());\n
this._requireCharCode($COMMA);\n this._attemptCharCodeUntilFn(isNotWhitespace);\n }; \n /**\n *
@return {?}\n */\n _Tokenizer.prototype._consumeExpansionCaseStart = /**\n * @return {?}\n */\n
function () {\n this._beginToken(TokenType$1.EXPANSION_CASE_VALUE, this._getLocation());\n var
/** @type {?} */ value = this._readUntil($LBRACE).trim();\n this._endToken([value], this._getLocation());\n
this._attemptCharCodeUntilFn(isNotWhitespace);\n
this._beginToken(TokenType$1.EXPANSION_CASE_EXP_START, this._getLocation());\n
this._requireCharCode($LBRACE);\n this._endToken([], this._getLocation());\n
this._attemptCharCodeUntilFn(isNotWhitespace);\n
this._expansionCaseStack.push(TokenType$1.EXPANSION_CASE_EXP_START);\n }; \n /**\n * @return
{?}\n */\n _Tokenizer.prototype._consumeExpansionCaseEnd = /**\n * @return {?}\n */\n function ()
{\n this._beginToken(TokenType$1.EXPANSION_CASE_EXP_END, this._getLocation());\n
this._requireCharCode($RBRACE);\n this._endToken([], this._getLocation());\n
this._attemptCharCodeUntilFn(isNotWhitespace);\n this._expansionCaseStack.pop();\n }; \n /**\n *
@return {?}\n */\n _Tokenizer.prototype._consumeExpansionFormEnd = /**\n * @return {?}\n */\n
function () {\n this._beginToken(TokenType$1.EXPANSION_FORM_END, this._getLocation());\n
this._requireCharCode($RBRACE);\n this._endToken([]);\n this._expansionCaseStack.pop();\n }; \n
/**\n * @return {?}\n */\n _Tokenizer.prototype._consumeText = /**\n * @return {?}\n */\n function
() {\n var /** @type {?} */ start = this._getLocation();\n this._beginToken(TokenType$1.TEXT, start);\n
var /** @type {?} */ parts = [];\n do {\n if (this._interpolationConfig &&
this._attemptStr(this._interpolationConfig.start)) {\n parts.push(this._interpolationConfig.start);\n
this._inInterpolation = true;\n }\n else if (this._interpolationConfig && this._inInterpolation &&\n
this._attemptStr(this._interpolationConfig.end)) {\n parts.push(this._interpolationConfig.end);\n

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    this._inInterpolation = false;\n        }\n        else {\n            parts.push(this._readChar(true));\n        }\n    } while (!this._isTextEnd());\n    this._endToken([this._processCarriageReturns(parts.join(""))]);\n    };\n    /**\n * @return {?}\n */\n    _Tokenizer.prototype._isTextEnd = /**\n * @return {?}\n */\n    function () {\n    if (this._peek === $LT || this._peek === $EOF) {\n        return true;\n    }\n    if (this._tokenizeIcu &&\n    !this._inInterpolation) {\n        if (isExpansionFormStart(this._input, this._index, this._interpolationConfig)) {\n            // start of an expansion form\n            return true;\n        }\n        if (this._peek === $RBRACE &&\n        this._isInExpansionCase()) {\n            // end of and expansion case\n            return true;\n        }\n    }\n    return false;\n    };\n    /**\n * @return {?}\n */\n    _Tokenizer.prototype._savePosition = /**\n * @return {?}\n */\n    function () {\n        return [this._peek, this._index, this._column, this._line, this.tokens.length];\n    };\n    /**\n * @param {?} char\n * @return {?}\n */\n    _Tokenizer.prototype._readUntil = /**\n * @param {?} char\n * @return {?}\n */\n    function (char) {\n        var /** @type {?} */ start = this._index;\n        this._attemptUntilChar(char);\n        return this._input.substring(start, this._index);\n    };\n    /**\n * @param {?} position\n * @return {?}\n */\n    _Tokenizer.prototype._restorePosition = /**\n * @param {?} position\n * @return {?}\n */\n    function (position) {\n        this._peek = position[0];\n        this._index = position[1];\n        this._column = position[2];\n        this._line = position[3];\n        var /** @type {?} */ nbTokens = position[4];\n        if (nbTokens < this.tokens.length) {\n            // remove any extra tokens\n            this.tokens = this.tokens.slice(0, nbTokens);\n        }\n    };\n    /**\n * @return {?}\n */\n    _Tokenizer.prototype._isInExpansionCase = /**\n * @return {?}\n */\n    function () {\n        return this._expansionCaseStack.length > 0 &&\n        this._expansionCaseStack[this._expansionCaseStack.length - 1] ===\n        TokenType$.EXPANSION_CASE_EXP_START;\n    };\n    /**\n * @return {?}\n */\n    _Tokenizer.prototype._isInExpansionForm = /**\n * @return {?}\n */\n    function () {\n        return this._expansionCaseStack.length > 0 &&\n        this._expansionCaseStack[this._expansionCaseStack.length - 1] ===\n        TokenType$.EXPANSION_FORM_START;\n    };\n    return _Tokenizer;\n})();\n\n/**\n * @param {?} code\n * @return {?}\n */\nfunction isNotWhitespace(code) {\n    return !isWhitespace(code) || code === $EOF;\n}\n\n/**\n * @param {?} code\n * @return {?}\n */\nfunction isNameEnd(code) {\n    return isWhitespace(code) || code === $GT || code === $SLASH ||\n    code === $SQ || code === $DQ || code === $EQ;\n}\n\n/**\n * @param {?} code\n * @return {?}\n */\nfunction isPrefixEnd(code) {\n    return (code < $a || $z < code) &&\n    (code < $A || $Z < code) &&\n    (code < $0 || code > $9);\n}\n\n/**\n * @param {?} code\n * @return {?}\n */\nfunction isDigitEntityEnd(code) {\n    return code === $SEMICOLON || code === $EOF ||\n    !isAsciiHexDigit(code);\n}\n\n/**\n * @param {?} code\n * @return {?}\n */\nfunction isNamedEntityEnd(code) {\n    return code === $SEMICOLON || code === $EOF || !isAsciiLetter(code);\n}\n\n/**\n * @param {?} input\n * @param {?} offset\n * @param {?} interpolationConfig\n * @return {?}\n */\nfunction isExpansionFormStart(input, offset, interpolationConfig) {\n    var /** @type {?} */ isInterpolationStart = interpolationConfig ?\n    input.indexOf(interpolationConfig.start, offset) === offset : false;\n    return input.charCodeAtAt(offset) === $LBRACE &&\n    !isInterpolationStart;\n}\n\n/**\n * @param {?} peek\n * @return {?}\n */\nfunction isExpansionCaseStart(peek) {\n    return peek === $EQ || isAsciiLetter(peek) || isDigit(peek);\n}\n\n/**\n * @param {?} code1\n * @param {?} code2\n * @return {?}\n */\nfunction compareCharCodeCaseInsensitive(code1, code2) {\n    return toUpperCaseCharCode(code1) === toUpperCaseCharCode(code2);\n}\n\n/**\n * @param {?} code\n * @return {?}\n */\nfunction toUpperCaseCharCode(code) {\n    return code >= $a && code <= $z ? code - $a + $A : code;\n}\n\n/**\n * @param {?} srcTokens\n * @return {?}\n */\nfunction mergeTextTokens(srcTokens) {\n    var /** @type {?} */ dstTokens = [];\n    var /** @type {?} */ lastDstToken = undefined;\n    for (var /** @type {?} */ i = 0; i < srcTokens.length; i++) {\n        var /** @type {?} */ token = srcTokens[i];\n        if (lastDstToken &&\n        lastDstToken.type === TokenType$.TEXT && token.type === TokenType$.TEXT) {\n            lastDstToken.parts[0] += token.parts[0];\n            lastDstToken.sourceSpan.end = token.sourceSpan.end;\n        }\n        else {\n            lastDstToken = token;\n            dstTokens.push(lastDstToken);\n        }\n    }\n    return dstTokens;\n}\n\n/**\n * @fileoverview added by tsickle\n * @suppress {checkTypes} checked by tsc\n */\n\n/**\n * Copyright Google Inc. All Rights Reserved.\n * Use of this source code is governed by an MIT-style license that can be\n * found in the LICENSE file at https://angular.io/license\n */\n\nvar TreeError = /** @class

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*/ (function (_super) {\n  __extends(TreeError, _super);\n  function TreeError(elementName, span, msg) {\n
var _this = _super.call(this, span, msg) || this;\n    _this.elementName = elementName;\n    return _this;\n  }\n
/**\n   * @param {?} elementName\n   * @param {?} span\n   * @param {?} msg\n   * @return {?} \n   */\n
TreeError.create = /**\n   * @param {?} elementName\n   * @param {?} span\n   * @param {?} msg\n   *
@return {?} \n   */\n   function (elementName, span, msg) {\n    return new TreeError(elementName, span,
msg);\n  };\n  return TreeError;\n})(ParseError);\nvar ParseTreeResult = /** @class */ (function () {\n  function
ParseTreeResult(rootNodes, errors) {\n    this.rootNodes = rootNodes;\n    this.errors = errors;\n  }\n  return
ParseTreeResult;\n})();\nvar Parser$1 = /** @class */ (function () {\n  function Parser(getTagDefinition) {\n
this.getTagDefinition = getTagDefinition;\n  }\n  /**\n   * @param {?} source\n   * @param {?} url\n   *
@param {?=} parseExpansionForms\n   * @param {?=} interpolationConfig\n   * @return {?} \n   */\n
Parser.prototype.parse = /**\n   * @param {?} source\n   * @param {?} url\n   * @param {?=}
parseExpansionForms\n   * @param {?=} interpolationConfig\n   * @return {?} \n   */\n   function (source, url,
parseExpansionForms, interpolationConfig) {\n    if (parseExpansionForms === void 0) { parseExpansionForms
= false; }\n    if (interpolationConfig === void 0) { interpolationConfig =
DEFAULT_INTERPOLATION_CONFIG; }\n    var /** @type {?} */ tokensAndErrors = tokenize(source, url,
this.getTagDefinition, parseExpansionForms, interpolationConfig);\n    var /** @type {?} */ treeAndErrors =
new _TreeBuilder(tokensAndErrors.tokens, this.getTagDefinition).build();\n    return new
ParseTreeResult(treeAndErrors.rootNodes, (/** @type {?} */
(tokensAndErrors.errors)).concat(treeAndErrors.errors));\n  };\n  return Parser;\n})();\nvar _TreeBuilder = /**
@class */ (function () {\n  function _TreeBuilder(tokens, getTagDefinition) {\n    this.tokens = tokens;\n
this.getTagDefinition = getTagDefinition;\n    this._index = -1;\n    this._rootNodes = [];\n    this._errors =
[];\n    this._elementStack = [];\n    this._advance();\n  }\n  /**\n   * @return {?} \n   */\n
_TreeBuilder.prototype.build = /**\n   * @return {?} \n   */\n   function () {\n    while (this._peek.type !==
TokenType$1.EOF) {\n      if (this._peek.type === TokenType$1.TAG_OPEN_START) {\n
this._consumeStartTag(this._advance());\n      }\n      else if (this._peek.type ===
TokenType$1.TAG_CLOSE) {\n        this._consumeEndTag(this._advance());\n      }\n      else if
(this._peek.type === TokenType$1.CDATA_START) {\n        this._closeVoidElement();\n
this._consumeCdata(this._advance());\n      }\n      else if (this._peek.type ===
TokenType$1.COMMENT_START) {\n        this._closeVoidElement();\n
this._consumeComment(this._advance());\n      }\n      else if (this._peek.type === TokenType$1.TEXT ||
this._peek.type === TokenType$1.RAW_TEXT ||\n      TokenType$1.ESCAPABLE_RAW_TEXT) {\n        this._closeVoidElement();\n
this._consumeText(this._advance());\n      }\n      else if (this._peek.type ===
TokenType$1.EXPANSION_FORM_START) {\n        this._consumeExpansion(this._advance());\n      }\n
      else {\n        // Skip all other tokens...\n        this._advance();\n      }\n    }\n    return new
ParseTreeResult(this._rootNodes, this._errors);\n  };\n  /**\n   * @return {?} \n   */\n
_TreeBuilder.prototype._advance = /**\n   * @return {?} \n   */\n   function () {\n    var /** @type {?} */ prev
= this._peek;\n    if (this._index < this.tokens.length - 1) {\n      // Note: there is always an EOF token at the
end\n      this._index++;\n    }\n    this._peek = this.tokens[this._index];\n    return prev;\n  };\n  /**\n
   * @param {?} type\n   * @return {?} \n   */\n
_TreeBuilder.prototype._advanceIf = /**\n   * @param {?}
type\n   * @return {?} \n   */\n   function (type) {\n    if (this._peek.type === type) {\n      return
this._advance();\n    }\n    return null;\n  };\n  /**\n   * @param {?} startToken\n   * @return {?} \n   */\n
_TreeBuilder.prototype._consumeCdata = /**\n   * @param {?} startToken\n   * @return {?} \n   */\n   function
(startToken) {\n    this._consumeText(this._advance());\n    this._advanceIf(TokenType$1.CDATA_END);\n
  };\n  /**\n   * @param {?} token\n   * @return {?} \n   */\n
_TreeBuilder.prototype._consumeComment =
/**\n   * @param {?} token\n   * @return {?} \n   */\n   function (token) {\n    var /** @type {?} */ text =
this._advanceIf(TokenType$1.RAW_TEXT);\n    this._advanceIf(TokenType$1.COMMENT_END);\n    var
/** @type {?} */ value = text != null ? text.parts[0].trim() : null;\n    this._addToParent(new Comment(value,

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token.sourceSpan));\n  };\n  /**\n   * @param {?} token\n   * @return {?}\n   */\n  _TreeBuilder.prototype._consumeExpansion = /**\n   * @param {?} token\n   * @return {?}\n   */\n   function (token) {\n    var /** @type {?} */ switchValue = this._advance();\n    var /** @type {?} */ type = this._advance();\n    var /** @type {?} */ cases = [];\n    // read =\n    while (this._peek.type === TokenType$1.EXPANSION_CASE_VALUE) {\n      var /** @type {?} */ expCase = this._parseExpansionCase();\n      if (!expCase)\n        return; // error\n      cases.push(expCase);\n    }\n    // read the final }\n    if (this._peek.type !== TokenType$1.EXPANSION_FORM_END) {\n      this._errors.push(TreeError.create(null, this._peek.sourceSpan, "Invalid ICU message. Missing '}'.")); \n    }\n    return;\n  }\n  var /** @type {?} */ sourceSpan = new ParseSourceSpan(token.sourceSpan.start, this._peek.sourceSpan.end);\n  this._addToParent(new Expansion(switchValue.parts[0], type.parts[0], cases, sourceSpan, switchValue.sourceSpan));\n  this._advance();\n  };\n  /**\n   * @return {?}\n   */\n  _TreeBuilder.prototype._parseExpansionCase = /**\n   * @return {?}\n   */\n   function () {\n    var /** @type {?} */ value = this._advance();\n    // read {\n    if (this._peek.type !== TokenType$1.EXPANSION_CASE_EXP_START) {\n      this._errors.push(TreeError.create(null, this._peek.sourceSpan, "Invalid ICU message. Missing '{'.")); \n      return null;\n    }\n    // read until }\n    var /** @type {?} */ start = this._advance();\n    var /** @type {?} */ exp = this._collectExpansionExpTokens(start);\n    if (!exp)\n      return null;\n    var /** @type {?} */ end = this._advance();\n    exp.push(new Token$1(TokenType$1.EOF, [], end.sourceSpan));\n    // parse everything in between { and }\n    var /** @type {?} */ parsedExp = new _TreeBuilder(exp, this.getTagDefinition()).build();\n    if (parsedExp.errors.length > 0) {\n      this._errors = this._errors.concat(/** @type {?} */ (parsedExp.errors));\n      return null;\n    }\n    var /** @type {?} */ sourceSpan = new ParseSourceSpan(value.sourceSpan.start, end.sourceSpan.end);\n    var /** @type {?} */ expSourceSpan = new ParseSourceSpan(start.sourceSpan.start, end.sourceSpan.end);\n    return new ExpansionCase(value.parts[0], parsedExp.rootNodes, sourceSpan, value.sourceSpan, expSourceSpan);\n  };\n  /**\n   * @param {?} start\n   * @return {?}\n   */\n  _TreeBuilder.prototype._collectExpansionExpTokens = /**\n   * @param {?} start\n   * @return {?}\n   */\n   function (start) {\n    var /** @type {?} */ exp = [];\n    var /** @type {?} */ expansionFormStack = [TokenType$1.EXPANSION_CASE_EXP_START];\n    while (true) {\n      if (this._peek.type === TokenType$1.EXPANSION_FORM_START ||\n        this._peek.type === TokenType$1.EXPANSION_CASE_EXP_START) {\n        expansionFormStack.push(this._peek.type);\n      }\n      if (this._peek.type === TokenType$1.EXPANSION_CASE_EXP_END) {\n        if (lastOnStack(expansionFormStack, TokenType$1.EXPANSION_CASE_EXP_START)) {\n          expansionFormStack.pop();\n          if (expansionFormStack.length === 0)\n            return exp;\n        }\n        else {\n          this._errors.push(TreeError.create(null, start.sourceSpan, "Invalid ICU message. Missing '}'.")); \n          return null;\n        }\n      }\n      if (this._peek.type === TokenType$1.EXPANSION_FORM_END) {\n        if (lastOnStack(expansionFormStack, TokenType$1.EXPANSION_FORM_START)) {\n          expansionFormStack.pop();\n        }\n        else {\n          this._errors.push(TreeError.create(null, start.sourceSpan, "Invalid ICU message. Missing '}'.")); \n          return null;\n        }\n      }\n      if (this._peek.type === TokenType$1.EOF) {\n        this._errors.push(TreeError.create(null, start.sourceSpan, "Invalid ICU message. Missing '}'.")); \n        return null;\n      }\n      exp.push(this._advance());\n    }\n  };\n  /**\n   * @param {?} token\n   * @return {?}\n   */\n  _TreeBuilder.prototype._consumeText = /**\n   * @param {?} token\n   * @return {?}\n   */\n   function (token) {\n    var /** @type {?} */ text = token.parts[0];\n    if (text.length > 0 && text[0] === '\\n') {\n      var /** @type {?} */ parent_1 = this._getParentElement();\n      if (parent_1 != null && parent_1.children.length === 0 &&\n        this.getTagDefinition(parent_1.name).ignoreFirstLf) {\n        text = text.substring(1);\n      }\n    }\n    if (text.length > 0) {\n      this._addToParent(new Text(text, token.sourceSpan));\n    }\n  };\n  /**\n   * @return {?}\n   */\n  _TreeBuilder.prototype._closeVoidElement = /**\n   * @return {?}\n   */\n   function () {\n    var /** @type {?} */ el = this._getParentElement();\n    if (el && this.getTagDefinition(el.name).isVoid) {\n      this._elementStack.pop();\n    }\n  };\n  /**\n   *

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@param {?} startTagToken\n * @return {?}\n *^\n _TreeBuilder.prototype._consumeStartTag = /**\n *
@param {?} startTagToken\n * @return {?}\n *^\n function (startTagToken) {\n var /** @type {?} */
prefix = startTagToken.parts[0];\n var /** @type {?} */ name = startTagToken.parts[1];\n var /** @type
{?} */ attrs = [];\n while (this._peek.type === TokenType$1.ATTR_NAME) {\n
attrs.push(this._consumeAttr(this._advance()));\n }\n var /** @type {?} */ fullName =
this._getElementFullName(prefix, name, this._getParentElement());\n var /** @type {?} */ selfClosing =
false;\n // Note: There could have been a tokenizer error\n // so that we don't get a token for the end tag...\n
if (this._peek.type === TokenType$1.TAG_OPEN_END_VOID) {\n this._advance();\n selfClosing
= true;\n var /** @type {?} */ tagDef = this.getTagDefinition(fullName);\n if (!(tagDef.canSelfClose ||
getNsPrefix(fullName) !== null || tagDef.isVoid)) {\n this._errors.push(TreeError.create(fullName,
startTagToken.sourceSpan, "Only void and foreign elements can be self closed \\\"\\\"" + startTagToken.parts[1] +
"\\\"\\\""));}\n }\n else if (this._peek.type === TokenType$1.TAG_OPEN_END) {\n
this._advance();\n selfClosing = false;\n }\n var /** @type {?} */ end =
this._peek.sourceSpan.start;\n var /** @type {?} */ span = new
ParseSourceSpan(startTagToken.sourceSpan.start, end);\n var /** @type {?} */ el = new Element(fullName,
attrs, [], span, span, undefined);\n this._pushElement(el);\n if (selfClosing) {\n
this._popElement(fullName);\n el.endSourceSpan = span;\n }\n };\n /**\n * @param {?} el\n *
@return {?}\n *^\n _TreeBuilder.prototype._pushElement = /**\n * @param {?} el\n * @return {?}\n
*^\n function (el) {\n var /** @type {?} */ parentEl = this._getParentElement();\n if (parentEl &&
this.getTagDefinition(parentEl.name).isClosedByChild(el.name)) {\n this._elementStack.pop();\n }\n
var /** @type {?} */ tagDef = this.getTagDefinition(el.name);\n var _a =
this._getParentElementSkippingContainers(), parent = _a.parent, container = _a.container;\n if (parent &&
tagDef.requireExtraParent(parent.name)) {\n var /** @type {?} */ newParent = new
Element(tagDef.parentToAdd, [], [], el.sourceSpan, el.startSourceSpan, el.endSourceSpan);\n
this._insertBeforeContainer(parent, container, newParent);\n }\n this._addToParent(el);\n
this._elementStack.push(el);\n };\n /**\n * @param {?} endTagToken\n * @return {?}\n *^\n
_TreeBuilder.prototype._consumeEndTag = /**\n * @param {?} endTagToken\n * @return {?}\n *^\n
function (endTagToken) {\n var /** @type {?} */ fullName =
this._getElementFullName(endTagToken.parts[0], endTagToken.parts[1], this._getParentElement());\n if
(this._getParentElement()) {\n /** @type {?} */ ((this._getParentElement()).endSourceSpan =
endTagToken.sourceSpan;\n }\n if (this.getTagDefinition(fullName).isVoid) {\n
this._errors.push(TreeError.create(fullName, endTagToken.sourceSpan, "Void elements do not have end tags \\\"\\\""
+ endTagToken.parts[1] + "\\\"\\\""));}\n }\n else if (!this._popElement(fullName)) {\n var /** @type
{?} */ errMsg = "Unexpected closing tag \\\"\\\"" + fullName + "\\\"\\\". It may happen when the tag has already been
closed by another tag. For more info see https://www.w3.org/TR/html5/syntax.html#closing-elements-that-have-
implied-end-tags";\n this._errors.push(TreeError.create(fullName, endTagToken.sourceSpan, errMsg));\n
}\n };\n /**\n * @param {?} fullName\n * @return {?}\n *^\n _TreeBuilder.prototype._popElement =
/**\n * @param {?} fullName\n * @return {?}\n *^\n function (fullName) {\n for (var /** @type {?} */
stackIndex = this._elementStack.length - 1; stackIndex >= 0; stackIndex--) {\n var /** @type {?} */ el =
this._elementStack[stackIndex];\n if (el.name === fullName) {\n
this._elementStack.splice(stackIndex, this._elementStack.length - stackIndex);\n return true;\n }\n
if (!this.getTagDefinition(el.name).closedByParent) {\n return false;\n }\n }\n return
false;\n };\n /**\n * @param {?} attrName\n * @return {?}\n *^\n
_TreeBuilder.prototype._consumeAttr = /**\n * @param {?} attrName\n * @return {?}\n *^\n function
(attrName) {\n var /** @type {?} */ fullName = mergeNsAndName(attrName.parts[0], attrName.parts[1]);\n
var /** @type {?} */ end = attrName.sourceSpan.end;\n var /** @type {?} */ value = "";\n var /** @type
{?} */ valueSpan = /** @type {?} */ ((undefined));\n if (this._peek.type === TokenType$1.ATTR_VALUE)
{\n var /** @type {?} */ valueToken = this._advance();\n value = valueToken.parts[0];\n end =

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valueToken.sourceSpan.end;\n      valueSpan = valueToken.sourceSpan;\n    }\n    return new
Attribute$1(fullName, value, new ParseSourceSpan(attrName.sourceSpan.start, end), valueSpan);\n  };\n  /**\n * @return {?} \n * \n _TreeBuilder.prototype._getParentElement = /**\n * @return {?} \n * \n function ()
{\n    return this._elementStack.length > 0 ? this._elementStack[this._elementStack.length - 1] : null;\n  };\n  /**\n * Returns the parent in the DOM and the container.\n * \n * `<ng-container>` elements are skipped as
they are not rendered as DOM element.\n * @return {?} \n * \n
_TreeBuilder.prototype._getParentElementSkippingContainers = /**\n * Returns the parent in the DOM and the
container.\n * \n * `<ng-container>` elements are skipped as they are not rendered as DOM element.\n *
@return {?} \n * \n function () {\n    var /** @type {?} */ container = null;\n    for (var /** @type {?} */ i
= this._elementStack.length - 1; i >= 0; i--) {\n        if (!isNgContainer(this._elementStack[i].name)) {\n
return { parent: this._elementStack[i], container: container };\n        }\n        container =
this._elementStack[i];\n    }\n    return { parent: null, container: container };\n  };\n  /**\n * @param {?}
node \n * @return {?} \n * \n _TreeBuilder.prototype._addToParent = /**\n * @param {?} node \n *
@return {?} \n * \n function (node) {\n    var /** @type {?} */ parent = this._getParentElement();\n    if
(parent != null) {\n        parent.children.push(node);\n    }\n    else {\n        this._rootNodes.push(node);\n
    }\n  };\n  /**\n * Insert a node between the parent and the container.\n * When no container is given, the
node is appended as a child of the parent.\n * Also updates the element stack accordingly.\n * \n *
\\@internal \n * @param {?} parent \n * @param {?} container \n * @param {?} node \n * @return {?} \n
*\n _TreeBuilder.prototype._insertBeforeContainer = /**\n * Insert a node between the parent and the
container.\n * When no container is given, the node is appended as a child of the parent.\n * Also updates the
element stack accordingly.\n * \n * \\@internal \n * @param {?} parent \n * @param {?} container \n *
@param {?} node \n * @return {?} \n * \n function (parent, container, node) {\n    if (!container) {\n
this._addToParent(node);\n        this._elementStack.push(node);\n    }\n    else {\n        if (parent) {\n
// replace the container with the new node in the children\n            var /** @type {?} */ index =
parent.children.indexOf(container);\n            parent.children[index] = node;\n        }\n        else {\n
this._rootNodes.push(node);\n        }\n        node.children.push(container);\n    }\n    this._elementStack.splice(this._elementStack.indexOf(container), 0, node);\n  };\n  /**\n * @param {?}
prefix \n * @param {?} localName \n * @param {?} parentElement \n * @return {?} \n * \n
_TreeBuilder.prototype._getElementFullName = /**\n * @param {?} prefix \n * @param {?} localName \n *
@param {?} parentElement \n * @return {?} \n * \n function (prefix, localName, parentElement) {\n    if
(prefix == null) {\n        prefix = /** @type {?} */
(((this.getTagDefinition(localName).implicitNamespacePrefix));\n        if (prefix == null && parentElement !=
null) {\n            prefix = getNsPrefix(parentElement.name);\n        }\n    }\n    return
mergeNsAndName(prefix, localName);\n  };\n  return _TreeBuilder;\n}());\n\n/** \n * @param {?} stack \n *
@param {?} element \n * @return {?} \n * \n function lastOnStack(stack, element) {\n    return stack.length > 0 &&
stack[stack.length - 1] === element;\n  }\n\n/** \n * @fileoverview added by tsickle \n * @suppress {checkTypes}
checked by tsc \n * \n /** \n * @license \n * Copyright Google Inc. All Rights Reserved.\n * \n * Use of this source
code is governed by an MIT-style license that can be \n * found in the LICENSE file at https://angular.io/license\n
*\n /** \n * @param {?} message \n * @return {?} \n * \n function digest(message) {\n    return message.id ||
sha1(serializeNodes(message.nodes).join("") + ("[" + message.meaning + "]"));\n  }\n\n /** \n * @param {?}
message \n * @return {?} \n * \n function decimalDigest(message) {\n    if (message.id) {\n        return message.id;\n
    }\n    var /** @type {?} */ visitor = new _SerializerIgnoreIcuExpVisitor();\n    var /** @type {?} */ parts =
message.nodes.map(function (a) { return a.visit(visitor, null); });\n    return computeMsgId(parts.join(""),
message.meaning);\n  }\n\n /** \n * Serialize the i18n ast to something xml-like in order to generate an UID.\n * \n * The
visitor is also used in the i18n parser tests \n * \n * \\@internal \n * \n var _SerializerVisitor = /** @class */ (function
() {\n    function _SerializerVisitor() {\n    }\n    /** \n * @param {?} text \n * @param {?} context \n *
@return {?} \n * \n _SerializerVisitor.prototype.visitText = /** \n * @param {?} text \n * @param {?}
context \n * @return {?} \n * \n function (text, context) { return text.value; };\n  };\n  /** \n * @param {?}

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container\n * @param {?} context\n * @return {?}\n *^n _SerializerVisitor.prototype.visitContainer =
/**\n * @param {?} container\n * @param {?} context\n * @return {?}\n *^n function (container,
context) {\n var _this = this;\n return \"[\" + container.children.map(function (child) { return
child.visit(_this); }).join(', ') + \"]\";\n }; \n /**\n * @param {?} icu\n * @param {?} context\n * @return
{?}\n *^n _SerializerVisitor.prototype.visitIcu = /**\n * @param {?} icu\n * @param {?} context\n *
@return {?}\n *^n function (icu, context) {\n var _this = this;\n var /** @type {?} */ strCases =
Object.keys(icu.cases).map(function (k) { return k + \" {\" + icu.cases[k].visit(_this) + \"}\"; });\n return \"{\" +
icu.expression + \", \" + icu.type + \", \" + strCases.join(', ') + \"}\";\n }; \n /**\n * @param {?} ph\n *
@param {?} context\n * @return {?}\n *^n _SerializerVisitor.prototype.visitTagPlaceholder = /**\n *
@param {?} ph\n * @param {?} context\n * @return {?}\n *^n function (ph, context) {\n var _this =
this;\n return ph.isVoid ?\n \"<ph tag name=\\\"\" + ph.startName + \"\\\"/>\" : \"<ph tag
name=\\\"\" + ph.startName + \"\\\">\" + ph.children.map(function (child) { return child.visit(_this); }).join(', ') +
\"</ph name=\\\"\" + ph.closeName + \"\\\">\";\n }; \n /**\n * @param {?} ph\n * @param {?} context\n
@return {?}\n *^n _SerializerVisitor.prototype.visitPlaceholder = /**\n * @param {?} ph\n * @param
{?} context\n * @return {?}\n *^n function (ph, context) {\n return ph.value ? \"<ph name=\\\"\" +
ph.name + \"\\\">\" + ph.value + \"</ph>\" : \"<ph name=\\\"\" + ph.name + \"\\\"/>\";\n }; \n /**\n * @param
{?} ph\n * @param {=} context\n * @return {?}\n *^n _SerializerVisitor.prototype.visitIcuPlaceholder =
/**\n * @param {?} ph\n * @param {=} context\n * @return {?}\n *^n function (ph, context) {\n
return \"<ph icu name=\\\"\" + ph.name + \"\\\">\" + ph.value.visit(this) + \"</ph>\";\n }; \n return
_SerializerVisitor;\n})();\nvar serializerVisitor = new _SerializerVisitor();\n/**\n * @param {?} nodes\n * @return
{?}\n *^nfunction serializeNodes(nodes) {\n return nodes.map(function (a) { return a.visit(serializerVisitor, null);
});\n}\n\n/**\n * Serialize the i18n ast to something xml-like in order to generate an UID.\n * Ignore the ICU
expressions so that message IDs stays identical if only the expression changes.\n * @@internal\n *^nvar
_SerializerIgnoreIcuExpVisitor = /** @class */ (function (_super) {\n __extends(_SerializerIgnoreIcuExpVisitor,
_super);\n function _SerializerIgnoreIcuExpVisitor() {\n return _super !== null && _super.apply(this,
arguments) || this;\n } \n /**\n * @param {?} icu\n * @param {?} context\n * @return {?}\n *^n
_SerializerIgnoreIcuExpVisitor.prototype.visitIcu = /**\n * @param {?} icu\n * @param {?} context\n *
@return {?}\n *^n function (icu, context) {\n var _this = this;\n var /** @type {?} */ strCases =
Object.keys(icu.cases).map(function (k) { return k + \" {\" + icu.cases[k].visit(_this) + \"}\"; });\n // Do not take
the expression into account\n return \"{\" + icu.type + \", \" + strCases.join(', ') + \"}\";\n }; \n return
_SerializerIgnoreIcuExpVisitor;\n})(_SerializerVisitor);\n\n/**\n * Compute the SHA1 of the given string\n * see
http://csrc.nist.gov/publications/fips/fips180-4/fips-180-4.pdf\n * WARNING: this function has not been
designed not tested with security in mind.\n * DO NOT USE IT IN A SECURITY SENSITIVE CONTEXT.\n *
@param {?} str\n * @return {?}\n *^nfunction sha1(str) {\n var /** @type {?} */ utf8 = utf8Encode(str);\n
var /** @type {?} */ words32 = stringToWords32(utf8, Endian.Big);\n var /** @type {?} */ len = utf8.length *
8;\n var /** @type {?} */ w = new Array(80);\n var _a = [0x67452301, 0xefcdab89, 0x98badcfe, 0x10325476,
0xc3d2e1f0], a = _a[0], b = _a[1], c = _a[2], d = _a[3], e = _a[4];\n words32[len >> 5] |= 0x80 << (24 - len %
32);\n words32[(len + 64 >> 9) << 4] + 15 = len;\n for (var /** @type {?} */ i = 0; i < words32.length; i +=
16) {\n var _b = [a, b, c, d, e], h0 = _b[0], h1 = _b[1], h2 = _b[2], h3 = _b[3], h4 = _b[4];\n for (var /**
@type {?} */ j = 0; j < 80; j++) {\n if (j < 16) {\n w[j] = words32[i + j];\n } \n else {\n
w[j] = rol32(w[j - 3] ^ w[j - 8] ^ w[j - 14] ^ w[j - 16], 1);\n } \n var _c = fk(j, b, c, d), f = _c[0],
k = _c[1];\n var /** @type {?} */ temp = [rol32(a, 5), f, e, k, w[j]].reduce(add32);\n _d = [d, c,
rol32(b, 30), a, temp], e = _d[0], d = _d[1], c = _d[2], b = _d[3], a = _d[4];\n } \n _e = [add32(a, h0),
add32(b, h1), add32(c, h2), add32(d, h3), add32(e, h4)], a = _e[0], b = _e[1], c = _e[2], d = _e[3], e = _e[4];\n } \n
return byteStringToHexString(words32ToByteString([a, b, c, d, e]));\n var _d, _e;\n}\n\n/**\n * @param {?}
index\n * @param {?} b\n * @param {?} c\n * @param {?} d\n * @return {?}\n *^nfunction fk(index, b, c, d) {\n
if (index < 20) {\n return [(b & c) | (~b & d), 0x5a827999];\n } \n if (index < 40) {\n return [b ^ c ^ d,
0x6ed9eba1];\n } \n if (index < 60) {\n return [(b & c) | (b & d) | (c & d), 0x8f1bbcdc];\n } \n return [b ^ c

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^ d, 0xca62c1d6];\n}\n/**\n * Compute the fingerprint of the given string\n * The output is 64 bit number
encoded as a decimal string\n *\n * based on:\n * https://github.com/google/closure-
compiler/blob/master/src/com/google/javascript/jscomp/GoogleJsMessageIdGenerator.java\n * @param {?} str\n *
@return {?}\n *\nfunction fingerprint(str) {\n  var /** @type {?} */ utf8 = utf8Encode(str);\n  var _a =
[hash32(utf8, 0), hash32(utf8, 102072)], hi = _a[0], lo = _a[1];\n  if (hi == 0 && (lo == 0 || lo == 1)) {\n    hi =
hi ^ 0x130f9bef;\n    lo = lo ^ 0x6b5f56d8;\n  }\n  return [hi, lo];\n}\n/**\n * @param {?} msg\n * @param
{?} meaning\n * @return {?}\n *\nfunction computeMsgId(msg, meaning) {\n  var _a = fingerprint(msg), hi =
_a[0], lo = _a[1];\n  if (meaning) {\n    var _b = fingerprint(meaning), him = _b[0], lom = _b[1];\n    _c =
add64(rol64([hi, lo], 1), [him, lom]), hi = _c[0], lo = _c[1];\n  }\n  return
byteStringToDecString(words32ToByteString([hi & 0x7ffffff, lo]));\n  var _c;\n}\n/**\n * @param {?} str\n *
@param {?} c\n * @return {?}\n *\nfunction hash32(str, c) {\n  var _a = [0x9e3779b9, 0x9e3779b9], a = _a[0], b
= _a[1];\n  var /** @type {?} */ i;\n  var /** @type {?} */ len = str.length;\n  for (i = 0; i + 12 <= len; i += 12)
{\n    a = add32(a, wordAt(str, i, Endian.Little));\n    b = add32(b, wordAt(str, i + 4, Endian.Little));\n    c =
add32(c, wordAt(str, i + 8, Endian.Little));\n    _b = mix([a, b, c]), a = _b[0], b = _b[1], c = _b[2];\n  }\n  a =
add32(a, wordAt(str, i, Endian.Little));\n  b = add32(b, wordAt(str, i + 4, Endian.Little));\n  // the first byte of c is
reserved for the length\n  c = add32(c, len);\n  c = add32(c, wordAt(str, i + 8, Endian.Little) << 8);\n  return
mix([a, b, c])[2];\n  var _b;\n}\n/**\n * @param {?} __0\n * @return {?}\n *\nfunction mix(_a) {\n  var a =
_a[0], b = _a[1], c = _a[2];\n  a = sub32(a, b);\n  a = sub32(a, c);\n  a ^= c >>> 13;\n  b = sub32(b, c);\n  b =
sub32(b, a);\n  b ^= a <<< 8;\n  c = sub32(c, a);\n  c = sub32(c, b);\n  c ^= b >>> 13;\n  a = sub32(a, b);\n  a =
sub32(a, c);\n  a ^= c >>> 12;\n  b = sub32(b, c);\n  b = sub32(b, a);\n  b ^= a <<< 16;\n  c = sub32(c, a);\n  c
= sub32(c, b);\n  c ^= b >>> 5;\n  a = sub32(a, b);\n  a = sub32(a, c);\n  a ^= c >>> 3;\n  b = sub32(b, c);\n  b
= sub32(b, a);\n  b ^= a <<< 10;\n  c = sub32(c, a);\n  c = sub32(c, b);\n  c ^= b >>> 15;\n  return [a, b,
c];\n}\n/**\n * @enum {number}\n * @nvar Endian = {\n  Little: 0,\n  Big: 1,\n};\nEndian[Endian.Little] =
"Little";\nEndian[Endian.Big] = "Big";\n/**\n * @param {?} a\n * @param {?} b\n * @return {?}\n *\nfunction
add32(a, b) {\n  return add32to64(a, b)[1];\n}\n/**\n * @param {?} a\n * @param {?} b\n * @return {?}\n *\nfunction
add32to64(a, b) {\n  var /** @type {?} */ low = (a & 0xffff) + (b & 0xffff);\n  var /** @type {?} */
high = (a >>> 16) + (b >>> 16) + (low >>> 16);\n  return [high >>> 16, (high <<< 16) | (low & 0xffff)];\n}\n/**\n *
@param {?} __0\n * @param {?} __1\n * @return {?}\n *\nfunction add64(_a, _b) {\n  var ah = _a[0], al =
_a[1];\n  var bh = _b[0], bl = _b[1];\n  var _c = add32to64(al, bl), carry = _c[0], l = _c[1];\n  var /** @type {?}
*/ h = add32(add32(ah, bh), carry);\n  return [h, l];\n}\n/**\n * @param {?} a\n * @param {?} b\n * @return {?}\n *\nfunction
sub32(a, b) {\n  var /** @type {?} */ low = (a & 0xffff) - (b & 0xffff);\n  var /** @type {?} */ high
= (a >> 16) - (b >> 16) + (low >> 16);\n  return (high <<< 16) | (low & 0xffff);\n}\n/**\n * @param {?} a\n *
@param {?} count\n * @return {?}\n *\nfunction rol32(a, count) {\n  return (a <<< count) | (a >>> (32 -
count));\n}\n/**\n * @param {?} __0\n * @param {?} count\n * @return {?}\n *\nfunction rol64(_a, count) {\n
var hi = _a[0], lo = _a[1];\n  var /** @type {?} */ h = (hi <<< count) | (lo >>> (32 - count));\n  var /** @type {?}
*/ l = (lo <<< count) | (hi >>> (32 - count));\n  return [h, l];\n}\n/**\n * @param {?} str\n * @param {?} endian\n *
@return {?}\n *\nfunction stringToWords32(str, endian) {\n  var /** @type {?} */ words32 = Array((str.length +
3) >>> 2);\n  for (var /** @type {?} */ i = 0; i < words32.length; i++) {\n    words32[i] = wordAt(str, i * 4,
endian);\n  }\n  return words32;\n}\n/**\n * @param {?} str\n * @param {?} index\n * @return {?}\n *\nfunction
byteAt(str, index) {\n  return index >= str.length ? 0 : str.charCodeAtAt(index) & 0xff;\n}\n/**\n *
@param {?} str\n * @param {?} index\n * @param {?} endian\n * @return {?}\n *\nfunction wordAt(str, index,
endian) {\n  var /** @type {?} */ word = 0;\n  if (endian === Endian.Big) {\n    for (var /** @type {?} */ i = 0;
i < 4; i++) {\n      word += byteAt(str, index + i) <<< (24 - 8 * i);\n    }\n  } else {\n    for (var /** @type
{?} */ i = 0; i < 4; i++) {\n      word += byteAt(str, index + i) <<< 8 * i;\n    }\n  }\n  return word;\n}\n/**\n *
@param {?} words32\n * @return {?}\n *\nfunction words32ToByteString(words32) {\n  return
words32.reduce(function (str, word) { return str + word32ToByteString(word); }, "");\n}\n/**\n * @param {?}
word\n * @return {?}\n *\nfunction word32ToByteString(word) {\n  var /** @type {?} */ str = "";\n  for (var /**
@type {?} */ i = 0; i < 4; i++) {\n    str += String.fromCharCode((word >>> 8 * (3 - i)) & 0xff);\n  }\n  return

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str;\n\n/**\n * @param {?} str\n * @return {?}\n *\nfunction byteStringToHexString(str) {\n  var /** @type {?}\n */ hex = "";\n  for (var /** @type {?} */ i = 0; i < str.length; i++) {\n    var /** @type {?} */ b = byteAt(str, i);\n    hex += (b >>> 4).toString(16) + (b & 0x0f).toString(16);\n  }\n  return hex.toLowerCase();\n}\n\n/**\n * @param {?} str\n * @return {?}\n *\nfunction byteStringToDecString(str) {\n  var /** @type {?} */ decimal = "";\n  var /** @type {?} */ toThePower = '1';\n  for (var /** @type {?} */ i = str.length - 1; i >= 0; i--) {\n    decimal =\n      addBigInt(decimal, numberTimesBigInt(byteAt(str, i), toThePower));\n    toThePower =\n      numberTimesBigInt(256, toThePower);\n  }\n  return decimal.split("").reverse().join("");\n}\n\n/**\n * @param {?} x\n * @param {?} y\n * @return {?}\n *\nfunction addBigInt(x, y) {\n  var /** @type {?} */ sum = "";\n  var /** @type {?} */ len = Math.max(x.length, y.length);\n  for (var /** @type {?} */ i = 0, /** @type {?} */ carry = 0; i < len || carry; i++) {\n    var /** @type {?} */ tmpSum = carry + +(x[i] || 0) + +(y[i] || 0);\n    if (tmpSum >= 10)\n      {\n        carry = 1;\n        sum += tmpSum - 10;\n      }\n    else {\n      carry = 0;\n      sum +=\n        tmpSum;\n    }\n  }\n  return sum;\n}\n\n/**\n * @param {?} num\n * @param {?} b\n * @return {?}\n *\nfunction numberTimesBigInt(num, b) {\n  var /** @type {?} */ product = "";\n  var /** @type {?} */ bToThePower = b;\n  for (; num !== 0; num = num >>> 1) {\n    if (num & 1)\n      product =\n        addBigInt(product, bToThePower);\n    bToThePower = addBigInt(bToThePower, bToThePower);\n  }\n  return product;\n}\n\n\n/**\n * @fileoverview added by tsickle\n * @suppress {checkTypes} checked by tsc\n *\n\n/**\n * @license\n * Copyright Google Inc. All Rights Reserved.\n *\n * Use of this source code is governed by\n an MIT-style license that can be\n * found in the LICENSE file at https://angular.io/license\n *\n\nvar Message = /**\n * @class */ (function () {\n  /**\n   * @param nodes message AST\n   * @param placeholders maps placeholder\n   names to static content\n   * @param placeholderToMessage maps placeholder names to messages (used for nested\n   ICU messages)\n   * @param meaning\n   * @param description\n   * @param id\n   *\n   function\n   Message(nodes, placeholders, placeholderToMessage, meaning, description, id) {\n     this.nodes = nodes;\n     this.placeholders = placeholders;\n     this.placeholderToMessage = placeholderToMessage;\n     this.meaning =\n       meaning;\n     this.description = description;\n     this.id = id;\n     if (nodes.length) {\n       this.sources =\n         [{\n           filePath: nodes[0].sourceSpan.start.file.url,\n           startLine: nodes[0].sourceSpan.start.line +\n             1,\n           startCol: nodes[0].sourceSpan.start.col + 1,\n           endLine: nodes[nodes.length -\n             1].sourceSpan.end.line + 1,\n           endCol: nodes[0].sourceSpan.start.col + 1\n         }];\n     }\n   }\n   else {\n     this.sources = [];\n   }\n   }\n   return Message;\n})();\n\n\n/**\n * @record\n *\n\n\nvar Text$1 = /** @class */ (function () {\n  function Text(value, sourceSpan) {\n    this.value =\n      value;\n    this.sourceSpan =\n      sourceSpan;\n  }\n  /**\n   * @param {?} visitor\n   * @param {?=} context\n   *\n   @return {?}\n   *\n   Text.prototype.visit = /**\n   * @param {?} visitor\n   * @param {?=} context\n   *\n   @return {?}\n   *\n   function (visitor, context) {\n     return visitor.visitText(this, context);\n   };\n   return\n   Text;\n})();\n\nvar Container = /** @class */ (function () {\n  function Container(children, sourceSpan) {\n    this.children =\n      children;\n    this.sourceSpan =\n      sourceSpan;\n  }\n  /**\n   * @param {?} visitor\n   * @param\n   {?=} context\n   *\n   @return {?}\n   *\n   Container.prototype.visit = /**\n   * @param {?} visitor\n   * @param\n   {?=} context\n   *\n   @return {?}\n   *\n   function (visitor, context) {\n     return visitor.visitContainer(this, context);\n   };\n   return\n   Container;\n})();\n\nvar Icu = /** @class */ (function () {\n  function Icu(expression, type, cases,\n    sourceSpan) {\n    this.expression =\n      expression;\n    this.type =\n      type;\n    this.cases =\n      cases;\n    this.sourceSpan =\n      sourceSpan;\n  }\n  /**\n   * @param {?} visitor\n   * @param {?=} context\n   *\n   @return\n   {?}\n   *\n   Icu.prototype.visit = /**\n   * @param {?} visitor\n   * @param {?=} context\n   *\n   @return {?}\n   *\n   function (visitor, context) {\n     return visitor.visitIcu(this, context);\n   };\n   return\n   Icu;\n})();\n\nvar TagPlaceholder = /** @class */ (function () {\n  function TagPlaceholder(tag, attrs, startName, closeName, children, isVoid,\n    sourceSpan) {\n    this.tag =\n      tag;\n    this.attrs =\n      attrs;\n    this.startName =\n      startName;\n    this.closeName =\n      closeName;\n    this.children =\n      children;\n    this.isVoid =\n      isVoid;\n    this.sourceSpan =\n      sourceSpan;\n  }\n  /**\n   * @param {?} visitor\n   * @param {?=} context\n   *\n   @return {?}\n   *\n   TagPlaceholder.prototype.visit = /**\n   * @param {?} visitor\n   * @param {?=} context\n   *\n   @return {?}\n   *\n   function (visitor, context) {\n     return visitor.visitTagPlaceholder(this, context);\n   };\n   return\n   TagPlaceholder;\n})();\n\nvar Placeholder = /** @class */ (function () {\n  function Placeholder(value, name,

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RecurseVisitor.prototype.visitIcuPlaceholder = /**\n
 * @param {?} ph\n
 * @param {?} context\n
 * @return {?}\n
 */\n
function (ph, context) {};\n
return RecurseVisitor;\n
})();\n\n/**\n
 * @fileoverview added by tsickle\n
 * @suppress {checkTypes} checked by tsc\n
 */\n\n/**\n
 * @license\n
 * Copyright Google Inc. All Rights Reserved.\n
 */\n\n
 * Use of this source code is governed by an MIT-style license that can be\n
 * found in the LICENSE file at https://angular.io/license\n
 */\n\nvar HtmlTagDefinition = /** @class */ (function () {\n
function HtmlTagDefinition(_a) {\n
var _b = _a === void 0 ? {} : _a, closedByChildren = _b.closedByChildren, requiredParents = _b.requiredParents, implicitNamespacePrefix = _b.implicitNamespacePrefix, _c = _b.contentType, contentType = _c === void 0 ? TagContentType.PARSABLE_DATA : _c, _d = _b.closedByParent, closedByParent = _d === void 0 ? false : _d, _e = _b.isVoid, isVoid = _e === void 0 ? false : _e, _f = _b.ignoreFirstLf, ignoreFirstLf = _f === void 0 ? false : _f;\n
var _this = this;\n
this.closedByChildren = {};\n
this.closedByParent = false;\n
this.canSelfClose = false;\n
if (closedByChildren && closedByChildren.length > 0) {\n
closedByChildren.forEach(function (tagName) {\n
return _this.closedByChildren[tagName] = true; });\n
}\n
this.isVoid = isVoid;\n
this.closedByParent = closedByParent || isVoid;\n
if (requiredParents && requiredParents.length > 0) {\n
this.requiredParents = {};\n
// The first parent is the list is automatically when none of the listed parents are present\n
this.parentToAdd = requiredParents[0];\n
requiredParents.forEach(function (tagName) {\n
return _this.requiredParents[tagName] = true; });\n
}\n
this.implicitNamespacePrefix = implicitNamespacePrefix || null;\n
this.contentType = contentType;\n
this.ignoreFirstLf = ignoreFirstLf;\n
})\n\n/**\n
 * @param {?} currentParent\n
 * @return {?}\n
 */\n\nfunction (currentParent) {\n
if (!this.requiredParents) {\n
return false;\n
}\n
if (!currentParent) {\n
return true;\n
}\n
var /** @type {?} */ lcParent = currentParent.toLowerCase();\n
var /** @type {?} */ isParentTemplate = lcParent === 'template' || currentParent === 'ng-template';\n
return !isParentTemplate && this.requiredParents[lcParent] != true;\n
};\n\n/**\n
 * @param {?} name\n
 * @return {?}\n
 */\n\nfunction (name) {\n
return this.isVoid || name.toLowerCase() in this.closedByChildren;\n
};\n
return HtmlTagDefinition;\n
})();\n\n// see http://www.w3.org/TR/html51/syntax.html#optional-tags\n\nThis implementation does not fully conform to the HTML5 spec.\n\nvar TAG_DEFINITIONS = {\n
'base': new HtmlTagDefinition({ isVoid: true }),\n
'meta': new HtmlTagDefinition({ isVoid: true }),\n
'area': new HtmlTagDefinition({ isVoid: true }),\n
'embed': new HtmlTagDefinition({ isVoid: true }),\n
'link': new HtmlTagDefinition({ isVoid: true }),\n
'img': new HtmlTagDefinition({ isVoid: true }),\n
'input': new HtmlTagDefinition({ isVoid: true }),\n
'param': new HtmlTagDefinition({ isVoid: true }),\n
'hr': new HtmlTagDefinition({ isVoid: true }),\n
'br': new HtmlTagDefinition({ isVoid: true }),\n
'source': new HtmlTagDefinition({ isVoid: true }),\n
'track': new HtmlTagDefinition({ isVoid: true }),\n
'wbr': new HtmlTagDefinition({ isVoid: true }),\n
'p': new HtmlTagDefinition({\n
closedByChildren: ['address', 'article', 'aside', 'blockquote', 'div', 'dl', 'fieldset', 'footer', 'form',\n
'h1', 'h2', 'h3', 'h4', 'h5', 'h6', 'header', 'hgroup', 'hr',\n
'main', 'nav', 'ol', 'p', 'pre', 'section', 'table', 'ul'\n
]),\n
closedByParent: true\n
}),\n
'thead': new HtmlTagDefinition({\n
closedByChildren: ['tbody', 'tfoot']\n
}),\n
'tbody': new HtmlTagDefinition({\n
closedByChildren: ['tbody', 'tfoot'],\n
closedByParent: true\n
}),\n
'tfoot': new HtmlTagDefinition({\n
closedByChildren: ['tbody'],\n
closedByParent: true\n
}),\n
'tr': new HtmlTagDefinition({\n
closedByChildren: ['tr'],\n
requiredParents: ['tbody', 'tfoot', 'thead'],\n
closedByParent: true\n
}),\n
'td': new HtmlTagDefinition({\n
closedByChildren: ['td', 'th'],\n
closedByParent: true\n
}),\n
'th': new HtmlTagDefinition({\n
closedByChildren: ['td', 'th'],\n
closedByParent: true\n
}),\n
'col': new HtmlTagDefinition({\n
requiredParents: ['colgroup'],\n
isVoid: true\n
}),\n
'svg': new HtmlTagDefinition({\n
implicitNamespacePrefix: 'svg'\n
}),\n
'math': new HtmlTagDefinition({\n
implicitNamespacePrefix: 'math'\n
}),\n
'li': new HtmlTagDefinition({\n
closedByChildren: ['li'],\n
closedByParent: true\n
}),\n
'dt': new HtmlTagDefinition({\n
closedByChildren: ['dt', 'dd']\n
}),\n
'dd': new HtmlTagDefinition({\n
closedByChildren: ['dt', 'dd'],\n
closedByParent: true\n
}),\n
'rb': new HtmlTagDefinition({\n
closedByChildren: ['rb', 'rt', 'rtc', 'rp'],\n
closedByParent: true\n
}),\n
'rt': new HtmlTagDefinition({\n
closedByChildren: ['rb', 'rt', 'rtc', 'rp'],\n
closedByParent: true\n
}),\n
'rtc': new

```



```

function (name) {\n    return this._generateUniqueName(name.toUpperCase());\n    };\n    /**\n     * @param {?}
tag\n     * @param {?} attrs\n     * @param {?} isVoid\n     * @return {?}\n     */\n    PlaceholderRegistry.prototype._hashTag = /**\n     * @param {?} tag\n     * @param {?} attrs\n     * @param {?}
isVoid\n     * @return {?}\n     */\n    function (tag, attrs, isVoid) {\n        var /** @type {?} */ start = "\"<" + tag;\n        var /** @type {?} */ strAttrs = Object.keys(attrs).sort().map(function (name) { return "\" + name + \"=\" +
attrs[name]; }).join(";");\n        var /** @type {?} */ end = isVoid ? '>': '><^' + tag + '>';\n        return start +
strAttrs + end;\n    };\n    /**\n     * @param {?} tag\n     * @return {?}\n     */\n    PlaceholderRegistry.prototype._hashClosingTag = /**\n     * @param {?} tag\n     * @return {?}\n     */\n    function
(tag) { return this._hashTag('^' + tag, {}, false); }\n    /**\n     * @param {?} base\n     * @return {?}\n     */\n    PlaceholderRegistry.prototype._generateUniqueName = /**\n     * @param {?} base\n     * @return {?}\n     */\n    function (base) {\n        var /** @type {?} */ seen = this._placeholderNameCounts.hasOwnProperty(base);\n        if
(!seen) {\n            this._placeholderNameCounts[base] = 1;\n            return base;\n        }\n        var /** @type {?} */
id = this._placeholderNameCounts[base];\n        this._placeholderNameCounts[base] = id + 1;\n        return base +
\"_\" + id;\n    };\n    return PlaceholderRegistry();\n    });\n    /**\n     * @fileoverview added by tsickle\n     * @suppress
{checkTypes} checked by tsc\n     */\n    /**\n     * @license\n     * Copyright Google Inc. All Rights Reserved.\n     */\n    /**\n     * Use of
this source code is governed by an MIT-style license that can be\n     * found in the LICENSE file at
https://angular.io/license\n     */\n    var _expParser = new Parser(new Lexer());\n    /**\n     * Returns a function converting
html nodes to an i18n Message given an interpolationConfig\n     * @param {?} interpolationConfig\n     * @return {?}\n     */\n    function createI18nMessageFactory(interpolationConfig) {\n        var /** @type {?} */ visitor = new
_I18nVisitor(_expParser, interpolationConfig);\n        return function (nodes, meaning, description, id) {\n            return
visitor.toI18nMessage(nodes, meaning, description, id);\n        };\n    }\n    var _I18nVisitor = /** @class */ (function () {\n        function _I18nVisitor(_expressionParser, _interpolationConfig) {\n            this._expressionParser =
_expressionParser;\n            this._interpolationConfig = _interpolationConfig;\n        }\n        /**\n         * @param {?} nodes\n         * @param {?} meaning\n         * @param {?} description\n         * @param {?} id\n         * @return {?}\n         */\n        _I18nVisitor.prototype.toI18nMessage = /**\n         * @param {?} nodes\n         * @param {?} meaning\n         * @param
{?} description\n         * @param {?} id\n         * @return {?}\n         */\n        function (nodes, meaning, description, id) {\n            this._isIcu = nodes.length == 1 && nodes[0] instanceof Expansion;\n            this._icuDepth = 0;\n            this._placeholderRegistry = new PlaceholderRegistry();\n            this._placeholderToContent = {};\n            this._placeholderToMessage = {};\n            var /** @type {?} */ i18nodes = visitAll(this, nodes, {});\n            return new
Message(i18nodes, this._placeholderToContent, this._placeholderToMessage, meaning, description, id);\n        };\n        /**\n         * @param {?} el\n         * @param {?} context\n         * @return {?}\n         */\n        _I18nVisitor.prototype.visitElement = /**\n         * @param {?} el\n         * @param {?} context\n         * @return {?}\n         */\n        function (el, context) {\n            var /** @type {?} */ children = visitAll(this, el.children);\n            var /** @type
{?} */ attrs = {};\n            el.attrs.forEach(function (attr) {\n                // Do not visit the attributes, translatable ones are
top-level ASTs\n                attrs[attr.name] = attr.value;\n            });\n            var /** @type {?} */ isVoid =
getHtmlTagDefinition(el.name).isVoid;\n            var /** @type {?} */ startPhName =
this._placeholderRegistry.getStartTagPlaceholderName(el.name, attrs, isVoid);\n            this._placeholderToContent[startPhName] = /** @type {?} */ ((el.sourceSpan)).toString();\n            var /** @type {?}
*/ closePhName = \";\n            if (!isVoid) {\n                closePhName =
this._placeholderRegistry.getCloseTagPlaceholderName(el.name);\n                this._placeholderToContent[closePhName] = \">\" + el.name + \">\";\n            }\n            return new
TagPlaceholder(el.name, attrs, startPhName, closePhName, children, isVoid, /** @type {?} */ ((el.sourceSpan)));\n        };\n        /**\n         * @param {?} attribute\n         * @param {?} context\n         * @return {?}\n         */\n        _I18nVisitor.prototype.visitAttribute = /**\n         * @param {?} attribute\n         * @param {?} context\n         * @return
{?}\n         */\n        function (attribute, context) {\n            return this._visitTextWithInterpolation(attribute.value,
attribute.sourceSpan);\n        };\n        /**\n         * @param {?} text\n         * @param {?} context\n         * @return {?}\n         */\n        _I18nVisitor.prototype.visitText = /**\n         * @param {?} text\n         * @param {?} context\n         * @return {?}\n         */\n        function (text, context) {\n            return this._visitTextWithInterpolation(text.value, /** @type {?} */

```



```

I18nError;\n})(ParseError));\n\n/**\n * @fileoverview added by tsickle\n * @suppress {checkTypes} checked by
ts\n *\n\n * @license\n * Copyright Google Inc. All Rights Reserved.\n *\n * Use of this source code is
governed by an MIT-style license that can be\n * found in the LICENSE file at https://angular.io/license\n *\n\n _I18N_ATTR = 'i18n';\nvar _I18N_ATTR_PREFIX = 'i18n-';\nvar _I18N_COMMENT_PREFIX_REGEXP =
/^i18n:?.?;\nvar MEANING_SEPARATOR = '|';\nvar ID_SEPARATOR = '@@';\nvar i18nCommentsWarned =
false;\n/**\n * Extract translatable messages from an html AST\n * @param {?} nodes\n * @param {?}
interpolationConfig\n * @param {?} implicitTags\n * @param {?} implicitAttrs\n * @return {?} }\n *\nfunction
extractMessages(nodes, interpolationConfig, implicitTags, implicitAttrs) {\n  var /** @type {?} */ visitor = new
_Visitor(implicitTags, implicitAttrs);\n  return visitor.extract(nodes, interpolationConfig);\n}\n\n/**\n * @param {?}
nodes\n * @param {?} translations\n * @param {?} interpolationConfig\n * @param {?} implicitTags\n * @param
{?} implicitAttrs\n * @return {?} }\n *\nfunction mergeTranslations(nodes, translations, interpolationConfig,
implicitTags, implicitAttrs) {\n  var /** @type {?} */ visitor = new _Visitor(implicitTags, implicitAttrs);\n  return
visitor.merge(nodes, translations, interpolationConfig);\n}\n\nvar ExtractionResult = /** @class */ (function () {\n
function ExtractionResult(messages, errors) {\n  this.messages = messages;\n  this.errors = errors;\n }\n
return ExtractionResult;\n})();\n\n/** @enum {number} */\nvar _VisitorMode = {\n  Extract: 0,\n  Merge:
1,\n};\n\n_VisitorMode[_VisitorMode.Extract] = "Extract";\n_VisitorMode[_VisitorMode.Merge] =
"Merge";\n\n/**\n * This Visitor is used:\n * 1. to extract all the translatable strings from an html AST (see
`extract()`),\n * 2. to replace the translatable strings with the actual translations (see `merge()`)\n *\n * \\@internal\n
*\n\nvar _Visitor = /** @class */ (function () {\n  function _Visitor(_implicitTags, _implicitAttrs) {\n
this._implicitTags = _implicitTags;\n  this._implicitAttrs = _implicitAttrs;\n }\n  /**\n   * Extracts the
messages from the tree\n   *\n   * Extracts the messages from the tree\n   * @param {?} nodes\n   *
@param {?} interpolationConfig\n   * @return {?} }\n   *\n   _Visitor.prototype.extract = /**\n   * Extracts the
messages from the tree\n   * @param {?} nodes\n   * @param {?} interpolationConfig\n   * @return {?} }\n
   *\n   function (nodes, interpolationConfig) {\n     var _this = this;\n     this._init(_VisitorMode.Extract,
interpolationConfig);\n     nodes.forEach(function (node) { return node.visit(_this, null); });\n     if
(this._inI18nBlock) {\n       this._reportError(nodes[nodes.length - 1], 'Unclosed block');\n     }\n     return
new ExtractionResult(this._messages, this._errors);\n   }; \n   /**\n   * Returns a tree where all translatable nodes
are translated\n   *\n   * Returns a tree where all translatable nodes are translated\n   * @param {?}
nodes\n   * @param {?} translations\n   * @param {?} interpolationConfig\n   * @return {?} }\n   *\n   _Visitor.prototype.merge = /**\n   * Returns a tree where all translatable nodes are translated\n   * @param {?}
nodes\n   * @param {?} translations\n   * @param {?} interpolationConfig\n   * @return {?} }\n   *\n   function
(nodes, translations, interpolationConfig) {\n     this._init(_VisitorMode.Merge, interpolationConfig);\n     this._translations = translations;\n     // Construct a single fake root element\n     var /** @type {?} */ wrapper =
new Element('wrapper', [], nodes, /** @type {?} */ ((undefined)), undefined, undefined);\n     var /** @type {?}
*/ translatedNode = wrapper.visit(this, null);\n     if (this._inI18nBlock) {\n       this._reportError(nodes[nodes.length - 1], 'Unclosed block');\n     }\n     return new
ParseTreeResult(translatedNode.children, this._errors);\n   }; \n   /**\n   * @param {?} icuCase\n   * @param
{?} context\n   * @return {?} }\n   *\n   _Visitor.prototype.visitExpansionCase = /**\n   * @param {?}
icuCase\n   * @param {?} context\n   * @return {?} }\n   *\n   function (icuCase, context) {\n     // Parse cases
for translatable html attributes\n     var /** @type {?} */ expression = visitAll(this, icuCase.expression, context);\n
     if (this._mode === _VisitorMode.Merge) {\n       return new ExpansionCase(icuCase.value, expression,
icuCase.sourceSpan, icuCase.valueSourceSpan, icuCase.expSourceSpan);\n     }\n   }; \n   /**\n   * @param {?}
icu\n   * @param {?} context\n   * @return {?} }\n   *\n   _Visitor.prototype.visitExpansion = /**\n   * @param
{?} icu\n   * @param {?} context\n   * @return {?} }\n   *\n   function (icu, context) {\n
this._maybeAddBlockChildren(icu);\n     var /** @type {?} */ wasInIcu = this._inIcu;\n     if (!this._inIcu) {\n
       // nested ICU messages should not be extracted but top-level translated as a whole\n       if
(this._isInTranslatableSection) {\n         this._addMessage([icu]);\n       }\n       this._inIcu = true;\n     }\n
     var /** @type {?} */ cases = visitAll(this, icu.cases, context);\n     if (this._mode ===

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_VisitorMode.Merge) {\n      icu = new Expansion(icu.switchValue, icu.type, cases, icu.sourceSpan,
icu.switchValueSourceSpan);\n    }\n    this._inIcu = wasInIcu;\n    return icu;\n  };\n  /**\n   * @param
{?} comment\n   * @param {?} context\n   * @return {?}\n   */\n  _Visitor.prototype.visitComment = /**\n   * @param {?} comment\n   * @param {?} context\n   * @return {?}\n   */\n  function (comment, context) {\n
    var /** @type {?} */ isOpening = _isOpeningComment(comment);\n    if (isOpening &&
this._isInTranslatableSection) {\n      this._reportError(comment, 'Could not start a block inside a translatable
section');\n      return;\n    }\n    var /** @type {?} */ isClosing = _isClosingComment(comment);\n    if
(isClosing && !this._inI18nBlock) {\n      this._reportError(comment, 'Trying to close an unopened block');\n
      return;\n    }\n    if (!this._inI18nNode && !this._inIcu) {\n      if (!this._inI18nBlock) {\n        if
(isOpening) {\n          // deprecated from v5 you should use <ng-container i18n> instead of i18n comments\n
          if (!i18nCommentsWarned && /** @type {?} */ (console) && /** @type {?} */ (console.warn)) {\n
            i18nCommentsWarned = true;\n            var /** @type {?} */ details = comment.sourceSpan.details ?
'\n\n', '\n' + comment.sourceSpan.details : '';\n            // TODO(ocombe): use a log service once there is a public
one available\n            console.warn("I18n comments are deprecated, use an <ng-container> element instead
(\n\n" + comment.sourceSpan.start + details + "\n\n")); \n          }\n          this._inI18nBlock = true;\n
          this._blockStartDepth = this._depth;\n          this._blockChildren = [];\n          this._blockMeaningAndDesc = /** @type {?} */
((comment.value)).replace(_I18N_COMMENT_PREFIX_REGEX, "").trim();\n          this._openTranslatableSection(comment);\n
        }\n        }\n        else {\n          if (isClosing) {\n            if (this._depth == this._blockStartDepth) {\n
              this._closeTranslatableSection(comment,
this._blockChildren);\n              this._inI18nBlock = false;\n              var /** @type {?} */ message =
/** @type {?} */ ((this._addMessage(this._blockChildren, this._blockMeaningAndDesc));\n              // merge
attributes in sections\n              var /** @type {?} */ nodes = this._translateMessage(comment, message);\n
              return visitAll(this, nodes);\n            }\n            else {\n              this._reportError(comment, 'I18N blocks should not cross element boundaries');\n
              return;\n            }\n          }\n          }\n          }\n          }\n        };\n        /**\n         * @param {?} text\n         * @param {?} context\n         * @return
{?}\n         */\n        _Visitor.prototype.visitText = /**\n         * @param {?} text\n         * @param {?} context\n         * @return
{?}\n         */\n        function (text, context) {\n          if (this._isInTranslatableSection) {\n
            this._maybeAddBlockChildren(text);\n          }\n          return text;\n        };\n        /**\n         * @param {?} el\n         * @param
{?} context\n         * @return {?}\n         */\n        _Visitor.prototype.visitElement = /**\n         * @param {?} el\n         *
@param {?} context\n         * @return {?}\n         */\n        function (el, context) {\n          var _this = this;\n
          this._maybeAddBlockChildren(el);\n          this._depth++;\n          var /** @type {?} */ wasInI18nNode =
this._inI18nNode;\n          var /** @type {?} */ wasInImplicitNode = this._inImplicitNode;\n          var /** @type {?} */
childNodes = [];\n          var /** @type {?} */ translatedChildNodes = /** @type {?} */ ((undefined));\n          //
Extract;\n          // - top level nodes with the (implicit) "i18n" attribute if not already in a section\n          // - ICU
messages\n          var /** @type {?} */ i18nAttr = _getI18nAttr(el);\n          var /** @type {?} */ i18nMeta = i18nAttr
? i18nAttr.value : '';\n          var /** @type {?} */ isImplicit = this._implicitTags.some(function (tag) { return el.name
=== tag; }) && !this._inIcu && !this._isInTranslatableSection;\n          var /** @type {?} */
isTopLevelImplicit = !wasInImplicitNode && isImplicit;\n          this._inImplicitNode = wasInImplicitNode ||
isImplicit;\n          if (!this._isInTranslatableSection && !this._inIcu) {\n            if (i18nAttr || isTopLevelImplicit) {\n
              this._inI18nNode = true;\n              var /** @type {?} */ message = /** @type {?} */
(((this._addMessage(el.children, i18nMeta)));\n              translatedChildNodes = this._translateMessage(el,
message);\n            }\n            if (this._mode == _VisitorMode.Extract) {\n              var /** @type {?} */
isTranslatable = i18nAttr || isTopLevelImplicit;\n              if (isTranslatable)\n                this._openTranslatableSection(el);\n              visitAll(this, el.children);\n              if (isTranslatable)\n                this._closeTranslatableSection(el, el.children);\n            }\n            }\n            else {\n              if (i18nAttr ||
isTopLevelImplicit) {\n                this._reportError(el, 'Could not mark an element as translatable inside a
translatable section');\n              }\n              if (this._mode == _VisitorMode.Extract) {\n                // Descend into child

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nodes for extraction\n        visitAll(this, el.children);\n        }\n        }\n        if (this._mode ===
_VisitorMode.Merge) {\n        var /** @type {?} */ visitNodes = translatedChildNodes || el.children;\n
visitNodes.forEach(function (child) {\n        var /** @type {?} */ visited = child.visit(_this, context);\n
if (visited && !_this._isInTranslatableSection) {\n        // Do not add the children from translatable sections
(= i18n blocks here)\n        // They will be added later in this loop when the block closes (i.e. on `<!-- /i18n --
>`)\n        childNodes = childNodes.concat(visited);\n        }\n        });\n        }\n
this._visitAttributesOf(el);\n        this._depth--;\n        this._inI18nNode = wasInI18nNode;\n
this._inImplicitNode = wasInImplicitNode;\n        if (this._mode === _VisitorMode.Merge) {\n        var /**
@param {?} */ translatedAttrs = this._translateAttributes(el);\n        return new Element(el.name, translatedAttrs,
childNodes, el.sourceSpan, el.startSourceSpan, el.endSourceSpan);\n        }\n        return null;\n        };\n        /**\n        *
@param {?} attribute\n        * @param {?} context\n        * @return {?}\n        */\n        _Visitor.prototype.visitAttribute =
/**\n        * @param {?} attribute\n        * @param {?} context\n        * @return {?}\n        */\n        function (attribute,
context) {\n        throw new Error('unreachable code');\n        };\n        /**\n        * @param {?} mode\n        * @param {?}
interpolationConfig\n        * @return {?}\n        */\n        _Visitor.prototype._init = /**\n        * @param {?} mode\n        *
@param {?} interpolationConfig\n        * @return {?}\n        */\n        function (mode, interpolationConfig) {\n
this._mode = mode;\n        this._inI18nBlock = false;\n        this._inI18nNode = false;\n        this._depth = 0;\n
this._inIcu = false;\n        this._msgCountAtSectionStart = undefined;\n        this._errors = [];\n        this._messages =
[];\n        this._inImplicitNode = false;\n        this._createI18nMessage =
createI18nMessageFactory(interpolationConfig);\n        };\n        /**\n        * @param {?} el\n        * @return {?}\n        */\n
_Visitor.prototype._visitAttributesOf = /**\n        * @param {?} el\n        * @return {?}\n        */\n        function (el) {\n
var _this = this;\n        var /** @type {?} */ explicitAttrNameToValue = {};\n        var /** @type {?} */
implicitAttrNames = this._implicitAttrs[el.name] || [];\n        el.attrs.filter(function (attr) { return
attr.name.startsWith(_I18N_ATTR_PREFIX); })\n        .forEach(function (attr) {\n        return
explicitAttrNameToValue[attr.name.slice(_I18N_ATTR_PREFIX.length)] =\n        attr.value;\n        });\n
el.attrs.forEach(function (attr) {\n        if (attr.name in explicitAttrNameToValue) {\n
_this._addMessage([attr, explicitAttrNameToValue[attr.name]]);\n        }\n        else if
(implicitAttrNames.some(function (name) { return attr.name === name; })) {\n
_this._addMessage([attr]);\n        }\n        });\n        };\n        /**\n        * @param {?} ast\n        * @param {?=} msgMeta\n
        * @return {?}\n        */\n        _Visitor.prototype._addMessage = /**\n        * @param {?} ast\n        * @param {?=}
msgMeta\n        * @return {?}\n        */\n        function (ast, msgMeta) {\n        if (ast.length === 0 ||\n        ast.length === 1
&& ast[0] instanceof Attribute$1 && !(/** @type {?} */ (ast[0]).value) {\n        // Do not create empty
messages\n        return null;\n        }\n        var _a = _parseMessageMeta(msgMeta), meaning = _a.meaning,
description = _a.description, id = _a.id;\n        var /** @type {?} */ message = this._createI18nMessage(ast,
meaning, description, id);\n        this._messages.push(message);\n        return message;\n        };\n        /**\n        * @param
{?} el\n        * @param {?} message\n        * @return {?}\n        */\n        _Visitor.prototype._translateMessage = /**\n        *
@param {?} el\n        * @param {?} message\n        * @return {?}\n        */\n        function (el, message) {\n        if
(message && this._mode === _VisitorMode.Merge) {\n        var /** @type {?} */ nodes =
this._translations.get(message);\n        if (nodes) {\n        return nodes;\n        }\n
this._reportError(el, "Translation unavailable for message id=\\\\" + this._translations.digest(message) + "\\");\n
        }\n        return [];\n        };\n        /**\n        * @param {?} el\n        * @return {?}\n        */\n
_Visitor.prototype._translateAttributes = /**\n        * @param {?} el\n        * @return {?}\n        */\n        function (el) {\n
var _this = this;\n        var /** @type {?} */ attributes = el.attrs;\n        var /** @type {?} */
i18nParsedMessageMeta = {};\n        attributes.forEach(function (attr) {\n        if
(attr.name.startsWith(_I18N_ATTR_PREFIX)) {\n
i18nParsedMessageMeta[attr.name.slice(_I18N_ATTR_PREFIX.length)] =\n
_parseMessageMeta(attr.value);\n        }\n        });\n        var /** @type {?} */ translatedAttributes = [];\n
attributes.forEach(function (attr) {\n        if (attr.name === _I18N_ATTR ||
attr.name.startsWith(_I18N_ATTR_PREFIX)) {\n        // strip i18n specific attributes\n        return;\n

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    }\n      if (attr.value && attr.value != " && i18nParsedMessageMeta.hasOwnProperty(attr.name)) {\n
var _a = i18nParsedMessageMeta[attr.name], meaning = _a.meaning, description = _a.description, id = _a.id;\n
    var /** @type {?} */ message = _this._createI18nMessage([attr], meaning, description, id);\n      var /**\n
    @type {?} */ nodes = _this._translations.get(message);\n      if (nodes) {\n      if (nodes.length == 0)\n
{\n      translatedAttributes.push(new Attribute$(attr.name, "", attr.sourceSpan));\n      }\n
    else if (nodes[0] instanceof Text) {\n      var /** @type {?} */ value = (** @type {?} */\n
(nodes[0])).value;\n      translatedAttributes.push(new Attribute$(attr.name, value, attr.sourceSpan));\n
    }\n      else {\n      _this._reportError(el, "Unexpected translation for attribute \\\\" +\n
attr.name + \\\\" (id=\\\" + (id || _this._translations.digest(message)) + \\\\"));\n      }\n      }\n
    else {\n      _this._reportError(el, "Translation unavailable for attribute \\\\" + attr.name + \\\\" (\n
id=\\\" + (id || _this._translations.digest(message)) + \\\\"));\n      }\n      }\n      else {\n
translatedAttributes.push(attr);\n      }\n      });\n      return translatedAttributes;\n      };\n      /**\n
    * Add the\n
node as a child of the block when:\n      * - we are in a block,\n      * - we are not inside a ICU message (those are\n
handled separately),\n      * - the node is a \"direct child\" of the block\n      * @param {?} node\n      * @return {?}\n
*/\n      _Visitor.prototype._maybeAddBlockChildren = /**\n      * Add the node as a child of the block when:\n      * -\n
we are in a block,\n      * - we are not inside a ICU message (those are handled separately),\n      * - the node is a\n
\"direct child\" of the block\n      * @param {?} node\n      * @return {?}\n      */\n      function (node) {\n      if\n
(this._inI18nBlock && !this._inIcu && this._depth == this._blockStartDepth) {\n
this._blockChildren.push(node);\n      }\n      };\n      /**\n      * Marks the start of a section, see\n
_closeTranslatableSection`\n      * @param {?} node\n      * @return {?}\n      */\n      _Visitor.prototype._openTranslatableSection = /**\n      * Marks the start of a section, see\n
_closeTranslatableSection`\n      * @param {?} node\n      * @return {?}\n      */\n      function (node) {\n      if\n
(this._isInTranslatableSection) {\n      this._reportError(node, 'Unexpected section start');\n      }\n      else {\n
this._msgCountAtSectionStart = this._messages.length;\n      }\n      };\n
Object.defineProperty(_Visitor.prototype, \"_isInTranslatableSection\", {\n      get: /**\n      * A translatable\n
section could be:\n      * - the content of translatable element,\n      * - nodes between `<!-- i18n -->` and `<!--\n
/i18n -->` comments\n      * @return {?}\n      */\n      function () {\n      return\n
this._msgCountAtSectionStart !== void 0;\n      },\n      enumerable: true,\n      configurable: true\n      });\n
/**\n      * Terminates a section.\n      */\n      * If a section has only one significant children (comments not significant)\n
then we should not\n      * keep the message from this children:\n      * `<p i18n=\"meaning|description\">{ICU\n
message}</p>` would produce two messages:\n      * - one for the <p> content with meaning and description,\n      * -\n
another one for the ICU message.\n      * In this case the last message is discarded as it contains less\n
information (the AST is\n      * otherwise identical).\n      * Note that we should still keep messages extracted\n
from attributes inside the section (ie in the\n      * ICU message here)\n      * @param {?} node\n      * @param {?} directChildren\n
* @return {?}\n      */\n      _Visitor.prototype._closeTranslatableSection = /**\n      * Terminates a\n
section.\n      */\n      * If a section has only one significant children (comments not significant) then we should not\n
* keep the message from this children:\n      * `<p i18n=\"meaning|description\">{ICU message}</p>` would\n
produce two messages:\n      * - one for the <p> content with meaning and description,\n      * - another one for the\n
ICU message.\n      * In this case the last message is discarded as it contains less information (the AST is\n      * otherwise identical).\n      * Note that we should still keep messages extracted from attributes inside the section\n
(ie in the\n      * ICU message here)\n      * @param {?} node\n      * @param {?} directChildren\n      * @return {?}\n
*/\n      function (node, directChildren) {\n      if (!this._isInTranslatableSection) {\n      this._reportError(node,\n
'Unexpected section end');\n      return;\n      }\n      var /** @type {?} */ startIndex =\n
this._msgCountAtSectionStart;\n      var /** @type {?} */ significantChildren = directChildren.reduce(function\n
(count, node) { return count + (node instanceof Comment ? 0 : 1); }, 0);\n      if (significantChildren == 1) {\n
for (var /** @type {?} */ i = this._messages.length - 1; i >= /** @type {?} */ (startIndex); i--) {\n      var\n
/** @type {?} */ ast = this._messages[i].nodes;\n      if (!(ast.length == 1 && ast[0] instanceof Text$1)) {\n
this._messages.splice(i, 1);\n      break;\n      }\n      }\n      }\n

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this._msgCountAtSectionStart = undefined;\n  };\n  /**\n   * @param {?} node\n   * @param {?} msg\n   * @return {?}\n   */\n  _Visitor.prototype._reportError = /**\n   * @param {?} node\n   * @param {?} msg\n   * @return {?}\n   */\n  function (node, msg) {\n    this._errors.push(new I18nError(/** @type {?} */\n    ((node.sourceSpan)), msg));\n  };\n  return _Visitor;\n}());\n\n/**\n * @param {?} n\n * @return {?}\n */\nfunction\n_isOpeningComment(n) {\n  return !(n instanceof Comment && n.value && n.value.startsWith('i18n'));\n}\n\n/**\n * @param {?} n\n * @return {?}\n */\nfunction\n_isClosingComment(n) {\n  return !(n instanceof Comment &&\n  n.value && n.value === '/i18n');\n}\n\n/**\n * @param {?} p\n * @return {?}\n */\nfunction\n_getI18nAttr(p) {\n  return p.attrs.find(function (attr) { return attr.name === _I18N_ATTR; }) || null;\n}\n\n/**\n * @param {?} i18n\n * @return {?}\n */\nfunction\n_parseMessageMeta(i18n) {\n  if (!i18n)\n    return { meaning: '', description: '', id: ''\n  };\n  var /** @type {?} */ idIndex = i18n.indexOf(ID_SEPARATOR);\n  var /** @type {?} */ descIndex =\n  i18n.indexOf(MEANING_SEPARATOR);\n  var _a = (idIndex > -1) ? [i18n.slice(0, idIndex), i18n.slice(idIndex +\n  2)]: [i18n, ''];\n  meaningAndDesc = _a[0], id = _a[1];\n  var _b = (descIndex > -1) ?\n  [meaningAndDesc.slice(0, descIndex), meaningAndDesc.slice(descIndex + 1)]:\n  ['', meaningAndDesc];\n  meaning = _b[0], description = _b[1];\n  return { meaning: meaning, description: description, id: id };\n}\n\n/**\n * @fileoverview added by tsickle\n * @suppress {checkTypes} checked by tsc\n */\n\n/**\n * @license\n * Copyright Google Inc. All Rights Reserved.\n * Use of this source code is governed by an MIT-style license that\n * can be\n * found in the LICENSE file at https://angular.io/license\n */\n\nvar XmlTagDefinition = /** @class */\n(function () {\n  function XmlTagDefinition() {\n    this.closedByParent = false;\n    this.contentType =\n    TagContentType.PARSABLE_DATA;\n    this.isVoid = false;\n    this.ignoreFirstLf = false;\n    this.canSelfClose = true;\n  }\n  /**\n   * @param {?} currentParent\n   * @return {?}\n   */\n  XmlTagDefinition.prototype.requireExtraParent = /**\n   * @param {?} currentParent\n   * @return {?}\n   */\n  function (currentParent) { return false; };\n  /**\n   * @param {?} name\n   * @return {?}\n   */\n  XmlTagDefinition.prototype.isClosedByChild = /**\n   * @param {?} name\n   * @return {?}\n   */\n  function (name) { return false; };\n  return XmlTagDefinition;\n}());\n\nvar _TAG_DEFINITION = new\nXmlTagDefinition();\n\n/**\n * @param {?} tagName\n * @return {?}\n */\nfunction\n_getXmlTagDefinition(tagName) {\n  return _TAG_DEFINITION;\n}\n\n/**\n * @fileoverview added by tsickle\n * @suppress {checkTypes} checked by tsc\n */\n\n/**\n * @license\n * Copyright Google Inc. All Rights Reserved.\n * Use of this source code is governed by an MIT-style license that can be\n * found in the LICENSE file at\n * https://angular.io/license\n */\n\nvar XmlParser = /** @class */ (function (_super) {\n  __extends(XmlParser,\n  _super);\n  function XmlParser() {\n    return _super.call(this, getXmlTagDefinition) || this;\n  }\n  /**\n   * @param {?} source\n   * @param {?} url\n   * @param {?} parseExpansionForms\n   * @return {?}\n   */\n  XmlParser.prototype.parse = /**\n   * @param {?} source\n   * @param {?} url\n   * @param {?} parseExpansionForms\n   * @return {?}\n   */\n  function (source, url, parseExpansionForms) {\n    if\n    (parseExpansionForms === void 0) {\n      parseExpansionForms = false;\n    }\n    return _super.prototype.parse.call(this,\n    source, url, parseExpansionForms);\n  };\n  return XmlParser;\n})(Parser$1);\n\n/**\n * @fileoverview added by\n * tsickle\n * @suppress {checkTypes} checked by tsc\n */\n\n/**\n * @license\n * Copyright Google Inc. All Rights\n * Reserved.\n * Use of this source code is governed by an MIT-style license that can be\n * found in the\n * LICENSE file at https://angular.io/license\n */\n\n/**\n * @abstract\n */\nvar Serializer = /** @class */ (function ()\n{\n  function Serializer() {\n  }\n  // Creates a name mapper, see `PlaceholderMapper`\n  // Returning `null`\n  means that no name mapping is used.\n  /**\n   * @param {?} message\n   * @return {?}\n   */\n  Serializer.prototype.createNameMapper = /**\n   * @param {?} message\n   * @return {?}\n   */\n  function\n  (message) {\n    return null;\n  };\n  return Serializer;\n}());\n\n/**\n * A `PlaceholderMapper` converts placeholder names\n * from internal to serialized representation and\n * back.\n * It should be used for serialization format that put\n * constraints on the placeholder names.\n * @record\n */\n\n/**\n * A simple mapper that take a function to transform\n * an internal name to a public name\n */\nvar SimplePlaceholderMapper = /** @class */ (function (_super) {\n  __extends(SimplePlaceholderMapper,\n  _super);\n  // create a mapping from the message\n  function\n  SimplePlaceholderMapper(message, mapName) {\n    var _this = _super.call(this) || this;\n    _this.mapName =\n    mapName;\n    _this.internalToPublic = {};\n    _this.publicToNextId = {};\n    _this.publicToInternal =\n
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};\n    message.nodes.forEach(function (node) { return node.visit(_this); });\n    return _this;\n }\n /**\n * @param {?} internalName\n * @return {?} \n */\n SimplePlaceholderMapper.prototype.toPublicName =\n /**\n * @param {?} internalName\n * @return {?} \n */\n function (internalName) {\n    return\n    this.internalToPublic.hasOwnProperty(internalName) ?\n    this.internalToPublic[internalName] :\n    null;\n }; \n /**\n * @param {?} publicName\n * @return {?} \n */\n SimplePlaceholderMapper.prototype.toInternalName = /**\n * @param {?} publicName\n * @return {?} \n */\n function (publicName) {\n    return this.publicToInternal.hasOwnProperty(publicName) ?\n    this.publicToInternal[publicName] :\n    null;\n }; \n /**\n * @param {?} text\n * @param {?=} context\n * @return {?} \n */\n SimplePlaceholderMapper.prototype.visitText = /**\n * @param {?} text\n * @param {?=} context\n * @return {?} \n */\n function (text, context) { return null; }; \n /**\n * @param {?} ph\n * @param {?=} context\n * @return {?} \n */\n SimplePlaceholderMapper.prototype.visitTagPlaceholder = /**\n * @param {?} ph\n * @param {?=} context\n * @return {?} \n */\n function (ph, context) {\n    this.visitPlaceholderName(ph.startName);\n    _super.prototype.visitTagPlaceholder.call(this, ph, context);\n    this.visitPlaceholderName(ph.closeName);\n }; \n /**\n * @param {?} ph\n * @param {?=} context\n * @return {?} \n */\n SimplePlaceholderMapper.prototype.visitPlaceholder = /**\n * @param {?} ph\n * @param {?=} context\n * @return {?} \n */\n function (ph, context) { this.visitPlaceholderName(ph.name); }; \n /**\n * @param {?} ph\n * @param {?=} context\n * @return {?} \n */\n SimplePlaceholderMapper.prototype.visitIcuPlaceholder = /**\n * @param {?} ph\n * @param {?=} context\n * @return {?} \n */\n function (ph, context) {\n    this.visitPlaceholderName(ph.name);\n }; \n /**\n * @param {?} internalName\n * @return {?} \n */\n SimplePlaceholderMapper.prototype.visitPlaceholderName = /**\n * @param {?} internalName\n * @return {?} \n */\n function (internalName) {\n    if (!internalName ||\n    this.internalToPublic.hasOwnProperty(internalName)) {\n        return;\n    }\n    var /** @type {?} */\n    publicName = this.mapName(internalName);\n    if (this.publicToInternal.hasOwnProperty(publicName)) {\n        // Create a new XMB when it has already been used\n        var /** @type {?} */ nextId =\n        this.publicToNextId[publicName];\n        this.publicToNextId[publicName] = nextId + 1;\n        publicName =\n        publicName + \"_\" + nextId;\n    }\n    else {\n        this.publicToNextId[publicName] = 1;\n    }\n    this.internalToPublic[internalName] = publicName;\n    this.publicToInternal[publicName] = internalName;\n }; \n return SimplePlaceholderMapper;\n } (RecurseVisitor);\n\n/**\n * @fileoverview added by tsickle\n * @suppress {checkTypes} checked by tsc\n */\n\n/**\n * @license\n * Copyright Google Inc. All Rights Reserved.\n *\n * Use of this source code is governed by an MIT-style license that can be\n * found in the LICENSE file at\n * https://angular.io/license\n */\n\n/**\n * @record\n */\nvar _Visitor$1 = /** @class */ (function () {\n    function _Visitor() {\n    }\n\n    /**\n     * @param {?} tag\n     * @return {?} \n     */\n    _Visitor.prototype.visitTag = /**\n     * @param {?} tag\n     * @return {?} \n     */\n    function (tag) {\n        var _this = this;\n        var /** @type {?} */\n        strAttrs = this._serializeAttributes(tag.attrs);\n        if (tag.children.length == 0) {\n            return \"<\" + tag.name +\n            strAttrs + \"/>\";\n        }\n        var /** @type {?} */ strChildren = tag.children.map(function (node) { return\n        node.visit(_this); });\n        return \"<\" + tag.name + strAttrs + \"/>\" + strChildren.join(\"\") + \"<\" + tag.name +\n        \"/>\";\n    }; \n\n    /**\n     * @param {?} text\n     * @return {?} \n     */\n    _Visitor.prototype.visitText = /**\n     * @param {?} text\n     * @return {?} \n     */\n    function (text) { return text.value; }; \n\n    /**\n     * @param {?} decl\n     * @return {?} \n     */\n    _Visitor.prototype.visitDeclaration = /**\n     * @param {?} decl\n     * @return {?} \n     */\n    function (decl) {\n        return \"<?xml\" + this._serializeAttributes(decl.attrs) + \"?>\";\n    }; \n\n    /**\n     * @param {?} attrs\n     * @return {?} \n     */\n    _Visitor.prototype._serializeAttributes = /**\n     * @param {?} attrs\n     * @return {?} \n     */\n    function (attrs) {\n        var /** @type {?} */ strAttrs =\n        Object.keys(attrs).map(function (name) { return name + \"=\" + attrs[name] + \"\"; }).join('');\n        return\n        strAttrs.length > 0 ? \"'\" + strAttrs : \"\";\n    }; \n\n    /**\n     * @param {?} doctype\n     * @return {?} \n     */\n    _Visitor.prototype.visitDoctype = /**\n     * @param {?} doctype\n     * @return {?} \n     */\n    function (doctype) {\n        return \"<!DOCTYPE \" + doctype.rootTag + \" [\\n\" + doctype.dtd + \"\\n]>\";\n    }; \n    return

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_Visitor;\n})();\nvar _visitor = new _Visitor$1();\n/**\n * @param {?} nodes\n * @return {?}\n */\nfunction
serialize(nodes) {\n  return nodes.map(function (node) { return node.visit(_visitor); }).join("");\n}\n/**\n *
@record\n */\nvar Declaration = /** @class */ (function () {\n  function Declaration(unescapeAttrs) {\n    var
_this = this;\n    this.attrs = {};\n    Object.keys(unescapeAttrs).forEach(function (k) {\n      _this.attrs[k] =
_escapeXml(unescapeAttrs[k]);\n    });\n  }\n  /**\n   * @param {?} visitor\n   * @return {?}\n   */\n  Declaration.prototype.visit = /**\n   * @param {?} visitor\n   * @return {?}\n   */\n  function (visitor) { return
visitor.visitDeclaration(this); }\n  return Declaration;\n})();\nvar Doctype = /** @class */ (function () {\n
function Doctype(rootTag, dtd) {\n  this.rootTag = rootTag;\n  this.dtd = dtd;\n}\n  /**\n   * @param
{?} visitor\n   * @return {?}\n   */\n  Doctype.prototype.visit = /**\n   * @param {?} visitor\n   * @return
{?}\n   */\n  function (visitor) { return visitor.visitDoctype(this); }\n  return Doctype;\n})();\nvar Tag = /**
@class */ (function () {\n  function Tag(name, unescapeAttrs, children) {\n    if (unescapeAttrs === void 0) {\n
unescapeAttrs = {};\n    } if (children === void 0) { children = [];\n    } var _this = this;\n    this.name =
name;\n    this.children = children;\n    this.attrs = {};\n    Object.keys(unescapeAttrs).forEach(function (k)
{\n      _this.attrs[k] = _escapeXml(unescapeAttrs[k]);\n    });\n  }\n  /**\n   * @param {?} visitor\n   *
@return {?}\n   */\n  Tag.prototype.visit = /**\n   * @param {?} visitor\n   * @return {?}\n   */\n  function
(visitor) { return visitor.visitTag(this); }\n  return Tag;\n})();\nvar Text$2 = /** @class */ (function () {\n
function Text(unescapeValue) {\n  this.value = _escapeXml(unescapeValue);\n}\n  /**\n   * @param {?}
visitor\n   * @return {?}\n   */\n  Text.prototype.visit = /**\n   * @param {?} visitor\n   * @return {?}\n   */\n
function (visitor) { return visitor.visitText(this); }\n  return Text;\n})();\nvar CR = /** @class */ (function
(_super) {\n  __extends(CR, _super);\n  function CR(ws) {\n    if (ws === void 0) { ws = 0;\n    } return
_super.call(this, "\\n" + new Array(ws + 1).join(' ')) || this;\n  }\n  return CR;\n})(Text$2);\nvar
_ESCAPED_CHARS = [\n  [/\&/g, '&'],\n  [/\'/g, '"'],\n  [/\'/g, '''],\n  [/\</g, '<'],\n  [/\>/g,
'>'],\n  [/\>/g, '>'];\n  /**\n   * @param {?} text\n   * @return {?}\n   */\n  function _escapeXml(text) {\n
return
_ESCAPED_CHARS.reduce(function (text, entry) { return text.replace(entry[0], entry[1]); }, text);\n}\n}\n/**\n *
@fileoverview added by tsickle\n * @suppress {checkTypes} checked by tsc\n */\n/**\n * @license\n * Copyright
Google Inc. All Rights Reserved.\n * Use of this source code is governed by an MIT-style license that can be\n *
found in the LICENSE file at https://angular.io/license\n */\nvar _VERSION = '1.2';\nvar _XMLNS =
'urn:oasis:names:tc:xliff:document:1.2';\n// TODO(vich): make this a param (s/_/-)\nvar
_DEFAULT_SOURCE_LANG = 'en';\nvar _PLACEHOLDER_TAG = 'x';\nvar _FILE_TAG = 'file';\nvar
_SOURCE_TAG = 'source';\nvar _TARGET_TAG = 'target';\nvar _UNIT_TAG = 'trans-unit';\nvar
_CONTEXT_GROUP_TAG = 'context-group';\nvar _CONTEXT_TAG = 'context';\nvar Xliff = /** @class */
(function (_super) {\n  __extends(Xliff, _super);\n  function Xliff() {\n    return _super !== null &&
_super.apply(this, arguments) || this;\n  }\n  /**\n   * @param {?} messages\n   * @param {?} locale\n   *
@return {?}\n   */\n  Xliff.prototype.write = /**\n   * @param {?} messages\n   * @param {?} locale\n   *
@return {?}\n   */\n  function (messages, locale) {\n    var /** @type {?} */ visitor = new _WriteVisitor();\n    var
/** @type {?} */ transUnits = [];\n    messages.forEach(function (message) {\n      var /** @type {?} */
contextTags = [];\n      message.sources.forEach(function (source) {\n        var /** @type {?} */
contextGroupTag = new Tag(_CONTEXT_GROUP_TAG, { purpose: 'location' });\n        contextGroupTag.children.push(new
CR(10), new Tag(_CONTEXT_TAG, { 'context-type': 'sourcefile' }, [new Text$2(source.filePath)], new CR(10), new
Tag(_CONTEXT_TAG, { 'context-type': 'linenumber' }, [new Text$2("\\n" + source.startLine)], new CR(8));\n        contextTags.push(new CR(8), contextGroupTag);\n      });\n      var /** @type {?} */ transUnit = new Tag(_UNIT_TAG, { id: message.id, datatype: 'html' });\n      (_a = transUnit.children).push.apply(_a, [new CR(8), new Tag(_SOURCE_TAG, {}),
visitor.serialize(message.nodes)].concat(contextTags));\n      if (message.description) {\n        transUnit.children.push(new CR(8), new Tag('note', { priority: '1', from: 'description' }, [new
Text$2(message.description)]));\n      }\n      if (message.meaning) {\n        transUnit.children.push(new
CR(8), new Tag('note', { priority: '1', from: 'meaning' }, [new Text$2(message.meaning)]));\n      }\n      transUnit.children.push(new CR(6));\n      transUnits.push(new CR(6), transUnit);\n      var _a;\n    });\n  }\n}

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var /** @type {?} */ body = new Tag('body', {}, transUnits.concat([new CR(4)]));\n      var /** @type {?} */ file
= new Tag('file', {\n          'source-language': locale || _DEFAULT_SOURCE_LANG,\n          datatype:
'plaintext',\n          original: 'ng2.template',\n          }, [new CR(4), body, new CR(2)]);\n      var /** @type {?} */
xliff = new Tag('xliff', { version: _VERSION, xmlns: _XMLNS }, [new CR(2), file, new CR(0)]);\n      return
serialize([\n          new Declaration({ version: '1.0', encoding: 'UTF-8' }), new CR(), xliff, new CR()\n      ]);\n
};\n /**\n * @param {?} content\n * @param {?} url\n * @return {?} */\n *^\n Xliff.prototype.load =
/**\n * @param {?} content\n * @param {?} url\n * @return {?} */\n *^\n function (content, url) {\n //
xliff to xml nodes\n      var /** @type {?} */ xliftParser = new XliftParser();\n      var _a =
xliffParser.parse(content, url), locale = _a.locale, msgIdToHtml = _a.msgIdToHtml, errors = _a.errors;\n // xml
nodes to i18n nodes\n      var /** @type {?} */ i18nNodesByMsgId = {};\n      var /** @type {?} */ converter =
new XmlToI18n();\n      Object.keys(msgIdToHtml).forEach(function (msgId) {\n          var _a =
converter.convert(msgIdToHtml[msgId], url), i18nNodes = _a.i18nNodes, e = _a.errors;\n
errors.push.apply(errors, e);\n          i18nNodesByMsgId[msgId] = i18nNodes;\n      });\n      if (errors.length) {\n
          throw new Error("\xliff parse errors:\n" + errors.join("\n"));
      }\n      return { locale: /** @type {?} */
((locale)), i18nNodesByMsgId: i18nNodesByMsgId };
};\n /**\n * @param {?} message\n * @return
{?}\n *^\n Xliff.prototype.digest = /**\n * @param {?} message\n * @return {?} */\n *^\n function
(message) { return digest(message); };\n      return Xliff;\n})(Serializer);\nvar _WriteVisitor = /** @class */ (function
() {\n      function _WriteVisitor() {\n      }\n      /**\n * @param {?} text\n * @param {?=} context\n * @return
{?}\n *^\n _WriteVisitor.prototype.visitText = /**\n * @param {?} text\n * @param {?=} context\n *
@return {?} */\n *^\n function (text, context) { return [new Text$2(text.value)]; };\n      /**\n * @param {?}
container\n * @param {?=} context\n * @return {?} */\n *^\n _WriteVisitor.prototype.visitContainer = /**\n
* @param {?} container\n * @param {?=} context\n * @return {?} */\n *^\n function (container, context)
{\n          var _this = this;\n          var /** @type {?} */ nodes = [];\n          container.children.forEach(function (node) {\n
return nodes.push.apply(nodes, node.visit(_this)); });\n          return nodes;\n      });\n      /**\n * @param {?} icu\n *
@param {?=} context\n * @return {?} */\n *^\n _WriteVisitor.prototype.visitIcu = /**\n * @param {?} icu\n
* @param {?=} context\n * @return {?} */\n *^\n function (icu, context) {\n          var _this = this;\n          var /**
* @type {?} */ nodes = [new Text$2("\{" + icu.expressionPlaceholder + "\", \" + icu.type + "\", \");\n
Object.keys(icu.cases).forEach(function (c) {\n          nodes.push.apply(nodes, [new Text$2(c + "\n
{\n\n}).concat(icu.cases[c].visit(_this), [new Text$2("\n\n)"));
      });\n          nodes.push(new Text$2("\n\n));\n
return nodes;\n      });\n      /**\n * @param {?} ph\n * @param {?=} context\n * @return {?} */\n *^\n
_WriteVisitor.prototype.visitTagPlaceholder = /**\n * @param {?} ph\n * @param {?=} context\n *
@return {?} */\n *^\n function (ph, context) {\n          var /** @type {?} */ ctype = getCtypeForTag(ph.tag);\n
if (ph.isVoid) {\n          // void tags have no children nor closing tags\n          return [new
Tag(_PLACEHOLDER_TAG, { id: ph.startName, ctype: ctype, 'equiv-text': "<" + ph.tag + ">" });
      }\n          var /** @type {?} */ startTagPh = new Tag(_PLACEHOLDER_TAG, { id: ph.startName, ctype: ctype, 'equiv-
text': "<" + ph.tag + ">" });\n          var /** @type {?} */ closeTagPh = new Tag(_PLACEHOLDER_TAG, { id:
ph.closeName, ctype: ctype, 'equiv-text': "<" + ph.tag + ">" });\n          return
[startTagPh].concat(this.serialize(ph.children), [closeTagPh]);
      });\n      /**\n * @param {?} ph\n * @param
{?=} context\n * @return {?} */\n *^\n _WriteVisitor.prototype.visitPlaceholder = /**\n * @param {?} ph\n
* @param {?=} context\n * @return {?} */\n *^\n function (ph, context) {\n          return [new
Tag(_PLACEHOLDER_TAG, { id: ph.name, 'equiv-text': "\{" + ph.value + "\}" });
      ];\n      /**\n *
@param {?} ph\n * @param {?=} context\n * @return {?} */\n *^\n
_WriteVisitor.prototype.visitIcuPlaceholder = /**\n * @param {?} ph\n * @param {?=} context\n * @return
{?}\n *^\n function (ph, context) {\n          var /** @type {?} */ equivText = "\{" + ph.value.expression + "\", \" +
ph.value.type + "\", \" + Object.keys(ph.value.cases).map(function (value) { return value + '...'; }).join(' ') +
"\n\n";\n          return [new Tag(_PLACEHOLDER_TAG, { id: ph.name, 'equiv-text': equivText });
      ];\n      /**\n *
@param {?} nodes\n * @return {?} */\n *^\n _WriteVisitor.prototype.serialize = /**\n * @param {?}
nodes\n * @return {?} */\n *^\n function (nodes) {\n          var _this = this;\n          return [].concat.apply([],

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nodes.map(function (node) { return node.visit(_this); });\n    }\n    return _WriteVisitor;\n\n});\n\nvar XliffParser =
/** @class */ (function () {\n    function XliffParser() {\n        this._locale = null;\n    }\n    /**\n     * @param {?}
xliff\n     * @param {?} url\n     * @return {?}\n     */\n    XliffParser.prototype.parse = /**\n     * @param {?}
xliff\n     * @param {?} url\n     * @return {?}\n     */\n    function (xliff, url) {\n        this._unitMIString = null;\n        this._msgIdToHtml = {};\n        var /** @type {?} */ xml = new XmlParser().parse(xliff, url, false);\n        this._errors = xml.errors;\n        visitAll(this, xml.rootNodes, null);\n        return {\n            msgIdToHtml:
this._msgIdToHtml,\n            errors: this._errors,\n            locale: this._locale,\n        };\n    };\n    /**\n     * @param
{?} element\n     * @param {?} context\n     * @return {?}\n     */\n    XliffParser.prototype.visitElement = /**\n     *
@param {?} element\n     * @param {?} context\n     * @return {?}\n     */\n    function (element, context) {\n        switch (element.name) {\n            case _UNIT_TAG:\n                this._unitMIString = /** @type {?} */ ((null));\n                var /** @type {?} */ idAttr = element.attrs.find(function (attr) { return attr.name === 'id'; });\n                if (!idAttr) {\n                    this._addError(element, '<' + _UNIT_TAG + '> misses the \\\"id\\\" attribute');\n                }\n                else {\n                    var /** @type {?} */ id = idAttr.value;\n                    if (this._msgIdToHtml.hasOwnProperty(id)) {\n                        this._addError(element, 'Duplicated translations for msg \'' + id);\n                    }\n                    else {\n                        visitAll(this, element.children, null);\n                        if (typeof this._unitMIString === 'string') {\n                            this._msgIdToHtml[id] = this._unitMIString;\n                        }\n                        else {\n                            this._addError(element, 'Message \'' + id + '\'' misses a translation');\n                        }\n                    }\n                    break;\n                }\n            case _SOURCE_TAG:\n                // ignore source message\n                break;\n            case _TARGET_TAG:\n                var /** @type {?} */ innerTextStart = /** @type {?} */ ((element.startSourceSpan).end.offset);\n                var /** @type {?} */ innerTextEnd = /** @type {?} */ ((element.endSourceSpan).start.offset);\n                var /** @type {?} */ content = /** @type {?} */ ((element.startSourceSpan).start.file.content);\n                var /** @type {?} */ innerText = content.slice(innerTextStart, innerTextEnd);\n                this._unitMIString = innerText;\n                break;\n            case _FILE_TAG:\n                var /** @type {?} */ localeAttr = element.attrs.find(function (attr) { return attr.name === 'target-language'; });\n                if (localeAttr) {\n                    this._locale = localeAttr.value;\n                }\n                visitAll(this, element.children, null);\n                break;\n            default:\n                // TODO(vicb): assert file structure, xliff version\n                // For now only recurse on unhandled nodes\n                visitAll(this, element.children, null);\n        }\n    };\n    /**\n     * @param {?} attribute\n     * @param {?} context\n     * @return {?}\n     */\n    XliffParser.prototype.visitAttribute = /**\n     * @param {?} attribute\n     * @param {?} context\n     * @return {?}\n     */\n    function (attribute, context) {\n    };\n    /**\n     * @param {?} text\n     * @param {?} context\n     * @return {?}\n     */\n    XliffParser.prototype.visitText = /**\n     * @param {?} text\n     * @param {?} context\n     * @return {?}\n     */\n    function (text, context) {\n    };\n    /**\n     * @param {?} comment\n     * @param {?} context\n     * @return {?}\n     */\n    XliffParser.prototype.visitComment = /**\n     * @param {?} comment\n     * @param {?} context\n     * @return {?}\n     */\n    function (comment, context) {\n    };\n    /**\n     * @param {?} expansion\n     * @param {?} context\n     * @return {?}\n     */\n    XliffParser.prototype.visitExpansion = /**\n     * @param {?} expansion\n     * @param {?} context\n     * @return {?}\n     */\n    function (expansion, context) {\n    };\n    /**\n     * @param {?} expansionCase\n     * @param {?} context\n     * @return {?}\n     */\n    XliffParser.prototype.visitExpansionCase = /**\n     * @param {?} expansionCase\n     * @param {?} context\n     * @return {?}\n     */\n    function (expansionCase, context) {\n    };\n    /**\n     * @param {?} node\n     * @param {?} message\n     * @return {?}\n     */\n    XliffParser.prototype._addError = /**\n     * @param {?} node\n     * @param {?} message\n     * @return {?}\n     */\n    function (node, message) {\n        this._errors.push(new I18nError(/** @type {?} */ ((node.sourceSpan), message));\n    };\n    return XliffParser;\n\n});\n\nvar XmlToI18n = /** @class */ (function () {\n    function XmlToI18n() {\n    }\n    /**\n     * @param {?} message\n     * @param {?} url\n     * @return {?}\n     */\n    XmlToI18n.prototype.convert = /**\n     * @param {?} message\n     * @param {?} url\n     * @return {?}\n     */\n    function (message, url) {\n        var /** @type {?} */ xmlIcu = new XmlParser().parse(message, url, true);\n        this._errors = xmlIcu.errors;\n        var /** @type {?} */ i18nNodes = this._errors.length > 0 || xmlIcu.rootNodes.length == 0 ?\n        []\n        :\n        visitAll(this, xmlIcu.rootNodes);\n        return {\n
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i18nNodes: i18nNodes,\n      errors: this._errors,\n    ];\n  };\n  /**\n   * @param {?} text\n   * @param\n   {?} context\n   * @return {?}\n   */\n  XmlToI18n.prototype.visitText = /**\n   * @param {?} text\n   * @param {?} context\n   * @return {?}\n   */\n  function (text, context) {\n    return new Text$(text.value, /**\n     * @type {?} */ ((text.sourceSpan))); }\n  };\n  /**\n   * @param {?} el\n   * @param {?} context\n   * @return {?}\n   */\n  XmlToI18n.prototype.visitElement = /**\n   * @param {?} el\n   * @param {?} context\n   * @return\n   {?}\n   */\n  function (el, context) {\n    if (el.name === _PLACEHOLDER_TAG) {\n      var /** @type\n       {?} */ nameAttr = el.attrs.find(function (attr) {\n        return attr.name === 'id';\n      });\n      if (nameAttr) {\n        return new Placeholder(" " + nameAttr.value, /** @type {?} */ ((el.sourceSpan)));\n      }\n      this._addError(el, "<" + _PLACEHOLDER_TAG + "> misses the \"id\" attribute");\n    } else {\n      this._addError(el, "Unexpected tag");\n    }\n    return null;\n  };\n  /**\n   * @param {?} icu\n   * @param {?} context\n   * @return {?}\n   */\n  XmlToI18n.prototype.visitExpansion = /**\n   * @param {?} icu\n   * @param {?} context\n   * @return {?}\n   */\n  function (icu, context) {\n    var /** @type {?} */\n    caseMap = {};\n    visitAll(this, icu.cases).forEach(function (c) {\n      caseMap[c.value] = new\n      Container(c.nodes, icu.sourceSpan);\n    });\n    return new Icu(icu.switchValue, icu.type, caseMap,\n    icu.sourceSpan);\n  };\n  /**\n   * @param {?} icuCase\n   * @param {?} context\n   * @return {?}\n   */\n  XmlToI18n.prototype.visitExpansionCase = /**\n   * @param {?} icuCase\n   * @param {?} context\n   * @return {?}\n   */\n  function (icuCase, context) {\n    return {\n      value: icuCase.value,\n      nodes:\n      visitAll(this, icuCase.expression);\n    };\n  };\n  /**\n   * @param {?} comment\n   * @param {?} context\n   * @return {?}\n   */\n  XmlToI18n.prototype.visitComment = /**\n   * @param {?} comment\n   * @param\n   {?} context\n   * @return {?}\n   */\n  function (comment, context) {\n    };\n  };\n  /**\n   * @param {?} attribute\n   * @param {?} context\n   * @return {?}\n   */\n  XmlToI18n.prototype.visitAttribute = /**\n   * @param {?} attribute\n   * @param {?} context\n   * @return {?}\n   */\n  function (attribute, context) {\n    };\n  };\n  /**\n   * @param {?} node\n   * @param {?} message\n   * @return {?}\n   */\n  XmlToI18n.prototype._addError =\n  /**\n   * @param {?} node\n   * @param {?} message\n   * @return {?}\n   */\n  function (node, message) {\n    this._errors.push(new I18nError(/** @type {?} */ ((node.sourceSpan)), message));\n  };\n  return\n  XmlToI18n;\n})();\n\n/**\n * @param {?} tag\n * @return {?}\n */\nfunction getCtypeForTag(tag) {\n  switch\n  (tag.toLowerCase()) {\n    case 'br':\n      return 'lb';\n    case 'img':\n      return 'image';\n    default:\n      return \"x-\" + tag;\n  }\n}\n\n/**\n * @fileoverview added by tsickle\n * @suppress {checkTypes} checked\n  by tsc\n * @license\n * Copyright Google Inc. All Rights Reserved.\n * Use of this source code is\n  governed by an MIT-style license that can be\n * found in the LICENSE file at https://angular.io/license\n * @nvar\n  _VERSION$1 = '2.0';\n * @nvar _XMLNS$1 = 'urn:oasis:names:tc:xliff:document:2.0';\n * @nvar\n  TODO(vicb): make this a\n  param (s/_/-)\n * @nvar _DEFAULT_SOURCE_LANG$1 = 'en';\n * @nvar _PLACEHOLDER_TAG$1 = 'ph';\n * @nvar\n  _PLACEHOLDER_SPANNING_TAG = 'pc';\n * @nvar _XLIFF_TAG = 'xliff';\n * @nvar _SOURCE_TAG$1 = 'source';\n * @nvar\n  _TARGET_TAG$1 = 'target';\n * @nvar _UNIT_TAG$1 = 'unit';\n * @nvar Xliff2 = /** @class */ (function (_super) {\n  __extends(Xliff2, _super);\n  function Xliff2() {\n    return _super !== null && _super.apply(this, arguments) ||\n    this;\n  }\n  /**\n   * @param {?} messages\n   * @param {?} locale\n   * @return {?}\n   */\n  Xliff2.prototype.write = /**\n   * @param {?} messages\n   * @param {?} locale\n   * @return {?}\n   */\n  function (messages, locale) {\n    var /** @type {?} */ visitor = new _WriteVisitor$1();\n    var /** @type {?}\n     */ units = [];\n    messages.forEach(function (message) {\n      var /** @type {?} */ unit = new\n      Tag(_UNIT_TAG$1, { id: message.id });\n      var /** @type {?} */ notes = new Tag('notes');\n      if\n      (message.description || message.meaning) {\n        if (message.description) {\n          notes.children.push(new CR(8), new Tag('note', { category: 'description' }, [new Text$2(message.description)]));\n        }\n        if (message.meaning) {\n          notes.children.push(new CR(8), new Tag('note', {\n          category: 'meaning' }, [new Text$2(message.meaning)]));\n        }\n      }\n      message.sources.forEach(function (source) {\n        notes.children.push(new CR(8), new Tag('note', { category:\n        'location' }, [new\n        Text$2(source.filePath + ":" + source.startLine + (source.endLine !==\n        source.startLine ? ',' + source.endLine : ''))\n        ]));\n      });\n      notes.children.push(new CR(6));\n      unit.children.push(new CR(6), notes);\n      var /** @type {?} */ segment = new Tag('segment');\n    });\n  }\n}

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segment.children.push(new CR(8), new Tag(_SOURCE_TAG$1, {}, visitor.serialize(message.nodes)), new
CR(6));\n      unit.children.push(new CR(6), segment, new CR(4));\n      units.push(new CR(4), unit);\n    });\n    var /** @type {?} */ file = new Tag('file', { 'original': 'ng.template', id: 'ngi18n' }, units.concat([new
CR(2)]));\n    var /** @type {?} */ xliiff = new Tag(_XLIFF_TAG, { version: _VERSION$1, xmlns:
_XMLNNS$1, srcLang: locale || _DEFAULT_SOURCE_LANG$1 }, [new CR(2), file, new CR()]);\n    return
serialize([\n      new Declaration({ version: '1.0', encoding: 'UTF-8' }), new CR(), xliiff, new CR()\n    ]);\n  };\n  /**\n   * @param {?} content\n   * @param {?} url\n   * @return {?}\n   */\n  Xliiff2.prototype.load =
/**\n   * @param {?} content\n   * @param {?} url\n   * @return {?}\n   */\n  function (content, url) {\n    //
xliiff to xml nodes\n    var /** @type {?} */ xliiff2Parser = new Xliiff2Parser();\n    var _a =
xliiff2Parser.parse(content, url), locale = _a.locale, msgIdToHtml = _a.msgIdToHtml, errors = _a.errors;\n    // xml
nodes to i18n nodes\n    var /** @type {?} */ i18nNodesByMsgId = {};\n    var /** @type {?} */ converter =
new XmlToI18n$1();\n    Object.keys(msgIdToHtml).forEach(function (msgId) {\n      var _a =
converter.convert(msgIdToHtml[msgId], url), i18nNodes = _a.i18nNodes, e = _a.errors;\n      errors.push.apply(errors, e);\n      i18nNodesByMsgId[msgId] = i18nNodes;\n    });\n    if (errors.length) {\n      throw new Error("\x22xliiff2 parse errors:\n" + errors.join("\n"));
\n    }\n    return { locale: /** @type {?} */
(locale), i18nNodesByMsgId: i18nNodesByMsgId };
\n  };\n  /**\n   * @param {?} message\n   * @return
{?}\n   */\n  Xliiff2.prototype.digest = /**\n   * @param {?} message\n   * @return {?}\n   */\n  function
(message) {\n    return decimalDigest(message);\n  };\n  return Xliiff2;\n})(Serializer);\nvar _WriteVisitor$1 = /** @class
*/\n(function () {\n  function _WriteVisitor() {\n    }\n    /**\n     * @param {?} text\n     * @param {?=} context\n     * @return {?}\n     */\n    _WriteVisitor.prototype.visitText = /**\n     * @param {?} text\n     * @param {?=}
context\n     * @return {?}\n     */\n    function (text, context) {\n      return [new Text$2(text.value)];
\n    };\n    /**\n     * @param {?} container\n     * @param {?=} context\n     * @return {?}\n     */\n    _WriteVisitor.prototype.visitContainer = /**\n     * @param {?} container\n     * @param {?=} context\n     *
@return {?}\n     */\n    function (container, context) {\n      var _this = this;\n      var /** @type {?} */ nodes =
[];\n      container.children.forEach(function (node) {\n        return nodes.push.apply(nodes, node.visit(_this));
\n      });\n      return nodes;\n    };\n    /**\n     * @param {?} icu\n     * @param {?=} context\n     * @return {?}\n     */\n    _WriteVisitor.prototype.visitIcu = /**\n     * @param {?} icu\n     * @param {?=} context\n     * @return {?}\n     */\n    function (icu, context) {\n      var _this = this;\n      var /** @type {?} */ nodes = [new Text$2("\n" +
icu.expressionPlaceholder + "\n", "\n" + icu.type + "\n", "\n")];\n      Object.keys(icu.cases).forEach(function (c) {\n        nodes.push.apply(nodes, [new Text$2(c + "\n").concat(icu.cases[c].visit(_this), [new Text$2("\n")]);
\n      });\n      nodes.push(new Text$2("\n"));
\n      return nodes;\n    };\n    /**\n     * @param {?} ph\n     * @param {?=}
context\n     * @return {?}\n     */\n    _WriteVisitor.prototype.visitTagPlaceholder = /**\n     * @param {?} ph\n     * @param {?=} context\n     * @return {?}\n     */\n    function (ph, context) {\n      var _this = this;\n      var /**
@type {?} */ type = getTypeForTag(ph.tag);\n      if (ph.isVoid) {\n        var /** @type {?} */ tagPh = new
Tag(_PLACEHOLDER_TAG$1, {\n          id: (this._nextPlaceholderId++).toString(),\n          equiv:
ph.startName,\n          type: type,\n          disp: "<" + ph.tag + ">",\n        });\n        return [tagPh];\n      }
\n      var /** @type {?} */ tagPc = new Tag(_PLACEHOLDER_SPANNING_TAG, {\n        id:
(this._nextPlaceholderId++).toString(),\n        equivStart: ph.startName,\n        equivEnd: ph.closeName,\n        type: type,\n        dispStart: "<" + ph.tag + ">",\n        dispEnd: "<" + ph.tag + ">",\n      });\n      var
/** @type {?} */ nodes = [].concat.apply([], ph.children.map(function (node) {\n        return node.visit(_this);
\n      }));\n      if (nodes.length) {\n        nodes.forEach(function (node) {\n          return tagPc.children.push(node);
\n        });\n      } else {\n        tagPc.children.push(new Text$2(""));
\n      }\n      return [tagPc];\n    };\n    /**\n     * @param {?} ph\n     * @param {?=} context\n     * @return {?}\n     */\n    _WriteVisitor.prototype.visitPlaceholder = /**\n     * @param {?} ph\n     * @param {?=} context\n     * @return {?}\n     */\n    function (ph, context) {\n      var /**
@type {?} */ idStr = (this._nextPlaceholderId++).toString();\n      return [new Tag(_PLACEHOLDER_TAG$1,
{\n        id: idStr,\n        equiv: ph.name,\n        disp: "{" + ph.value + "}",\n      });
\n    };\n    /**\n     * @param {?} ph\n     * @param {?=} context\n     * @return {?}\n     */\n    _WriteVisitor.prototype.visitIcuPlaceholder = /**\n     * @param {?} ph\n     * @param {?=} context\n     * @return
{?}\n     */\n    function (ph, context) {\n      var /** @type {?} */ icu = new IcuPlaceholder$1(ph.name, ph.value, ph.type);\n      return [icu.visit(_this)];\n    };\n  }\n  _WriteVisitor.prototype.visitText = /**\n   * @param {?} text\n   * @param {?=} context\n   * @return {?}\n   */\n  function (text, context) {\n    return [new Text$2(text.value)];
\n  };\n  _WriteVisitor.prototype.visitContainer = /**\n   * @param {?} container\n   * @param {?=} context\n   * @return {?}\n   */\n  function (container, context) {\n    var _this = this;\n    var /** @type {?} */ nodes =
[];\n    container.children.forEach(function (node) {\n      return nodes.push.apply(nodes, node.visit(_this));
\n    });\n    return nodes;\n  };\n  _WriteVisitor.prototype.visitIcu = /**\n   * @param {?} icu\n   * @param {?=} context\n   * @return {?}\n   */\n  function (icu, context) {\n    var _this = this;\n    var /** @type {?} */ nodes = [new Text$2("\n" +
icu.expressionPlaceholder + "\n", "\n" + icu.type + "\n", "\n")];\n    Object.keys(icu.cases).forEach(function (c) {\n      nodes.push.apply(nodes, [new Text$2(c + "\n").concat(icu.cases[c].visit(_this), [new Text$2("\n")]);
\n    });\n    nodes.push(new Text$2("\n"));
\n    return nodes;\n  };\n  _WriteVisitor.prototype.visitTagPlaceholder = /**\n   * @param {?} ph\n   * @param {?=} context\n   * @return {?}\n   */\n  function (ph, context) {\n    var _this = this;\n    var /** @type {?} */ type =
getTypeForTag(ph.tag);\n    if (ph.isVoid) {\n      var /** @type {?} */ tagPh = new Tag(_PLACEHOLDER_TAG$1, {\n        id: (this._nextPlaceholderId++).toString(),\n        equiv: ph.startName,\n        type: type,\n        disp: "<" + ph.tag + ">",\n      });\n      return [tagPh];\n    }
\n    var /** @type {?} */ tagPc = new Tag(_PLACEHOLDER_SPANNING_TAG, {\n      id:
(this._nextPlaceholderId++).toString(),\n      equivStart: ph.startName,\n      equivEnd: ph.closeName,\n      type: type,\n      dispStart: "<" + ph.tag + ">",\n      dispEnd: "<" + ph.tag + ">",\n    });\n    var
/** @type {?} */ nodes = [].concat.apply([], ph.children.map(function (node) {\n      return node.visit(_this);
\n    }));\n    if (nodes.length) {\n      nodes.forEach(function (node) {\n        return tagPc.children.push(node);
\n      });\n    } else {\n      tagPc.children.push(new Text$2(""));
\n    }\n    return [tagPc];\n  };\n  _WriteVisitor.prototype.visitPlaceholder = /**\n   * @param {?} ph\n   * @param {?=} context\n   * @return {?}\n   */\n  function (ph, context) {\n    var /** @type {?} */ idStr = (this._nextPlaceholderId++).toString();\n    return [new Tag(_PLACEHOLDER_TAG$1,
{\n      id: idStr,\n      equiv: ph.name,\n      disp: "{" + ph.value + "}",\n    });
\n  };\n  _WriteVisitor.prototype.visitIcuPlaceholder = /**\n   * @param {?} ph\n   * @param {?=} context\n   * @return
{?}\n   */\n  function (ph, context) {\n    var /** @type {?} */ icu = new IcuPlaceholder$1(ph.name, ph.value, ph.type);\n    return [icu.visit(_this)];\n  };\n}();\nvar Xliiff2 = Xliiff2;\nvar _WriteVisitor = _WriteVisitor$1;\n}

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{?}\n  *\n  function (ph, context) {\n    var /** @type {?} */ cases =
Object.keys(ph.value.cases).map(function (value) { return value + ' ...'; }).join(' ');
    var /** @type {?} */
idStr = (this._nextPlaceholderId++).toString();
    return [new Tag(_PLACEHOLDER_TAG$1, { id: idStr,
equiv: ph.name, disp: \"{' + ph.value.expression + '\", \" + ph.value.type + '\", \" + cases + \"}\" });\n  ];\n  /**\n  * @param {?} nodes\n  * @return {?} \n  *\n  _WriteVisitor.prototype.serialize = /**\n  * @param {?}
nodes\n  * @return {?} \n  *\n  function (nodes) {\n    var _this = this;\n    this._nextPlaceholderId = 0;\n
return [].concat.apply([], nodes.map(function (node) { return node.visit(_this); }));\n  };\n  return
_WriteVisitor;\n})();\nvar Xliff2Parser = /** @class */ (function () {\n  function Xliff2Parser() {\n    this._locale
= null;\n  }\n  /**\n  * @param {?} xliff\n  * @param {?} url\n  * @return {?} \n  *\n  Xliff2Parser.prototype.parse = /**\n  * @param {?} xliff\n  * @param {?} url\n  * @return {?} \n  *\n  function (xliff, url) {\n    this._unitMlString = null;\n    this._msgIdToHtml = {};\n    var /** @type {?} */
xml = new XmlParser().parse(xliff, url, false);\n    this._errors = xml.errors;\n    visitAll(this, xml.rootNodes,
null);\n    return {\n      msgIdToHtml: this._msgIdToHtml,\n      errors: this._errors,\n      locale:
this._locale,\n    };\n  };\n  /**\n  * @param {?} element\n  * @param {?} context\n  * @return {?} \n  *\n  Xliff2Parser.prototype.visitElement = /**\n  * @param {?} element\n  * @param {?} context\n  *
@return {?} \n  *\n  function (element, context) {\n    switch (element.name) {\n      case
_UNIT_TAG$1:\n        this._unitMlString = null;\n        var /** @type {?} */ idAttr =
element.attrs.find(function (attr) { return attr.name === 'id'; });\n        if (!idAttr) {\n
this._addError(element, \"<\" + _UNIT_TAG$1 + \"> misses the \"id\" attribute\");\n        }\n        else
{\n          var /** @type {?} */ id = idAttr.value;\n          if (this._msgIdToHtml.hasOwnProperty(id))
{\n            this._addError(element, \"Duplicated translations for msg \" + id);\n          }\n
        else {\n          visitAll(this, element.children, null);\n          if (typeof this._unitMlString ===
'string') {\n            this._msgIdToHtml[id] = this._unitMlString;\n          }\n          else {\n
            this._addError(element, \"Message \" + id + \" misses a translation\");\n          }\n
        }\n      }\n    }\n    break;\n    case _SOURCE_TAG$1:\n      // ignore source message\n
break;\n    case _TARGET_TAG$1:\n      var /** @type {?} */ innerTextStart = /** @type {?} */
((element.startSourceSpan).end.offset);\n      var /** @type {?} */ innerTextEnd = /** @type {?} */
((element.endSourceSpan).start.offset);\n      var /** @type {?} */ content = /** @type {?} */
((element.startSourceSpan).start.file.content);\n      var /** @type {?} */ innerText =
content.slice(innerTextStart, innerTextEnd);\n      this._unitMlString = innerText;\n      break;\n
    case _XLIFF_TAG:\n      var /** @type {?} */ localeAttr = element.attrs.find(function (attr) { return
attr.name === 'trgLang'; });\n      if (localeAttr) {\n        this._locale = localeAttr.value;\n      }\n
      var /** @type {?} */ versionAttr = element.attrs.find(function (attr) { return attr.name === 'version'; });\n
      if (versionAttr) {\n        var /** @type {?} */ version = versionAttr.value;\n        if (version !==
'2.0') {\n          this._addError(element, \"The XLIFF file version \" + version + \" is not compatible with
XLIFF 2.0 serializer\");\n        }\n        else {\n          visitAll(this, element.children, null);\n
        }\n      }\n    }\n    break;\n    default:\n      visitAll(this, element.children, null);\n
  }\n  };\n  /**\n  * @param {?} attribute\n  * @param {?} context\n  * @return {?} \n  *\n  Xliff2Parser.prototype.visitAttribute = /**\n  * @param {?} attribute\n  * @param {?} context\n  * @return
{?} \n  *\n  function (attribute, context) {\n  }\n  /**\n  * @param {?} text\n  * @param {?} context\n  *
@return {?} \n  *\n  Xliff2Parser.prototype.visitText = /**\n  * @param {?} text\n  * @param {?} context\n
@return {?} \n  *\n  function (text, context) {\n  }\n  /**\n  * @param {?} comment\n  * @param {?}
context\n  * @return {?} \n  *\n  Xliff2Parser.prototype.visitComment = /**\n  * @param {?} comment\n
@return {?} \n  *\n  function (comment, context) {\n  }\n  /**\n  * @param {?}
expansion\n  * @param {?} context\n  * @return {?} \n  *\n  Xliff2Parser.prototype.visitExpansion = /**\n
@return {?} \n  *\n  function (expansion, context) {\n  }\n  /**\n  * @param {?} expansionCase\n
@return {?} \n  *\n  Xliff2Parser.prototype.visitExpansionCase = /**\n  * @param {?} expansionCase\n
@return {?} \n  *

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* @return {?} \n * \n function (expansionCase, context) { }; \n /** \n * @param {?} node \n * @param {?}
message \n * @return {?} \n * \n Xliff2Parser.prototype._addError = /** \n * @param {?} node \n *
@param {?} message \n * @return {?} \n * \n function (node, message) { \n this._errors.push(new
I18nError(node.sourceSpan, message)); \n }; \n return Xliff2Parser; \n ()); \n var XmlToI18n$1 = /** @class */
(function () { \n function XmlToI18n() { \n } \n /** \n * @param {?} message \n * @param {?} url \n *
@return {?} \n * \n XmlToI18n.prototype.convert = /** \n * @param {?} message \n * @param {?} url \n
* @return {?} \n * \n function (message, url) { \n var /** @type {?} */ xmlIcu = new
XmlParser().parse(message, url, true); \n this._errors = xmlIcu.errors; \n var /** @type {?} */ i18nNodes =
this._errors.length > 0 || xmlIcu.rootNodes.length === 0 ? \n [] : [].concat.apply([], visitAll(this,
xmlIcu.rootNodes)); \n return { \n i18nNodes: i18nNodes, \n errors: this._errors, \n }; \n }; \n
/** \n * @param {?} text \n * @param {?} context \n * @return {?} \n * \n
XmlToI18n.prototype.visitText = /** \n * @param {?} text \n * @param {?} context \n * @return {?} \n
* \n function (text, context) { return new Text$1(text.value, text.sourceSpan); }; \n /** \n * @param {?} el \n
* @param {?} context \n * @return {?} \n * \n XmlToI18n.prototype.visitElement = /** \n * @param {?}
el \n * @param {?} context \n * @return {?} \n * \n function (el, context) { \n var _this = this; \n
switch (el.name) { \n case _PLACEHOLDER_TAG$1: \n var /** @type {?} */ nameAttr =
el.attrs.find(function (attr) { return attr.name === 'equiv'; }); \n if (nameAttr) { \n return [new
Placeholder("", nameAttr.value, el.sourceSpan)]; \n } \n this._addError(el, "<" +
_PLACEHOLDER_TAG$1 + "> misses the \"equiv\" attribute"); \n break; \n case
_PLACEHOLDER_SPANNING_TAG: \n var /** @type {?} */ startAttr = el.attrs.find(function (attr) {
return attr.name === 'equivStart'; }); \n var /** @type {?} */ endAttr = el.attrs.find(function (attr) { return
attr.name === 'equivEnd'; }); \n if (!startAttr) { \n this._addError(el, "<" +
_PLACEHOLDER_TAG$1 + "> misses the \"equivStart\" attribute"); \n } \n else if (!endAttr)
{ \n this._addError(el, "<" + _PLACEHOLDER_TAG$1 + "> misses the \"equivEnd\" attribute"); \n
} \n } \n else { \n var /** @type {?} */ startId = startAttr.value; \n var /** @type
{?} */ endId = endAttr.value; \n var /** @type {?} */ nodes = []; \n return
nodes.concat.apply(nodes, [new Placeholder("", startId, el.sourceSpan)].concat(el.children.map(function (node) {
return node.visit(_this, null); })), [new Placeholder("", endId, el.sourceSpan)]); \n } \n break; \n
default: \n this._addError(el, "Unexpected tag"); \n } \n return null; \n }; \n /** \n * @param
{?} icu \n * @param {?} context \n * @return {?} \n * \n XmlToI18n.prototype.visitExpansion = /** \n *
@param {?} icu \n * @param {?} context \n * @return {?} \n * \n function (icu, context) { \n var /**
@type {?} */ caseMap = {}; \n visitAll(this, icu.cases).forEach(function (c) { \n caseMap[c.value] = new
Container(c.nodes, icu.sourceSpan); \n }); \n return new Icu(icu.switchValue, icu.type, caseMap,
icu.sourceSpan); \n }; \n /** \n * @param {?} icuCase \n * @param {?} context \n * @return {?} \n * \n
XmlToI18n.prototype.visitExpansionCase = /** \n * @param {?} icuCase \n * @param {?} context \n *
@return {?} \n * \n function (icuCase, context) { \n return { \n value: icuCase.value, \n nodes:
[].concat.apply([], visitAll(this, icuCase.expression)), \n }; \n }; \n /** \n * @param {?} comment \n *
@param {?} context \n * @return {?} \n * \n XmlToI18n.prototype.visitComment = /** \n * @param {?}
comment \n * @param {?} context \n * @return {?} \n * \n function (comment, context) { }; \n /** \n *
@param {?} attribute \n * @param {?} context \n * @return {?} \n * \n XmlToI18n.prototype.visitAttribute
= /** \n * @param {?} attribute \n * @param {?} context \n * @return {?} \n * \n function (attribute,
context) { }; \n /** \n * @param {?} node \n * @param {?} message \n * @return {?} \n * \n
XmlToI18n.prototype._addError = /** \n * @param {?} node \n * @param {?} message \n * @return {?} \n
* \n function (node, message) { \n this._errors.push(new I18nError(node.sourceSpan, message)); \n }; \n
return XmlToI18n; \n ()); \n /** \n * @param {?} tag \n * @return {?} \n * \n function getTypeForTag(tag) { \n switch
(tag.toLowerCase()) { \n case 'br': \n case 'b': \n case 'i': \n case 'u': \n return 'fmt'; \n case
'img': \n return 'image'; \n case 'a': \n return 'link'; \n default: \n return 'other'; \n
} \n } \n } \n /** \n * @fileoverview added by tsickle \n * @suppress {checkTypes} checked by tsc \n * \n

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@license\n * Copyright Google Inc. All Rights Reserved.\n *\n * Use of this source code is governed by an MIT-
style license that can be\n * found in the LICENSE file at https://angular.io/license\n *\nvar _MESSAGES_TAG =
'messagebundle';\nvar _MESSAGE_TAG = 'msg';\nvar _PLACEHOLDER_TAG$2 = 'ph';\nvar _EXEMPLE_TAG
= 'ex';\nvar _SOURCE_TAG$2 = 'source';\nvar _DOCTYPE = '<!ELEMENT messagebundle
(msg)*>\n<!ATTLIST messagebundle class CDATA #IMPLIED>\n\n<!ELEMENT msg
(#PCDATA|ph|source)*>\n\n<!ATTLIST msg id CDATA #IMPLIED>\n\n<!ATTLIST msg seq CDATA
#IMPLIED>\n\n<!ATTLIST msg name CDATA #IMPLIED>\n\n<!ATTLIST msg desc CDATA
#IMPLIED>\n\n<!ATTLIST msg meaning CDATA #IMPLIED>\n\n<!ATTLIST msg obsolete (obsolete)
#IMPLIED>\n\n<!ATTLIST msg xml:space (default|preserve) |||"default|"'>\n\n<!ATTLIST msg is_hidden CDATA
#IMPLIED>\n\n\n<!ELEMENT source (#PCDATA)>\n\n\n<!ELEMENT ph (#PCDATA|ex)*>\n\n\n<!ATTLIST ph
name CDATA #REQUIRED>\n\n\n<!ELEMENT ex (#PCDATA)>\n\n';\nvar Xmb = /** @class */ (function (_super)
{\n  __extends(Xmb, _super);\n  function Xmb() {\n    return _super !== null && _super.apply(this, arguments)
|| this;\n  }\n  /**\n   * @param {?} messages\n   * @param {?} locale\n   * @return {?} \n   *\n  Xmb.prototype.write = /**\n   * @param {?} messages\n   * @param {?} locale\n   * @return {?} \n   *\n  function (messages, locale) {\n    var /** @type {?} */ exampleVisitor = new ExampleVisitor();\n    var /**
@type {?} */ visitor = new _Visitor$2();\n    var /** @type {?} */ rootNode = new Tag(_MESSAGES_TAG);\n    messages.forEach(function (message) {\n      var /** @type {?} */ attrs = { id: message.id };
if (message.description) {\n        attrs['desc'] = message.description;\n      }\n      if (message.meaning) {\n        attrs['meaning'] = message.meaning;\n      }\n      var /** @type {?} */ sourceTags = [];\n      message.sources.forEach(function (source) {\n        sourceTags.push(new Tag(_SOURCE_TAG$2, {}, [
new Text$2(source.filePath + ":" + source.startLine + (source.endLine !== source.startLine ? ',' +
source.endLine : ")]);\n      }));\n      rootNode.children.push(new CR(2), new
Tag(_MESSAGE_TAG, attrs, sourceTags.concat(visitor.serialize(message.nodes)));\n    });\n    rootNode.children.push(new CR());\n    return serialize([\n      new Declaration({ version: '1.0', encoding:
'UTF-8' }),\n      new CR(),\n      new Doctype(_MESSAGES_TAG, _DOCTYPE),\n      new CR(),\n      exampleVisitor.addDefaultExamples(rootNode),\n      new CR(),\n    ]);\n  }; \n  /**\n   * @param {?}
content\n   * @param {?} url\n   * @return {?} \n   *\n  Xmb.prototype.load = /**\n   * @param {?} content\n   *
@param {?} url\n   * @return {?} \n   *\n  function (content, url) {\n    throw new Error('Unsupported');\n  };\n  /**\n   * @param {?} message\n   * @return {?} \n   *\n  Xmb.prototype.digest = /**\n   * @param {?}
message\n   * @return {?} \n   *\n  function (message) { return digest$1(message); }; \n  /**\n   * @param {?}
message\n   * @return {?} \n   *\n  Xmb.prototype.createNameMapper = /**\n   * @param {?} message\n   *
@return {?} \n   *\n  function (message) {\n    return new SimplePlaceholderMapper(message,
toPublicName);\n  }; \n  return Xmb; \n} (Serializer));\nvar _Visitor$2 = /** @class */ (function () {\n  function
_Visitor() {\n  }\n  /**\n   * @param {?} text\n   * @param {?=} context\n   * @return {?} \n   *\n  _Visitor.prototype.visitText = /**\n   * @param {?} text\n   * @param {?=} context\n   * @return {?} \n   *\n  function (text, context) { return [new Text$2(text.value)]; }; \n  /**\n   * @param {?} container\n   * @param
{?} context\n   * @return {?} \n   *\n  _Visitor.prototype.visitContainer = /**\n   * @param {?} container\n   *
@param {?} context\n   * @return {?} \n   *\n  function (container, context) {\n    var _this = this;\n    var
/** @type {?} */ nodes = [];\n    container.children.forEach(function (node) { return nodes.push.apply(nodes,
node.visit(_this)); });\n    return nodes;\n  }; \n  /**\n   * @param {?} icu\n   * @param {?=} context\n   *
@return {?} \n   *\n  _Visitor.prototype.visitIcu = /**\n   * @param {?} icu\n   * @param {?=} context\n   *
@return {?} \n   *\n  function (icu, context) {\n    var _this = this;\n    var /** @type {?} */ nodes = [new
Text$2({" + icu.expressionPlaceholder + ", " + icu.type + ", "});\n    Object.keys(icu.cases).forEach(function
(c) {\n      nodes.push.apply(nodes, [new Text$2(c + " {"}").concat(icu.cases[c].visit(_this), [new Text$2("
}]]);\n    });\n    nodes.push(new Text$2({"}")); \n    return nodes;\n  }; \n  /**\n   * @param {?} ph\n   *
@param {?=} context\n   * @return {?} \n   *\n  _Visitor.prototype.visitTagPlaceholder = /**\n   * @param
{?} ph\n   * @param {?=} context\n   * @return {?} \n   *\n  function (ph, context) {\n    var /** @type {?} */
startEx = new Tag(_EXEMPLE_TAG, {}, [new Text$2("<" + ph.tag + ">")]);\n    var /** @type {?} */

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startTagPh = new Tag(_PLACEHOLDER_TAG$2, { name: ph.startName }, [startEx]);\n    if (ph.isVoid) {\n
  // void tags have no children nor closing tags\n    return [startTagPh];\n  }\n  var /** @type {?} */
closeEx = new Tag(_EXEMPLE_TAG, {}, [new Text$2("<" + ph.tag + ">")]);\n  var /** @type {?} */
closeTagPh = new Tag(_PLACEHOLDER_TAG$2, { name: ph.closeName }, [closeEx]);\n  return
[startTagPh].concat(this.serialize(ph.children), [closeTagPh]);\n  };\n  /**\n   * @param {?} ph\n   * @param
{?=} context\n   * @return {?}\n   */\n  _Visitor.prototype.visitPlaceholder = /**\n   * @param {?} ph\n   *
@param {?=} context\n   * @return {?}\n   */\n   function (ph, context) {\n    var /** @type {?} */ exTag =
new Tag(_EXEMPLE_TAG, {}, [new Text$2("<{" + ph.value + "}>")]);\n    return [new
Tag(_PLACEHOLDER_TAG$2, { name: ph.name }, [exTag]);\n  ];\n  /**\n   * @param {?} ph\n   * @param
{?=} context\n   * @return {?}\n   */\n   _Visitor.prototype.visitIcuPlaceholder = /**\n   * @param {?} ph\n   *
@param {?=} context\n   * @return {?}\n   */\n   function (ph, context) {\n    var /** @type {?} */ exTag =
new Tag(_EXEMPLE_TAG, {}, [\n      new Text$2("<{" + ph.value.expression + "}, {" + ph.value.type + "}, {" +
Object.keys(ph.value.cases).map(function (value) { return value + ' ...'; }).join(' ') + "}>")\n    ]);\n    return
[new Tag(_PLACEHOLDER_TAG$2, { name: ph.name }, [exTag]);\n  ];\n  /**\n   * @param {?} nodes\n   *
@return {?}\n   */\n   _Visitor.prototype.serialize = /**\n   * @param {?} nodes\n   * @return {?}\n   */\n   function (nodes) {\n    var _this = this;\n    return [].concat.apply([], nodes.map(function (node) { return
node.visit(_this); }));\n  };\n  return _Visitor;\n})();\n  /**\n   * @param {?} message\n   * @return {?}\n   */\n   function
digest$1(message) {\n    return decimalDigest(message);\n  }\n  var ExampleVisitor = /** @class */ (function () {\n
function ExampleVisitor() {\n  }\n  /**\n   * @param {?} node\n   * @return {?}\n   */\n   ExampleVisitor.prototype.addDefaultExamples = /**\n   * @param {?} node\n   * @return {?}\n   */\n   function (node) {\n    node.visit(this);\n    return node;\n  };\n  /**\n   * @param {?} tag\n   * @return
{?}\n   */\n   ExampleVisitor.prototype.visitTag = /**\n   * @param {?} tag\n   * @return {?}\n   */\n   function (tag) {\n    var _this = this;\n    if (tag.name === _PLACEHOLDER_TAG$2) {\n      if
(!tag.children || tag.children.length === 0) {\n        var /** @type {?} */ exText = new Text$2(tag.attrs['name'] ||
'...');\n        tag.children = [new Tag(_EXEMPLE_TAG, {}, [exText]);\n      ]\n    } else if
(tag.children) {\n      tag.children.forEach(function (node) { return node.visit(_this); });\n    };\n  };\n  /**\n   *
@param {?} text\n   * @return {?}\n   */\n   ExampleVisitor.prototype.visitText = /**\n   * @param {?}
text\n   * @return {?}\n   */\n   function (text) {\n  };\n  /**\n   * @param {?} decl\n   * @return {?}\n   */\n   ExampleVisitor.prototype.visitDeclaration = /**\n   * @param {?} decl\n   * @return {?}\n   */\n   function
(decl) {\n  };\n  /**\n   * @param {?} doctype\n   * @return {?}\n   */\n   ExampleVisitor.prototype.visitDoctype
= /**\n   * @param {?} doctype\n   * @return {?}\n   */\n   function (doctype) {\n  };\n  return
ExampleVisitor;\n})();\n  /**\n   * @param {?} internalName\n   * @return {?}\n   */\n   function
toPublicName(internalName) {\n    return internalName.toUpperCase().replace(/[^A-Z0-9_]/g, '_');\n  }\n  /**\n   *
@fileoverview added by tsickle\n   * @suppress {checkTypes} checked by tsc\n   * @license\n   * Copyright
Google Inc. All Rights Reserved.\n   * Use of this source code is governed by an MIT-style license that can be\n   *
found in the LICENSE file at https://angular.io/license\n   */\n  var _TRANSLATIONS_TAG =
'translationbundle';\n  var _TRANSLATION_TAG = 'translation';\n  var _PLACEHOLDER_TAG$3 = 'ph';\n  var Xtb =
/** @class */ (function (_super) {\n    __extends(Xtb, _super);\n    function Xtb() {\n      return _super !== null &&
_super.apply(this, arguments) || this;\n    }\n    /**\n     * @param {?} messages\n     * @param {?} locale\n     *
@return {?}\n     */\n    Xtb.prototype.write = /**\n     * @param {?} messages\n     * @param {?} locale\n     *
@return {?}\n     */\n     function (messages, locale) {\n      throw new Error('Unsupported');\n    };\n    /**\n     * @param {?}
content\n     * @param {?} url\n     * @return {?}\n     */\n    Xtb.prototype.load = /**\n     * @param {?} content\n     *
@param {?} url\n     * @return {?}\n     */\n     function (content, url) {\n      // xtb to xml nodes\n      var /**
@type {?} */\n      xtbParser = new XtbParser();\n      var _a = xtbParser.parse(content, url), locale = _a.locale,
msgIdToHtml = _a.msgIdToHtml, errors = _a.errors;\n      // xml nodes to i18n nodes\n      var /** @type {?} */\n      i18nNodesByMsgId = {};\n      var /** @type {?} */ converter = new XmlToI18n$2();\n      // Because we should
be able to load xtb files that rely on features not supported by angular,\n      // we need to delay the conversion of
html to i18n nodes so that non angular messages are not\n      // converted\n

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Object.keys(msgIdToHtml).forEach(function (msgId) {
    var /** @type {?} */ valueFn = function () {
        var _a = converter.convert(msgIdToHtml[msgId], url), i18nNodes = _a.i18nNodes, errors = _a.errors;
        if (errors.length) {
            throw new Error("\'xtb parse errors:\' + errors.join('\n'));
        }
        return i18nNodes;
    };
    createLazyProperty(i18nNodesByMsgId, msgId, valueFn);
    if (errors.length) {
        throw new Error("\'xtb parse errors:\' + errors.join('\n'));
        return { locale: /** @type {?} */ ((locale)), i18nNodesByMsgId: i18nNodesByMsgId };
    }
    /** @type {?} */ message;
    /** @return {?} */ Xtb.prototype.digest = /** @param {?} */ message;
    /** @return {?} */ function (message) { return digest$1(message); };
    /** @param {?} */ message;
    /** @return {?} */ Xtb.prototype.createNameMapper = /** @param {?} */ message;
    /** @return {?} */ function (message) {
        return new SimplePlaceholderMapper(message, toPublicName);
    };
    return Xtb;
})(Serializer);
/** @param {?} */ messages;
/** @param {?} */ id;
/** @param {?} */ valueFn;
/** @return {?} */ function createLazyProperty(messages, id, valueFn) {
    Object.defineProperty(messages, id, {
        configurable: true,
        enumerable: true,
        get: function () {
            var /** @type {?} */ value = valueFn();
            Object.defineProperty(messages, id, {
                enumerable: true,
                value: value
            });
            return value;
        },
        set: function (_) {
            throw new Error('Could not overwrite an XTB translation');
        }
    });
}
var XtbParser = /** @class */ (function () {
    function XtbParser() {
        this._locale = null;
    }
    /** @param {?} */ xtb;
    /** @param {?} */ url;
    /** @return {?} */ XtbParser.prototype.parse = /** @param {?} */ xtb;
    /** @param {?} */ url;
    /** @return {?} */ function (xtb, url) {
        this._bundleDepth = 0;
        this._msgIdToHtml = {};
        // We can not parse the ICU messages at this point as some messages might not originate // from Angular that could not be lex'd.
        var /** @type {?} */ xml = new XmlParser().parse(xtb, url, false);
        this._errors = xml.errors;
        visitAll(this, xml.rootNodes);
        return {
            msgIdToHtml: this._msgIdToHtml,
            errors: this._errors,
            locale: this._locale
        };
    }
    /** @param {?} */ element;
    /** @param {?} */ context;
    /** @return {?} */ XtbParser.prototype.visitElement = /** @param {?} */ element;
    /** @param {?} */ context;
    /** @return {?} */ function (element, context) {
        switch (element.name) {
            case _TRANSLATIONS_TAG:
                this._bundleDepth++;
                if (this._bundleDepth > 1) {
                    this._addError(element, "\'<\' + _TRANSLATIONS_TAG + \'\> elements can not be nested\');
                }
                var /** @type {?} */ langAttr = element.attrs.find(function (attr) {
                    return attr.name === 'lang';
                });
                if (langAttr) {
                    this._locale = langAttr.value;
                }
                visitAll(this, element.children, null);
                this._bundleDepth--;
                break;
            case _TRANSLATION_TAG:
                var /** @type {?} */ idAttr = element.attrs.find(function (attr) {
                    return attr.name === 'id';
                });
                if (!idAttr) {
                    this._addError(element, "\'<\' + _TRANSLATION_TAG + \'\> misses the \'\\"id\'' attribute\');
                }
                else {
                    var /** @type {?} */ id = idAttr.value;
                    if (this._msgIdToHtml.hasOwnProperty(id)) {
                        this._addError(element, "\'Duplicated translations for msg \'' + id);\
                    }
                    else {
                        var /** @type {?} */ innerTextStart = /** @type {?} */ ((element.startSourceSpan).end.offset;
                        var /** @type {?} */ innerTextEnd = /** @type {?} */ ((element.endSourceSpan).start.offset;
                        var /** @type {?} */ content = /** @type {?} */ ((element.startSourceSpan).start.file.content;
                        var /** @type {?} */ innerText = content.slice(/** @type {?} */ ((innerTextStart)), /** @type {?} */ ((innerTextEnd)));
                        this._msgIdToHtml[id] = innerText;
                    }
                }
                break;
            default:
                this._addError(element, 'Unexpected tag');
        }
    };
    /** @param {?} */ attribute;
    /** @param {?} */ context;
    /** @return {?} */ XtbParser.prototype.visitAttribute = /** @param {?} */ attribute;
    /** @param {?} */ context;
    /** @return {?} */ function (attribute, context) { };
    /** @param {?} */ text;
    /** @param {?} */ context;
    /** @return {?} */ XtbParser.prototype.visitText = /** @param {?} */ text;
    /** @param {?} */ context;
    /** @return {?} */ function (text, context) { };
    /** @param {?} */ comment;
    /** @param {?} */ context;
    /** @return {?} */ XtbParser.prototype.visitComment = /** @param {?} */ comment;
    /** @param {?} */ context;
    /** @return {?} */ function (comment, context) { };
    /** @param {?} */ expansion;
    /** @param {?} */ context;
    /** @return {?} */
}

```

```

XtbParser.prototype.visitExpansion = /**\n
 * @param {?} expansion\n
 * @param {?} context\n
 * @return
 {?} \n
 * ^\n
 function (expansion, context) { }; \n
 /**\n
 * @param {?} expansionCase\n
 * @param {?}
 context\n
 * @return {?} \n
 * ^\n
 XtbParser.prototype.visitExpansionCase = /**\n
 * @param {?}
 expansionCase\n
 * @param {?} context\n
 * @return {?} \n
 * ^\n
 function (expansionCase, context) { }; \n
 /**\n
 * @param {?} node\n
 * @param {?} message\n
 * @return {?} \n
 * ^\n
 XtbParser.prototype._addError = /**\n
 * @param {?} node\n
 * @param {?} message\n
 * @return {?} \n
 * ^\n
 function (node, message) {\n
 this._errors.push(new I18nError(/** @type {?} */ ((node.sourceSpan),
 message)); \n
 }; \n
 return XtbParser; \n
 }()); \n
 nvar XmlToI18n$2 = /** @class */ (function () {\n
 function
 XmlToI18n() {\n
 } \n
 /**\n
 * @param {?} message\n
 * @param {?} url\n
 * @return {?} \n
 * ^\n
 XmlToI18n.prototype.convert = /**\n
 * @param {?} message\n
 * @param {?} url\n
 * @return {?} \n
 * ^\n
 function (message, url) {\n
 var /** @type {?} */ xmlIcu = new XmlParser().parse(message, url, true); \n
 this._errors = xmlIcu.errors; \n
 var /** @type {?} */ i18nNodes = this._errors.length > 0 ||
 xmlIcu.rootNodes.length == 0 ? \n
 [] : \n
 visitAll(this, xmlIcu.rootNodes); \n
 return {\n
 i18nNodes: i18nNodes, \n
 errors: this._errors, \n
 }; \n
 }; \n
 /**\n
 * @param {?} text\n
 * @param
 {?} context\n
 * @return {?} \n
 * ^\n
 XmlToI18n.prototype.visitText = /**\n
 * @param {?} text\n
 *
 @param {?} context\n
 * @return {?} \n
 * ^\n
 function (text, context) { return new Text$1(text.value, /**
 @type {?} */ ((text.sourceSpan))); }; \n
 /**\n
 * @param {?} icu\n
 * @param {?} context\n
 * @return
 {?} \n
 * ^\n
 XmlToI18n.prototype.visitExpansion = /**\n
 * @param {?} icu\n
 * @param {?} context\n
 *
 @return {?} \n
 * ^\n
 function (icu, context) {\n
 var /** @type {?} */ caseMap = {}; \n
 visitAll(this,
 icu.cases).forEach(function (c) {\n
 caseMap[c.value] = new Container(c.nodes, icu.sourceSpan); \n
 }); \n
 return new Icu(icu.switchValue, icu.type, caseMap, icu.sourceSpan); \n
 }; \n
 /**\n
 * @param {?} icuCase\n
 * @param {?} context\n
 * @return {?} \n
 * ^\n
 XmlToI18n.prototype.visitExpansionCase = /**\n
 *
 @param {?} icuCase\n
 * @param {?} context\n
 * @return {?} \n
 * ^\n
 function (icuCase, context) {\n
 return {\n
 value: icuCase.value, \n
 nodes: visitAll(this, icuCase.expression), \n
 }; \n
 }; \n
 /**\n
 * @param {?} el\n
 * @param {?} context\n
 * @return {?} \n
 * ^\n
 XmlToI18n.prototype.visitElement =
 /**\n
 * @param {?} el\n
 * @param {?} context\n
 * @return {?} \n
 * ^\n
 function (el, context) {\n
 if
 (el.name === _PLACEHOLDER_TAG$3) {\n
 var /** @type {?} */ nameAttr = el.attrs.find(function (attr) {
 return attr.name === 'name'; }); \n
 if (nameAttr) {\n
 return new Placeholder("", nameAttr.value, /**
 @type {?} */ ((el.sourceSpan))); \n
 } \n
 this._addError(el, "\"<\" + _PLACEHOLDER_TAG$3 + \">
 misses the \"\"name\"\" attribute"); \n
 } \n
 else {\n
 this._addError(el, "Unexpected tag"); \n
 } \n
 return null; \n
 }; \n
 /**\n
 * @param {?} comment\n
 * @param {?} context\n
 * @return {?} \n
 * ^\n
 XmlToI18n.prototype.visitComment = /**\n
 * @param {?} comment\n
 * @param {?} context\n
 * @return
 {?} \n
 * ^\n
 function (comment, context) { }; \n
 /**\n
 * @param {?} attribute\n
 * @param {?} context\n
 * @return {?} \n
 * ^\n
 XmlToI18n.prototype.visitAttribute = /**\n
 * @param {?} attribute\n
 * @param {?}
 context\n
 * @return {?} \n
 * ^\n
 function (attribute, context) { }; \n
 /**\n
 * @param {?} node\n
 *
 @param {?} message\n
 * @return {?} \n
 * ^\n
 XmlToI18n.prototype._addError = /**\n
 * @param {?}
 node\n
 * @param {?} message\n
 * @return {?} \n
 * ^\n
 function (node, message) {\n
 this._errors.push(new I18nError(/** @type {?} */ ((node.sourceSpan), message)); \n
 }; \n
 return
 XmlToI18n; \n
 }()); \n
 \n
 /**\n
 * @fileoverview added by tsickle\n
 * @suppress {checkTypes} checked by tsc\n
 * \n
 /**\n
 * @license\n
 * Copyright Google Inc. All Rights Reserved. \n
 * \n
 * Use of this source code is governed by
 an MIT-style license that can be\n
 * found in the LICENSE file at https://angular.io/license\n
 * \n
 nvar HtmlParser =
 /** @class */ (function (_super) {\n
 __extends(HtmlParser, _super); \n
 function HtmlParser() {\n
 return
 _super.call(this, getHtmlTagDefinition) || this; \n
 } \n
 /**\n
 * @param {?} source\n
 * @param {?} url\n
 *
 @param {?}=? parseExpansionForms\n
 * @param {?}=? interpolationConfig\n
 * @return {?} \n
 * ^\n
 HtmlParser.prototype.parse = /**\n
 * @param {?} source\n
 * @param {?} url\n
 * @param {?}=?
 parseExpansionForms\n
 * @param {?}=? interpolationConfig\n
 * @return {?} \n
 * ^\n
 function (source, url,
 parseExpansionForms, interpolationConfig) {\n
 if (parseExpansionForms === void 0) { parseExpansionForms
 = false; } \n
 if (interpolationConfig === void 0) { interpolationConfig =

```

```

DEFAULT_INTERPOLATION_CONFIG; }
return _super.prototype.parse.call(this, source, url,
parseExpansionForms, interpolationConfig);
};
return HtmlParser;
})(Parser$1);
/**
 * @fileoverview
added by tsickle
 * @suppress {checkTypes} checked by tsc
 */
/**
 * @license
 * Copyright Google Inc. All
Rights Reserved.
 * Use of this source code is governed by an MIT-style license that can be
 * found in the
LICENSE file at https://angular.io/license
 * A container for translated messages
 */
nvar
TranslationBundle = /** @class */ (function () {
function TranslationBundle(_i18nNodesByMsgId, locale,
digest, mapperFactory, missingTranslationStrategy, console) {
if (_i18nNodesByMsgId === void 0) {
_i18nNodesByMsgId = {};
}
if (missingTranslationStrategy === void 0) {
missingTranslationStrategy =
MissingTranslationStrategy.Warning;
}
this._i18nNodesByMsgId = _i18nNodesByMsgId;
this.digest =
digest;
this.mapperFactory = mapperFactory;
this._i18nToHtml = new
I18nToHtmlVisitor(_i18nNodesByMsgId, locale, digest, /** @type {?} */ ((mapperFactory)),
missingTranslationStrategy, console);
}
// Creates a `TranslationBundle` by parsing the given `content` with
the `serializer`.
/**
 * @param {?} content
 * @param {?} url
 * @param {?} serializer
 *
 * @param {?} missingTranslationStrategy
 * @param {=} console
 * @return {?}
 */
TranslationBundle.load = /**
 * @param {?} content
 * @param {?} url
 * @param {?} serializer
 *
 * @param {?} missingTranslationStrategy
 * @param {=} console
 * @return {?}
 */
function
(content, url, serializer, missingTranslationStrategy, console) {
var _a = serializer.load(content, url), locale =
_a.locale, i18nNodesByMsgId = _a.i18nNodesByMsgId;
var /** @type {?} */ digestFn = function (m) {
return serializer.digest(m);
};
var /** @type {?} */ mapperFactory = function (m) {
return
((serializer.createNameMapper(m)));
};
return new TranslationBundle(i18nNodesByMsgId, locale, digestFn,
mapperFactory, missingTranslationStrategy, console);
};
// Returns the translation as HTML nodes from the
given source message.
/**
 * @param {?} srcMsg
 * @return {?}
 */
TranslationBundle.prototype.get = /**
 * @param {?} srcMsg
 * @return {?}
 */
function (srcMsg) {
var /** @type {?} */ html = this._i18nToHtml.convert(srcMsg);
if (html.errors.length) {
throw new Error(html.errors.join("\n"));
}
return html.nodes;
};
/**
 * @param {?} srcMsg
 * @return {?}
 */
TranslationBundle.prototype.has = /**
 * @param {?} srcMsg
 * @return {?}
 */
function (srcMsg) {
return this.digest(srcMsg) in this._i18nNodesByMsgId;
};
return
TranslationBundle;
})();
nvar I18nToHtmlVisitor = /** @class */ (function () {
function
I18nToHtmlVisitor(_i18nNodesByMsgId, _locale, _digest, _mapperFactory, _missingTranslationStrategy,
_console) {
if (_i18nNodesByMsgId === void 0) {
_i18nNodesByMsgId = {};
}
this._i18nNodesByMsgId = _i18nNodesByMsgId;
this._locale = _locale;
this._digest = _digest;
this._mapperFactory = _mapperFactory;
this._missingTranslationStrategy = _missingTranslationStrategy;
this._console = _console;
this._contextStack = [];
this._errors = [];
}
/**
 * @param {?}
srcMsg
 * @return {?}
 */
I18nToHtmlVisitor.prototype.convert = /**
 * @param {?} srcMsg
 * @return {?}
 */
function (srcMsg) {
this._contextStack.length = 0;
this._errors.length = 0;
// i18n to text
var /** @type {?} */ text = this._convertToText(srcMsg);
// text to html
var /**
 * @type {?} */ url = srcMsg.nodes[0].sourceSpan.start.file.url;
var /** @type {?} */ html = new
HtmlParser().parse(text, url, true);
return {
nodes: html.rootNodes,
errors:
this._errors.concat(html.errors),
};
};
/**
 * @param {?} text
 * @param {=} context
 *
 * @return {?}
 */
I18nToHtmlVisitor.prototype.visitText = /**
 * @param {?} text
 * @param {=}
context
 * @return {?}
 */
function (text, context) {
return text.value;
};
/**
 * @param {?}
container
 * @param {=} context
 * @return {?}
 */
I18nToHtmlVisitor.prototype.visitContainer = /**
 * @param {?} container
 * @param {=} context
 * @return {?}
 */
function (container,
context) {
var _this = this;
return container.children.map(function (n) {
return n.visit(_this);
}).join("");
};
/**
 * @param {?} icu
 * @param {=} context
 * @return
{?}
 */
I18nToHtmlVisitor.prototype.visitIcu = /**
 * @param {?} icu
 * @param {=} context
 * @return
{?}
 */
function (icu, context) {
var _this = this;
var /** @type {?} */ cases =
Object.keys(icu.cases).map(function (k) {
return k + "\ {" + icu.cases[k].visit(_this) + "\}";
});
//

```

```

TODO(vicb): Once all format switch to using expression placeholders\n    // we should throw when the
placeholder is not in the source message\n    var /** @type {?} */ exp =
this._srcMsg.placeholders.hasOwnProperty(icu.expression) ?\n        this._srcMsg.placeholders[icu.expression] :\n        icu.expression;\n    return "\"{" + exp + "\", \"" + icu.type + "\", \"" + cases.join(' ') + "\"";\n    };\n    /**\n     *
@param {?} ph\n     * @param {?=} context\n     * @return {?} */\n     *\nI18nToHtmlVisitor.prototype.visitPlaceholder = /**\n     * @param {?} ph\n     * @param {?=} context\n     *
@return {?} */\n     *\n    function (ph, context) {\n        var /** @type {?} */ phName = this._mapper(ph.name);\n        if (this._srcMsg.placeholders.hasOwnProperty(phName)) {\n            return this._srcMsg.placeholders[phName];\n        }\n        if (this._srcMsg.placeholderToMessage.hasOwnProperty(phName)) {\n            return
this._convertToText(this._srcMsg.placeholderToMessage[phName]);\n        }\n        this._addError(ph, "Unknown
placeholder \"" + ph.name + "\"");\n        return ";\n    };\n    // Loaded message contains only placeholders (vs
tag and icu placeholders).\n    // However when a translation can not be found, we need to serialize the source
message\n    // which can contain tag placeholders\n    /**\n     * @param {?} ph\n     * @param {?=} context\n     *
@return {?} */\n     *\n    I18nToHtmlVisitor.prototype.visitTagPlaceholder = /**\n     * @param {?} ph\n     *
@param {?=} context\n     * @return {?} */\n     *\n    function (ph, context) {\n        var _this = this;\n        var /**
@type {?} */ tag = "\" + ph.tag;\n        var /** @type {?} */ attrs = Object.keys(ph.attrs).map(function (name) {\n
return name + "\"=\"" + ph.attrs[name] + "\"";\n        }).join(' ');
        if (ph.isVoid) {\n            return "<" + tag + "\n        + attrs + \"/>";\n        }\n        var /** @type {?} */ children = ph.children.map(function (c) {\n        return c.visit(_this);\n        }).join(");\n        return "<" + tag + "\n        + attrs + \"/>" + children + "<" + tag + \"/>";\n    };\n    // Loaded
message contains only placeholders (vs tag and icu placeholders).\n    // However when a translation can not be
found, we need to serialize the source message\n    // which can contain tag placeholders\n    /**\n     * @param {?}
ph\n     * @param {?=} context\n     * @return {?} */\n     *\n    I18nToHtmlVisitor.prototype.visitIcuPlaceholder =
/**\n     * @param {?} ph\n     * @param {?=} context\n     * @return {?} */\n     *\n    function (ph, context) {\n
// An ICU placeholder references the source message to be serialized\n        return
this._convertToText(this._srcMsg.placeholderToMessage[ph.name]);\n    };\n    /**\n     * Convert a source message
to a translated text string:\n     * - text nodes are replaced with their translation,\n     * - placeholders are replaced
with their content,\n     * - ICU nodes are converted to ICU expressions.\n     * @param {?} srcMsg\n     * @return
{} */\n     *\n    I18nToHtmlVisitor.prototype._convertToText = /**\n     * Convert a source message to a translated
text string:\n     * - text nodes are replaced with their translation,\n     * - placeholders are replaced with their
content,\n     * - ICU nodes are converted to ICU expressions.\n     * @param {?} srcMsg\n     * @return {} */\n     *\n    function (srcMsg) {\n        var _this = this;\n        var /** @type {?} */ id = this._digest(srcMsg);\n        var
/** @type {?} */ mapper = this._mapperFactory ? this._mapperFactory(srcMsg) : null;\n        var /** @type {?} */
nodes;\n        this._contextStack.push({ msg: this._srcMsg, mapper: this._mapper });\n        this._srcMsg =
srcMsg;\n        if (this._i18nNodesByMsgId.hasOwnProperty(id)) {\n            // When there is a translation use its
nodes as the source\n            // And create a mapper to convert serialized placeholder names to internal names\n            nodes = this._i18nNodesByMsgId[id];\n            this._mapper = function (name) {\n                return mapper ? /** @type {?} */ ((mapper.toInternalName(name)) : name);
            };\n        } else {\n            // When no translation has been found\n            // - report an error / a warning / nothing,\n            // - use the nodes from the original message\n            // -
placeholders are already internal and need no mapper\n            if (this._missingTranslationStrategy ===
MissingTranslationStrategy.Error) {\n                var /** @type {?} */ ctx = this._locale ? " for locale \"" +
this._locale + "\" : ";
                this._addError(srcMsg.nodes[0], "Missing translation for message \"" + id +
                "\" + ctx);\n            } else if (this._console &&\n                this._missingTranslationStrategy ===
MissingTranslationStrategy.Warning) {\n                var /** @type {?} */ ctx = this._locale ? " for locale \"" +
this._locale + "\" : ";
                this._console.warn("Missing translation for message \"" + id + "\" +
                ctx);\n            }\n            nodes = srcMsg.nodes;\n            this._mapper = function (name) {\n                return name;
            };\n            var /** @type {?} */ text = nodes.map(function (node) {\n                return node.visit(_this);
            }).join(");\n            var /** @type
{} */ context = /** @type {?} */ ((this._contextStack.pop()));\n            this._srcMsg = context.msg;\n            this._mapper = context.mapper;\n            return text;\n        };\n    /**\n     * @param {?} e\n     * @param {?} msg\n     *

```



```

@return {?}
 *
 I18nToHtmlVisitor.prototype._addError = /**
 * @param {?} el
 * @param {?}
 msg
 * @return {?}
 */
 function (el, msg) {
 this._errors.push(new I18nError(el.sourceSpan,
 msg));
 };
 return I18nToHtmlVisitor;
})();
\n\n
/**
 * @fileoverview added by tsickle
 * @suppress
 {checkTypes} checked by tsc
 */
 *
 @license
 * Copyright Google Inc. All Rights Reserved.
 *
 * Use of
 this source code is governed by an MIT-style license that can be
 * found in the LICENSE file at
 https://angular.io/license
 */
 nvar I18NHtmlParser = /** @class */ (function () {
 function
 I18NHtmlParser(_htmlParser, translations, translationsFormat, missingTranslation, console) {
 if
 (missingTranslation === void 0) {
 missingTranslation = MissingTranslationStrategy.Warning;
 }
 this._htmlParser = _htmlParser;
 if (translations) {
 var /** @type {?} */ serializer =
 createSerializer(translationsFormat);
 this._translationBundle =
 TranslationBundle.load(translations, 'i18n', serializer, missingTranslation, console);
 }
 else {
 this._translationBundle =
 new TranslationBundle({}, null, digest, undefined, missingTranslation,
 console);
 }
 }
 /**
 * @param {?} source
 * @param {?} url
 * @param {?=}
 parseExpansionForms
 * @param {?=} interpolationConfig
 * @return {?}
 */
 I18NHtmlParser.prototype.parse = /**
 * @param {?} source
 * @param {?} url
 * @param {?=}
 parseExpansionForms
 * @param {?=} interpolationConfig
 * @return {?}
 */
 function (source, url,
 parseExpansionForms, interpolationConfig) {
 if (parseExpansionForms === void 0) {
 parseExpansionForms
 = false;
 }
 if (interpolationConfig === void 0) {
 interpolationConfig =
 DEFAULT_INTERPOLATION_CONFIG;
 }
 var /** @type {?} */ parseResult =
 this._htmlParser.parse(source, url, parseExpansionForms, interpolationConfig);
 if (parseResult.errors.length)
 {
 return new ParseTreeResult(parseResult.rootNodes, parseResult.errors);
 }
 return
 mergeTranslations(parseResult.rootNodes, this._translationBundle, interpolationConfig, [], {});
 };
 return
 I18NHtmlParser;
})();
\n\n
/**
 * @param {?=} format
 * @return {?}
 */
 function createSerializer(format) {
 format = (format || 'xlf').toLowerCase();
 switch (format) {
 case 'xmb':
 return new Xmb();
 case 'xtb':
 return new Xtb();
 case 'xliff2':
 case 'xlf2':
 return new Xliff2();
 case
 'xliff':
 case 'xlf':
 default:
 return new Xliff();
 }
 }
 }
 }
\n\n
/**
 * @fileoverview added by
 tsickle
 * @suppress {checkTypes} checked by tsc
 */
 *
 @license
 * Copyright Google Inc. All Rights
 Reserved.
 *
 * Use of this source code is governed by an MIT-style license that can be
 * found in the
 LICENSE file at https://angular.io/license
 */
 nvar STRIP_SRC_FILE_SUFFIXES =
 /(\\.ts|\\.d|\\.ts\\.js|\\.jsx|\\.tsx)$/;
 nvar GENERATED_FILE = /\.ngfactory\|\.ngsummary\|./;
 nvar
 JIT_SUMMARY_FILE = /\.ngsummary\|./;
 nvar JIT_SUMMARY_NAME = /NgSummary$/;
\n\n
/**
 * @param
 {?} filePath
 * @param {?=} forceSourceFile
 * @return {?}
 */
 function ngfactoryFilePath(filePath,
 forceSourceFile) {
 if (forceSourceFile === void 0) {
 forceSourceFile = false;
 }
 var /** @type {?} */
 urlWithSuffix = splitTypescriptSuffix(filePath, forceSourceFile);
 return urlWithSuffix[0] + ".ngfactory" +
 normalizeGenFileSuffix(urlWithSuffix[1]);
 }
\n\n
/**
 * @param {?} filePath
 * @return {?}
 */
 function
 stripGeneratedFileSuffix(filePath) {
 return filePath.replace(GENERATED_FILE, '');
 }
\n\n
/**
 * @param {?}
 filePath
 * @return {?}
 */
 function isGeneratedFile(filePath) {
 return
 GENERATED_FILE.test(filePath);
 }
\n\n
/**
 * @param {?} path
 * @param {?=} forceSourceFile
 * @return
 {?}
 */
 function splitTypescriptSuffix(path, forceSourceFile) {
 if (forceSourceFile === void 0) {
 forceSourceFile = false;
 }
 if (path.endsWith('.d.ts')) {
 return [path.slice(0, -5), forceSourceFile ? '.ts' :
 '.d.ts'];
 }
 var /** @type {?} */ lastDot = path.lastIndexOf('.');
 if (lastDot !== -1) {
 return
 [path.substring(0, lastDot), path.substring(lastDot)];
 }
 return [path, ''];
 }
\n\n
/**
 * @param {?}
 srcFileSuffix
 * @return {?}
 */
 function normalizeGenFileSuffix(srcFileSuffix) {
 return srcFileSuffix ===
 '.tsx' ? '.ts' : srcFileSuffix;
 }
\n\n
/**
 * @param {?} fileName
 * @return {?}
 */
 function
 summaryFileName(fileName) {
 var /** @type {?} */ fileNameWithoutSuffix =
 fileName.replace(STRIP_SRC_FILE_SUFFIXES, '');
 return fileNameWithoutSuffix +
 ".ngsummary.json";
 }
\n\n
/**
 * @param {?} fileName
 * @param {?=} forceSourceFile
 * @return {?}
 */
 function
 summaryForJitFileName(fileName, forceSourceFile) {
 if (forceSourceFile === void 0) {

```

```

forceSourceFile = false; }n  var /** @type {?} */ urlWithSuffix =
splitTypescriptSuffix(stripGeneratedFileSuffix(fileName), forceSourceFile);n  return urlWithSuffix[0] +
`.ngsummary` + urlWithSuffix[1];n }n /**n * @param {?} filePathn * @return {?}n */n function
stripSummaryForJitFileSuffix(filePath) {n  return filePath.replace(JIT_SUMMARY_FILE, `.`);n }n /**n *
@param {?} symbolNamen * @return {?}n */n function summaryForJitName(symbolName) {n  return
symbolName + `NgSummary`;n }n /**n * @param {?} symbolNamen * @return {?}n */n function
stripSummaryForJitNameSuffix(symbolName) {n  return symbolName.replace(JIT_SUMMARY_NAME,
`.`);n }n var LOWERED_SYMBOL = /\u0275\d+;/n /**n * @param {?} name n * @return {?}n */n function
isLoweredSymbol(name) {n  return LOWERED_SYMBOL.test(name);n }n /**n * @param {?} id n * @return
{?}n */n function createLoweredSymbol(id) {n  return `"\u0275` + id;n }n }n /**n * @fileoverview added by
tsickle n * @suppress {checkTypes} checked by tsc n */n /**n * @license n * Copyright Google Inc. All Rights
Reserved. n */n * Use of this source code is governed by an MIT-style license that can be n * found in the
LICENSE file at https://angular.io/license n */n var CORE = `@angular/core`;n var Identifiers = /** @class */
(function () {n  function Identifiers() {n  }n  Identifiers.ANALYZE_FOR_ENTRY_COMPONENTS = {n
name: `ANALYZE_FOR_ENTRY_COMPONENTS`,n  moduleName: CORE,n  };n  Identifiers.ElementRef = {
name: `ElementRef`, moduleName: CORE };n  Identifiers.NgModuleRef = { name: `NgModuleRef`,
moduleName: CORE };n  Identifiers.ViewContainerRef = { name: `ViewContainerRef`, moduleName: CORE };n
  Identifiers.ChangeDetectorRef = {n  name: `ChangeDetectorRef`,n  moduleName: CORE,n  };n
  Identifiers.QueryList = { name: `QueryList`, moduleName: CORE };n  Identifiers.TemplateRef = { name:
`TemplateRef`, moduleName: CORE };n  Identifiers.CodegenComponentFactoryResolver = {n  name:
`CodegenComponentFactoryResolver`,n  moduleName: CORE,n  };n
  Identifiers.ComponentFactoryResolver = {n  name: `ComponentFactoryResolver`,n  moduleName:
CORE,n  };n  Identifiers.ComponentFactory = { name: `ComponentFactory`, moduleName: CORE };n
  Identifiers.ComponentRef = { name: `ComponentRef`, moduleName: CORE };n  Identifiers.NgModuleFactory = {
name: `NgModuleFactory`, moduleName: CORE };n  Identifiers.createModuleFactory = {n  name: `cmf`,n
moduleName: CORE,n  };n  Identifiers.moduleDef = {n  name: `mod`,n  moduleName: CORE,n  };n
  Identifiers.moduleProviderDef = {n  name: `mpd`,n  moduleName: CORE,n  };n
  Identifiers.RegisterModuleFactoryFn = {n  name: `registerModuleFactory`,n  moduleName: CORE,n  };n
  Identifiers.Injector = { name: `Injector`, moduleName: CORE };n  Identifiers.ViewEncapsulation = {n  name:
`ViewEncapsulation`,n  moduleName: CORE,n  };n  Identifiers.ChangeDetectionStrategy = {n  name:
`ChangeDetectionStrategy`,n  moduleName: CORE,n  };n  Identifiers.SecurityContext = {n  name:
`SecurityContext`,n  moduleName: CORE,n  };n  Identifiers.LOCALE_ID = { name: `LOCALE_ID`,
moduleName: CORE };n  Identifiers.TRANSLATIONS_FORMAT = {n  name:
`TRANSLATIONS_FORMAT`,n  moduleName: CORE,n  };n  Identifiers.inlineInterpolate = {n  name:
`inlineInterpolate`,n  moduleName: CORE,n  };n  Identifiers.interpolate = { name: `interpolate`,
moduleName: CORE };n  Identifiers.EMPTY_ARRAY = { name: `EMPTY_ARRAY`, moduleName: CORE };n
  Identifiers.EMPTY_MAP = { name: `EMPTY_MAP`, moduleName: CORE };n  Identifiers.Renderer = { name:
`Renderer`, moduleName: CORE };n  Identifiers.viewDef = { name: `vid`, moduleName: CORE };n
  Identifiers.elementDef = { name: `eld`, moduleName: CORE };n  Identifiers.anchorDef = { name: `and`,
moduleName: CORE };n  Identifiers.textDef = { name: `ted`, moduleName: CORE };n  Identifiers.directiveDef
= { name: `did`, moduleName: CORE };n  Identifiers.providerDef = { name: `prd`, moduleName: CORE };n
  Identifiers.queryDef = { name: `qud`, moduleName: CORE };n  Identifiers.pureArrayDef = { name: `pad`,
moduleName: CORE };n  Identifiers.pureObjectDef = { name: `pod`, moduleName: CORE };n
  Identifiers.purePipeDef = { name: `ppd`, moduleName: CORE };n  Identifiers.pipeDef = { name: `pid`,
moduleName: CORE };n  Identifiers.nodeValue = { name: `nov`, moduleName: CORE };n
  Identifiers.ngContentDef = { name: `ncd`, moduleName: CORE };n  Identifiers.unwrapValue = { name: `unv`,
moduleName: CORE };n  Identifiers.createRendererType2 = { name: `crt`, moduleName: CORE };n  // type
onlyn  Identifiers.RendererType2 = {n  name: `RendererType2`,n  moduleName: CORE,n  };n  // type

```



```

_SELECTOR_REGEXP.exec(selector)) {\n        if (match[1]) {\n            if (inNot) {\n                throw new
Error('Nesting :not is not allowed in a selector');\n            }\n            inNot = true;\n            current = new
CssSelector();\n            cssSelector.notSelectors.push(current);\n        }\n        if (match[2]) {\n            current.setElement(match[2]);\n        }\n        if (match[3]) {\n            current.addClassName(match[3]);\n        }\n        if (match[4]) {\n            current.addAttribute(match[4], match[6]);\n        }\n        if (match[7]) {\n            inNot = false;\n            current = cssSelector;\n        }\n        if (match[8]) {\n            if (inNot) {\n                throw new Error('Multiple selectors in :not are not supported');\n            }\n            _addResult(results, cssSelector);\n            cssSelector = current = new CssSelector();\n        }\n    }\n    _addResult(results, cssSelector);\n    return results;\n};\n/**\n * @return {?}\n *\n CssSelector.prototype.isElementSelector = /**\n * @return {?}\n *\n function () {\n    return
this.hasElementSelector() && this.classNames.length == 0 && this.attrs.length == 0 &&\n    this.notSelectors.length === 0;\n};\n/**\n * @return {?}\n *\n CssSelector.prototype.hasElementSelector = /**\n * @return {?}\n *\n function () { return !!this.element;\n};\n/**\n * @param {?=} element\n * @return {?}\n *\n CssSelector.prototype.setElement = /**\n *
@param {?=} element\n * @return {?}\n *\n function (element) {\n    if (element === void 0) { element =
null; }\n    this.element = element;\n};\n/** Gets a template string for an element that matches the selector.\n*\n /**\n * Gets a template string for an element that matches the selector.\n * @return {?}\n *\n
CssSelector.prototype.getMatchingElementTemplate = /**\n * Gets a template string for an element that matches
the selector.\n * @return {?}\n *\n function () {\n    var /** @type {?} */ tagName = this.element || 'div';\n    var /** @type {?} */ classAttr = this.classNames.length > 0 ? " class=\\\\" + this.classNames.join(' ') + "\\\" :
";\n    var /** @type {?} */ attrs = "";\n    for (var /** @type {?} */ i = 0; i < this.attrs.length; i += 2) {\n    var /** @type {?} */ attrName = this.attrs[i];\n        var /** @type {?} */ attrValue = this.attrs[i + 1] !== " ?
\\\"=\\\" + this.attrs[i + 1] + "\\\" : ";;\n        attrs += " " + attrName + attrValue;\n    }\n    return
getHtmlTagDefinition(tagName).isVoid ? "<" + tagName + classAttr + attrs + ">" : "<" + tagName +
classAttr + attrs + "><" + tagName + ">";\n};\n/**\n * @param {?} name\n * @param {?=} value\n
* @return {?}\n *\n CssSelector.prototype.addAttribute = /**\n * @param {?} name\n * @param {?=}
value\n * @return {?}\n *\n function (name, value) {\n    if (value === void 0) { value = "; }\n    this.attrs.push(name, value && value.toLowerCase() || "");\n};\n/**\n * @param {?} name\n * @return
{?}\n *\n CssSelector.prototype.addClassName = /**\n * @param {?} name\n * @return {?}\n *\n
function (name) { this.classNames.push(name.toLowerCase()); }\n/**\n * @return {?}\n *\n
CssSelector.prototype.toString = /**\n * @return {?}\n *\n function () {\n    var /** @type {?} */ res =
this.element || "";\n    if (this.classNames) {\n        this.classNames.forEach(function (klass) { return res += "." + klass; });\n    }\n    if (this.attrs) {\n        for (var /** @type {?} */ i = 0; i < this.attrs.length; i += 2) {\n        var /** @type {?} */ name_1 = this.attrs[i];\n            var /** @type {?} */ value = this.attrs[i + 1];\n            res += "[" + name_1 + (value ? '=' + value : ") + "]";\n        }\n    }\n    this.notSelectors.forEach(function
(notSelector) { return res += ".not(" + notSelector + ")"; });\n    return res;\n};\n return
CssSelector;\n})();\n/**\n * Reads a list of CssSelectors and allows to calculate which ones\n * are contained in a
given CssSelector.\n *\n nvar SelectorMatcher = /** @class */ (function () {\n    function SelectorMatcher() {\n        this._elementMap = new Map();\n        this._elementPartialMap = new Map();\n        this._classMap = new Map();\n        this._classPartialMap = new Map();\n        this._attrValueMap = new Map();\n        this._attrValuePartialMap =
new Map();\n        this._listContexts = [];\n    }\n    /**\n * @param {?} notSelectors\n * @return {?}\n *\n
SelectorMatcher.createNotMatcher = /**\n * @param {?} notSelectors\n * @return {?}\n *\n function
(notSelectors) {\n        var /** @type {?} */ notMatcher = new SelectorMatcher();\n        notMatcher.addSelectable(notSelectors, null);\n        return notMatcher;\n    };;\n    /**\n * @param {?}
cssSelectors\n * @param {?=} callbackCtxt\n * @return {?}\n *\n
SelectorMatcher.prototype.addSelectable = /**\n * @param {?} cssSelectors\n * @param {?=} callbackCtxt\n
* @return {?}\n *\n function (cssSelectors, callbackCtxt) {\n        var /** @type {?} */ listContext = /**
@type {?} */ ((null));\n        if (cssSelectors.length > 1) {\n            listContext = new

```

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SelectorListContext(cssSelectors);\n      this._listContexts.push(listContext);\n    }\n    for (var /** @type  

{?} */ i = 0; i < cssSelectors.length; i++) {\n      this._addSelectable(cssSelectors[i], callbackCtx, listContext);\n  

    }\n  };\n  /**\n   * Add an object that can be found later on by calling `match`.\n   * @param {?  

cssSelector A css selector\n   * @param {?} callbackCtx An opaque object that will be given to the callback of the  

`match` function\n   * @param {?} listContext\n   * @return {?}\n   */\n  SelectorMatcher.prototype._addSelectable = /**\n   * Add an object that can be found later on by calling `match`.\n   * @param {?} cssSelector A css selector\n   * @param {?} callbackCtx An opaque object that will be given to  

the callback of the `match` function\n   * @param {?} listContext\n   * @return {?}\n   */\n   function  

(cssSelector, callbackCtx, listContext) {\n    var /** @type {?} */ matcher = this;\n    var /** @type {?} */  

element = cssSelector.element;\n    var /** @type {?} */ classNames = cssSelector.classNames;\n    var /**  

@type {?} */ attrs = cssSelector.attrs;\n    var /** @type {?} */ selectable = new SelectorContext(cssSelector,  

callbackCtx, listContext);\n    if (element) {\n      var /** @type {?} */ isTerminal = attrs.length === 0 &&  

classNames.length === 0;\n      if (isTerminal) {\n        this._addTerminal(matcher._elementMap, element,  

selectable);\n      }\n      else {\n        matcher = this._addPartial(matcher._elementPartialMap,  

element);\n      }\n      if (classNames) {\n        for (var /** @type {?} */ i = 0; i < classNames.length;  

i++) {\n          var /** @type {?} */ isTerminal = attrs.length === 0 && i === classNames.length - 1;\n          var /** @type {?} */ className = classNames[i];\n          if (isTerminal) {\n            this._addTerminal(matcher._classMap, className, selectable);\n          }\n          else {\n            matcher  

= this._addPartial(matcher._classPartialMap, className);\n          }\n          if (attrs) {\n            for (var /** @type {?} */ i = 0; i < attrs.length; i += 2) {\n              var /** @type {?} */ isTerminal = i ===  

attrs.length - 2;\n              var /** @type {?} */ name_2 = attrs[i];\n              var /** @type {?} */ value = attrs[i +  

1];\n              if (isTerminal) {\n                var /** @type {?} */ terminalMap = matcher._attrValueMap;\n                var /** @type {?} */ terminalValuesMap = terminalMap.get(name_2);\n                if (!terminalValuesMap)  

{\n                  terminalValuesMap = new Map();\n                  terminalMap.set(name_2,  

terminalValuesMap);\n                }\n                this._addTerminal(terminalValuesMap, value, selectable);\n              }\n              else {\n                var /** @type {?} */ partialMap = matcher._attrValuePartialMap;\n                var /** @type {?} */ partialValuesMap = partialMap.get(name_2);\n                if (!partialValuesMap) {\n                  partialValuesMap = new Map();\n                  partialMap.set(name_2, partialValuesMap);\n                }\n                matcher = this._addPartial(partialValuesMap, value);\n              }\n            }\n          }\n        }\n      }\n    }\n  };\n  /**\n   *  

@param {?} map\n   * @param {?} name\n   * @param {?} selectable\n   * @return {?}\n   */\n  SelectorMatcher.prototype._addTerminal = /**\n   * @param {?} map\n   * @param {?} name\n   * @param  

{?} selectable\n   * @return {?}\n   */\n   function (map, name, selectable) {\n    var /** @type {?} */  

terminalList = map.get(name);\n    if (!terminalList) {\n      terminalList = [];\n      map.set(name,  

terminalList);\n    }\n    terminalList.push(selectable);\n  };\n  /**\n   * @param {?} map\n   * @param {?}  

name\n   * @return {?}\n   */\n  SelectorMatcher.prototype._addPartial = /**\n   * @param {?} map\n   *  

@param {?} name\n   * @return {?}\n   */\n   function (map, name) {\n    var /** @type {?} */ matcher =  

map.get(name);\n    if (!matcher) {\n      matcher = new SelectorMatcher();\n      map.set(name,  

matcher);\n    }\n    return matcher;\n  };\n  /**\n   * Find the objects that have been added via  

`addSelectable`\n   * whose css selector is contained in the given css selector.\n   * @param cssSelector A css  

selector\n   * @param matchedCallback This callback will be called with the object handed into `addSelectable`\n  

   * @return boolean true if a match was found\n   */\n  /**\n   * Find the objects that have been added via  

`addSelectable`\n   * whose css selector is contained in the given css selector.\n   * @param {?} cssSelector A css  

selector\n   * @param {?} matchedCallback This callback will be called with the object handed into  

`addSelectable`\n   * @return {?} boolean true if a match was found\n   */\n  SelectorMatcher.prototype.match =  

/**\n   * Find the objects that have been added via `addSelectable`\n   * whose css selector is contained in the  

given css selector.\n   * @param {?} cssSelector A css selector\n   * @param {?} matchedCallback This callback  

will be called with the object handed into `addSelectable`\n   * @return {?} boolean true if a match was found\n  

   */\n   function (cssSelector, matchedCallback) {\n    var /** @type {?} */ result = false;\n    var /** @type {?}

```

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*/ element = /** @type {?} */ ((cssSelector.element));\n    var /** @type {?} */ classNames =
cssSelector.classNames;\n    var /** @type {?} */ attrs = cssSelector.attrs;\n    for (var /** @type {?} */ i = 0; i
< this._listContexts.length; i++) {\n        this._listContexts[i].alreadyMatched = false;\n    }\n    result =
this._matchTerminal(this._elementMap, element, cssSelector, matchedCallback) || result;\n    result =
this._matchPartial(this._elementPartialMap, element, cssSelector, matchedCallback) ||\n    result;\n    if
(classNames) {\n        for (var /** @type {?} */ i = 0; i < classNames.length; i++) {\n            var /** @type {?}
*/ className = classNames[i];\n            result =\n                this._matchTerminal(this._classMap, className,
cssSelector, matchedCallback) || result;\n            result =\n                this._matchPartial(this._classPartialMap,
className, cssSelector, matchedCallback) ||\n                result;\n        }\n    }\n    if (attrs) {\n        for
(var /** @type {?} */ i = 0; i < attrs.length; i += 2) {\n            var /** @type {?} */ name_3 = attrs[i];\n            var /** @type {?} */ value = attrs[i + 1];\n            var /** @type {?} */ terminalValuesMap = /** @type {?} */
((this._attrValueMap.get(name_3)));\n            if (value) {\n                result =\n                    this._matchTerminal(terminalValuesMap, value, cssSelector, matchedCallback) || result;\n            }\n            result
= \n                this._matchTerminal(terminalValuesMap, value, cssSelector, matchedCallback) || result;\n            var /** @type {?} */ partialValuesMap = /** @type {?} */ ((this._attrValuePartialMap.get(name_3)));\n            if
(value) {\n                result = this._matchPartial(partialValuesMap, value, cssSelector, matchedCallback) || result;\n            }\n            result =\n                this._matchPartial(partialValuesMap, value, cssSelector, matchedCallback)
|| result;\n        }\n    }\n    return result;\n};\n\n/** @internal *\n * \\@internal\n * @param
{?} map\n * @param {?} name\n * @param {?} cssSelector\n * @param {?} matchedCallback\n *
@return {?}\n * \\ SelectorMatcher.prototype._matchTerminal = /**\n * \\@internal\n * @param {?}
map\n * @param {?} name\n * @param {?} cssSelector\n * @param {?} matchedCallback\n * @return
{?}\n * \\ function (map, name, cssSelector, matchedCallback) {\n    if (!map || typeof name !== 'string') {\n
return false;\n    }\n    var /** @type {?} */ selectables = map.get(name) || [];\n    var /** @type {?} */
starSelectables = /** @type {?} */ ((map.get('*')));\n    if (starSelectables) {\n        selectables =
selectables.concat(starSelectables);\n    }\n    if (selectables.length === 0) {\n        return false;\n    }\n
var /** @type {?} */ selectable;\n    var /** @type {?} */ result = false;\n    for (var /** @type {?} */ i = 0; i <
selectables.length; i++) {\n        selectable = selectables[i];\n        result = selectable.finalize(cssSelector,
matchedCallback) || result;\n    }\n    return result;\n};\n\n/** @internal *\n * \\@internal\n *
@param {?} map\n * @param {?} name\n * @param {?} cssSelector\n * @param {?} matchedCallback\n
* @return {?}\n * \\ SelectorMatcher.prototype._matchPartial = /**\n * \\@internal\n * @param {?}
map\n * @param {?} name\n * @param {?} cssSelector\n * @param {?} matchedCallback\n * @return
{?}\n * \\ function (map, name, cssSelector, matchedCallback) {\n    if (!map || typeof name !== 'string') {\n
return false;\n    }\n    var /** @type {?} */ nestedSelector = map.get(name);\n    if (!nestedSelector) {\n
return false;\n    }\n    // TODO(perf): get rid of recursion and measure again\n    // TODO(perf): don't
pass the whole selector into the recursion,\n    // but only the not processed parts\n    return
nestedSelector.match(cssSelector, matchedCallback);\n};\n\nreturn SelectorMatcher;\n})();\n\nvar
SelectorListContext = /** @class */ (function () {\n    function SelectorListContext(selectors) {\n        this.selectors
= selectors;\n        this.alreadyMatched = false;\n    }\n    return SelectorListContext;\n})();\n\nvar SelectorContext =
/** @class */ (function () {\n    function SelectorContext(selector, cbContext, listContext) {\n        this.selector =
selector;\n        this.cbContext = cbContext;\n        this.listContext = listContext;\n        this.notSelectors =
selector.notSelectors;\n    }\n    /**\n     * @param {?} cssSelector\n     * @param {?} callback\n     * @return {?}\n
    *\n     * \\ SelectorContext.prototype.finalize = /**\n     * @param {?} cssSelector\n     * @param {?} callback\n    
* @return {?}\n     *\n     * \\ function (cssSelector, callback) {\n        var /** @type {?} */ result = true;\n        if
(this.notSelectors.length > 0 && (!this.listContext || !this.listContext.alreadyMatched)) {\n            var /** @type {?}
*/ notMatcher = SelectorMatcher.createNotMatcher(this.notSelectors);\n            result =
!notMatcher.match(cssSelector, null);\n        }\n        if (result && callback && (!this.listContext ||
!this.listContext.alreadyMatched)) {\n            if (this.listContext) {\n                this.listContext.alreadyMatched =
true;\n            }\n            callback(this.selector, this.cbContext);\n        }\n        return result;\n    };\n    return

```



```

this._staticSymbolCache.get(dirType.filePath, name);\n    }\n    else {\n        var /** @type {?} */ HostClass
= /** @type {?} */ (function HostClass() { });\n        HostClass.overriddenName = name;\n        return
HostClass;\n    }\n};\n/**\n * @param {?} dirType\n * @return {?}\n */\nCompileMetadataResolver.prototype.getRendererType = /**\n * @param {?} dirType\n * @return {?}\n */\nfunction (dirType) {\n    if (dirType instanceof StaticSymbol) {\n        return
this._staticSymbolCache.get(ngfactoryFilePath(dirType.filePath), rendererTypeName(dirType));\n    }\n    else
{\n        // returning an object as proxy,\n        // that we fill later during runtime compilation.\n        return /**
@type {?} */ ({});\n    }\n};\n/**\n * @param {?} selector\n * @param {?} dirType\n * @param {?}
inputs\n * @param {?} outputs\n * @return {?}\n */\nCompileMetadataResolver.prototype.getComponentFactory = /**\n * @param {?} selector\n * @param {?}
dirType\n * @param {?} inputs\n * @param {?} outputs\n * @return {?}\n */\nfunction (selector,
dirType, inputs, outputs) {\n    if (dirType instanceof StaticSymbol) {\n        return
this._staticSymbolCache.get(ngfactoryFilePath(dirType.filePath), componentFactoryName(dirType));\n    }\n    else {\n        var /** @type {?} */ hostView = this.getHostComponentViewClass(dirType);\n        // Note:
ngContentSelectors will be filled later once the template is\n        // loaded.\n        var /** @type {?} */
createComponentFactory = this._reflector.resolveExternalReference(Identifiers.createComponentFactory);\n        return createComponentFactory(selector, dirType, /** @type {?} */ (hostView), inputs, outputs, []);\n    }\n};\n
/**\n * @param {?} factory\n * @param {?} ngContentSelectors\n * @return {?}\n */\nCompileMetadataResolver.prototype.initComponentFactory = /**\n * @param {?} factory\n * @param {?}
ngContentSelectors\n * @return {?}\n */\nfunction (factory, ngContentSelectors) {\n    if (!(factory
instanceof StaticSymbol)) {\n        (_a = /** @type {?} */ (factory)).ngContentSelectors.push.apply(_a,
ngContentSelectors);\n    }\n    var _a;\n};\n/**\n * @param {?} type\n * @param {?} kind\n *
@return {?}\n */\nCompileMetadataResolver.prototype._loadSummary = /**\n * @param {?} type\n *
@param {?} kind\n * @return {?}\n */\nfunction (type, kind) {\n    var /** @type {?} */ typeSummary =
this._summaryCache.get(type);\n    if (!typeSummary) {\n        var /** @type {?} */ summary =
this._summaryResolver.resolveSummary(type);\n        typeSummary = summary ? summary.type : null;\n    }\n    this._summaryCache.set(type, typeSummary || null);\n    return typeSummary &&
typeSummary.summaryKind === kind ? typeSummary : null;\n};\n/**\n * @param {?} compMeta\n *
@param {?=} hostViewType\n * @return {?}\n */\nCompileMetadataResolver.prototype.getHostComponentMetadata = /**\n * @param {?} compMeta\n *
@param {?=} hostViewType\n * @return {?}\n */\nfunction (compMeta, hostViewType) {\n    var /**
@type {?} */ hostType = this.getHostComponentType(compMeta.type.reference);\n    if (!hostViewType) {\n        hostViewType = this.getHostComponentViewClass(hostType);\n    }\n    // Note: ! is ok here as this method
should only be called with normalized directive\n    // metadata, which always fills in the selector.\n    var /**
@type {?} */ template = CssSelector.parse(** @type {?} */
((compMeta.selector))[0].getMatchingElementTemplate());\n    var /** @type {?} */ templateUrl = ";\n    var
/** @type {?} */ htmlAst = this._htmlParser.parse(template, templateUrl);\n    return
CompileDirectiveMetadata.create({\n        isHost: true,\n        type: { reference: hostType, diDeps: [],
lifecycleHooks: [] },\n        template: new CompileTemplateMetadata({\n            encapsulation:
ViewEncapsulation.None,\n            template: template,\n            templateUrl: templateUrl,\n            htmlAst:
htmlAst,\n            styles: [],\n            styleUrls: [],\n            ngContentSelectors: [],\n            animations:
[],\n            isInline: true,\n            externalStylesheets: [],\n            interpolation: null,\n            preserveWhitespaces: false,\n        }),\n        exportAs: null,\n        changeDetection:
ChangeDetectionStrategy.Default,\n        inputs: [],\n        outputs: [],\n        host: {},\n        isComponent:
true,\n        selector: '*',\n        providers: [],\n        viewProviders: [],\n        queries: [],\n        guards:
[],\n        viewQueries: [],\n        componentViewType: hostViewType,\n        rendererType: /** @type {?} */
*/ ( { id: '__Host__', encapsulation: ViewEncapsulation.None, styles: [], data: { } }),\n        entryComponents: [],\n        componentFactory: null\n    });\n};\n/**\n * @param {?} ngModuleType\n * @param {?}

```



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directiveType\n    * @param {?} isSync\n    * @return {?}\n    *\nCompileMetadataResolver.prototype.loadDirectiveMetadata = /**\n    * @param {?} ngModuleType\n    * @param {?} directiveType\n    * @param {?} isSync\n    * @return {?}\n    */\n    function (ngModuleType, directiveType, isSync) {\n        var _this = this;\n        if (this._directiveCache.has(directiveType)) {\n            return null;\n        }\n        directiveType = resolveForwardRef(directiveType);\n        var _a = /** @type {?} */ ((this.getNonNormalizedDirectiveMetadata(directiveType))), annotation = _a.annotation, metadata = _a.metadata;\n        var /** @type {?} */ createDirectiveMetadata = function (templateMetadata) {\n            var /** @type {?} */ normalizedDirMeta = new CompileDirectiveMetadata({\n                isHost: false,\n                type: metadata.type,\n                isComponent: metadata.isComponent,\n                selector: metadata.selector,\n                exportAs: metadata.exportAs,\n                changeDetection: metadata.changeDetection,\n                inputs: metadata.inputs,\n                outputs: metadata.outputs,\n                hostListeners: metadata.hostListeners,\n                hostProperties: metadata.hostProperties,\n                hostAttributes: metadata.hostAttributes,\n                providers: metadata.providers,\n                viewProviders: metadata.viewProviders,\n                queries: metadata.queries,\n                guards: metadata.guards,\n                viewQueries: metadata.viewQueries,\n                entryComponents: metadata.entryComponents,\n                componentViewType: metadata.componentViewType,\n                rendererType: metadata.rendererType,\n                componentFactory: metadata.componentFactory,\n                template: templateMetadata\n            });\n            if (templateMetadata) {\n                _this.initComponentFactory(/** @type {?} */ ((metadata.componentFactory)), templateMetadata.ngContentSelectors);\n            }\n            _this._directiveCache.set(directiveType, normalizedDirMeta);\n            _this._summaryCache.set(directiveType, normalizedDirMeta.toSummary());\n            return null;\n        }; \n        if (metadata.isComponent) {\n            var /** @type {?} */ template = /** @type {?} */ ((metadata.template));\n            var /** @type {?} */ templateMeta = this._directiveNormalizer.normalizeTemplate({\n                ngModuleType: ngModuleType,\n                componentType: directiveType,\n                moduleName: this._reflector.componentModuleName(directiveType, annotation),\n                encapsulation: template.encapsulation,\n                template: template.template,\n                templateUrl: template.templateUrl,\n                styles: template.styles,\n                styleUrls: template.styleUrls,\n                animations: template.animations,\n                interpolation: template.interpolation,\n                preserveWhitespaces: template.preserveWhitespaces\n            });\n            if (isPromise(templateMeta) && isSync) {\n                _this._reportError(componentStillLoadingError(directiveType), directiveType);\n                return null;\n            }\n            return SyncAsync.then(templateMeta, createDirectiveMetadata);\n        } else {\n            // directive\n            createDirectiveMetadata(null);\n            return null;\n        }\n    }; \n    /**\n    * @param {?} directiveType\n    * @return {?}\n    *\nCompileMetadataResolver.prototype.getNonNormalizedDirectiveMetadata = /**\n    * @param {?} directiveType\n    * @return {?}\n    */\n    function (directiveType) {\n        var _this = this;\n        directiveType = resolveForwardRef(directiveType);\n        if (!directiveType) {\n            return null;\n        }\n        var /** @type {?} */ cacheEntry = this._nonNormalizedDirectiveCache.get(directiveType);\n        if (cacheEntry) {\n            return cacheEntry;\n        }\n        var /** @type {?} */ dirMeta = this._directiveResolver.resolve(directiveType, false);\n        if (!dirMeta) {\n            return null;\n        }\n        var /** @type {?} */ nonNormalizedTemplateMetadata = /** @type {?} */ ((undefined));\n        if (createComponent.isTypeOf(dirMeta)) {\n            // component\n            var /** @type {?} */ compMeta = /** @type {?} */ (dirMeta);\n            assertArrayOfStrings('styles', compMeta.styles);\n            assertArrayOfStrings('styleUrls', compMeta.styleUrls);\n            assertInterpolationSymbols('interpolation', compMeta.interpolation);\n            var /** @type {?} */ animations = compMeta.animations;\n            nonNormalizedTemplateMetadata = new CompileTemplateMetadata({\n                encapsulation: noUndefined(compMeta.encapsulation),\n                template: noUndefined(compMeta.template),\n                templateUrl: noUndefined(compMeta.templateUrl),\n                htmlAst: null,\n                styles: compMeta.styles || [],\n                styleUrls: compMeta.styleUrls || [],\n                animations: animations || [],\n                interpolation: noUndefined(compMeta.interpolation),\n                isInline: !!compMeta.template,\n                externalStylesheets: [],\n                ngContentSelectors: [],\n                preserveWhitespaces:

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noUndefined(dirMeta.preserveWhitespaces),\n        });\n    }\n    var /** @type {?} */\n    changeDetectionStrategy = /** @type {?} */ ((null));\n    var /** @type {?} */ viewProviders = [];\n    var /**\n    @type {?} */ entryComponentMetadata = [];\n    var /** @type {?} */ selector = dirMeta.selector;\n    if\n    (createComponent.isTypeOf(dirMeta)) {\n        // Component\n        var /** @type {?} */ compMeta = /**\n    @type {?} */ (dirMeta);\n        changeDetectionStrategy = /** @type {?} */ ((compMeta.changeDetection));\n        if (compMeta.viewProviders) {\n            viewProviders =\n            this._getProvidersMetadata(compMeta.viewProviders, entryComponentMetadata, \"viewProviders for \" +\n            stringifyType(directiveType) + \"\", [], directiveType);\n        }\n        if (compMeta.entryComponents) {\n            entryComponentMetadata = flattenAndDedupeArray(compMeta.entryComponents)\n            .map(function (type) { return ((this._getEntryComponentMetadata(type))); });\n        }\n        .concat(entryComponentMetadata);\n        if (!selector) {\n            selector =\n            this._schemaRegistry.getDefaultComponentElementName();\n        }\n        else {\n            // Directive\n            if (!selector) {\n                this._reportError(syntaxError(\"Directive \" + stringifyType(directiveType) + \" has\n                no selector, please add it!\"), directiveType);\n                selector = 'error';\n            }\n            var /** @type\n            {?} */ providers = [];\n            if (dirMeta.providers != null) {\n                providers =\n                this._getProvidersMetadata(dirMeta.providers, entryComponentMetadata, \"providers for \" +\n                stringifyType(directiveType) + \"\", [], directiveType);\n            }\n            var /** @type {?} */ queries = [];\n            var\n            /** @type {?} */ viewQueries = [];\n            if (dirMeta.queries != null) {\n                queries =\n                this._getQueriesMetadata(dirMeta.queries, false, directiveType);\n                viewQueries =\n                this._getQueriesMetadata(dirMeta.queries, true, directiveType);\n            }\n            var /** @type {?} */ metadata =\n            CompileDirectiveMetadata.create({\n                isHost: false,\n                selector: selector,\n                exportAs:\n                noUndefined(dirMeta.exportAs),\n                isComponent: !!nonNormalizedTemplateMetadata,\n                type:\n                this._getTypeMetadata(directiveType),\n                template: nonNormalizedTemplateMetadata,\n                changeDetection: changeDetectionStrategy,\n                inputs: dirMeta.inputs || [],\n                outputs: dirMeta.outputs ||\n                [],\n                host: dirMeta.host || {},\n                providers: providers || [],\n                viewProviders: viewProviders || [],\n                queries: queries || [],\n                guards: dirMeta.guards || {},\n                viewQueries: viewQueries || [],\n                entryComponents: entryComponentMetadata,\n                componentViewType: nonNormalizedTemplateMetadata ?\n                this.getComponentViewClass(directiveType) : null,\n                rendererType:\n                nonNormalizedTemplateMetadata ? this.getRendererType(directiveType) : null,\n                componentFactory: null\n            });\n            if (nonNormalizedTemplateMetadata) {\n                metadata.componentFactory =\n                this.getComponentFactory(selector, directiveType, metadata.inputs, metadata.outputs);\n            }\n            cacheEntry =\n            { metadata: metadata, annotation: dirMeta };\n            this._nonNormalizedDirectiveCache.set(directiveType,\n            cacheEntry);\n            return cacheEntry;\n        };\n        /**\n        * Gets the metadata for the given directive.\n        * This\n        assumes `loadNgModuleDirectiveAndPipeMetadata` has been called first.\n        */\n        /**\n        * Gets the metadata\n        for the given directive.\n        * This assumes `loadNgModuleDirectiveAndPipeMetadata` has been called first.\n        */\n        @param {?} directiveType\n        * @return {?}\n        */\n        CompileMetadataResolver.prototype.getDirectiveMetadata = /**\n        * Gets the metadata for the given directive.\n        * This assumes `loadNgModuleDirectiveAndPipeMetadata` has been called first.\n        */\n        @param {?} directiveType\n        * @return {?}\n        */\n        function (directiveType) {\n            var /** @type {?} */ dirMeta = /**\n            @type {?} */ ((this._directiveCache.get(directiveType)));\n            if (!dirMeta) {\n                this._reportError(syntaxError(\"Illegal state: getDirectiveMetadata can only be called after\n                loadNgModuleDirectiveAndPipeMetadata for a module that declares it. Directive \" + stringifyType(directiveType)\n                + \"\"), directiveType);\n            }\n            return dirMeta;\n        };\n        /**\n        * @param {?} dirType\n        * @return\n        {?}\n        */\n        CompileMetadataResolver.prototype.getDirectiveSummary = /**\n        * @param {?} dirType\n        * @return\n        {?}\n        */\n        function (dirType) {\n            var /** @type {?} */ dirSummary = /**\n            @type {?} */\n            (this._loadSummary(dirType, CompileSummaryKind.Directive));\n            if (!dirSummary) {\n                this._reportError(syntaxError(\"Illegal state: Could not load the summary for directive \" + stringifyType(dirType) +\n                \"\"), dirType);\n            }\n            return dirSummary;\n        };\n        /**\n        * @param {?} type\n        * @return\n        {?}\n    }

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*\n CompileMetadataResolver.prototype.isDirective = /**\n * @param {?} type\n * @return {?}\n *\n function (type) {\n return !!this._loadSummary(type, CompileSummaryKind.Directive) ||\n this._directiveResolver.isDirective(type);\n };\n /**\n * @param {?} type\n * @return {?}\n *\n CompileMetadataResolver.prototype.isPipe = /**\n * @param {?} type\n * @return {?}\n *\n function (type) {\n return !!this._loadSummary(type, CompileSummaryKind.Pipe) ||\n this._pipeResolver.isPipe(type);\n };\n /**\n * @param {?} type\n * @return {?}\n *\n CompileMetadataResolver.prototype.isNgModule = /**\n * @param {?} type\n * @return {?}\n *\n function (type) {\n return !!this._loadSummary(type, CompileSummaryKind.NgModule) ||\n this._ngModuleResolver.isNgModule(type);\n };\n /**\n * @param {?} moduleType\n * @param {?=} alreadyCollecting\n * @return {?}\n *\n CompileMetadataResolver.prototype.getNgModuleSummary = /**\n * @param {?} moduleType\n * @param {?=} alreadyCollecting\n * @return {?}\n *\n function (moduleType, alreadyCollecting) {\n if (alreadyCollecting === void 0) { alreadyCollecting = null; }\n var /** @type {?} */ moduleSummary = /** @type {?} */ (this._loadSummary(moduleType, CompileSummaryKind.NgModule));\n if (!moduleSummary) {\n var /** @type {?} */ moduleMeta = this.getNgModuleMetadata(moduleType, false, alreadyCollecting);\n moduleSummary = moduleMeta ? moduleMeta.toSummary() : null;\n if (moduleSummary) {\n this._summaryCache.set(moduleType, moduleSummary);\n }\n }\n return moduleSummary;\n };\n /**\n * Loads the declared directives and pipes of an NgModule.\n *\n /**\n * Loads the declared directives and pipes of an NgModule.\n * @param {?} moduleType\n * @param {?} isSync\n * @param {?=} throwIfNotFound\n * @return {?}\n *\n CompileMetadataResolver.prototype.loadNgModuleDirectiveAndPipeMetadata = /**\n * Loads the declared directives and pipes of an NgModule.\n * @param {?} moduleType\n * @param {?} isSync\n * @param {?=} throwIfNotFound\n * @return {?}\n *\n function (moduleType, isSync, throwIfNotFound) {\n var _this = this;\n if (throwIfNotFound === void 0) { throwIfNotFound = true; }\n var /** @type {?} */ ngModule = this.getNgModuleMetadata(moduleType, throwIfNotFound);\n var /** @type {?} */ loading = [];\n if (ngModule) {\n ngModule.declaredDirectives.forEach(function (id) {\n var /** @type {?} */ promise = _this.loadDirectiveMetadata(moduleType, id.reference, isSync);\n if (promise) {\n loading.push(promise);\n }\n });\n ngModule.declaredPipes.forEach(function (id) { return _this._loadPipeMetadata(id.reference); });\n }\n return Promise.all(loading);\n };\n /**\n * @param {?} moduleType\n * @param {?=} throwIfNotFound\n * @param {?=} alreadyCollecting\n * @return {?}\n *\n CompileMetadataResolver.prototype.getNgModuleMetadata = /**\n * @param {?} moduleType\n * @param {?=} throwIfNotFound\n * @param {?=} alreadyCollecting\n * @return {?}\n *\n function (moduleType, throwIfNotFound, alreadyCollecting) {\n var _this = this;\n if (throwIfNotFound === void 0) { throwIfNotFound = true; }\n if (alreadyCollecting === void 0) { alreadyCollecting = null; }\n moduleType = resolveForwardRef(moduleType);\n var /** @type {?} */ compileMeta = this._ngModuleCache.get(moduleType);\n if (compileMeta) {\n return compileMeta;\n }\n var /** @type {?} */ meta = this._ngModuleResolver.resolve(moduleType, throwIfNotFound);\n if (!meta) {\n return null;\n }\n var /** @type {?} */ declaredDirectives = [];\n var /** @type {?} */ exportedNonModuleIdentifiers = [];\n var /** @type {?} */ declaredPipes = [];\n var /** @type {?} */ importedModules = [];\n var /** @type {?} */ exportedModules = [];\n var /** @type {?} */ providers = [];\n var /** @type {?} */ entryComponents = [];\n var /** @type {?} */ bootstrapComponents = [];\n var /** @type {?} */ schemas = [];\n if (meta.imports) {\n flattenAndDedupeArray(meta.imports).forEach(function (importedType) {\n var /** @type {?} */ importedModuleType = /** @type {?} */ ((undefined));\n if (isValidType(importedType)) {\n importedModuleType = importedType;\n }\n else if (importedType && importedType.ngModule) {\n var /** @type {?} */ moduleWithProviders = importedType;\n importedModuleType = moduleWithProviders.ngModule;\n if (moduleWithProviders.providers) {\n providers.push.apply(providers, _this._getProvidersMetadata(moduleWithProviders.providers,

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entryComponents, \"provider for the NgModule \" + stringifyType(importedModuleType) + \"\", [],
importedType));\n        }\n        }\n        if (importedModuleType) {\n            if
(_this._checkSelfImport(moduleType, importedModuleType))\n                return;\n            if
(!alreadyCollecting)\n                alreadyCollecting = new Set();\n            if
(alreadyCollecting.has(importedModuleType)) {\n
_this._reportError(syntaxError(_this._getTypeDescriptor(importedModuleType) + \" \" +
stringifyType(importedType) + \" is imported recursively by the module \" + stringifyType(moduleType) + \"\"),
moduleType);\n                return;\n            }\n            alreadyCollecting.add(importedModuleType);\n
        var /** @type {?} */ importedModuleSummary = _this.getNgModuleSummary(importedModuleType,
alreadyCollecting);\n            alreadyCollecting.delete(importedModuleType);\n            if
(!importedModuleSummary) {\n                _this._reportError(syntaxError(\"Unexpected \" +
_this._getTypeDescriptor(importedType) + \" \" + stringifyType(importedType) + \" imported by the module \" +
stringifyType(moduleType) + \"\". Please add a @NgModule annotation.\"), moduleType);\n                return;\n
            }\n            importedModules.push(importedModuleSummary);\n        }\n        else {\n
            _this._reportError(syntaxError(\"Unexpected value \" + stringifyType(importedType) + \" imported by the
module \" + stringifyType(moduleType) + \"\"), moduleType);\n                return;\n            }\n        });\n
    }\n    if (meta.exports) {\n        flattenAndDedupeArray(meta.exports).forEach(function (exportedType) {\n
            if (!isValidType(exportedType)) {\n                _this._reportError(syntaxError(\"Unexpected value \" +
stringifyType(exportedType) + \" exported by the module \" + stringifyType(moduleType) + \"\"), moduleType);\n
                return;\n            }\n            if (!alreadyCollecting)\n                alreadyCollecting = new Set();\n
            if (alreadyCollecting.has(exportedType)) {\n
                _this._reportError(syntaxError(_this._getTypeDescriptor(exportedType) + \" \" + stringify(exportedType) + \" is
exported recursively by the module \" + stringifyType(moduleType) + \"\"), moduleType);\n                return;\n
            }\n            alreadyCollecting.add(exportedType);\n            var /** @type {?} */
exportedModuleSummary = _this.getNgModuleSummary(exportedType, alreadyCollecting);\n
            alreadyCollecting.delete(exportedType);\n            if (exportedModuleSummary) {\n
                exportedModules.push(exportedModuleSummary);\n            }\n            else {\n
                exportedNonModuleIdentifiers.push(_this._getIdentifierMetadata(exportedType));\n            }\n        });\n
    }\n    // Note: This will be modified later, so we rely on\n    // getting a new instance every time!\n    var /**
@type {?} */ transitiveModule = this._getTransitiveNgModuleMetadata(importedModules, exportedModules);\n
    if (meta.declarations) {\n        flattenAndDedupeArray(meta.declarations).forEach(function (declaredType) {\n
            if (!isValidType(declaredType)) {\n                _this._reportError(syntaxError(\"Unexpected value \" +
stringifyType(declaredType) + \" declared by the module \" + stringifyType(moduleType) + \"\"), moduleType);\n
                return;\n            }\n            var /** @type {?} */ declaredIdentifier =
_this._getIdentifierMetadata(declaredType);\n            if (_this.isDirective(declaredType)) {\n
                transitiveModule.addDirective(declaredIdentifier);\n                declaredDirectives.push(declaredIdentifier);\n
                _this._addTypeToModule(declaredType, moduleType);\n            }\n            else if
(_this.isPipe(declaredType)) {\n                transitiveModule.addPipe(declaredIdentifier);\n
                declaredPipes.push(declaredIdentifier);\n                _this._addTypeToModule(declaredType, moduleType);\n
            }\n            else {\n                _this._reportError(syntaxError(\"Unexpected \" + _this._getTypeDescriptor(declaredType) + \" \" +
stringifyType(declaredType) + \" declared by the module \" + stringifyType(moduleType) + \"\". Please add a
@Pipe/@Directive/@Component annotation.\"), moduleType);\n                return;\n            }\n        });\n
    }\n    var /** @type {?} */ exportedDirectives = [];\n    var /** @type {?} */ exportedPipes = [];\n
    exportedNonModuleIdentifiers.forEach(function (exportedId) {\n        if
(transitiveModule.directivesSet.has(exportedId.reference)) {\n            exportedDirectives.push(exportedId);\n
            transitiveModule.addExportedDirective(exportedId);\n        }\n        else if
(transitiveModule.pipesSet.has(exportedId.reference)) {\n            exportedPipes.push(exportedId);\n

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(importedModules, exportedModules) {\n    // collect `providers` / `entryComponents` from all imported and all
exported modules\n    var /** @type {?} */ result = new TransitiveCompileNgModuleMetadata();\n    var /**
@type {?} */ modulesByToken = new Map();\n    importedModules.concat(exportedModules).forEach(function
(modSummary) {\n        modSummary.modules.forEach(function (mod) { return result.addModule(mod); });\n
        modSummary.entryComponents.forEach(function (comp) { return result.addEntryComponent(comp); });\n
    var /** @type {?} */ addedTokens = new Set();\n        modSummary.providers.forEach(function (entry) {\n
        var /** @type {?} */ tokenRef = tokenReference(entry.provider.token);\n            var /** @type {?} */
prevModules = modulesByToken.get(tokenRef);\n            if (!prevModules) {\n                prevModules = new
Set();\n                modulesByToken.set(tokenRef, prevModules);\n            }\n            var /** @type {?} */
moduleRef = entry.module.reference;\n            // Note: the providers of one module may still contain multiple
providers\n            // per token (e.g. for multi providers), and we need to preserve these.\n            if
(addedTokens.has(tokenRef) || !prevModules.has(moduleRef)) {\n                prevModules.add(moduleRef);\n
                addedTokens.add(tokenRef);\n                result.addProvider(entry.provider, entry.module);\n            }\n
        });\n    });\n    exportedModules.forEach(function (modSummary) {\n
    modSummary.exportedDirectives.forEach(function (id) { return result.addExportedDirective(id); });\n
    modSummary.exportedPipes.forEach(function (id) { return result.addExportedPipe(id); });\n    });\n
importedModules.forEach(function (modSummary) {\n        modSummary.exportedDirectives.forEach(function
(id) { return result.addDirective(id); });\n        modSummary.exportedPipes.forEach(function (id) { return
result.addPipe(id); });\n    });\n    return result;\n    };\n    /**\n     * @param {?} type\n     * @return {?}
*\n     * ^\n     * CompileMetadataResolver.prototype._getIdentifierMetadata = /**\n     * @param {?} type\n     * @return
{?}\n     * ^\n     * function (type) {\n     type = resolveForwardRef(type);\n     return { reference: type };
}\n     };\n     /**\n     * @param {?} type\n     * @return {?}*\n     * ^\n     * CompileMetadataResolver.prototype.isInjectable = /**\n
     * @param {?} type\n     * @return {?}*\n     * ^\n     * function (type) {\n     var /** @type {?} */ annotations =
this._reflector.annotations(type);\n     return annotations.some(function (ann) { return
createInjectable.isTypeOf(ann); });\n     };\n     /**\n     * @param {?} type\n     * @return {?}*\n     * ^\n
     * CompileMetadataResolver.prototype.getInjectableSummary = /**\n     * @param {?} type\n     * @return {?}\n
     * ^\n     * function (type) {\n     return {\n         summaryKind: CompileSummaryKind.Injectable,\n         type:
this._getTypeMetadata(type, null, false)\n     };\n     };\n     /**\n     * @param {?} type\n     * @param {?=}
dependencies\n     * @return {?}\n     * ^\n     * CompileMetadataResolver.prototype._getInjectableMetadata = /**\n
     * @param {?} type\n     * @param {?=} dependencies\n     * @return {?}\n     * ^\n     * function (type, dependencies)
{\n     if (dependencies === void 0) { dependencies = null; }\n     var /** @type {?} */ typeSummary =
this._loadSummary(type, CompileSummaryKind.Injectable);\n     if (typeSummary) {\n         return
typeSummary.type;\n     }\n     return this._getTypeMetadata(type, dependencies);\n     };\n     /**\n     * @param
{?} type\n     * @param {?=} dependencies\n     * @param {?=} throwOnUnknownDeps\n     * @return {?}\n
     * ^\n     * CompileMetadataResolver.prototype._getTypeMetadata = /**\n     * @param {?} type\n     * @param {?=}
dependencies\n     * @param {?=} throwOnUnknownDeps\n     * @return {?}\n     * ^\n     * function (type,
dependencies, throwOnUnknownDeps) {\n     if (dependencies === void 0) { dependencies = null; }\n     if
(throwOnUnknownDeps === void 0) { throwOnUnknownDeps = true; }\n     var /** @type {?} */ identifier =
this._getIdentifierMetadata(type);\n     return {\n         reference: identifier.reference,\n         diDeps:
this._getDependenciesMetadata(identifier.reference, dependencies, throwOnUnknownDeps),\n
         lifecycleHooks: getAllLifecycleHooks(this._reflector, identifier.reference),\n     };\n     };\n     /**\n     * @param
{?} factory\n     * @param {?=} dependencies\n     * @return {?}\n     * ^\n     * CompileMetadataResolver.prototype._getFactoryMetadata = /**\n
     * @param {?} factory\n     * @param {?=} dependencies\n     * @return {?}\n     * ^\n     * function (factory, dependencies) {\n     if (dependencies === void 0) {\n
dependencies = null; }\n     factory = resolveForwardRef(factory);\n     return { reference: factory, diDeps:
this._getDependenciesMetadata(factory, dependencies) };\n     };\n     /**\n     * Gets the metadata for the given
pipe.\n     * This assumes `loadNgModuleDirectiveAndPipeMetadata` has been called first.\n     * ^\n     /**\n     *
Gets the metadata for the given pipe.\n     * This assumes `loadNgModuleDirectiveAndPipeMetadata` has been

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called first.\n * @param {?} pipeType\n * @return {?}\n */\n
CompileMetadataResolver.prototype.getPipeMetadata = /**\n * Gets the metadata for the given pipe.\n * This
assumes `loadNgModuleDirectiveAndPipeMetadata` has been called first.\n * @param {?} pipeType\n *
@return {?}\n */\n function (pipeType) {\n var /** @type {?} */ pipeMeta =
this._pipeCache.get(pipeType);\n if (!pipeMeta) {\n this._reportError(syntaxError(`Illegal state:
getPipeMetadata can only be called after loadNgModuleDirectiveAndPipeMetadata for a module that declares it.
Pipe ` + stringifyType(pipeType) + `.`.`, pipeType));\n }\n return pipeMeta || null;\n };\n /**\n *
@param {?} pipeType\n * @return {?}\n */\n CompileMetadataResolver.prototype.getPipeSummary = /**\n
@param {?} pipeType\n * @return {?}\n */\n function (pipeType) {\n var /** @type {?} */
pipeSummary = /** @type {?} */ (this._loadSummary(pipeType, CompileSummaryKind.Pipe));\n if
(!pipeSummary) {\n this._reportError(syntaxError(`Illegal state: Could not load the summary for pipe ` +
stringifyType(pipeType) + `.`.`, pipeType));\n }\n return pipeSummary;\n };\n /**\n * @param {?}
pipeType\n * @return {?}\n */\n CompileMetadataResolver.prototype.getOrLoadPipeMetadata = /**\n *
@param {?} pipeType\n * @return {?}\n */\n function (pipeType) {\n var /** @type {?} */ pipeMeta =
this._pipeCache.get(pipeType);\n if (!pipeMeta) {\n pipeMeta = this._loadPipeMetadata(pipeType);\n
}\n return pipeMeta;\n };\n /**\n * @param {?} pipeType\n * @return {?}\n */\n
CompileMetadataResolver.prototype._loadPipeMetadata = /**\n * @param {?} pipeType\n * @return {?}\n
*/\n function (pipeType) {\n pipeType = resolveForwardRef(pipeType);\n var /** @type {?} */
pipeAnnotation = /** @type {?} */ ((this._pipeResolver.resolve(pipeType)));\n var /** @type {?} */ pipeMeta
= new CompilePipeMetadata({\n type: this._getTypeMetadata(pipeType),\n name:
pipeAnnotation.name,\n pure: !!pipeAnnotation.pure\n });\n this._pipeCache.set(pipeType,
pipeMeta);\n this._summaryCache.set(pipeType, pipeMeta.toSummary());\n return pipeMeta;\n };\n
/**\n * @param {?} typeOrFunc\n * @param {?} dependencies\n * @param {?=} throwOnUnknownDeps\n
* @return {?}\n */\n CompileMetadataResolver.prototype._getDependenciesMetadata = /**\n * @param
{?} typeOrFunc\n * @param {?} dependencies\n * @param {?=} throwOnUnknownDeps\n * @return {?}\n
*/\n function (typeOrFunc, dependencies, throwOnUnknownDeps) {\n var _this = this;\n if
(throwOnUnknownDeps === void 0) { throwOnUnknownDeps = true; }\n var /** @type {?} */
hasUnknownDeps = false;\n var /** @type {?} */ params = dependencies ||
this._reflector.parameters(typeOrFunc) || [];\n var /** @type {?} */ dependenciesMetadata =
params.map(function (param) {\n var /** @type {?} */ isAttribute = false;\n var /** @type {?} */
isHost = false;\n var /** @type {?} */ isSelf = false;\n var /** @type {?} */ isSkipSelf = false;\n
var /** @type {?} */ isOptional = false;\n var /** @type {?} */ token = null;\n if
(Array.isArray(param)) {\n param.forEach(function (paramEntry) {\n if
(createHost.isTypeOf(paramEntry)) {\n isHost = true;\n } else if
(createSelf.isTypeOf(paramEntry)) {\n isSelf = true;\n } else if
(createSkipSelf.isTypeOf(paramEntry)) {\n isSkipSelf = true;\n } else if
(createOptional.isTypeOf(paramEntry)) {\n isOptional = true;\n } else if
(createAttribute.isTypeOf(paramEntry)) {\n isAttribute = true;\n token =
paramEntry.attributeName;\n } else if (createInject.isTypeOf(paramEntry)) {\n
token = paramEntry.token;\n } else if (createInjectionToken.isTypeOf(paramEntry)) ||
paramEntry instanceof StaticSymbol) {\n token = paramEntry;\n } else if
(isValidType(paramEntry) && token == null) {\n token = paramEntry;\n }
});\n } else {\n token = param;\n } if (token == null) {\n
hasUnknownDeps = true;\n return /** @type {?} */ ((null));\n } return {\n
isAttribute: isAttribute,\n isHost: isHost,\n isSelf: isSelf,\n isSkipSelf: isSkipSelf,\n
isOptional: isOptional,\n token: _this._getTokenMetadata(token)\n };\n });\n if
(hasUnknownDeps) {\n var /** @type {?} */ depsTokens = dependenciesMetadata.map(function (dep) {\n
return dep ? stringifyType(dep.token) : '?'; }).join(', '); \n var /** @type {?} */ message = `Can't resolve all

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parameters for \" + stringifyType(typeOrFunc) + \": (\" + depsTokens + \").\";\n      if (throwOnUnknownDeps ||
this._config.strictInjectionParameters) {\n      this._reportError(syntaxError(message), typeOrFunc);\n
}\n      else {\n      this._console.warn(\"Warning: \" + message + \" This will become an error in Angular
v6.x\");\n      }\n      }\n      return dependenciesMetadata;\n    };\n    /**\n     * @param {?} token\n     *
@return {?} */\n     *^ CompileMetadataResolver.prototype._getTokenMetadata = /**\n     * @param {?} token\n
* @return {?} */\n     *^ function (token) {\n     token = resolveForwardRef(token);\n     var /** @type {?} */
compileToken;\n     if (typeof token === 'string') {\n     compileToken = { value: token };\n     }\n     else
{\n     compileToken = { identifier: { reference: token } };\n     }\n     return compileToken;\n   };\n   /**\n
* @param {?} providers\n   * @param {?} targetEntryComponents\n   * @param {?=} debugInfo\n   * @param
{?=} compileProviders\n   * @param {?=} type\n   * @return {?} */\n   *^ CompileMetadataResolver.prototype._getProvidersMetadata = /**\n   * @param {?} providers\n   * @param {?}
targetEntryComponents\n   * @param {?=} debugInfo\n   * @param {?=} compileProviders\n   * @param {?=}
type\n   * @return {?} */\n   *^ function (providers, targetEntryComponents, debugInfo, compileProviders, type)
{\n     var _this = this;\n     if (compileProviders === void 0) { compileProviders = []; }\n
providers.forEach(function (provider, providerIdx) {\n     if (Array.isArray(provider)) {\n
_this._getProvidersMetadata(provider, targetEntryComponents, debugInfo, compileProviders);\n     }\n
else {\n     provider = resolveForwardRef(provider);\n     var /** @type {?} */ providerMeta = /**
@type {?} */ ((undefined));\n     if (provider && typeof provider === 'object' &&
provider.hasOwnProperty('provide')) {\n     _this._validateProvider(provider);\n     providerMeta
= new ProviderMeta(provider.provide, provider);\n     }\n     else if (isValidType(provider)) {\n
providerMeta = new ProviderMeta(provider, { useClass: provider });\n     }\n     else if (provider
=== void 0) {\n     _this._reportError(syntaxError(\"Encountered undefined provider! Usually this means
you have a circular dependencies (might be caused by using 'barrel' index.ts files.\"));)\n     return;\n
}\n     else {\n     var /** @type {?} */ providersInfo = (/** @type {?} */
(providers.reduce(function (soFar, seenProvider, seenProviderIdx) {\n     if (seenProviderIdx <
providerIdx) {\n     soFar.push(\"\" + stringifyType(seenProvider));\n     }\n
else if (seenProviderIdx === providerIdx) {\n     soFar.push(\"?\" + stringifyType(seenProvider) +
\"?\");\n     }\n     else if (seenProviderIdx === providerIdx + 1) {\n
soFar.push('...');\n     }\n     return soFar;\n     }, []))\n     ).join(', ');\n
_this._reportError(syntaxError(\"Invalid \" + (debugInfo ? debugInfo : 'provider') + \" - only instances of
Provider and Type are allowed, got: [\" + providersInfo + \"]\"), type);\n     return;\n     }\n
if (providerMeta.token ===\n
_this._reflector.resolveExternalReference(Identifiers.ANALYZE_FOR_ENTRY_COMPONENTS)) {\n
targetEntryComponents.push.apply(targetEntryComponents,
_this._getEntryComponentsFromProvider(providerMeta, type));\n     }\n     else {\n
compileProviders.push(_this.getProviderMetadata(providerMeta);\n     }\n     });\n     return
compileProviders;\n   };\n   /**\n     * @param {?} provider\n     * @return {?} */\n     *^
CompileMetadataResolver.prototype._validateProvider = /**\n     * @param {?} provider\n     * @return {?} */\n
*^ function (provider) {\n     if (provider.hasOwnProperty('useClass') && provider.useClass === null) {\n
this._reportError(syntaxError(\"Invalid provider for \" + stringifyType(provider.provide) + \". useClass cannot be \"
+ provider.useClass + \".\n     Usually it happens when:\n     1. There's a circular dependency (might be
caused by using index.ts (barrel) files).\n     2. Class was used before it was declared. Use forwardRef in this
case.\"));)\n     }\n     }\n     /**\n     * @param {?} provider\n     * @param {?=} type\n     * @return {?} */\n     *^
CompileMetadataResolver.prototype._getEntryComponentsFromProvider = /**\n     * @param {?} provider\n     *
@param {?=} type\n     * @return {?} */\n     *^ function (provider, type) {\n     var _this = this;\n     var /**
@type {?} */ components = [];\n     var /** @type {?} */ collectedIdentifiers = [];\n     if (provider.useFactory ||
provider.useExisting || provider.useClass) {\n     this._reportError(syntaxError(\"The
ANALYZE_FOR_ENTRY_COMPONENTS token only supports useValue!\"), type);\n     return [];\n     }\n
}

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    if (!provider.multi) {\n      this._reportError(syntaxError(`The ANALYZE_FOR_ENTRY_COMPONENTS
token only supports 'multi = true'!`), type);\n      return [];\n    }\n    extractIdentifiers(provider.useValue,
collectedIdentifiers);\n    collectedIdentifiers.forEach(function (identifier) {\n      var /** @type {?} */ entry =
_this._getEntryComponentMetadata(identifier.reference, false);\n      if (entry) {\n        components.push(entry);\n      }\n    });\n    return components;\n  };\n  /**\n   * @param {?} dirType\n   * @param {?=} throwIfNotFound\n   * @return {?}\n   */\n  CompileMetadataResolver.prototype._getEntryComponentMetadata = /**\n   * @param {?} dirType\n   * @param {?=} throwIfNotFound\n   * @return {?}\n   */\n  function (dirType, throwIfNotFound) {\n    if
(throwIfNotFound === void 0) { throwIfNotFound = true; }\n    var /** @type {?} */ dirMeta =
this.getNonNormalizedDirectiveMetadata(dirType);\n    if (dirMeta && dirMeta.metadata.isComponent) {\n
return { componentType: dirType, componentFactory: /** @type {?} */ ((dirMeta.metadata.componentFactory))
};\n    }\n    var /** @type {?} */ dirSummary = /** @type {?} */ (this._loadSummary(dirType,
CompileSummaryKind.Directive));\n    if (dirSummary && dirSummary.isComponent) {\n      return {
componentType: dirType, componentFactory: /** @type {?} */ ((dirSummary.componentFactory)) };
    }\n    if (throwIfNotFound) {\n      throw syntaxError(dirType.name + ` cannot be used as an entry component.`);\n
    }\n    return null;\n  };\n  /**\n   * @param {?} provider\n   * @return {?}\n   */\n  CompileMetadataResolver.prototype.getProviderMetadata = /**\n   * @param {?} provider\n   * @return {?}\n   */\n  function (provider) {\n    var /** @type {?} */ compileDeps = /** @type {?} */ ((undefined));\n    var
/** @type {?} */ compileTypeMetadata = /** @type {?} */ ((null));\n    var /** @type {?} */
compileFactoryMetadata = /** @type {?} */ ((null));\n    var /** @type {?} */ token =
this._getTokenMetadata(provider.token);\n    if (provider.useClass) {\n      compileTypeMetadata =
this._getInjectableMetadata(provider.useClass, provider.dependencies);\n      compileDeps =
compileTypeMetadata.diDeps;\n      if (provider.token === provider.useClass) {\n        // use the
compileTypeMetadata as it contains information about lifecycleHooks...\n        token = { identifier:
compileTypeMetadata };\n      }\n    } else if (provider.useFactory) {\n      compileFactoryMetadata
= this._getFactoryMetadata(provider.useFactory, provider.dependencies);\n      compileDeps =
compileFactoryMetadata.diDeps;\n      return {\n        token: token,\n        useClass:
compileTypeMetadata,\n        useValue: provider.useValue,\n        useFactory: compileFactoryMetadata,\n
        useExisting: provider.useExisting ? this._getTokenMetadata(provider.useExisting) : undefined,\n
        deps: compileDeps,\n        multi: provider.multi\n      };\n    }\n    /**\n     * @param {?} queries\n     * @param {?}
isViewQuery\n     * @param {?} directiveType\n     * @return {?}\n     */\n    CompileMetadataResolver.prototype._getQueriesMetadata = /**\n     * @param {?} queries\n     * @param {?}
isViewQuery\n     * @param {?} directiveType\n     * @return {?}\n     */\n    function (queries, isViewQuery,
directiveType) {\n      var _this = this;\n      var /** @type {?} */ res = [];\n      Object.keys(queries).forEach(function (propertyName) {\n        var /** @type {?} */ query =
queries[propertyName];\n        if (query.isViewQuery === isViewQuery) {\n          res.push(_this._getQueryMetadata(query, propertyName, directiveType));\n        }\n      });\n      return res;\n
    };\n    /**\n     * @param {?} selector\n     * @return {?}\n     */\n    CompileMetadataResolver.prototype._queryVarBindings = /**\n     * @param {?} selector\n     * @return {?}\n     */\n    function (selector) { return selector.split(/\\s*,\\s*/); };\n    /**\n     * @param {?} q\n     * @param {?}
propertyName\n     * @param {?} typeOrFunc\n     * @return {?}\n     */\n    CompileMetadataResolver.prototype._getQueryMetadata = /**\n     * @param {?} q\n     * @param {?}
propertyName\n     * @param {?} typeOrFunc\n     * @return {?}\n     */\n    function (q, propertyName,
typeOrFunc) {\n      var _this = this;\n      var /** @type {?} */ selectors;\n      if (typeof q.selector === 'string')
{\n        selectors =\n          this._queryVarBindings(q.selector).map(function (varName) { return
_this._getTokenMetadata(varName); });\n      }\n      else {\n        if (!q.selector) {\n          this._reportError(syntaxError(`Can't construct a query for the property \\`\\`" + propertyName + "\\`\\` of \\`\\`" +
stringifyType(typeOrFunc) + "\\`\\`" since the query selector wasn't defined.`), typeOrFunc);\n          selectors =

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[];\n      }\n      else {\n          selectors = [this._getTokenMetadata(q.selector)];\n      }\n      }\n      return {\n          selectors: selectors,\n          first: q.first,\n          descendants: q.descendants, propertyName:
propertyName,\n          read: q.read ? this._getTokenMetadata(q.read) : /** @type {?} */ ((null))\n      };\n      };\n      /**\n       * @param {?} error\n       * @param {?=} type\n       * @param {?=} otherType\n       * @return {?} \n       */\n      CompileMetadataResolver.prototype._reportError = /**\n       * @param {?} error\n       * @param {?=} type\n       * @param {?=} otherType\n       * @return {?} \n       */\n       function (error, type, otherType) {\n           if
(this._errorCollector) {\n               this._errorCollector(error, type);\n           }\n           if (otherType) {\n               this._errorCollector(error, otherType);\n           }\n           }\n           else {\n               throw error;\n           }\n           };\n      return
CompileMetadataResolver;\n    }());\n    /**\n     * @param {?} tree\n     * @param {?=} out\n     * @return {?} \n     */\n     function
flattenArray(tree, out) {\n         if (out === void 0) { out = []; }\n         if (tree) {\n             for (var /** @type {?} */ i = 0; i <
tree.length; i++) {\n                 var /** @type {?} */ item = resolveForwardRef(tree[i]);\n                 if
(Array.isArray(item)) {\n                     flattenArray(item, out);\n                 }\n                 else {\n                     out.push(item);\n                 }\n             }\n             }\n             return out;\n         }\n         /**\n          * @param {?} array\n          * @return {?} \n          */\n          function dedupeArray(array)
{\n              if (array) {\n                  return Array.from(new Set(array));\n              }\n              return [];\n          }\n          /**\n           * @param {?} tree\n           * @return {?} \n           */\n           function flattenAndDedupeArray(tree) {\n               return dedupeArray(flattenArray(tree));\n           }\n           /**\n            * @param {?} value\n            * @return {?} \n            */\n            function isValidType(value) {\n                return (value instanceof StaticSymbol)
|| (value instanceof Type);\n            }\n            /**\n             * @param {?} value\n             * @param {?} targetIdentifiers\n             * @return {?} \n             */\n             function extractIdentifiers(value, targetIdentifiers) {\n                 visitValue(value, new _CompileValueConverter(),
targetIdentifiers);\n             }\n             nvar _CompileValueConverter = /** @class */ (function (_super) {\n                 __extends(_CompileValueConverter, _super);\n                 function _CompileValueConverter() {\n                     return _super !==
null && _super.apply(this, arguments) || this;\n                 }\n                 /**\n                  * @param {?} value\n                  * @param {?}
targetIdentifiers\n                  * @return {?} \n                  */\n                  _CompileValueConverter.prototype.visitOther = /**\n                   * @param
{?} value\n                   * @param {?} targetIdentifiers\n                   * @return {?} \n                   */\n                   function (value, targetIdentifiers) {\n                       targetIdentifiers.push({ reference: value });\n                   };\n                 return
_CompileValueConverter;\n             })(ValueTransformer);\n             /**\n              * @param {?} type\n              * @return {?} \n              */\n              function
stringifyType(type) {\n                  if (type instanceof StaticSymbol) {\n                      return type.name + \" in \" + type.filePath;\n                  }\n                  else {\n                      return stringify(type);\n                  }\n             }\n             /**\n              * Indicates that a component is still being loaded in a
synchronous compile.\n              * @param {?} compType\n              * @return {?} \n              */\n              function
componentStillLoadingError(compType) {\n                  var /** @type {?} */ error = Error(\"Can't compile synchronously as
\" + stringify(compType) + \" is still being loaded!\");\n                  /**\n                   * @type {?} */
(error)[ERROR_COMPONENT_TYPE] = compType;\n                  return error;\n              }\n              /**\n               * @fileoverview added by
tsickle\n               * @suppress {checkTypes} checked by tsc\n               */\n               /**\n                * @license\n                * Copyright Google Inc. All Rights
Reserved.\n                * Use of this source code is governed by an MIT-style license that can be\n                * found in the
LICENSE file at https://angular.io/license\n                */\n                /**\n                 * @enum {number} */\n                 nvar TypeModifier = {\n                     Const:
0,\n                 };\n                 nTypeModifier[TypeModifier.Const] = \"Const\";\n                 /**\n                  * @abstract\n                  */\n                  nvar Type$1 = /** @class */
(function () {\n                     function Type(modifiers) {\n                         if (modifiers === void 0) { modifiers = null; }\n                         this.modifiers = modifiers;\n                         if (!modifiers) {\n                             this.modifiers = [];\n                         }\n                     }\n                     /**\n                      * @param
{?} modifier\n                      * @return {?} \n                      */\n                      Type.prototype.hasModifier = /**\n                       * @param {?} modifier\n                       * @return {?} \n                       */\n                       function (modifier) { return /** @type {?} */ ((this.modifiers).indexOf(modifier) !== -1;
)};\n                     return Type;\n                 }());\n                 /**\n                  * @enum {number} */\n                  nvar BuiltinTypeName = {\n                     Dynamic: 0,\n                     Bool: 1,\n                     String: 2,\n                     Int: 3,\n                     Number: 4,\n                     Function: 5,\n                     Inferred:
6,\n                 };\n                 nBuiltinTypeName[BuiltinTypeName.Dynamic] = \"Dynamic\";\n                 nBuiltinTypeName[BuiltinTypeName.Bool]
= \"Bool\";\n                 nBuiltinTypeName[BuiltinTypeName.String] = \"String\";\n                 nBuiltinTypeName[BuiltinTypeName.Int] =
\"Int\";\n                 nBuiltinTypeName[BuiltinTypeName.Number] =
\"Number\";\n                 nBuiltinTypeName[BuiltinTypeName.Function] =
\"Function\";\n                 nBuiltinTypeName[BuiltinTypeName.Inferred] = \"Inferred\";\n                 nvar BuiltinType = /** @class */
(function (_super) {\n                     __extends(BuiltinType, _super);\n                     function BuiltinType(name, modifiers) {\n                         if
(modifiers === void 0) { modifiers = null; }\n                         var _this = _super.call(this, modifiers) || this;\n                         _this.name =

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name;\n    return _this;\n } \n /**\n  * @param {?} visitor\n  * @param {?} context\n  * @return {?}\n  *\n  * BuiltInType.prototype.visitType = /**\n  * @param {?} visitor\n  * @param {?} context\n  * @return {?}\n  *\n  * function (visitor, context) {\n    return visitor.visitBuiltInType(this, context);\n  };\n  return BuiltInType;\n}(Type$1));\n\nvar ExpressionType = /** @class */ (function (_super) {\n  __extends(ExpressionType, _super);\n  function ExpressionType(value, modifiers) {\n    if (modifiers === void 0) { modifiers = null; }\n    var _this = _super.call(this, modifiers) || this;\n    _this.value = value;\n    return _this;\n  } \n  /**\n   * @param {?} visitor\n   * @param {?} context\n   * @return {?}\n   *\n   * ExpressionType.prototype.visitType = /**\n   * @param {?} visitor\n   * @param {?} context\n   * @return {?}\n   *\n   * function (visitor, context) {\n    return visitor.visitExpressionType(this, context);\n  };\n  return ExpressionType;\n}(Type$1));\n\nvar ArrayType = /** @class */ (function (_super) {\n  __extends(ArrayType, _super);\n  function ArrayType(of, modifiers) {\n    if (modifiers === void 0) { modifiers = null; }\n    var _this = _super.call(this, modifiers) || this;\n    _this.of = of;\n    return _this;\n  } \n  /**\n   * @param {?} visitor\n   * @param {?} context\n   * @return {?}\n   *\n   * ArrayType.prototype.visitType = /**\n   * @param {?} visitor\n   * @param {?} context\n   * @return {?}\n   *\n   * function (visitor, context) {\n    return visitor.visitArrayType(this, context);\n  };\n  return ArrayType;\n}(Type$1));\n\nvar MapType = /** @class */ (function (_super) {\n  __extends(MapType, _super);\n  function MapType(valueType, modifiers) {\n    if (modifiers === void 0) { modifiers = null; }\n    var _this = _super.call(this, modifiers) || this;\n    _this.valueType = valueType || null;\n    return _this;\n  } \n  /**\n   * @param {?} visitor\n   * @param {?} context\n   * @return {?}\n   *\n   * MapType.prototype.visitType = /**\n   * @param {?} visitor\n   * @param {?} context\n   * @return {?}\n   *\n   * function (visitor, context) {\n    return visitor.visitMapType(this, context);\n  };\n  return MapType;\n}(Type$1));\n\nvar DYNAMIC_TYPE = new BuiltInType(BuiltInTypeName.Dynamic);\nvar INFERRED_TYPE = new BuiltInType(BuiltInTypeName.Inferred);\nvar BOOL_TYPE = new BuiltInType(BuiltInTypeName.Bool);\nvar INT_TYPE = new BuiltInType(BuiltInTypeName.Int);\nvar NUMBER_TYPE = new BuiltInType(BuiltInTypeName.Number);\nvar STRING_TYPE = new BuiltInType(BuiltInTypeName.String);\nvar FUNCTION_TYPE = new BuiltInType(BuiltInTypeName.Function);\n\n/**\n * @record\n */\n\n/**\n * @enum\n */\n\nnumber\n\nvar BinaryOperator = {\n  Equals: 0,\n  NotEquals: 1,\n  Identical: 2,\n  NotIdentical: 3,\n  Minus: 4,\n  Plus: 5,\n  Divide: 6,\n  Multiply: 7,\n  Modulo: 8,\n  And: 9,\n  Or: 10,\n  Lower: 11,\n  LowerEquals: 12,\n  Bigger: 13,\n  BiggerEquals: 14,\n};\n\nBinaryOperator[BinaryOperator.Equals] = \"Equals\";\nBinaryOperator[BinaryOperator.NotEquals] = \"NotEquals\";\nBinaryOperator[BinaryOperator.Identical] = \"Identical\";\nBinaryOperator[BinaryOperator.NotIdentical] = \"NotIdentical\";\nBinaryOperator[BinaryOperator.Minus] = \"Minus\";\nBinaryOperator[BinaryOperator.Plus] = \"Plus\";\nBinaryOperator[BinaryOperator.Divide] = \"Divide\";\nBinaryOperator[BinaryOperator.Multiply] = \"Multiply\";\nBinaryOperator[BinaryOperator.Modulo] = \"Modulo\";\nBinaryOperator[BinaryOperator.And] = \"And\";\nBinaryOperator[BinaryOperator.Or] = \"Or\";\nBinaryOperator[BinaryOperator.Lower] = \"Lower\";\nBinaryOperator[BinaryOperator.LowerEquals] = \"LowerEquals\";\nBinaryOperator[BinaryOperator.Bigger] = \"Bigger\";\nBinaryOperator[BinaryOperator.BiggerEquals] = \"BiggerEquals\";\n\n/**\n * @template T\n * @param {?} base\n * @param {?} other\n * @return {?}\n */\n\nfunction nullSafeIsEquivalent(base, other) {\n  if (base == null || other == null) {\n    return base == other;\n  }\n  return base.isEquivalent(other);\n}\n\n/**\n * @template T\n * @param {?} base\n * @param {?} other\n * @return {?}\n */\n\nfunction areAllEquivalent(base, other) {\n  var /** @type {?} */ len = base.length;\n  if (len !== other.length) {\n    return false;\n  }\n  for (var /** @type {?} */ i = 0; i < len; i++) {\n    if (!base[i].isEquivalent(other[i])) {\n      return false;\n    }\n  }\n  return true;\n}\n\n/**\n * @abstract\n */\n\nvar Expression = /** @class */ (function () {\n  function Expression(type, sourceSpan) {\n    this.type = type || null;\n    this.sourceSpan = sourceSpan || null;\n  } \n  /**\n   * @param {?} name\n   * @param {?=} sourceSpan\n   * @return {?}\n   *\n   * Expression.prototype.prop = /**\n   * @param {?} name\n   * @param {?=} sourceSpan\n   * @return {?}\n   *\n   * function (name, sourceSpan) {\n
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return new ReadPropExpr(this, name, null, sourceSpan);\n }; \n /**\n * @param {?} index\n * @param
{?=} type\n * @param {?=} sourceSpan\n * @return {?}\n */\n Expression.prototype.key = /**\n *
@param {?} index\n * @param {?=} type\n * @param {?=} sourceSpan\n * @return {?}\n */\n
function (index, type, sourceSpan) {\n return new ReadKeyExpr(this, index, type, sourceSpan);\n }; \n /**\n
* @param {?} name\n * @param {?} params\n * @param {?=} sourceSpan\n * @return {?}\n */\n
Expression.prototype.callMethod = /**\n * @param {?} name\n * @param {?} params\n * @param {?=}
sourceSpan\n * @return {?}\n */\n function (name, params, sourceSpan) {\n return new
InvokeMethodExpr(this, name, params, null, sourceSpan);\n }; \n /**\n * @param {?} params\n * @param
{?=} sourceSpan\n * @return {?}\n */\n Expression.prototype.callFn = /**\n * @param {?} params\n *
@param {?=} sourceSpan\n * @return {?}\n */\n function (params, sourceSpan) {\n return new
InvokeFunctionExpr(this, params, null, sourceSpan);\n }; \n /**\n * @param {?} params\n * @param {?=}
type\n * @param {?=} sourceSpan\n * @return {?}\n */\n Expression.prototype.instantiate = /**\n *
@param {?} params\n * @param {?=} type\n * @param {?=} sourceSpan\n * @return {?}\n */\n
function (params, type, sourceSpan) {\n return new InstantiateExpr(this, params, type, sourceSpan);\n }; \n
/**\n * @param {?} trueCase\n * @param {?=} falseCase\n * @param {?=} sourceSpan\n * @return
{?}\n */\n Expression.prototype.conditional = /**\n * @param {?} trueCase\n * @param {?=} falseCase\n
* @param {?=} sourceSpan\n * @return {?}\n */\n function (trueCase, falseCase, sourceSpan) {\n if
(falseCase === void 0) { falseCase = null; }\n return new ConditionalExpr(this, trueCase, falseCase, null,
sourceSpan);\n }; \n /**\n * @param {?} rhs\n * @param {?=} sourceSpan\n * @return {?}\n */\n
Expression.prototype.equals = /**\n * @param {?} rhs\n * @param {?=} sourceSpan\n * @return {?}\n
*/\n function (rhs, sourceSpan) {\n return new BinaryOperatorExpr(BinaryOperator.Equals, this, rhs, null,
sourceSpan);\n }; \n /**\n * @param {?} rhs\n * @param {?=} sourceSpan\n * @return {?}\n */\n
Expression.prototype.notEquals = /**\n * @param {?} rhs\n * @param {?=} sourceSpan\n * @return {?}\n
*/\n function (rhs, sourceSpan) {\n return new BinaryOperatorExpr(BinaryOperator.NotEquals, this, rhs, null,
sourceSpan);\n }; \n /**\n * @param {?} rhs\n * @param {?=} sourceSpan\n * @return {?}\n */\n
Expression.prototype.identical = /**\n * @param {?} rhs\n * @param {?=} sourceSpan\n * @return {?}\n
*/\n function (rhs, sourceSpan) {\n return new BinaryOperatorExpr(BinaryOperator.Identical, this, rhs, null,
sourceSpan);\n }; \n /**\n * @param {?} rhs\n * @param {?=} sourceSpan\n * @return {?}\n */\n
Expression.prototype.notIdentical = /**\n * @param {?} rhs\n * @param {?=} sourceSpan\n * @return
{?}\n */\n function (rhs, sourceSpan) {\n return new BinaryOperatorExpr(BinaryOperator.NotIdentical,
this, rhs, null, sourceSpan);\n }; \n /**\n * @param {?} rhs\n * @param {?=} sourceSpan\n * @return
{?}\n */\n Expression.prototype.minus = /**\n * @param {?} rhs\n * @param {?=} sourceSpan\n *
@return {?}\n */\n function (rhs, sourceSpan) {\n return new BinaryOperatorExpr(BinaryOperator.Minus,
this, rhs, null, sourceSpan);\n }; \n /**\n * @param {?} rhs\n * @param {?=} sourceSpan\n * @return
{?}\n */\n Expression.prototype.plus = /**\n * @param {?} rhs\n * @param {?=} sourceSpan\n *
@return {?}\n */\n function (rhs, sourceSpan) {\n return new BinaryOperatorExpr(BinaryOperator.Plus,
this, rhs, null, sourceSpan);\n }; \n /**\n * @param {?} rhs\n * @param {?=} sourceSpan\n * @return
{?}\n */\n Expression.prototype.divide = /**\n * @param {?} rhs\n * @param {?=} sourceSpan\n *
@return {?}\n */\n function (rhs, sourceSpan) {\n return new BinaryOperatorExpr(BinaryOperator.Divide,
this, rhs, null, sourceSpan);\n }; \n /**\n * @param {?} rhs\n * @param {?=} sourceSpan\n * @return
{?}\n */\n Expression.prototype.multiply = /**\n * @param {?} rhs\n * @param {?=} sourceSpan\n *
@return {?}\n */\n function (rhs, sourceSpan) {\n return new
BinaryOperatorExpr(BinaryOperator.Multiply, this, rhs, null, sourceSpan);\n }; \n /**\n * @param {?} rhs\n
* @param {?=} sourceSpan\n * @return {?}\n */\n Expression.prototype.modulo = /**\n * @param {?}
rhs\n * @param {?=} sourceSpan\n * @return {?}\n */\n function (rhs, sourceSpan) {\n return new
BinaryOperatorExpr(BinaryOperator.Modulo, this, rhs, null, sourceSpan);\n }; \n /**\n * @param {?} rhs\n
* @param {?=} sourceSpan\n * @return {?}\n */\n Expression.prototype.and = /**\n * @param {?} rhs\n
* @param {?=} sourceSpan\n * @return {?}\n */\n function (rhs, sourceSpan) {\n return new

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BinaryOperatorExpr(BinaryOperator.And, this, rhs, null, sourceSpan);\n }; \n /**\n * @param {?} rhs\n * @param {?=} sourceSpan\n * @return {?}\n */\n Expression.prototype.or = /**\n * @param {?} rhs\n * @param {?=} sourceSpan\n * @return {?}\n */\n function (rhs, sourceSpan) {\n return new
BinaryOperatorExpr(BinaryOperator.Or, this, rhs, null, sourceSpan);\n }; \n /**\n * @param {?} rhs\n * @param {?=} sourceSpan\n * @return {?}\n */\n Expression.prototype.lower = /**\n * @param {?} rhs\n * @param {?=} sourceSpan\n * @return {?}\n */\n function (rhs, sourceSpan) {\n return new
BinaryOperatorExpr(BinaryOperator.Lower, this, rhs, null, sourceSpan);\n }; \n /**\n * @param {?} rhs\n * @param {?=} sourceSpan\n * @return {?}\n */\n Expression.prototype.lowerEquals = /**\n * @param {?} rhs\n * @param {?=} sourceSpan\n * @return {?}\n */\n function (rhs, sourceSpan) {\n return new
BinaryOperatorExpr(BinaryOperator.LowerEquals, this, rhs, null, sourceSpan);\n }; \n /**\n * @param {?} rhs\n * @param {?=} sourceSpan\n * @return {?}\n */\n Expression.prototype.bigger = /**\n * @param {?} rhs\n * @param {?=} sourceSpan\n * @return {?}\n */\n function (rhs, sourceSpan) {\n return
new BinaryOperatorExpr(BinaryOperator.Bigger, this, rhs, null, sourceSpan);\n }; \n /**\n * @param {?} rhs\n * @param {?=} sourceSpan\n * @return {?}\n */\n Expression.prototype.biggerEquals = /**\n * @param {?} rhs\n * @param {?=} sourceSpan\n * @return {?}\n */\n function (rhs, sourceSpan) {\n
return new BinaryOperatorExpr(BinaryOperator.BiggerEquals, this, rhs, null, sourceSpan);\n }; \n /**\n * @param {?=} sourceSpan\n * @return {?}\n */\n Expression.prototype.isBlank = /**\n * @param {?=} sourceSpan\n * @return {?}\n */\n function (sourceSpan) {\n // Note: We use equals by purpose here to
compare to null and undefined in JS.\n // We use the typed null to allow strictNullChecks to narrow types.\n
return this.equals(TYPED_NULL_EXPR, sourceSpan);\n }; \n /**\n * @param {?} type\n * @param {?=} sourceSpan\n * @return {?}\n */\n Expression.prototype.cast = /**\n * @param {?} type\n * @param {?=} sourceSpan\n * @return {?}\n */\n function (type, sourceSpan) {\n return new CastExpr(this, type,
sourceSpan);\n }; \n /**\n * @return {?}\n */\n Expression.prototype.toStmt = /**\n * @return {?}\n */\n function () {\n return new ExpressionStatement(this, null);\n }; \n return Expression;\n }());\n\n/** @enum
{number} */\nvar BuiltinVar = {\n This: 0,\n Super: 1,\n CatchError: 2,\n CatchStack:
3,\n};\n\nBuiltinVar[BuiltinVar.This] = \"This\";\n\nBuiltinVar[BuiltinVar.Super] =
\"Super\";\n\nBuiltinVar[BuiltinVar.CatchError] = \"CatchError\";\n\nBuiltinVar[BuiltinVar.CatchStack] =
\"CatchStack\";\n\nvar ReadVarExpr = /** @class */ (function (_super) {\n __extends(ReadVarExpr, _super);\n
function ReadVarExpr(name, type, sourceSpan) {\n var _this = _super.call(this, type, sourceSpan) || this;\n
if (typeof name === 'string') {\n _this.name = name;\n _this.builtin = null;\n } else {\n
_this.name = null;\n _this.builtin = /** @type {?} */ (name);\n } return _this;\n } \n\n/**\n * @param {?} e\n * @return {?}\n */\n ReadVarExpr.prototype.isEquivalent = /**\n * @param {?} e\n * @return {?}\n */\n function (e) {\n return e instanceof ReadVarExpr && this.name === e.name &&
this.builtin === e.builtin;\n }; \n\n/**\n * @param {?} visitor\n * @param {?} context\n * @return {?}\n */\n ReadVarExpr.prototype.visitExpression = /**\n * @param {?} visitor\n * @param {?} context\n * @return {?}\n */\n function (visitor, context) {\n return visitor.visitReadVarExpr(this, context);\n }; \n\n/**\n * @param {?} value\n * @return {?}\n */\n ReadVarExpr.prototype.set = /**\n * @param {?} value\n * @return {?}\n */\n function (value) {\n if (!this.name) {\n throw new Error(\"Built in
variable \" + this.builtin + \" can not be assigned to.\");\n } return new WriteVarExpr(this.name, value,
null, this.sourceSpan);\n }; \n\nreturn ReadVarExpr;\n})(Expression);\n\nvar WriteVarExpr = /** @class */
(function (_super) {\n __extends(WriteVarExpr, _super);\n function WriteVarExpr(name, value, type,
sourceSpan) {\n var _this = _super.call(this, type || value.type, sourceSpan) || this;\n _this.name = name;\n
_this.value = value;\n return _this;\n } \n\n/**\n * @param {?} e\n * @return {?}\n */\n
WriteVarExpr.prototype.isEquivalent = /**\n * @param {?} e\n * @return {?}\n */\n function (e) {\n
return e instanceof WriteVarExpr && this.name === e.name && this.value.isEquivalent(e.value);\n }; \n\n/**\n * @param {?} visitor\n * @param {?} context\n * @return {?}\n */\n
WriteVarExpr.prototype.visitExpression = /**\n * @param {?} visitor\n * @param {?} context\n * @return
{?}\n */\n function (visitor, context) {\n return visitor.visitWriteVarExpr(this, context);\n }; \n\n/**\n *

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@param {?=} type\n * @param {?=} modifiers\n * @return {?}\n */\n
WriteVarExpr.prototype.toDeclStmt = /**\n * @param {?=} type\n * @param {?=} modifiers\n * @return {?}\n */\n function (type, modifiers) {\n return new DeclareVarStmt(this.name, this.value, type, modifiers, this.sourceSpan);\n };\n return WriteVarExpr;\n}(Expression));\nvar WriteKeyExpr = /** @class */ (function (_super) {\n __extends(WriteKeyExpr, _super);\n function WriteKeyExpr(receiver, index, value, type, sourceSpan) {\n var _this = _super.call(this, type || value.type, sourceSpan) || this;\n _this.receiver = receiver;\n _this.index = index;\n _this.value = value;\n return _this;\n }\n /**\n * @param {?} e\n * @return {?}\n */\n WriteKeyExpr.prototype.isEquivalent = /**\n * @param {?} e\n * @return {?}\n */\n function (e) {\n return e instanceof WriteKeyExpr && this.receiver.isEquivalent(e.receiver) && this.index.isEquivalent(e.index) && this.value.isEquivalent(e.value);\n };\n /**\n * @param {?} visitor\n * @param {?} context\n * @return {?}\n */\n WriteKeyExpr.prototype.visitExpression = /**\n * @param {?} visitor\n * @param {?} context\n * @return {?}\n */\n function (visitor, context) {\n return visitor.visitWriteKeyExpr(this, context);\n };\n return WriteKeyExpr;\n}(Expression));\nvar WritePropExpr = /** @class */ (function (_super) {\n __extends(WritePropExpr, _super);\n function WritePropExpr(receiver, name, value, type, sourceSpan) {\n var _this = _super.call(this, type || value.type, sourceSpan) || this;\n _this.receiver = receiver;\n _this.name = name;\n _this.value = value;\n return _this;\n }\n /**\n * @param {?} e\n * @return {?}\n */\n WritePropExpr.prototype.isEquivalent = /**\n * @param {?} e\n * @return {?}\n */\n function (e) {\n return e instanceof WritePropExpr && this.receiver.isEquivalent(e.receiver) && this.name === e.name && this.value.isEquivalent(e.value);\n };\n /**\n * @param {?} visitor\n * @param {?} context\n * @return {?}\n */\n WritePropExpr.prototype.visitExpression = /**\n * @param {?} visitor\n * @param {?} context\n * @return {?}\n */\n function (visitor, context) {\n return visitor.visitWritePropExpr(this, context);\n };\n return WritePropExpr;\n}(Expression));\n/** @enum {number} */\nvar BuiltinMethod = {\n ConcatArray: 0,\n SubscribeObservable: 1,\n Bind: 2,\n };\nBuiltinMethod[BuiltinMethod.ConcatArray] = \"ConcatArray\";\nBuiltinMethod[BuiltinMethod.SubscribeObservable] = \"SubscribeObservable\";\nBuiltinMethod[BuiltinMethod.Bind] = \"Bind\";\nvar InvokeMethodExpr = /** @class */ (function (_super) {\n __extends(InvokeMethodExpr, _super);\n function InvokeMethodExpr(receiver, method, args, type, sourceSpan) {\n var _this = _super.call(this, type, sourceSpan) || this;\n _this.receiver = receiver;\n _this.args = args;\n if (typeof method === 'string') {\n _this.name = method;\n _this.builtin = null;\n } else {\n _this.name = null;\n _this.builtin = /** @type {?} */ (method);\n }\n return _this;\n }\n /**\n * @param {?} e\n * @return {?}\n */\n InvokeMethodExpr.prototype.isEquivalent = /**\n * @param {?} e\n * @return {?}\n */\n function (e) {\n return e instanceof InvokeMethodExpr && this.receiver.isEquivalent(e.receiver) && this.name === e.name && this.builtin === e.builtin && areAllEquivalent(this.args, e.args);\n };\n /**\n * @param {?} visitor\n * @param {?} context\n * @return {?}\n */\n InvokeMethodExpr.prototype.visitExpression = /**\n * @param {?} visitor\n * @param {?} context\n * @return {?}\n */\n function (visitor, context) {\n return visitor.visitInvokeMethodExpr(this, context);\n };\n return InvokeMethodExpr;\n}(Expression));\nvar InvokeFunctionExpr = /** @class */ (function (_super) {\n __extends(InvokeFunctionExpr, _super);\n function InvokeFunctionExpr(fn, args, type, sourceSpan) {\n var _this = _super.call(this, type, sourceSpan) || this;\n _this.fn = fn;\n _this.args = args;\n return _this;\n }\n /**\n * @param {?} e\n * @return {?}\n */\n InvokeFunctionExpr.prototype.isEquivalent = /**\n * @param {?} e\n * @return {?}\n */\n function (e) {\n return e instanceof InvokeFunctionExpr && this.fn.isEquivalent(e.fn) && areAllEquivalent(this.args, e.args);\n };\n /**\n * @param {?} visitor\n * @param {?} context\n * @return {?}\n */\n InvokeFunctionExpr.prototype.visitExpression = /**\n * @param {?} visitor\n * @param {?} context\n * @return {?}\n */\n function (visitor, context) {\n return visitor.visitInvokeFunctionExpr(this, context);\n };\n return InvokeFunctionExpr;\n}(Expression));\nvar InstantiateExpr = /** @class */ (function (_super) {\n __extends(InstantiateExpr, _super);\n function InstantiateExpr(classExpr, args, type, sourceSpan) {\n var _this = _super.call(this, type, sourceSpan) || this;\n

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    _this.classExpr = classExpr;\n    _this.args = args;\n    return _this;\n } \n /**\n  * @param {?} e\n  * @return {?}\n  */\n InstantiateExpr.prototype.isEquivalent = /**\n  * @param {?} e\n  * @return {?}\n  */\n function (e) {\n    return e instanceof InstantiateExpr && this.classExpr.isEquivalent(e.classExpr) &&\n    areAllEquivalent(this.args, e.args);\n }; \n /**\n  * @param {?} visitor\n  * @param {?} context\n  * @return {?}\n  */\n InstantiateExpr.prototype.visitExpression = /**\n  * @param {?} visitor\n  * @param\n  {?} context\n  * @return {?}\n  */\n function (visitor, context) {\n    return visitor.visitInstantiateExpr(this,\n    context);\n }; \n return InstantiateExpr;\n})(Expression));\n\nvar LiteralExpr = /** @class */ (function (_super) {\n    __extends(LiteralExpr, _super);\n    function LiteralExpr(value, type, sourceSpan) {\n        var _this =\n        _super.call(this, type, sourceSpan) || this;\n        _this.value = value;\n        return _this;\n    } \n /**\n     * @param\n     {?} e\n     * @return {?}\n     */\n     LiteralExpr.prototype.isEquivalent = /**\n     * @param\n     {?} e\n     * @return\n     {?}\n     */\n     function (e) {\n        return e instanceof LiteralExpr && this.value === e.value;\n     }; \n /**\n     * @param\n     {?} visitor\n     * @param\n     {?} context\n     * @return {?}\n     */\n     LiteralExpr.prototype.visitExpression = /**\n     * @param\n     {?} visitor\n     * @param\n     {?} context\n     * @return {?}\n     */\n     function (visitor, context)\n     {\n        return visitor.visitLiteralExpr(this, context);\n     }; \n return LiteralExpr;\n})(Expression));\n\nvar ExternalExpr = /** @class */ (function (_super) {\n    __extends(ExternalExpr, _super);\n    function\n    ExternalExpr(value, type, typeParams, sourceSpan) {\n        if (typeParams === void 0) { typeParams = null; }\n        var _this = _super.call(this, type, sourceSpan) || this;\n        _this.value = value;\n        _this.typeParams =\n        typeParams;\n        return _this;\n    } \n /**\n     * @param\n     {?} e\n     * @return {?}\n     */\n     ExternalExpr.prototype.isEquivalent = /**\n     * @param\n     {?} e\n     * @return {?}\n     */\n     function (e) {\n        return e instanceof ExternalExpr && this.value.name === e.value.name &&\n        this.value.moduleName ===\n        e.value.moduleName && this.value.runtime === e.value.runtime;\n     }; \n /**\n     * @param\n     {?} visitor\n     * @param\n     {?} context\n     * @return {?}\n     */\n     ExternalExpr.prototype.visitExpression = /**\n     * @param\n     {?} visitor\n     * @param\n     {?} context\n     * @return {?}\n     */\n     function (visitor, context) {\n        return\n        visitor.visitExternalExpr(this, context);\n     }; \n return ExternalExpr;\n})(Expression));\n\nvar ExternalReference =\n/** @class */ (function () {\n    function ExternalReference(moduleName, name, runtime) {\n        this.moduleName\n        = moduleName;\n        this.name = name;\n        this.runtime = runtime;\n    } \n return\n    ExternalReference;\n})();\n\nvar ConditionalExpr = /** @class */ (function (_super) {\n    __extends(ConditionalExpr, _super);\n    function\n    ConditionalExpr(condition, trueCase, falseCase, type,\n    sourceSpan) {\n        if (falseCase === void 0) { falseCase = null; }\n        var _this = _super.call(this, type ||\n        trueCase.type, sourceSpan) || this;\n        _this.condition = condition;\n        _this.falseCase = falseCase;\n        _this.trueCase = trueCase;\n        return _this;\n    } \n /**\n     * @param\n     {?} e\n     * @return {?}\n     */\n     ConditionalExpr.prototype.isEquivalent = /**\n     * @param\n     {?} e\n     * @return {?}\n     */\n     function (e) {\n        return e instanceof ConditionalExpr && this.condition.isEquivalent(e.condition) &&\n        this.trueCase.isEquivalent(e.trueCase) && nullSafeIsEquivalent(this.falseCase, e.falseCase);\n     }; \n /**\n     * @param\n     {?} visitor\n     * @param\n     {?} context\n     * @return {?}\n     */\n     ConditionalExpr.prototype.visitExpression = /**\n     * @param\n     {?} visitor\n     * @param\n     {?} context\n     * @return {?}\n     */\n     function (visitor, context) {\n        return visitor.visitConditionalExpr(this, context);\n     }; \n return\n    ConditionalExpr;\n})(Expression));\n\nvar NotExpr = /** @class */ (function (_super) {\n    __extends(NotExpr, _super);\n    function\n    NotExpr(condition, sourceSpan) {\n        var _this = _super.call(this,\n        BOOL_TYPE, sourceSpan) || this;\n        _this.condition = condition;\n        return _this;\n    } \n /**\n     * @param\n     {?} e\n     * @return {?}\n     */\n     NotExpr.prototype.isEquivalent = /**\n     * @param\n     {?} e\n     * @return\n     {?}\n     */\n     function (e) {\n        return e instanceof NotExpr &&\n        this.condition.isEquivalent(e.condition);\n     }; \n /**\n     * @param\n     {?} visitor\n     * @param\n     {?} context\n     * @return\n     {?}\n     */\n     NotExpr.prototype.visitExpression = /**\n     * @param\n     {?} visitor\n     * @param\n     {?} context\n     * @return\n     {?}\n     */\n     function (visitor, context) {\n        return visitor.visitNotExpr(this, context);\n     }; \n return\n    NotExpr;\n})(Expression));\n\nvar AssertNotNull = /** @class */ (function (_super) {\n    __extends(AssertNotNull, _super);\n    function\n    AssertNotNull(condition, sourceSpan) {\n        var _this =\n        _super.call(this, condition.type, sourceSpan) || this;\n        _this.condition = condition;\n        return _this;\n    } \n}

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/**\n * @param {?} e\n * @return {?}\n *\n AssertNotNull.prototype.isEquivalent = /**\n * @param
{?} e\n * @return {?}\n *\n function (e) {\n return e instanceof AssertNotNull &&
this.condition.isEquivalent(e.condition);\n }; \n /**\n * @param {?} visitor\n * @param {?} context\n *
@return {?}\n *\n AssertNotNull.prototype.visitExpression = /**\n * @param {?} visitor\n * @param {?}
context\n * @return {?}\n *\n function (visitor, context) {\n return visitor.visitAssertNotNullExpr(this,
context);\n }; \n return AssertNotNull;\n}(Expression));\nvar CastExpr = /** @class */ (function (_super) {\n
__extends(CastExpr, _super);\n function CastExpr(value, type, sourceSpan) {\n var _this = _super.call(this,
type, sourceSpan) || this;\n _this.value = value;\n return _this;\n }\n /**\n * @param {?} e\n *
@return {?}\n *\n CastExpr.prototype.isEquivalent = /**\n * @param {?} e\n * @return {?}\n *\n
function (e) {\n return e instanceof CastExpr && this.value.isEquivalent(e.value);\n }; \n /**\n * @param
{?} visitor\n * @param {?} context\n * @return {?}\n *\n CastExpr.prototype.visitExpression = /**\n *
@param {?} visitor\n * @param {?} context\n * @return {?}\n *\n function (visitor, context) {\n
return visitor.visitCastExpr(this, context);\n }; \n return CastExpr;\n}(Expression));\nvar FnParam = /** @class
*/ (function () {\n function FnParam(name, type) {\n if (type === void 0) { type = null; }\n this.name =
name;\n this.type = type;\n }\n /**\n * @param {?} param\n * @return {?}\n *\n
FnParam.prototype.isEquivalent = /**\n * @param {?} param\n * @return {?}\n *\n function (param) {\n
return this.name === param.name; }\n return FnParam;\n}());\nvar FunctionExpr = /** @class */ (function
(_super) {\n __extends(FunctionExpr, _super);\n function FunctionExpr(params, statements, type, sourceSpan)
{\n var _this = _super.call(this, type, sourceSpan) || this;\n _this.params = params;\n _this.statements =
statements;\n return _this;\n }\n /**\n * @param {?} e\n * @return {?}\n *\n
FunctionExpr.prototype.isEquivalent = /**\n * @param {?} e\n * @return {?}\n *\n function (e) {\n
return e instanceof FunctionExpr && areAllEquivalent(this.params, e.params) &&\n
areAllEquivalent(this.statements, e.statements);\n }; \n /**\n * @param {?} visitor\n * @param {?}
context\n * @return {?}\n *\n FunctionExpr.prototype.visitExpression = /**\n * @param {?} visitor\n *
@param {?} context\n * @return {?}\n *\n function (visitor, context) {\n return
visitor.visitFunctionExpr(this, context);\n }; \n /**\n * @param {?} name\n * @param {?=} modifiers\n *
@return {?}\n *\n FunctionExpr.prototype.toDeclStmt = /**\n * @param {?} name\n * @param {?=}
modifiers\n * @return {?}\n *\n function (name, modifiers) {\n if (modifiers === void 0) { modifiers =
null; }\n return new DeclareFunctionStmt(name, this.params, this.statements, this.type, modifiers,
this.sourceSpan);\n }; \n return FunctionExpr;\n}(Expression));\nvar BinaryOperatorExpr = /** @class */
(function (_super) {\n __extends(BinaryOperatorExpr, _super);\n function BinaryOperatorExpr(operator, lhs,
rhs, type, sourceSpan) {\n var _this = _super.call(this, type || lhs.type, sourceSpan) || this;\n _this.operator =
operator;\n _this.rhs = rhs;\n _this.lhs = lhs;\n return _this;\n }\n /**\n * @param {?} e\n *
@return {?}\n *\n BinaryOperatorExpr.prototype.isEquivalent = /**\n * @param {?} e\n * @return {?}\n
*\n function (e) {\n return e instanceof BinaryOperatorExpr && this.operator === e.operator &&\n
this.lhs.isEquivalent(e.lhs) && this.rhs.isEquivalent(e.rhs);\n }; \n /**\n * @param {?} visitor\n * @param
{?} context\n * @return {?}\n *\n BinaryOperatorExpr.prototype.visitExpression = /**\n * @param {?}
visitor\n * @param {?} context\n * @return {?}\n *\n function (visitor, context) {\n return
visitor.visitBinaryOperatorExpr(this, context);\n }; \n return BinaryOperatorExpr;\n}(Expression));\nvar
ReadPropExpr = /** @class */ (function (_super) {\n __extends(ReadPropExpr, _super);\n function
ReadPropExpr(receiver, name, type, sourceSpan) {\n var _this = _super.call(this, type, sourceSpan) || this;\n
_this.receiver = receiver;\n _this.name = name;\n return _this;\n }\n /**\n * @param {?} e\n *
@return {?}\n *\n ReadPropExpr.prototype.isEquivalent = /**\n * @param {?} e\n * @return {?}\n
*\n function (e) {\n return e instanceof ReadPropExpr && this.receiver.isEquivalent(e.receiver) &&\n
this.name === e.name;\n }; \n /**\n * @param {?} visitor\n * @param {?} context\n * @return {?}\n
*\n ReadPropExpr.prototype.visitExpression = /**\n * @param {?} visitor\n * @param {?} context\n *
@return {?}\n *\n function (visitor, context) {\n return visitor.visitReadPropExpr(this, context);\n }; \n
return ReadPropExpr;\n}(Expression));\nvar ReadPropExpr.prototype.set = /**\n * @param {?}

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value\n * @return {?}\n */\n function (value) {\n   return new WritePropExpr(this.receiver, this.name,\n   value, null, this.sourceSpan);\n };\n return ReadPropExpr;\n}(Expression));\n\nvar ReadKeyExpr = /** @class */\n(function (_super) {\n  __extends(ReadKeyExpr, _super);\n  function ReadKeyExpr(receiver, index, type,\n  sourceSpan) {\n    var _this = _super.call(this, type, sourceSpan) || this;\n    _this.receiver = receiver;\n    _this.index = index;\n    return _this;\n  }\n  /**\n   * @param {?} e\n   * @return {?}\n   */\n  ReadKeyExpr.prototype.isEquivalent = /**\n   * @param {?} e\n   * @return {?}\n   */\n  function (e) {\n    return e instanceof ReadKeyExpr && this.receiver.isEquivalent(e.receiver) &&\n    this.index.isEquivalent(e.index);\n  };\n  /**\n   * @param {?} visitor\n   * @param {?} context\n   * @return {?}\n   */\n  ReadKeyExpr.prototype.visitExpression = /**\n   * @param {?} visitor\n   * @param {?}\n   * @return {?}\n   */\n  function (visitor, context) {\n    return visitor.visitReadKeyExpr(this,\n    context);\n  };\n  /**\n   * @param {?} value\n   * @return {?}\n   */\n  ReadKeyExpr.prototype.set = /**\n   * @param {?} value\n   * @return {?}\n   */\n  function (value) {\n    return new WriteKeyExpr(this.receiver,\n    this.index, value, null, this.sourceSpan);\n  };\n  return ReadKeyExpr;\n}(Expression));\n\nvar LiteralArrayExpr =\n/** @class */ (function (_super) {\n  __extends(LiteralArrayExpr, _super);\n  function LiteralArrayExpr(entries,\n  type, sourceSpan) {\n    var _this = _super.call(this, type, sourceSpan) || this;\n    _this.entries = entries;\n    return _this;\n  }\n  /**\n   * @param {?} e\n   * @return {?}\n   */\n  LiteralArrayExpr.prototype.isEquivalent = /**\n   * @param {?} e\n   * @return {?}\n   */\n  function (e) {\n    return e instanceof LiteralArrayExpr && areAllEquivalent(this.entries, e.entries);\n  };\n  /**\n   * @param {?}\n   * @param {?} context\n   * @return {?}\n   */\n  LiteralArrayExpr.prototype.visitExpression = /**\n   * @param {?} visitor\n   * @param {?} context\n   * @return {?}\n   */\n  function (visitor, context) {\n    return visitor.visitLiteralArrayExpr(this, context);\n  };\n  return LiteralArrayExpr;\n}(Expression));\n\nvar\nLiteralMapEntry = /** @class */ (function () {\n  function LiteralMapEntry(key, value, quoted) {\n    this.key =\nkey;\n    this.value = value;\n    this.quoted = quoted;\n  }\n  /**\n   * @param {?} e\n   * @return {?}\n   */\n  LiteralMapEntry.prototype.isEquivalent = /**\n   * @param {?} e\n   * @return {?}\n   */\n  function (e)\n{\n  return this.key === e.key && this.value.isEquivalent(e.value);\n };\n  return\nLiteralMapEntry;\n})();\n\nvar LiteralMapExpr = /** @class */ (function (_super) {\n  __extends(LiteralMapExpr,\n  _super);\n  function LiteralMapExpr(entries, type, sourceSpan) {\n    var _this = _super.call(this, type,\n    sourceSpan) || this;\n    _this.entries = entries;\n    _this.valueType = null;\n    if (type) {\n      _this.valueType = type.valueType;\n    }\n    return _this;\n  }\n  /**\n   * @param {?} e\n   * @return\n{?}\n   */\n  LiteralMapExpr.prototype.isEquivalent = /**\n   * @param {?} e\n   * @return {?}\n   */\n  function (e) {\n    return e instanceof LiteralMapExpr && areAllEquivalent(this.entries, e.entries);\n  };\n  /**\n   * @param {?}\n   * @param {?} visitor\n   * @param {?} context\n   * @return {?}\n   */\n  LiteralMapExpr.prototype.visitExpression = /**\n   * @param {?} visitor\n   * @param {?} context\n   * @return {?}\n   */\n  function (visitor, context) {\n    return visitor.visitLiteralMapExpr(this, context);\n  };\n  return LiteralMapExpr;\n}(Expression));\n\nvar CommaExpr = /** @class */ (function (_super) {\n  __extends(CommaExpr,\n  _super);\n  function CommaExpr(parts, sourceSpan) {\n    var _this = _super.call(this,\n    parts[parts.length - 1].type, sourceSpan) || this;\n    _this.parts = parts;\n    return _this;\n  }\n  /**\n   * @param {?} e\n   * @return {?}\n   */\n  CommaExpr.prototype.isEquivalent = /**\n   * @param {?} e\n   * @return {?}\n   */\n  function (e) {\n    return e instanceof CommaExpr && areAllEquivalent(this.parts,\n    e.parts);\n  };\n  /**\n   * @param {?}\n   * @param {?} visitor\n   * @param {?} context\n   * @return {?}\n   */\n  CommaExpr.prototype.visitExpression = /**\n   * @param {?} visitor\n   * @param {?} context\n   * @return\n{?}\n   */\n  function (visitor, context) {\n    return visitor.visitCommaExpr(this, context);\n  };\n  return\nCommaExpr;\n}(Expression));\n\nTHIS_EXPR = new ReadVarExpr(BuiltinVar.This,\nnull, null);\nSUPER_EXPR = new ReadVarExpr(BuiltinVar.Super, null, null);\nCATCH_ERROR_VAR =\nnew ReadVarExpr(BuiltinVar.CatchError, null, null);\nCATCH_STACK_VAR =\nnew\nReadVarExpr(BuiltinVar.CatchStack, null, null);\nNULL_EXPR = new LiteralExpr(null, null, null);\nTYPED_NULL_EXPR =\nnew LiteralExpr(null, INFERRED_TYPE, null);\n\n/** @enum {number} */\nvar StmtModifier = {\n  Final: 0,\n  Private: 1,\n  Exported: 2,\n};\n\nStmtModifier[StmtModifier.Final] =

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"Final";\nStmtModifier[StmtModifier.Private] = "Private";\nStmtModifier[StmtModifier.Exported] =
"Exported";\n/**\n * @abstract\n * ^\nvar Statement = /** @class */ (function () {\n  function
Statement(modifiers, sourceSpan) {\n    this.modifiers = modifiers || [];\n    this.sourceSpan = sourceSpan ||
null;\n  }\n  /**\n   * @param {?} modifier\n   * @return {?}\n   * ^\n  Statement.prototype.hasModifier =
/**\n   * @param {?} modifier\n   * @return {?}\n   * ^\n  function (modifier) { return /** @type {?} */
((this.modifiers)).indexOf(modifier) !== -1; };\n  return Statement;\n})();\nvar DeclareVarStmt = /** @class */
(function (_super) {\n  __extends(DeclareVarStmt, _super);\n  function DeclareVarStmt(name, value, type,
modifiers, sourceSpan) {\n    if (modifiers === void 0) { modifiers = null; }\n    var _this = _super.call(this,
modifiers, sourceSpan) || this;\n    _this.name = name;\n    _this.value = value;\n    _this.type = type ||
value.type;\n    return _this;\n  }\n  /**\n   * @param {?} stmt\n   * @return {?}\n   * ^\n  DeclareVarStmt.prototype.isEquivalent = /**\n   * @param {?} stmt\n   * @return {?}\n   * ^\n  function (stmt)
{\n    return stmt instanceof DeclareVarStmt && this.name === stmt.name &&\n
this.value.isEquivalent(stmt.value);\n  };\n  /**\n   * @param {?} visitor\n   * @param {?} context\n   *
@return {?}\n   * ^\n  DeclareVarStmt.prototype.visitStatement = /**\n   * @param {?} visitor\n   * @param
{?} context\n   * @return {?}\n   * ^\n  function (visitor, context) {\n    return visitor.visitDeclareVarStmt(this,
context);\n  };\n  return DeclareVarStmt;\n})(Statement);\nvar DeclareFunctionStmt = /** @class */ (function
(_super) {\n  __extends(DeclareFunctionStmt, _super);\n  function DeclareFunctionStmt(name, params,
statements, type, modifiers, sourceSpan) {\n    if (modifiers === void 0) { modifiers = null; }\n    var _this =
_super.call(this, modifiers, sourceSpan) || this;\n    _this.name = name;\n    _this.params = params;\n
_this.statements = statements;\n    _this.type = type || null;\n    return _this;\n  }\n  /**\n   * @param {?}
stmt\n   * @return {?}\n   * ^\n  DeclareFunctionStmt.prototype.isEquivalent = /**\n   * @param {?} stmt\n   *
@return {?}\n   * ^\n  function (stmt) {\n    return stmt instanceof DeclareFunctionStmt &&
areAllEquivalent(this.params, stmt.params) &&\n    areAllEquivalent(this.statements, stmt.statements);\n  };\n
/**\n   * @param {?} visitor\n   * @param {?} context\n   * @return {?}\n   * ^\n  DeclareFunctionStmt.prototype.visitStatement = /**\n   * @param {?} visitor\n   * @param {?} context\n   *
@return {?}\n   * ^\n  function (visitor, context) {\n    return visitor.visitDeclareFunctionStmt(this, context);\n
};\n  return DeclareFunctionStmt;\n})(Statement);\nvar ExpressionStatement = /** @class */ (function (_super) {\n
__extends(ExpressionStatement, _super);\n  function ExpressionStatement(expr, sourceSpan) {\n    var _this =
_super.call(this, null, sourceSpan) || this;\n    _this.expr = expr;\n    return _this;\n  }\n  /**\n   * @param
{?} stmt\n   * @return {?}\n   * ^\n  ExpressionStatement.prototype.isEquivalent = /**\n   * @param {?} stmt\n
   * @return {?}\n   * ^\n  function (stmt) {\n    return stmt instanceof ExpressionStatement &&
this.expr.isEquivalent(stmt.expr);\n  };\n  /**\n   * @param {?} visitor\n   * @param {?} context\n   * @return
{?}\n   * ^\n  ExpressionStatement.prototype.visitStatement = /**\n   * @param {?} visitor\n   * @param {?}
context\n   * @return {?}\n   * ^\n  function (visitor, context) {\n    return visitor.visitExpressionStmt(this,
context);\n  };\n  return ExpressionStatement;\n})(Statement);\nvar ReturnStatement = /** @class */ (function
(_super) {\n  __extends(ReturnStatement, _super);\n  function ReturnStatement(value, sourceSpan) {\n    var
_this = _super.call(this, null, sourceSpan) || this;\n    _this.value = value;\n    return _this;\n  }\n  /**\n   *
@param {?} stmt\n   * @return {?}\n   * ^\n  ReturnStatement.prototype.isEquivalent = /**\n   * @param {?}
stmt\n   * @return {?}\n   * ^\n  function (stmt) {\n    return stmt instanceof ReturnStatement &&
this.value.isEquivalent(stmt.value);\n  };\n  /**\n   * @param {?} visitor\n   * @param {?} context\n   *
@return {?}\n   * ^\n  ReturnStatement.prototype.visitStatement = /**\n   * @param {?} visitor\n   * @param
{?} context\n   * @return {?}\n   * ^\n  function (visitor, context) {\n    return visitor.visitReturnStmt(this,
context);\n  };\n  return ReturnStatement;\n})(Statement);\nvar AbstractClassPart = /** @class */ (function () {\n
function AbstractClassPart(type, modifiers) {\n    this.modifiers = modifiers;\n    if (!modifiers) {\n      this.modifiers = [];\n    }\n    this.type = type || null;\n  }\n  /**\n   * @param {?} modifier\n   * @return
{?}\n   * ^\n  AbstractClassPart.prototype.hasModifier = /**\n   * @param {?} modifier\n   * @return {?}\n   * ^\n
function (modifier) { return /** @type {?} */ ((this.modifiers)).indexOf(modifier) !== -1; };\n  return
AbstractClassPart;\n})();\nvar ClassField = /** @class */ (function (_super) {\n  __extends(ClassField, _super);\n

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function ClassField(name, type, modifiers) {\n    if (modifiers === void 0) { modifiers = null; }\n    var _this =
_super.call(this, type, modifiers) || this;\n    _this.name = name;\n    return _this;\n } \n /**\n  * @param
{?} f\n  * @return {?}\n  */\n  ClassField.prototype.isEquivalent = /**\n  * @param {?} f\n  * @return
{?}\n  */\n  function (f) { return this.name === f.name; }\n  return ClassField;\n}(AbstractClassPart));\nvar
ClassMethod = /** @class */ (function (_super) {\n    __extends(ClassMethod, _super);\n    function
ClassMethod(name, params, body, type, modifiers) {\n        if (modifiers === void 0) { modifiers = null; }\n        var
_this = _super.call(this, type, modifiers) || this;\n        _this.name = name;\n        _this.params = params;\n
_this.body = body;\n        return _this;\n    }\n    /**\n     * @param {?} m\n     * @return {?}\n     */\n
    ClassMethod.prototype.isEquivalent = /**\n     * @param {?} m\n     * @return {?}\n     */\n     function (m) {\n
return this.name === m.name && areAllEquivalent(this.body, m.body);\n    };\n    return
ClassMethod;\n}(AbstractClassPart));\nvar ClassGetter = /** @class */ (function (_super) {\n
__extends(ClassGetter, _super);\n    function ClassGetter(name, body, type, modifiers) {\n        if (modifiers ===
void 0) { modifiers = null; }\n        var _this = _super.call(this, type, modifiers) || this;\n        _this.name = name;\n
_this.body = body;\n        return _this;\n    }\n    /**\n     * @param {?} m\n     * @return {?}\n     */\n
    ClassGetter.prototype.isEquivalent = /**\n     * @param {?} m\n     * @return {?}\n     */\n     function (m) {\n
return this.name === m.name && areAllEquivalent(this.body, m.body);\n    };\n    return
ClassGetter;\n}(AbstractClassPart));\nvar ClassStmt = /** @class */ (function (_super) {\n    __extends(ClassStmt,
_super);\n    function ClassStmt(name, parent, fields, getters, constructorMethod, methods, modifiers, sourceSpan)
{\n        if (modifiers === void 0) { modifiers = null; }\n        var _this = _super.call(this, modifiers, sourceSpan) ||
this;\n        _this.name = name;\n        _this.parent = parent;\n        _this.fields = fields;\n        _this.getters =
getters;\n        _this.constructorMethod = constructorMethod;\n        _this.methods = methods;\n        return _this;\n
    }\n    /**\n     * @param {?} stmt\n     * @return {?}\n     */\n     ClassStmt.prototype.isEquivalent = /**\n     *
@param {?} stmt\n     * @return {?}\n     */\n     function (stmt) {\n        return stmt instanceof ClassStmt &&
this.name === stmt.name &&\n        nullSafeIsEquivalent(this.parent, stmt.parent) &&\n
        areAllEquivalent(this.fields, stmt.fields) &&\n        areAllEquivalent(this.getters, stmt.getters) &&\n
        this.constructorMethod.isEquivalent(stmt.constructorMethod) &&\n        areAllEquivalent(this.methods,
stmt.methods);\n    };\n    /**\n     * @param {?} visitor\n     * @param {?} context\n     * @return {?}\n     */\n
    ClassStmt.prototype.visitStatement = /**\n     * @param {?} visitor\n     * @param {?} context\n     * @return {?}\n
     */\n     function (visitor, context) {\n        return visitor.visitDeclareClassStmt(this, context);\n    };\n    return
ClassStmt;\n}(Statement));\nvar IfStmt = /** @class */ (function (_super) {\n    __extends(IfStmt, _super);\n    function
IfStmt(condition, trueCase, falseCase, sourceSpan) {\n        if (falseCase === void 0) { falseCase = []; }\n        var
_this = _super.call(this, null, sourceSpan) || this;\n        _this.condition = condition;\n        _this.trueCase =
trueCase;\n        _this.falseCase = falseCase;\n        return _this;\n    }\n    /**\n     * @param {?} stmt\n     * @return
{?}\n     */\n     IfStmt.prototype.isEquivalent = /**\n     * @param {?} stmt\n     * @return {?}\n     */\n     function
(stmt) {\n        return stmt instanceof IfStmt && this.condition.isEquivalent(stmt.condition) &&\n
        areAllEquivalent(this.trueCase, stmt.trueCase) &&\n        areAllEquivalent(this.falseCase, stmt.falseCase);\n
    };\n    /**\n     * @param {?} visitor\n     * @param {?} context\n     * @return {?}\n     */\n
    IfStmt.prototype.visitStatement = /**\n     * @param {?} visitor\n     * @param {?} context\n     * @return {?}\n
     */\n     function (visitor, context) {\n        return visitor.visitIfStmt(this, context);\n    };\n    return
IfStmt;\n}(Statement));\nvar CommentStmt = /** @class */ (function (_super) {\n    __extends(CommentStmt,
_super);\n    function CommentStmt(comment, sourceSpan) {\n        var _this = _super.call(this, null, sourceSpan) ||
this;\n        _this.comment = comment;\n        return _this;\n    }\n    /**\n     * @param {?} stmt\n     * @return
{?}\n     */\n     CommentStmt.prototype.isEquivalent = /**\n     * @param {?} stmt\n     * @return {?}\n     */\n     function
(stmt) {\n        return stmt instanceof CommentStmt;\n    };\n    /**\n     * @param {?} visitor\n     * @param {?} context\n
     * @return {?}\n     */\n     CommentStmt.prototype.visitStatement = /**\n     * @param {?} visitor\n     * @param {?}
context\n     * @return {?}\n     */\n     function (visitor, context) {\n        return visitor.visitCommentStmt(this,
context);\n    };\n    return CommentStmt;\n}(Statement));\nvar TryCatchStmt = /** @class */ (function (_super) {\n
__extends(TryCatchStmt, _super);\n    function TryCatchStmt(bodyStmts, catchStmts, sourceSpan) {\n        var

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CommaExpr(this.visitAllExpressions(ast.parts, context), ast.sourceSpan), context);\n
};\n
/**\n
 * @param {?}
exprs\n
 * @param {?} context\n
 * @return {?}\n
 *^\n
AstTransformer.prototype.visitAllExpressions =
/**\n
 * @param {?} exprs\n
 * @param {?} context\n
 * @return {?}\n
 *^\n
function (exprs, context) {\n
    var _this = this;\n
    return exprs.map(function (expr) { return expr.visitExpression(_this, context); });\n
};\n
/**\n
 * @param {?} stmt\n
 * @param {?} context\n
 * @return {?}\n
 *^\n
AstTransformer.prototype.visitDeclareVarStmt = /**\n
 * @param {?} stmt\n
 * @param {?} context\n
 * @return {?}\n
 *^\n
function (stmt, context) {\n
    return this.transformStmt(new DeclareVarStmt(stmt.name,
stmt.value.visitExpression(this, context), stmt.type, stmt.modifiers, stmt.sourceSpan), context);\n
};\n
/**\n
 *
@param {?} stmt\n
 * @param {?} context\n
 * @return {?}\n
 *^\n
AstTransformer.prototype.visitDeclareFunctionStmt = /**\n
 * @param {?} stmt\n
 * @param {?} context\n
 * @return {?}\n
 *^\n
function (stmt, context) {\n
    return this.transformStmt(new
DeclareFunctionStmt(stmt.name, stmt.params, this.visitAllStatements(stmt.statements, context), stmt.type,
stmt.modifiers, stmt.sourceSpan), context);\n
};\n
/**\n
 * @param {?} stmt\n
 * @param {?} context\n
 * @return {?}\n
 *^\n
AstTransformer.prototype.visitExpressionStmt = /**\n
 * @param {?} stmt\n
 * @param
{?} context\n
 * @return {?}\n
 *^\n
function (stmt, context) {\n
    return this.transformStmt(new
ExpressionStatement(stmt.expr.visitExpression(this, context), stmt.sourceSpan), context);\n
};\n
/**\n
 *
@param {?} stmt\n
 * @param {?} context\n
 * @return {?}\n
 *^\n
AstTransformer.prototype.visitReturnStmt = /**\n
 * @param {?} stmt\n
 * @param {?} context\n
 * @return
{?}\n
 *^\n
function (stmt, context) {\n
    return this.transformStmt(new
ReturnStatement(stmt.value.visitExpression(this, context), stmt.sourceSpan), context);\n
};\n
/**\n
 * @param
{?} stmt\n
 * @param {?} context\n
 * @return {?}\n
 *^\n
AstTransformer.prototype.visitDeclareClassStmt
= /**\n
 * @param {?} stmt\n
 * @param {?} context\n
 * @return {?}\n
 *^\n
function (stmt, context) {\n
    var _this = this;\n
    var /** @type {?} */ parent = /** @type {?} */ ((stmt.parent)).visitExpression(this,
context);\n
    var /** @type {?} */ getters = stmt.getters.map(function (getter) {\n
        return new
ClassGetter(getter.name, _this.visitAllStatements(getter.body, context), getter.type, getter.modifiers);\n
    });\n
    var /** @type {?} */ ctorMethod = stmt.constructorMethod &&\n
        new
ClassMethod(stmt.constructorMethod.name, stmt.constructorMethod.params,
this.visitAllStatements(stmt.constructorMethod.body, context), stmt.constructorMethod.type,
stmt.constructorMethod.modifiers);\n
    var /** @type {?} */ methods = stmt.methods.map(function (method) {\n
        return new
ClassMethod(method.name, method.params, _this.visitAllStatements(method.body, context),
method.type, method.modifiers);\n
    });\n
    return this.transformStmt(new ClassStmt(stmt.name, parent,
stmt.fields, getters, ctorMethod, methods, stmt.modifiers, stmt.sourceSpan), context);\n
};\n
/**\n
 * @param
{?} stmt\n
 * @param {?} context\n
 * @return {?}\n
 *^\n
AstTransformer.prototype.visitIfStmt = /**\n
 *
@param {?} stmt\n
 * @param {?} context\n
 * @return {?}\n
 *^\n
function (stmt, context) {\n
    return
this.transformStmt(new IfStmt(stmt.condition.visitExpression(this, context), this.visitAllStatements(stmt.trueCase,
context), this.visitAllStatements(stmt.falseCase, context), stmt.sourceSpan), context);\n
};\n
/**\n
 * @param
{?} stmt\n
 * @param {?} context\n
 * @return {?}\n
 *^\n
AstTransformer.prototype.visitTryCatchStmt =
/**\n
 * @param {?} stmt\n
 * @param {?} context\n
 * @return {?}\n
 *^\n
function (stmt, context) {\n
    return this.transformStmt(new TryCatchStmt(this.visitAllStatements(stmt.bodyStmts, context),
this.visitAllStatements(stmt.catchStmts, context), stmt.sourceSpan), context);\n
};\n
/**\n
 * @param {?}
stmt\n
 * @param {?} context\n
 * @return {?}\n
 *^\n
AstTransformer.prototype.visitThrowStmt = /**\n
 *
@param {?} stmt\n
 * @param {?} context\n
 * @return {?}\n
 *^\n
function (stmt, context) {\n
    return
this.transformStmt(new ThrowStmt(stmt.error.visitExpression(this, context), stmt.sourceSpan), context);\n
};\n
/**\n
 * @param {?} stmt\n
 * @param {?} context\n
 * @return {?}\n
 *^\n
AstTransformer.prototype.visitCommentStmt = /**\n
 * @param {?} stmt\n
 * @param {?} context\n
 *
@return {?}\n
 *^\n
function (stmt, context) {\n
    return this.transformStmt(stmt, context);\n
};\n
/**\n
 *
@param {?} stmts\n
 * @param {?} context\n
 * @return {?}\n
 *^\n
AstTransformer.prototype.visitAllStatements = /**\n
 * @param {?} stmts\n
 * @param {?} context\n
 *

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RecursiveAstVisitor.prototype.visitExternalExpr = /**\n * @param {?} ast\n * @param {?} context\n * @return {?}\n */\n function (ast, context) {\n var _this = this;\n if (ast.typeParams) {\n ast.typeParams.forEach(function (type) { return type.visitType(_this, context); });\n }\n return this.visitExpression(ast, context);\n };\n /**\n * @param {?} ast\n * @param {?} context\n * @return {?}\n */\n RecursiveAstVisitor.prototype.visitConditionalExpr = /**\n * @param {?} ast\n * @param {?} context\n * @return {?}\n */\n function (ast, context) {\n ast.condition.visitExpression(this, context);\n ast.trueCase.visitExpression(this, context); /** @type {?} */\n ((ast.falseCase)).visitExpression(this, context);\n return this.visitExpression(ast, context);\n };\n /**\n * @param {?} ast\n * @param {?} context\n * @return {?}\n */\n RecursiveAstVisitor.prototype.visitNotExpr = /**\n * @param {?} ast\n * @param {?} context\n * @return {?}\n */\n function (ast, context) {\n ast.condition.visitExpression(this, context);\n return this.visitExpression(ast, context);\n };\n /**\n * @param {?} ast\n * @param {?} context\n * @return {?}\n */\n RecursiveAstVisitor.prototype.visitAssertNotNullExpr = /**\n * @param {?} ast\n * @param {?} context\n * @return {?}\n */\n function (ast, context) {\n ast.condition.visitExpression(this, context);\n return this.visitExpression(ast, context);\n };\n /**\n * @param {?} ast\n * @param {?} context\n * @return {?}\n */\n RecursiveAstVisitor.prototype.visitCastExpr = /**\n * @param {?} ast\n * @param {?} context\n * @return {?}\n */\n function (ast, context) {\n ast.value.visitExpression(this, context);\n return this.visitExpression(ast, context);\n };\n /**\n * @param {?} ast\n * @param {?} context\n * @return {?}\n */\n RecursiveAstVisitor.prototype.visitFunctionExpr = /**\n * @param {?} ast\n * @param {?} context\n * @return {?}\n */\n function (ast, context) {\n this.visitAllStatements(ast.statements, context);\n return this.visitExpression(ast, context);\n };\n /**\n * @param {?} ast\n * @param {?} context\n * @return {?}\n */\n RecursiveAstVisitor.prototype.visitBinaryOperatorExpr = /**\n * @param {?} ast\n * @param {?} context\n * @return {?}\n */\n function (ast, context) {\n ast.lhs.visitExpression(this, context);\n ast.rhs.visitExpression(this, context);\n return this.visitExpression(ast, context);\n };\n /**\n * @param {?} ast\n * @param {?} context\n * @return {?}\n */\n RecursiveAstVisitor.prototype.visitReadPropExpr = /**\n * @param {?} ast\n * @param {?} context\n * @return {?}\n */\n function (ast, context) {\n ast.receiver.visitExpression(this, context);\n return this.visitExpression(ast, context);\n };\n /**\n * @param {?} ast\n * @param {?} context\n * @return {?}\n */\n RecursiveAstVisitor.prototype.visitReadKeyExpr = /**\n * @param {?} ast\n * @param {?} context\n * @return {?}\n */\n function (ast, context) {\n ast.receiver.visitExpression(this, context);\n ast.index.visitExpression(this, context);\n return this.visitExpression(ast, context);\n };\n /**\n * @param {?} ast\n * @param {?} context\n * @return {?}\n */\n RecursiveAstVisitor.prototype.visitLiteralArrayExpr = /**\n * @param {?} ast\n * @param {?} context\n * @return {?}\n */\n function (ast, context) {\n this.visitAllExpressions(ast.entries, context);\n return this.visitExpression(ast, context);\n };\n /**\n * @param {?} ast\n * @param {?} context\n * @return {?}\n */\n RecursiveAstVisitor.prototype.visitLiteralMapExpr = /**\n * @param {?} ast\n * @param {?} context\n * @return {?}\n */\n function (ast, context) {\n var _this = this;\n ast.entries.forEach(function (entry) { return entry.value.visitExpression(_this, context); });\n return this.visitExpression(ast, context);\n };\n /**\n * @param {?} ast\n * @param {?} context\n * @return {?}\n */\n RecursiveAstVisitor.prototype.visitCommaExpr = /**\n * @param {?} ast\n * @param {?} context\n * @return {?}\n */\n function (ast, context) {\n this.visitAllExpressions(ast.parts, context);\n return this.visitExpression(ast, context);\n };\n /**\n * @param {?} exprs\n * @param {?} context\n * @return {?}\n */\n RecursiveAstVisitor.prototype.visitAllExpressions = /**\n * @param {?} exprs\n * @param {?} context\n * @return {?}\n */\n function (exprs, context) {\n var _this = this;\n exprs.forEach(function (expr) { return expr.visitExpression(_this, context); });\n };\n /**\n * @param {?} stmt\n * @param {?} context\n * @return {?}\n */\n RecursiveAstVisitor.prototype.visitDeclareVarStmt = /**\n * @param {?} stmt\n * @param {?} context\n * @return {?}\n */\n function (stmt, context) {\n

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stmt.value.visitExpression(this, context);\n    if (stmt.type) {\n        stmt.type.visitType(this, context);\n    }\n    return stmt;\n};\n/**\n * @param {?} stmt\n * @param {?} context\n * @return {?}\n */\nRecursiveAstVisitor.prototype.visitDeclareFunctionStmt = /**\n * @param {?} stmt\n * @param {?} context\n * @return {?}\n */\nfunction (stmt, context) {\n    this.visitAllStatements(stmt.statements, context);\n    if (stmt.type) {\n        stmt.type.visitType(this, context);\n    }\n    return stmt;\n};\n/**\n * @param\n * @return {?}\n */\nRecursiveAstVisitor.prototype.visitExpressionStmt = /**\n * @param {?} stmt\n * @param {?} context\n * @return {?}\n */\nfunction (stmt, context) {\n    stmt.expr.visitExpression(this, context);\n    return stmt;\n};\n/**\n * @param {?} stmt\n * @param {?} context\n * @return {?}\n */\nRecursiveAstVisitor.prototype.visitReturnStmt = /**\n * @param {?} stmt\n * @param {?} context\n * @return {?}\n */\nfunction (stmt, context) {\n    stmt.value.visitExpression(this, context);\n    return\n    stmt;\n};\n/**\n * @param {?} stmt\n * @param {?} context\n * @return {?}\n */\nRecursiveAstVisitor.prototype.visitDeclareClassStmt = /**\n * @param {?} stmt\n * @param {?} context\n * @return {?}\n */\nfunction (stmt, context) {\n    var _this = this;\n    /** @type {?} */\n    ((stmt.parent)).visitExpression(this, context);\n    stmt.getters.forEach(function (getter) { return\n    _this.visitAllStatements(getter.body, context); });\n    if (stmt.constructorMethod) {\n    this.visitAllStatements(stmt.constructorMethod.body, context);\n    }\n    stmt.methods.forEach(function\n    (method) { return _this.visitAllStatements(method.body, context); });\n    return stmt;\n};\n/**\n * @param {?} stmt\n * @param {?} context\n * @return {?}\n */\nRecursiveAstVisitor.prototype.visitIfStmt = /**\n * @param {?} stmt\n * @param {?} context\n * @return\n {?}\n */\nfunction (stmt, context) {\n    stmt.condition.visitExpression(this, context);\n    this.visitAllStatements(stmt.trueCase, context);\n    this.visitAllStatements(stmt.falseCase, context);\n    return\n    stmt;\n};\n/**\n * @param {?} stmt\n * @param {?} context\n * @return {?}\n */\nRecursiveAstVisitor.prototype.visitTryCatchStmt = /**\n * @param {?} stmt\n * @param {?} context\n * @return\n {?}\n */\nfunction (stmt, context) {\n    this.visitAllStatements(stmt.bodyStmts, context);\n    this.visitAllStatements(stmt.catchStmts, context);\n    return stmt;\n};\n/**\n * @param {?} stmt\n * @param {?} context\n * @return {?}\n */\nRecursiveAstVisitor.prototype.visitThrowStmt = /**\n * @param\n {?}\n */\nfunction (stmt, context) {\n    stmt.error.visitExpression(this, context);\n    return stmt;\n};\n/**\n * @param {?} stmt\n * @param\n {?}\n */\nRecursiveAstVisitor.prototype.visitCommentStmt = /**\n * @param\n {?}\n */\nfunction (stmt, context) {\n    return stmt;\n};\n/**\n * @param\n {?}\n */\nRecursiveAstVisitor.prototype.visitAllStatements = /**\n * @param\n {?}\n */\nfunction (stmts, context) {\n    var _this = this;\n    stmts.forEach(function (stmt) {\n    return stmt.visitStatement(_this, context); });\n};\nreturn RecursiveAstVisitor;\n})(\n/**\n * @param\n {?}\n */\nfunction findReadVarNames(stmts) {\n    var /** @type {?} */ visitor = new\n    _ReadVarVisitor();\n    visitor.visitAllStatements(stmts, null);\n    return visitor.varNames;\n}\nvar\n    _ReadVarVisitor = /** @class */ (function (_super) {\n    __extends(_ReadVarVisitor, _super);\n    function\n    _ReadVarVisitor() {\n        var _this = _super !== null && _super.apply(this, arguments) || this;\n        _this.varNames = new Set();\n        return _this;\n    }\n    /**\n     * @param\n     {?}\n     */\n    _ReadVarVisitor.prototype.visitDeclareFunctionStmt = /**\n     * @param\n     {?}\n     */\n    function (stmt, context) {\n        // Don't descend into nested\n        functions\n        return stmt;\n    }; \n    /**\n     * @param\n     {?}\n     */\n    _ReadVarVisitor.prototype.visitDeclareClassStmt = /**\n     * @param\n     {?}\n     */\n    function (stmt, context) {\n        // Don't descend into nested classes\n        return\n        stmt;\n    }; \n    /**\n     * @param\n     {?}\n     */\n    _ReadVarVisitor.prototype.visitReadVarExpr = /**\n     * @param\n     {?}\n     */\n    function (ast, context) {\n        if (ast.name) {\n            this.varNames.add(ast.name);\n        }\n    }\n}

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}\n    return null;\n  };\n  return _ReadVarVisitor;\n}(RecursiveAstVisitor$1));\n/**\n * @param {?} stmts\n * @return {?}\n */\nfunction collectExternalReferences(stmts) {\n  var /** @type {?} */ visitor = new\n  _FindExternalReferencesVisitor();\n  visitor.visitAllStatements(stmts, null);\n  return\n  visitor.externalReferences;\n}\n\nvar _FindExternalReferencesVisitor = /** @class */ (function (_super) {\n  __extends(_FindExternalReferencesVisitor, _super);\n  function _FindExternalReferencesVisitor() {\n    var\n    _this = _super !== null && _super.apply(this, arguments) || this;\n    _this.externalReferences = [];\n    return\n    _this;\n  }\n  /**\n   * @param {?} e\n   * @param {?} context\n   * @return {?}\n   */\n  _FindExternalReferencesVisitor.prototype.visitExternalExpr = /**\n   * @param {?} e\n   * @param {?} context\n   * @return {?}\n   */\n  function (e, context) {\n    this.externalReferences.push(e.value);\n    return _super.prototype.visitExternalExpr.call(this, e, context);\n  };\n  return\n  _FindExternalReferencesVisitor;\n})(RecursiveAstVisitor$1));\n/**\n * @param {?} stmt\n * @param {?} sourceSpan\n * @return {?}\n */\nfunction applySourceSpanToStatementIfNeeded(stmt, sourceSpan) {\n  if\n  (!sourceSpan) {\n    return stmt;\n  }\n  var /** @type {?} */ transformer = new\n  _ApplySourceSpanTransformer(sourceSpan);\n  return stmt.visitStatement(transformer, null);\n}\n\n/**\n * @param {?} expr\n * @param {?} sourceSpan\n * @return {?}\n */\nfunction applySourceSpanToExpressionIfNeeded(expr,\nsourceSpan) {\n  if (!sourceSpan) {\n    return expr;\n  }\n  var /** @type {?} */ transformer = new\n  _ApplySourceSpanTransformer(sourceSpan);\n  return expr.visitExpression(transformer, null);\n}\n\nvar\n_ApplySourceSpanTransformer = /** @class */ (function (_super) {\n  __extends(_ApplySourceSpanTransformer,\n_super);\n  function _ApplySourceSpanTransformer(sourceSpan) {\n    var _this = _super.call(this) || this;\n    _this.sourceSpan = sourceSpan;\n    return _this;\n  }\n  /**\n   * @param {?} obj\n   * @return {?}\n   */\n  _ApplySourceSpanTransformer.prototype._clone = /**\n   * @param {?} obj\n   * @return {?}\n   */\n  function (obj) {\n    var /** @type {?} */ clone = Object.create(obj.constructor.prototype);\n    for (var /**\n    @type {?} */ prop in obj) {\n      clone[prop] = obj[prop];\n    }\n    return clone;\n  };\n  /**\n   * @param {?} expr\n   * @param {?} context\n   * @return {?}\n   */\n  _ApplySourceSpanTransformer.prototype.transformExpr = /**\n   * @param {?} expr\n   * @param {?} context\n   * @return {?}\n   */\n  function (expr, context) {\n    if (!expr.sourceSpan) {\n      expr =\n      this._clone(expr);\n      expr.sourceSpan = this.sourceSpan;\n    }\n    return expr;\n  };\n  /**\n   * @param {?} stmt\n   * @param {?} context\n   * @return {?}\n   */\n  _ApplySourceSpanTransformer.prototype.transformStmt = /**\n   * @param {?} stmt\n   * @param {?} context\n   * @return {?}\n   */\n  function (stmt, context) {\n    if (!stmt.sourceSpan) {\n      stmt =\n      this._clone(stmt);\n      stmt.sourceSpan = this.sourceSpan;\n    }\n    return stmt;\n  };\n  return\n  _ApplySourceSpanTransformer;\n})(AstTransformer$1));\n/**\n * @param {?} name\n * @param {?=} type\n * @param {?=} sourceSpan\n * @return {?}\n */\nfunction variable(name, type, sourceSpan) {\n  return new\n  ReadVarExpr(name, type, sourceSpan);\n}\n\n/**\n * @param {?} id\n * @param {?=} typeParams\n * @param {?=} sourceSpan\n * @return {?}\n */\nfunction importExpr(id, typeParams, sourceSpan) {\n  if (typeParams ===\nvoid 0) {\n    typeParams = null;\n  }\n  return new ExternalExpr(id, null, typeParams, sourceSpan);\n}\n\n/**\n * @param {?} id\n * @param {?=} typeParams\n * @param {?=} typeModifiers\n * @return {?}\n */\nfunction\nimportType(id, typeParams, typeModifiers) {\n  if (typeParams === void 0) {\n    typeParams = null;\n  }\n  if\n  (typeModifiers === void 0) {\n    typeModifiers = null;\n  }\n  return id != null ? expressionType(importExpr(id,\ntypeParams, null), typeModifiers) : null;\n}\n\n/**\n * @param {?} expr\n * @param {?=} typeModifiers\n * @return {?}\n */\nfunction\nexpressionType(expr, typeModifiers) {\n  if (typeModifiers === void 0) {\n    typeModifiers = null;\n  }\n  return new ExpressionType(expr, typeModifiers);\n}\n\n/**\n * @param {?} values\n * @param {?=} type\n * @return {?}\n */\nfunction\nliteralArr(values, type, sourceSpan) {\n  return new\n  LiteralArrayExpr(values, type, sourceSpan);\n}\n\n/**\n * @param {?} values\n * @param {?=} type\n * @return {?}\n */\nfunction\nliteralMap(values, type) {\n  if (type === void 0) {\n    type = null;\n  }\n  return new\n  LiteralMapExpr(values.map(function (e) {\n    return new\n    LiteralMapEntry(e.key, e.value, e.quoted);\n  }), type,\nnull);\n}\n\n/**\n * @param {?} expr\n * @param {?=} sourceSpan\n * @return {?}\n */\nfunction\nnot(expr, sourceSpan) {\n  return new NotExpr(expr, sourceSpan);\n}\n\n/**\n * @param {?} expr\n * @param {?=}

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sourceSpan\n * @return {?} \n *\nfunction assertNotNull(expr, sourceSpan) {\n  return new AssertNotNull(expr,
sourceSpan);\n}\n\n/**\n * @param {?} params\n * @param {?} body\n * @param {=} type\n * @param {=}
sourceSpan\n * @return {?} \n *\nfunction fn(params, body, type, sourceSpan) {\n  return new
FunctionExpr(params, body, type, sourceSpan);\n}\n\n/**\n * @param {?} value\n * @param {=} type\n * @param
{=} sourceSpan\n * @return {?} \n *\nfunction literal(value, type, sourceSpan) {\n  return new LiteralExpr(value,
type, sourceSpan);\n}\n\n/**\n * @fileoverview added by tsickle\n * @suppress {checkTypes} checked by tsc\n
*\n/**\n * @license\n * Copyright Google Inc. All Rights Reserved.\n *\n * Use of this source code is governed by
an MIT-style license that can be\n * found in the LICENSE file at https://angular.io/license\n *\nvar ProviderError
= /** @class */ (function (_super) {\n  __extends(ProviderError, _super);\n  function ProviderError(message,
span) {\n    return _super.call(this, span, message) || this;\n  }\n  return ProviderError;\n})(ParseError);\n\n/**\n *
@record\n *\nvar ProviderViewContext = /** @class */ (function () {\n  function
ProviderViewContext(reflector, component) {\n    var _this = this;\n    this.reflector = reflector;\n
this.component = component;\n    this.errors = [];\n    this.viewQueries = _getViewQueries(component);\n
this.viewProviders = new Map();\n    component.viewProviders.forEach(function (provider) {\n      if
(_this.viewProviders.get(tokenReference(provider.token)) == null) {\n
_this.viewProviders.set(tokenReference(provider.token), true);\n      }\n    });\n  }\n  return
ProviderViewContext;\n})();\n\nvar ProviderElementContext = /** @class */ (function () {\n  function
ProviderElementContext(viewContext, _parent, _isViewRoot, _directiveAsts, attrs, refs, isTemplate,
contentQueryStartId, _sourceSpan) {\n    var _this = this;\n    this.viewContext = viewContext;\n
this._parent = _parent;\n    this._isViewRoot = _isViewRoot;\n    this._directiveAsts = _directiveAsts;\n
this._sourceSpan = _sourceSpan;\n    this._transformedProviders = new Map();\n    this._seenProviders = new
Map();\n    this._queriedTokens = new Map();\n    this.transformedHasViewContainer = false;\n    this._attrs
= {};\n    attrs.forEach(function (attrAst) { return _this._attrs[attrAst.name] = attrAst.value; });\n    var /**
@type {?} */ directivesMeta = _directiveAsts.map(function (directiveAst) { return directiveAst.directive; });\n
this._allProviders =\n      _resolveProvidersFromDirectives(directivesMeta, _sourceSpan, viewContext.errors);\n
this._contentQueries = _getContentQueries(contentQueryStartId, directivesMeta);\n
Array.from(this._allProviders.values()).forEach(function (provider) {\n
_this._addQueryReadsTo(provider.token, provider.token, _this._queriedTokens);\n    });\n    if (isTemplate) {\n
var /** @type {?} */ templateRefId = createTokenForExternalReference(this.viewContext.reflector,
Identifiers.TemplateRef);\n    this._addQueryReadsTo(templateRefId, templateRefId, this._queriedTokens);\n
}\n    refs.forEach(function (refAst) {\n      var /** @type {?} */ defaultQueryValue = refAst.value ||\n
createTokenForExternalReference(_this.viewContext.reflector, Identifiers.ElementRef);\n
_this._addQueryReadsTo({ value: refAst.name }, defaultQueryValue, _this._queriedTokens);\n    });\n    if
(this._queriedTokens.get(this.viewContext.reflector.resolveExternalReference(Identifiers.ViewContainerRef))) {\n
this.transformedHasViewContainer = true;\n    }\n    // create the providers that we know are eager first\n
Array.from(this._allProviders.values()).forEach(function (provider) {\n      var /** @type {?} */ eager =
provider.eager || _this._queriedTokens.get(tokenReference(provider.token));\n      if (eager) {\n
_this._getOrCreateLocalProvider(provider.providerType, provider.token, true);\n      }\n    });\n    /**\n
 * @return {?} \n *\n ProviderElementContext.prototype.afterElement = /**\n
 * @return {?} \n *\n
function () {\n  var _this = this;\n  // collect lazy providers\n
Array.from(this._allProviders.values()).forEach(function (provider) {\n
_this._getOrCreateLocalProvider(provider.providerType, provider.token, false);\n    });\n  });\n
Object.defineProperty(ProviderElementContext.prototype, "transformProviders", {\n  get: /**\n
 * @return
{?} \n *\n function () {\n    // Note: Maps keep their insertion order.\n    var /** @type {?} */
lazyProviders = [];\n    var /** @type {?} */ eagerProviders = [];\n
this._transformedProviders.forEach(function (provider) {\n      if (provider.eager) {\n
eagerProviders.push(provider);\n      }\n      else {\n        lazyProviders.push(provider);\n
}\n    });\n    return lazyProviders.concat(eagerProviders);\n  },\n  enumerable: true,\n

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configurable: true\n  });\n  Object.defineProperty(ProviderElementContext.prototype,
\"transformedDirectiveAsts\", {\n    get: /**\n      * @return {?} \n      *\n      function () {\n        var /**
@type {?} */ sortedProviderTypes = this.transformProviders.map(function (provider) { return
provider.token.identifier; });\n        var /** @type {?} */ sortedDirectives = this._directiveAsts.slice();\n
sortedDirectives.sort(function (dir1, dir2) {\n          return sortedProviderTypes.indexOf(dir1.directive.type) -\n
sortedProviderTypes.indexOf(dir2.directive.type);\n        });\n        return sortedDirectives;\n      },\n    enumerable: true,\n    configurable: true\n  });\n  Object.defineProperty(ProviderElementContext.prototype,
\"queryMatches\", {\n    get: /**\n      * @return {?} \n      *\n      function () {\n        var /** @type {?} */
allMatches = [];\n        this._queriedTokens.forEach(function (matches) { allMatches.push.apply(allMatches,
matches); });\n        return allMatches;\n      },\n    enumerable: true,\n    configurable: true\n  });\n  /**\n
* @param {?} token\n  * @param {?} defaultValue\n  * @param {?} queryReadTokens\n  * @return {?} \n
*\n  ProviderElementContext.prototype._addQueryReadsTo = /**\n  * @param {?} token\n  * @param {?}
defaultValue\n  * @param {?} queryReadTokens\n  * @return {?} \n  *\n  function (token, defaultValue,
queryReadTokens) {\n    this._getQueriesFor(token).forEach(function (query) {\n      var /** @type {?} */
queryValue = query.meta.read || defaultValue;\n      var /** @type {?} */ tokenRef =
tokenReference(queryValue);\n      var /** @type {?} */ queryMatches = queryReadTokens.get(tokenRef);\n
      if (!queryMatches) {\n        queryMatches = [];\n        queryReadTokens.set(tokenRef, queryMatches);\n
      }\n      queryMatches.push({ queryId: query.queryId, value: queryValue });\n    });\n  }; \n  /**\n
* @param {?} token\n  * @return {?} \n  *\n  ProviderElementContext.prototype._getQueriesFor = /**\n
* @param {?} token\n  * @return {?} \n  *\n  function (token) {\n    var /** @type {?} */ result = [];\n    var
/** @type {?} */ currentEl = this;\n    var /** @type {?} */ distance = 0;\n    var /** @type {?} */ queries;\n
    while (currentEl !== null) {\n      queries = currentEl._contentQueries.get(tokenReference(token));\n      if
(queries) {\n        result.push.apply(result, queries.filter(function (query) { return query.meta.descendants ||
distance <= 1; }));\n      }\n      if (currentEl._directiveAsts.length > 0) {\n        distance++;\n      }\n
      currentEl = currentEl._parent;\n    }\n    queries =
this.viewContext.viewQueries.get(tokenReference(token));\n    if (queries) {\n      result.push.apply(result,
queries);\n    }\n    return result;\n  }; \n  /**\n
* @param {?} requestingProviderType\n  * @param {?}
token\n  * @param {?} eager\n  * @return {?} \n  *\n
ProviderElementContext.prototype._getOrCreateLocalProvider = /**\n
* @param {?} requestingProviderType\n
* @param {?} token\n  * @param {?} eager\n  * @return {?} \n  *\n  function (requestingProviderType,
token, eager) {\n    var _this = this;\n    var /** @type {?} */ resolvedProvider =
this._allProviders.get(tokenReference(token));\n    if (!resolvedProvider || ((requestingProviderType ===
ProviderAstType.Directive ||\n      requestingProviderType === ProviderAstType.PublicService) &&\n
resolvedProvider.providerType === ProviderAstType.PrivateService) ||\n      ((requestingProviderType ===
ProviderAstType.PrivateService ||\n        requestingProviderType === ProviderAstType.PublicService) &&\n
resolvedProvider.providerType === ProviderAstType.Builtin)) {\n      return null;\n    }\n    var /**
@type {?} */ transformedProviderAst = this._transformedProviders.get(tokenReference(token));\n    if
(transformedProviderAst) {\n      return transformedProviderAst;\n    }\n    if
(this._seenProviders.get(tokenReference(token)) != null) {\n      this.viewContext.errors.push(new
ProviderError(\"Cannot instantiate cyclic dependency!\" + tokenName(token), this._sourceSpan));\n      return
null;\n    }\n    this._seenProviders.set(tokenReference(token), true);\n    var /** @type {?} */
transformedProviders = resolvedProvider.providers.map(function (provider) {\n      var /** @type {?} */
transformedUseValue = provider.useValue;\n      var /** @type {?} */ transformedUseExisting = /** @type {?} */
*/ ((provider.useExisting));\n      var /** @type {?} */ transformedDeps = /** @type {?} */ ((undefined));\n
      if (provider.useExisting != null) {\n        var /** @type {?} */ existingDiDep = /** @type {?} */
*/ ((_this._getDependency(resolvedProvider.providerType, { token: provider.useExisting }, eager))); \n
        if (existingDiDep.token != null) {\n          transformedUseExisting = existingDiDep.token;\n        }\n
        else {\n          transformedUseExisting = /** @type {?} */ ((null));\n          transformedUseValue =

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existingDiDep.value;\n          }\n          }\n          else if (provider.useFactory) {\n          var /** @type {?}
*/ deps = provider.deps || provider.useFactory.diDeps;\n          transformedDeps =\n
deps.map(function (dep) { return ((_this._getDependency(resolvedProvider.providerType, dep, eager))); });\n
}\n          else if (provider.useClass) {\n          var /** @type {?} */ deps = provider.deps ||
provider.useClass.diDeps;\n          transformedDeps =\n          deps.map(function (dep) { return
((_this._getDependency(resolvedProvider.providerType, dep, eager))); });\n          }\n          return
_transformProvider(provider, {\n          useExisting: transformedUseExisting,\n          useValue:
transformedUseValue,\n          deps: transformedDeps\n          });\n          });\n          transformedProviderAst =\n
_transformProviderAst(resolvedProvider, { eager: eager, providers: transformedProviders });\n
this._transformedProviders.set(tokenReference(token), transformedProviderAst);\n          return
transformedProviderAst;\n          };\n          /**\n          * @param {?} requestingProviderType\n          * @param {?} dep\n          *
@param {?=} eager\n          * @return {?}\n          *\n          * ^\n          ProviderElementContext.prototype._getLocalDependency = /**\n
* @param {?} requestingProviderType\n          * @param {?} dep\n          * @param {?=} eager\n          * @return {?}\n
*\n          * ^\n          function (requestingProviderType, dep, eager) {\n          if (eager === void 0) { eager = false; }\n          if
(dep.isAttribute) {\n          var /** @type {?} */ attrValue = this._attrs[/** @type {?} */ ((dep.token)).value];\n
return { isValue: true, value: attrValue == null ? null : attrValue }; }\n          }\n          if (dep.token != null) {\n
// access builtins\n          if ((requestingProviderType === ProviderAstType.Directive ||\n
requestingProviderType === ProviderAstType.Component)) {\n          if (tokenReference(dep.token) ===\n
this.viewContext.reflector.resolveExternalReference(Identifiers.Renderer) ||\n
tokenReference(dep.token) ===\n
this.viewContext.reflector.resolveExternalReference(Identifiers.ElementRef) ||\n
tokenReference(dep.token) ===\n
this.viewContext.reflector.resolveExternalReference(Identifiers.ChangeDetectorRef) ||\n
tokenReference(dep.token) ===\n
this.viewContext.reflector.resolveExternalReference(Identifiers.TemplateRef)) {\n          return dep;\n
}\n          if (tokenReference(dep.token) ===\n
this.viewContext.reflector.resolveExternalReference(Identifiers.ViewContainerRef)) {\n          (/** @type {?}
*/ (this)).transformedHasViewContainer = true;\n          }\n          }\n          // access the injector\n          if
(tokenReference(dep.token) ===\n
this.viewContext.reflector.resolveExternalReference(Identifiers.Injector)) {\n          return dep;\n          }\n
// access providers\n          if (this._getOrCreateLocalProvider(requestingProviderType, dep.token, eager) != null)
{\n          return dep;\n          }\n          }\n          return null;\n          };\n          /**\n          * @param {?}
requestingProviderType\n          * @param {?} dep\n          * @param {?=} eager\n          * @return {?}\n          *\n          * ^\n
ProviderElementContext.prototype._getDependency = /**\n          * @param {?} requestingProviderType\n          *
@param {?} dep\n          * @param {?=} eager\n          * @return {?}\n          *\n          * ^\n          function (requestingProviderType, dep,
eager) {\n          if (eager === void 0) { eager = false; }\n          var /** @type {?} */ currElement = this;\n          var /**
@type {?} */ currEager = eager;\n          var /** @type {?} */ result = null;\n          if (!dep.isSkipSelf) {\n          result
= this._getLocalDependency(requestingProviderType, dep, eager);\n          }\n          if (dep.isSelf) {\n          if (!result
&& dep.isOptional) {\n          result = { isValue: true, value: null }; }\n          }\n          }\n          else {\n          //
check parent elements\n          while (!result && currElement._parent) {\n          var /** @type {?} */
prevElement = currElement;\n          currElement = currElement._parent;\n          if
(prevElement._isViewRoot) {\n          currEager = false;\n          }\n          result =
currElement._getLocalDependency(ProviderAstType.PublicService, dep, currEager);\n          }\n          // check
@Host restriction\n          if (!result) {\n          if (!dep.isHost || this.viewContext.component.isHost ||\n
this.viewContext.component.type.reference === tokenReference(/** @type {?} */ ((dep.token)))) ||\n
this.viewContext.viewProviders.get(tokenReference(/** @type {?} */ ((dep.token)))) != null) {\n          result
= dep;\n          }\n          else {\n          result = dep.isOptional ? result = { isValue: true, value: null } :
null;\n          }\n          }\n          }\n          }\n          if (!result) {\n          this.viewContext.errors.push(new

```

```

ProviderError(`No provider for ` + tokenName((/** @type {?} */ ((dep.token))), this._sourceSpan));\n    }\n    return result;\n  };\n  return ProviderElementContext;\n}());\nvar NgModuleProviderAnalyzer = /** @class */\n(function () {\n  function NgModuleProviderAnalyzer(reflector, ngModule, extraProviders, sourceSpan) {\n    var _this = this;\n    this.reflector = reflector;\n    this._transformedProviders = new Map();\n    this._seenProviders = new Map();\n    this._errors = [];\n    this._allProviders = new Map();\n    ngModule.transitiveModule.modules.forEach(function (ngModuleType) {\n      var /** @type {?} */\n      ngModuleProvider = { token: { identifier: ngModuleType }, useClass: ngModuleType };\n      _resolveProviders([ngModuleProvider], ProviderAstType.PublicService, true, sourceSpan, _this._errors,\n        _this._allProviders);\n    });\n    _resolveProviders(ngModule.transitiveModule.providers.map(function (entry)\n      { return entry.provider; }).concat(extraProviders), ProviderAstType.PublicService, false, sourceSpan, this._errors,\n      this._allProviders);\n  }\n  /**\n   * @return {?}\n   */\n  NgModuleProviderAnalyzer.prototype.parse = /**\n   * @return {?}\n   */\n  function () {\n    var _this = this;\n    Array.from(this._allProviders.values()).forEach(function (provider) {\n      _this._getOrCreateLocalProvider(provider.token, provider.eager);\n    });\n    if (this._errors.length > 0) {\n      var /** @type {?} */ errorString = this._errors.join(`\\n`);\n      throw new Error(`Provider parse errors:\\n` +\n        errorString);\n    }\n    // Note: Maps keep their insertion order.\n    var /** @type {?} */ lazyProviders =\n    [];\n    var /** @type {?} */ eagerProviders = [];\n    this._transformedProviders.forEach(function (provider)\n      {\n        if (provider.eager) {\n          eagerProviders.push(provider);\n        }\n        else {\n          lazyProviders.push(provider);\n        }\n      });\n    return lazyProviders.concat(eagerProviders);\n  };\n  /**\n   * @param {?} token\n   * @param {?} eager\n   * @return {?}\n   */\n  NgModuleProviderAnalyzer.prototype._getOrCreateLocalProvider = /**\n   * @param {?} token\n   * @param\n   * {?} eager\n   * @return {?}\n   */\n  function (token, eager) {\n    var _this = this;\n    var /** @type {?} */\n    resolvedProvider = this._allProviders.get(tokenReference(token));\n    if (!resolvedProvider) {\n      return\n      null;\n    }\n    var /** @type {?} */ transformedProviderAst =\n    this._transformedProviders.get(tokenReference(token));\n    if (transformedProviderAst) {\n      return\n      transformedProviderAst;\n    }\n    if (this._seenProviders.get(tokenReference(token)) != null) {\n      this._errors.push(new ProviderError(`Cannot instantiate cyclic dependency! ` + tokenName(token),\n        resolvedProvider.sourceSpan));\n      return null;\n    }\n    this._seenProviders.set(tokenReference(token),\n      true);\n    var /** @type {?} */ transformedProviders = resolvedProvider.providers.map(function (provider) {\n      var /** @type {?} */ transformedUseValue = provider.useValue;\n      var /** @type {?} */\n      transformedUseExisting = /** @type {?} */ ((provider.useExisting));\n      var /** @type {?} */\n      transformedDeps = /** @type {?} */ ((undefined));\n      if (provider.useExisting != null) {\n        var /**\n        @type {?} */ existingDiDep = _this._getDependency({ token: provider.useExisting }, eager,\n        resolvedProvider.sourceSpan);\n        if (existingDiDep.token != null) {\n          transformedUseExisting\n          = existingDiDep.token;\n        }\n        else {\n          transformedUseExisting = /** @type {?} */\n          ((null));\n          transformedUseValue = existingDiDep.value;\n        }\n      }\n      else if\n      (provider.useFactory) {\n        var /** @type {?} */ deps = provider.deps || provider.useFactory.diDeps;\n        transformedDeps =\n        deps.map(function (dep) { return _this._getDependency(dep, eager,\n        resolvedProvider.sourceSpan); });\n      }\n      else if (provider.useClass) {\n        var /** @type {?} */\n        deps = provider.deps || provider.useClass.diDeps;\n        transformedDeps =\n        deps.map(function\n        (dep) { return _this._getDependency(dep, eager, resolvedProvider.sourceSpan); });\n      }\n      return\n      _transformProvider(provider, {\n        useExisting: transformedUseExisting,\n        useValue:\n        transformedUseValue,\n        deps: transformedDeps\n      });\n    });\n    transformedProviderAst =\n    _transformProviderAst(resolvedProvider, { eager: eager, providers: transformedProviders });\n    this._transformedProviders.set(tokenReference(token), transformedProviderAst);\n    return\n    transformedProviderAst;\n  };\n  /**\n   * @param {?} dep\n   * @param {?} = eager\n   * @param {?} =\n   * requestorSourceSpan\n   * @return {?}\n   */\n  NgModuleProviderAnalyzer.prototype._getDependency = /**\n   * @param {?} dep\n   * @param {?} = eager\n   * @param {?} = requestorSourceSpan\n   * @return {?}\n
```

```

*^function (dep, eager, requestorSourceSpan) {
  if (eager === void 0) { eager = false; }
  var /**
  @type {?} */ foundLocal = false;
  if (!dep.isSkipSelf && dep.token != null) {
    // access the injector
    if (tokenReference(dep.token) ===
        this.reflector.resolveExternalReference(Identifiers.Injector) ||
        tokenReference(dep.token) ===
        this.reflector.resolveExternalReference(Identifiers.ComponentFactoryResolver)) {
      foundLocal = true;
      // access providers
    } else if (this._getOrCreateLocalProvider(dep.token, eager) != null) {
      foundLocal = true;
    }
    var /** @type {?} */ result = dep;
    if (dep.isSelf && !foundLocal) {
      if (dep.isOptional) {
        result = { isValue: true, value: null };
      }
    } else {
      this._errors.push(new ProviderError(
        "No provider for " + tokenName(/** @type {?} */ (dep.token)),
        requestorSourceSpan));
    }
    return result;
  }
  return NgModuleProviderAnalyzer();
}

*^function _transformProvider(provider, _a) {
  var useExisting = _a.useExisting, useValue = _a.useValue, deps = _a.deps;
  return {
    token: provider.token,
    useClass: provider.useClass,
    useExisting: useExisting,
    useFactory: provider.useFactory,
    useValue: useValue,
    deps: deps,
    multi: provider.multi
  };
}

*^function _transformProviderAst(provider, _a) {
  var eager = _a.eager, providers = _a.providers;
  return new ProviderAst(
    provider.token, provider.multiProvider, provider.eager || eager, providers,
    provider.providerType, provider.lifecycleHooks, provider.sourceSpan);
}

*^function _resolveProvidersFromDirectives(directives, sourceSpan, targetErrors) {
  var /** @type {?} */ providersByToken = new Map();
  directives.forEach(function (directive) {
    var /** @type {?} */ dirProvider = { token: { identifier: directive.type }, useClass: directive.type };
    _resolveProviders([dirProvider], directive.isComponent ? ProviderAstType.Component : ProviderAstType.Directive, true, sourceSpan, targetErrors, providersByToken);
  });
  // Note: directives need to be able to overwrite providers of a component!
  var /** @type {?} */ directivesWithComponentFirst = directives.filter(function (dir) { return dir.isComponent; }).concat(directives.filter(function (dir) { return !dir.isComponent; }));
  directivesWithComponentFirst.forEach(function (directive) {
    _resolveProviders(directive.providers, ProviderAstType.PublicService, false, sourceSpan, targetErrors, providersByToken);
    _resolveProviders(directive.viewProviders, ProviderAstType.PrivateService, false, sourceSpan, targetErrors, providersByToken);
  });
  return providersByToken;
}

*^function _resolveProviders(providers, providerType, eager, sourceSpan, targetErrors, targetProvidersByToken) {
  providers.forEach(function (provider) {
    var /** @type {?} */ resolvedProvider = targetProvidersByToken.get(tokenReference(provider.token));
    if (resolvedProvider != null && !resolvedProvider.multiProvider !== !provider.multi) {
      targetErrors.push(new ProviderError(
        "Mixing multi and non multi provider is not possible for token " + tokenName(resolvedProvider.token),
        sourceSpan));
    }
    if (!resolvedProvider) {
      var /** @type {?} */ lifecycleHooks = provider.token.identifier && (/** @type {?} */ (provider.token.identifier)).lifecycleHooks ? (/** @type {?} */ (provider.token.identifier)).lifecycleHooks : [];
      var /** @type {?} */ isUseValue = !(provider.useClass || provider.useExisting || provider.useFactory);
      resolvedProvider = new ProviderAst(
        provider.token, !provider.multi, eager || isUseValue, [provider], providerType, lifecycleHooks,
        sourceSpan);
      targetProvidersByToken.set(tokenReference(provider.token), resolvedProvider);
    }
  });
  if (!provider.multi) {
    resolvedProvider.providers.length = 0;
  }
  resolvedProvider.providers.push(provider);
}

*^function _getViewQueries(component) {
  // Note: queries start with id 1 so we can use the number in a Bloom filter!
  var /** @type {?} */ viewQueryId = 1;
  var /** @type {?} */ viewQueries = new Map();
  (component.viewQueries).forEach(function (query) {
    return _addQueryToTokenMap(viewQueries, { meta: query, queryId: viewQueryId++ });
  });
  return viewQueries;
}

```

```

viewQueries;\n}\n/**\n * @param {?} contentQueryStartId\n * @param {?} directives\n * @return {?}\n *\n * ^\nfunction _getContentQueries(contentQueryStartId, directives) {\n  var /** @type {?} */ contentQueryId =\n  contentQueryStartId;\n  var /** @type {?} */ contentQueries = new Map();\n  directives.forEach(function\n  (directive, directiveIndex) {\n    if (directive.queries) {\n      directive.queries.forEach(function (query) {\n        return _addQueryToTokenMap(contentQueries, { meta: query, queryId: contentQueryId++ });\n      });\n    }\n  });\n  return contentQueries;\n}\n/**\n * @param {?} map\n * @param {?} query\n * @return {?}\n *\n * ^\nfunction\n  _addQueryToTokenMap(map, query) {\n    query.meta.selectors.forEach(function (token) {\n      var /** @type\n      {?} */ entry = map.get(tokenReference(token));\n      if (!entry) {\n        entry = [];\n      }\n      map.set(tokenReference(token), entry);\n      entry.push(query);\n    });\n  }\n}\n\n/**\n * @fileoverview added\n * by tsickle\n * @suppress {checkTypes} checked by tsc\n * ^\n/**\n * @license\n * Copyright Google Inc. All Rights\n * Reserved.\n * ^\n * Use of this source code is governed by an MIT-style license that can be\n * found in the\n * LICENSE file at https://angular.io/license\n * ^\nvar QUOTED_KEYS = '$quoted$';\n/**\n * @param {?} ctx\n * @param {?} value\n * @param {?=} type\n * @return {?}\n *\n * ^\nfunction convertValueToOutputAst(ctx, value,\n  type) {\n  if (type === void 0) {\n    type = null;\n  }\n  return visitValue(value, new _ValueOutputAstTransformer(ctx),\n  type);\n}\n\nvar _ValueOutputAstTransformer = /** @class */ (function () {\n  function\n  _ValueOutputAstTransformer(ctx) {\n    this.ctx = ctx;\n  }\n  /**\n   * @param {?} arr\n   * @param {?} type\n   * @return {?}\n   *\n   * ^\n   _ValueOutputAstTransformer.prototype.visitArray = /**\n   * @param {?} arr\n   * @param {?} type\n   * @return {?}\n   *\n   * ^\n   function (arr, type) {\n     var _this = this;\n     return\n     literalArr(arr.map(function (value) {\n       return visitValue(value, _this, null);\n     }), type);\n   }\n   /**\n   * @param {?} map\n   * @param {?} type\n   * @return {?}\n   *\n   * ^\n   _ValueOutputAstTransformer.prototype.visitStringMap = /**\n   * @param {?} map\n   * @param {?} type\n   * @return {?}\n   *\n   * ^\n   function (map, type) {\n     var _this = this;\n     var /** @type {?} */ entries = [];\n     var /** @type {?} */ quotedSet = new Set(map &&\n     map[QUOTED_KEYS]);\n     Object.keys(map).forEach(function (key) {\n       entries.push(new\n       LiteralMapEntry(key, visitValue(map[key], _this, null), quotedSet.has(key));\n     });\n     return new\n     LiteralMapExpr(entries, type);\n   }\n   /**\n   * @param {?} value\n   * @param {?} type\n   * @return {?}\n   *\n   * ^\n   _ValueOutputAstTransformer.prototype.visitPrimitive = /**\n   * @param {?} value\n   * @param {?} type\n   * @return {?}\n   *\n   * ^\n   function (value, type) {\n     return literal(value, type);\n   }\n   /**\n   * @param {?} value\n   * @param {?} type\n   * @return {?}\n   *\n   * ^\n   _ValueOutputAstTransformer.prototype.visitOther = /**\n   * @param {?} value\n   * @param {?} type\n   * @return {?}\n   *\n   * ^\n   function (value, type) {\n     if\n     (value instanceof Expression) {\n       return value;\n     }\n     return\n     this.ctx.importExpr(value);\n   }\n   }\n   return _ValueOutputAstTransformer;\n})();\n\n/**\n * @fileoverview added\n * by tsickle\n * @suppress {checkTypes} checked by tsc\n * ^\n/**\n * @license\n * Copyright Google Inc. All\n * Rights Reserved.\n * ^\n * Use of this source code is governed by an MIT-style license that can be\n * found in the\n * LICENSE file at https://angular.io/license\n * ^\n/**\n * @param {?} ctx\n * @param {?} providerAst\n * @return\n * {?}\n *\n * ^\nfunction providerDef(ctx, providerAst) {\n  var /** @type {?} */ flags = 0;\n  if (!providerAst.eager)\n  {\n    flags |= 4096 /* LazyProvider */;\n  }\n  if (providerAst.providerType ===\n  ProviderAstType.PrivateService)\n  {\n    flags |= 8192 /* PrivateProvider */;\n  }\n  providerAst.lifecycleHooks.forEach(function (lifecycleHook) {\n    // for regular providers, we only support\n    ngOnDestroy\n    if (lifecycleHook === LifecycleHooks.OnDestroy ||\n    providerAst.providerType ===\n    ProviderAstType.Directive ||\n    providerAst.providerType === ProviderAstType.Component)\n    {\n      flags\n      |= lifecycleHookToNodeFlag(lifecycleHook);\n    }\n  });\n  var _a = providerAst.multiProvider ?\n  multiProviderDef(ctx, flags, providerAst.providers) :\n  singleProviderDef(ctx, flags, providerAst.providerType,\n  providerAst.providers[0]),\n  providerExpr = _a.providerExpr,\n  providerFlags = _a.flags,\n  depsExpr = _a.depsExpr;\n  return {\n    providerExpr: providerExpr,\n    flags: providerFlags,\n    depsExpr: depsExpr,\n    tokenExpr:\n    tokenExpr(ctx, providerAst.token);\n  };\n}\n\n/**\n * @param {?} ctx\n * @param {?} flags\n * @param {?} providers\n * @return {?}\n *\n * ^\nfunction multiProviderDef(ctx, flags, providers) {\n  var /** @type {?} */\n  allDepDefs = [];\n  var /** @type {?} */ allParams = [];\n  var /** @type {?} */ exprs = providers.map(function\n  (provider, providerIndex) {\n    var /** @type {?} */ expr;\n    if (provider.useClass)\n    {\n      var /** @type

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{?} */ depExprs = convertDeps(providerIndex, provider.deps || provider.useClass.diDeps);\n      expr =
ctx.importExpr(provider.useClass.reference).instantiate(depExprs);\n    }\n    else if (provider.useFactory) {\n
      var /** @type {?} */ depExprs = convertDeps(providerIndex, provider.deps || provider.useFactory.diDeps);\n
      expr = ctx.importExpr(provider.useFactory.reference).callFn(depExprs);\n    }\n    else if
(provider.useExisting) {\n      var /** @type {?} */ depExprs = convertDeps(providerIndex, [{ token:
provider.useExisting }]);\n      expr = depExprs[0];\n    }\n    else {\n      expr =
convertValueToOutputAst(ctx, provider.useValue);\n    }\n    return expr;\n  });\n  var /** @type {?} */
providerExpr = fn(allParams, [new ReturnStatement(literalArr(exprs))], INFERRED_TYPE);\n  return {\n
providerExpr: providerExpr,\n  flags: flags | 1024 /* TypeFactoryProvider */,\n  depsExpr:
literalArr(allDepDefs)\n  };\n  /**\n   * @param {?} providerIndex\n   * @param {?} deps\n   * @return {?} */\n
  */\n  function convertDeps(providerIndex, deps) {\n    return deps.map(function (dep, depIndex) {\n      var
/** @type {?} */ paramName = "p" + providerIndex + "_" + depIndex;\n      allParams.push(new
FnParam(paramName, DYNAMIC_TYPE));\n      allDepDefs.push(depDef(ctx, dep));\n      return
variable(paramName);\n    });\n  }\n  /**\n   * @param {?} ctx\n   * @param {?} flags\n   * @param {?}
providerType\n   * @param {?} providerMeta\n   * @return {?} */\n  */\n  function singleProviderDef(ctx, flags,
providerType, providerMeta) {\n    var /** @type {?} */ providerExpr;\n    var /** @type {?} */ deps;\n    if
(providerType === ProviderAstType.Directive || providerType === ProviderAstType.Component) {\n
      providerExpr = ctx.importExpr(/** @type {?} */ ((providerMeta.useClass)).reference);\n      flags |= 16384 /*
TypeDirective */;\n      deps = providerMeta.deps || /** @type {?} */ ((providerMeta.useClass)).diDeps;\n    }\n
    else {\n      if (providerMeta.useClass) {\n        providerExpr =
ctx.importExpr(providerMeta.useClass.reference);\n        flags |= 512 /* TypeClassProvider */;\n        deps =
providerMeta.deps || providerMeta.useClass.diDeps;\n      }\n      else if (providerMeta.useFactory) {\n
        providerExpr = ctx.importExpr(providerMeta.useFactory.reference);\n        flags |= 1024 /* TypeFactoryProvider
*/;\n        deps = providerMeta.deps || providerMeta.useFactory.diDeps;\n      }\n      else if
(providerMeta.useExisting) {\n        providerExpr = NULL_EXPR;\n        flags |= 2048 /*
TypeUseExistingProvider */;\n        deps = [{ token: providerMeta.useExisting }];\n      }\n      else {\n
        providerExpr = convertValueToOutputAst(ctx, providerMeta.useValue);\n        flags |= 256 /* TypeValueProvider
*/;\n        deps = [];\n      }\n    }\n    var /** @type {?} */ depsExpr = literalArr(deps.map(function (dep) { return
depDef(ctx, dep); }));\n    return { providerExpr: providerExpr, flags: flags, depsExpr: depsExpr };\n  }\n  /**\n   *
@param {?} ctx\n   * @param {?} tokenMeta\n   * @return {?} */\n  */\n  function tokenExpr(ctx, tokenMeta) {\n    return
tokenMeta.identifier ? ctx.importExpr(tokenMeta.identifier.reference) :\n    literal(tokenMeta.value);\n  }\n  /**\n   *
@param {?} ctx\n   * @param {?} dep\n   * @return {?} */\n  */\n  function depDef(ctx, dep) {\n    // Note: the following
fields have already been normalized out by provider_analyzer:\n    // - isAttribute, isSelf, isHost\n    var /** @type
{?} */ expr = dep.isValue ? convertValueToOutputAst(ctx, dep.value) : tokenExpr(ctx, /** @type {?} */\n
((dep.token)));\n    var /** @type {?} */ flags = 0;\n    if (dep.isSkipSelf) {\n      flags |= 1 /* SkipSelf */;\n    }\n
    if (dep.isOptional) {\n      flags |= 2 /* Optional */;\n    }\n    if (dep.isValue) {\n      flags |= 8 /* Value */;\n    }\n
    return flags === 0 /* None */ ? expr : literalArr([literal(flags), expr]);\n  }\n  /**\n   * @param {?} lifecycleHook\n   *
@return {?} */\n  */\n  function lifecycleHookToNodeFlag(lifecycleHook) {\n    var /** @type {?} */ nodeFlag = 0;\n
    switch (lifecycleHook) {\n      case LifecycleHooks.AfterContentChecked:\n        nodeFlag = 2097152 /*
AfterContentChecked */;\n        break;\n      case LifecycleHooks.AfterContentInit:\n        nodeFlag = 1048576
/* AfterContentInit */;\n        break;\n      case LifecycleHooks.AfterViewChecked:\n        nodeFlag = 8388608
/* AfterViewChecked */;\n        break;\n      case LifecycleHooks.AfterViewInit:\n        nodeFlag = 4194304
/* AfterViewInit */;\n        break;\n      case LifecycleHooks.DoCheck:\n        nodeFlag = 262144 /* DoCheck
*/;\n        break;\n      case LifecycleHooks.OnChanges:\n        nodeFlag = 524288 /* OnChanges */;\n        break;\n
      case LifecycleHooks.OnDestroy:\n        nodeFlag = 131072 /* OnDestroy */;\n        break;\n      case
LifecycleHooks.OnInit:\n        nodeFlag = 65536 /* OnInit */;\n        break;\n    }\n    return
nodeFlag;\n  }\n  /**\n   * @param {?} reflector\n   * @param {?} ctx\n   * @param {?} flags\n   * @param {?}
entryComponents\n   * @return {?} */\n  */\n  function componentFactoryResolverProviderDef(reflector, ctx, flags,

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```

entryComponents) {\n  var /** @type {?} */ entryComponentFactories = entryComponents.map(function
(entryComponent) { return ctx.importExpr(entryComponent.componentFactory); });\n  var /** @type {?} */ token
= createTokenForExternalReference(reflector, Identifiers.ComponentFactoryResolver);\n  var /** @type {?} */
classMeta = {\n    diDeps: [\n      { isValue: true, value: literalArr(entryComponentFactories) },\n      {
token: token, isSkipSelf: true, isOptional: true },\n      { token: createTokenForExternalReference(reflector,
Identifiers.NgModuleRef) },\n    ],\n    lifecycleHooks: [],\n    reference:
reflector.resolveExternalReference(Identifiers.CodegenComponentFactoryResolver)\n  };\n  var _a =
singleProviderDef(ctx, flags, ProviderAstType.PrivateService, {\n    token: token,\n    multi: false,\n
useClass: classMeta,\n  }), providerExpr = _a.providerExpr, providerFlags = _a.flags, depsExpr = _a.depsExpr;\n
return { providerExpr: providerExpr, flags: providerFlags, depsExpr: depsExpr, tokenExpr: tokenExpr(ctx, token)
};\n}\n\n/**\n * @fileoverview added by tsickle\n * @suppress {checkTypes} checked by tsc\n */\n\n/**\n *
@license\n * Copyright Google Inc. All Rights Reserved.\n * Use of this source code is governed by an MIT-
style license that can be\n * found in the LICENSE file at https://angular.io/license\n */\n\nvar
NgModuleCompileResult = /** @class */ (function () {\n  function
NgModuleCompileResult(ngModuleFactoryVar) {\n    this.ngModuleFactoryVar = ngModuleFactoryVar;\n  }\n
return NgModuleCompileResult;\n})();\n\nvar LOG_VAR = variable('_l');\nvar NgModuleCompiler = /** @class */
(function () {\n  function NgModuleCompiler(reflector) {\n    this.reflector = reflector;\n  }\n
/**\n * @param {?} ctx\n * @param {?} ngModuleMeta\n * @param {?} extraProviders\n * @return {?} */\n
NgModuleCompiler.prototype.compile = /**\n * @param {?} ctx\n * @param {?} ngModuleMeta\n *
@param {?} extraProviders\n * @return {?} */\n */\n function (ctx, ngModuleMeta, extraProviders) {\n  var
/** @type {?} */ sourceSpan = typeSourceSpan('NgModule', ngModuleMeta.type);\n  var /** @type {?} */
entryComponentFactories = ngModuleMeta.transitiveModule.entryComponents;\n  var /** @type {?} */
bootstrapComponents = ngModuleMeta.bootstrapComponents;\n  var /** @type {?} */ providerParser = new
NgModuleProviderAnalyzer(this.reflector, ngModuleMeta, extraProviders, sourceSpan);\n  var /** @type {?} */
providerDefs = [componentFactoryResolverProviderDef(this.reflector, ctx, 0 /* None */,
entryComponentFactories)]\n    .concat(providerParser.parse().map(function (provider) { return
providerDef(ctx, provider); }));\n  var /** @type {?} */ providerExpr = _a.providerExpr,
depsExpr = _a.depsExpr, flags = _a.flags, tokenExpr = _a.tokenExpr;\n  return
importExpr(Identifiers.moduleProviderDef).callFn([\n    literal(flags), tokenExpr, providerExpr, depsExpr\n
]);\n  var /** @type {?} */ ngModuleDef =
importExpr(Identifiers.moduleDef).callFn([literalArr(providerDefs)];\n  var /** @type {?} */
ngModuleDefFactory = fn([new FnParam(/** @type {?} */ ((LOG_VAR.name))), [new
ReturnStatement(ngModuleDef)], INFERRED_TYPE);\n  var /** @type {?} */ ngModuleFactoryVar =
identifierName(ngModuleMeta.type) + \"NgFactory\";\n  this._createNgModuleFactory(ctx,
ngModuleMeta.type.reference, importExpr(Identifiers.createModuleFactory).callFn([\n
ctx.importExpr(ngModuleMeta.type.reference),\n    literalArr(bootstrapComponents.map(function (id) { return
ctx.importExpr(id.reference); })),\n    ngModuleDefFactory\n  ]));\n  if (ngModuleMeta.id) {\n
var /** @type {?} */ registerFactoryStmt = importExpr(Identifiers.RegisterModuleFactoryFn)\n
.callFn([literal(ngModuleMeta.id), variable(ngModuleFactoryVar)])\n    .toStmt();\n  ctx.statements.push(registerFactoryStmt);\n  }\n  return new
NgModuleCompileResult(ngModuleFactoryVar);\n  };\n
/**\n * @param {?} ctx\n * @param {?} ngModuleReference\n * @return {?} */\n
NgModuleCompiler.prototype.createStub = /**\n * @param
{?} ctx\n * @param {?} ngModuleReference\n * @return {?} */\n */\n function (ctx, ngModuleReference)
{\n  this._createNgModuleFactory(ctx, ngModuleReference, NULL_EXPR);\n  };\n
/**\n * @param {?} ctx\n * @param {?} reference\n * @param {?} value\n * @return {?} */\n
NgModuleCompiler.prototype._createNgModuleFactory = /**\n * @param {?} ctx\n * @param {?}
reference\n * @param {?} value\n * @return {?} */\n */\n function (ctx, reference, value) {\n  var /**
@type {?} */ ngModuleFactoryVar = identifierName({ reference: reference }) + \"NgFactory\";\n  var /**

```

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@type {?} */ ngModuleFactoryStmt = variable(ngModuleFactoryVar)\n      .set(value)\n
.toDeclStmt(importType(Identifiers.NgModuleFactory, [/** @type {?} */
((expressionType(ctx.importExpr(reference))))), [TypeModifier.Const]), [StmtModifier.Final,
StmtModifier.Exported]);\n    ctx.statements.push(ngModuleFactoryStmt);\n  };\n  return
NgModuleCompiler;\n})();\n\n/**\n * @fileoverview added by tsickle\n * @suppress {checkTypes} checked by
tsc\n */\n\n * @license\n * Copyright Google Inc. All Rights Reserved.\n * Use of this source code is
governed by an MIT-style license that can be\n * found in the LICENSE file at https://angular.io/license\n */\n\n * Resolves types to {\n * @link NgModule}.\n */\n\n * @nvar NgModuleResolver = /** @class */ (function () {\n  function
NgModuleResolver(_reflector) {\n    this._reflector = _reflector;\n  }\n  /**\n   * @param {?} type\n   *
@return {?} \n   */\n   * @nvar NgModuleResolver.prototype.isNgModule = /**\n   * @param {?} type\n   * @return
{} \n   */\n   * @nvar function (type) { return this._reflector.annotations(type).some(createNgModule.isTypeOf); }\n
/**\n   * @param {?} type\n   * @param {?=} throwIfNotFound\n   * @return {} \n   */\n   * @nvar
NgModuleResolver.prototype.resolve = /**\n   * @param {?} type\n   * @param {?=} throwIfNotFound\n   *
@return {} \n   */\n   * @nvar function (type, throwIfNotFound) {\n    if (throwIfNotFound === void 0) {\n
throwIfNotFound = true; }\n    var /** @type {?} */ ngModuleMeta = findLast(this._reflector.annotations(type),
createNgModule.isTypeOf);\n    if (ngModuleMeta) {\n      return ngModuleMeta;\n    }\n    else {\n      if
(throwIfNotFound) {\n        throw new Error("No NgModule metadata found for '" + stringify(type) +
"'.");\n      }\n      return null;\n    }\n  };\n  return NgModuleResolver;\n})();\n\n * @fileoverview
added by tsickle\n * @suppress {checkTypes} checked by tsc\n */\n\n * @license\n * Copyright Google Inc. All
Rights Reserved.\n * Use of this source code is governed by an MIT-style license that can be\n * found in the
LICENSE file at https://angular.io/license\n */\n\n https://docs.google.com/document/d/1U1RGAEhQwRypUTovF1KRlpiOFze0b-_2gc6fAH0KY0k/edit\n\n nvar
VERSION$1 = 3;\n nvar JS_B64_PREFIX = '# sourceMappingURL=data:application/json;base64,';\n nvar
SourceMapGenerator = /** @class */ (function () {\n  function SourceMapGenerator(file) {\n    if (file === void
0) { file = null; }\n    this.file = file;\n    this.sourcesContent = new Map();\n    this.lines = [];\n
this.lastCol0 = 0;\n    this.hasMappings = false;\n  }\n  // The content is `null` when the content is expected to
be loaded using the URL\n  /**\n   * @param {?} url\n   * @param {?=} content\n   * @return {} \n   */\n   * @nvar
SourceMapGenerator.prototype.addSource = /**\n   * @param {?} url\n   * @param {?=} content\n   * @return
{} \n   */\n   * @nvar function (url, content) {\n    if (content === void 0) { content = null; }\n    if
(!this.sourcesContent.has(url)) {\n      this.sourcesContent.set(url, content);\n    }\n    return this;\n  };\n
/**\n   * @return {} \n   */\n   * @nvar SourceMapGenerator.prototype.addLine = /**\n   * @return {} \n   */\n   * @nvar
function () {\n    this.lines.push([]);\n    this.lastCol0 = 0;\n    return this;\n  };\n  /**\n   * @param {?}
col0\n   * @param {?=} sourceUrl\n   * @param {?=} sourceLine0\n   * @param {?=} sourceCol0\n   *
@return {} \n   */\n   * @nvar SourceMapGenerator.prototype.addMapping = /**\n   * @param {?} col0\n   * @param
{?=} sourceUrl\n   * @param {?=} sourceLine0\n   * @param {?=} sourceCol0\n   * @return {} \n   */\n   * @nvar
function (col0, sourceUrl, sourceLine0, sourceCol0) {\n    if (!this.currentLine) {\n      throw new Error("A
line must be added before mappings can be added");\n    }\n    if (sourceUrl != null &&
!this.sourcesContent.has(sourceUrl)) {\n      throw new Error("Unknown source file '" + sourceUrl +
"'.");\n    }\n    if (col0 == null) {\n      throw new Error("The column in the generated code must be
provided");\n    }\n    if (col0 < this.lastCol0) {\n      throw new Error("Mapping should be added in output
order");\n    }\n    if (sourceUrl && (sourceLine0 == null || sourceCol0 == null)) {\n      throw new
Error("The source location must be provided when a source url is provided");\n    }\n    this.hasMappings =
true;\n    this.lastCol0 = col0;\n    this.currentLine.push({ col0: col0, sourceUrl: sourceUrl, sourceLine0:
sourceLine0, sourceCol0: sourceCol0 });\n    return this;\n  };\n\n  Object.defineProperty(SourceMapGenerator.prototype, "currentLine", {\n    get: /**\n   * @return {} \n   */\n   * @nvar
function () { return this.lines.slice(-1)[0]; },\n    enumerable: true,\n    configurable: true\n  });\n\n  /**\n   * @return {} \n   */\n   * @nvar SourceMapGenerator.prototype.toJSON = /**\n   * @return {} \n   */\n   * @nvar
function () {\n    var _this = this;\n    if (!this.hasMappings) {\n      return null;\n    }\n    var /** @type

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* @return {?} \n * \n EmitterVisitorContext.prototype.println = /** \n * @param {?=} from \n * @param
{?=} lastPart \n * @return {?} \n * \n function (from, lastPart) { \n if (lastPart === void 0) { lastPart = "";
} \n this.print(from || null, lastPart, true); \n }; \n /** \n * @return {?} \n * \n
EmitterVisitorContext.prototype.lineIsEmpty = /** \n * @return {?} \n * \n function () { return
this._currentLine.parts.length === 0; }; \n /** \n * @return {?} \n * \n
EmitterVisitorContext.prototype.lineLength = /** \n * @return {?} \n * \n function () { \n return
this._currentLine.indent * _INDENT_WITH.length + this._currentLine.partsLength; \n }; \n /** \n * @param
{?} from \n * @param {?} part \n * @param {?=} newLine \n * @return {?} \n * \n
EmitterVisitorContext.prototype.print = /** \n * @param {?} from \n * @param {?} part \n * @param {?=}
newLine \n * @return {?} \n * \n function (from, part, newLine) { \n if (newLine === void 0) { newLine =
false; } \n if (part.length > 0) { \n this._currentLine.parts.push(part); \n
this._currentLine.partsLength += part.length; \n this._currentLine.srcSpans.push(from && from.sourceSpan ||
null); \n } \n if (newLine) { \n this._lines.push(new _EmittedLine(this._indent)); \n } \n }; \n /** \n
* @return {?} \n * \n EmitterVisitorContext.prototype.removeEmptyLastLine = /** \n * @return
{?} \n * \n function () { \n if (this.lineIsEmpty()) { \n this._lines.pop(); \n } \n }; \n /** \n
* @return {?} \n * \n EmitterVisitorContext.prototype.incIndent = /** \n * @return {?} \n * \n function ()
{ \n this._indent++; \n if (this.lineIsEmpty()) { \n this._currentLine.indent = this._indent; \n } \n
}; \n /** \n * @return {?} \n * \n EmitterVisitorContext.prototype.decIndent = /** \n * @return {?} \n
* \n function () { \n this._indent--; \n if (this.lineIsEmpty()) { \n this._currentLine.indent =
this._indent; \n } \n }; \n /** \n * @param {?} clazz \n * @return {?} \n * \n
EmitterVisitorContext.prototype.pushClass = /** \n * @param {?} clazz \n * @return {?} \n * \n function
(clazz) { this._classes.push(clazz); }; \n /** \n * @return {?} \n * \n
EmitterVisitorContext.prototype.popClass = /** \n * @return {?} \n * \n function () { return /** @type {?} */
((this._classes.pop())); }; \n Object.defineProperty(EmitterVisitorContext.prototype, "currentClass", { \n get:
/** \n * @return {?} \n * \n function () { \n return this._classes.length > 0 ?
this._classes[this._classes.length - 1] : null; \n }, \n enumerable: true, \n configurable: true \n }); \n
/** \n * @return {?} \n * \n EmitterVisitorContext.prototype.toSource = /** \n * @return {?} \n * \n
function () { \n return this.sourceLines \n .map(function (l) { return l.parts.length > 0 ?
_createIndent(l.indent) + l.parts.join(" : "; }) \n .join("\n"); \n }; \n /** \n * @param {?} genFilePath \n
* @param {?=} startsAtLine \n * @return {?} \n * \n EmitterVisitorContext.prototype.toSourceMapGenerator
= /** \n * @param {?} genFilePath \n * @param {?=} startsAtLine \n * @return {?} \n * \n function
(genFilePath, startsAtLine) { \n if (startsAtLine === void 0) { startsAtLine = 0; } \n var /** @type {?} */
map = new SourceMapGenerator(genFilePath); \n var /** @type {?} */ firstOffsetMapped = false; \n var /**
@type {?} */ mapFirstOffsetIfNeeded = function () { \n if (!firstOffsetMapped) { \n // Add a single
space so that tools won't try to load the file from disk. \n // Note: We are using virtual urls like `ng://`, so
we have to \n // provide a content here. \n map.addSource(genFilePath, ' ').addMapping(0,
genFilePath, 0, 0); \n firstOffsetMapped = true; \n } \n }; \n for (var /** @type {?} */ i = 0; i
< startsAtLine; i++) { \n map.addLine(); \n mapFirstOffsetIfNeeded(); \n } \n
this.sourceLines.forEach(function (line, lineIdx) { \n map.addLine(); \n var /** @type {?} */ spans =
line.srcSpans; \n var /** @type {?} */ parts = line.parts; \n var /** @type {?} */ col0 = line.indent *
_INDENT_WITH.length; \n var /** @type {?} */ spanIdx = 0; \n // skip leading parts without source
spans \n while (spanIdx < spans.length && !spans[spanIdx]) { \n col0 += parts[spanIdx].length; \n
spanIdx++; \n } \n if (spanIdx < spans.length && lineIdx === 0 && col0 === 0) { \n
firstOffsetMapped = true; \n } \n else { \n mapFirstOffsetIfNeeded(); \n } \n while
(spanIdx < spans.length) { \n var /** @type {?} */ span = /** @type {?} */ ((spans[spanIdx])); \n
var /** @type {?} */ source = span.start.file; \n var /** @type {?} */ sourceLine = span.start.line; \n
var /** @type {?} */ sourceCol = span.start.col; \n map.addSource(source.url, source.content) \n
.addMapping(col0, source.url, sourceLine, sourceCol); \n col0 += parts[spanIdx].length; \n

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spanIdx++;
// assign parts without span or the same span to the previous segment
while
(spanIdx < spans.length && (span === spans[spanIdx] || !spans[spanIdx])) {
    col0 +=
    parts[spanIdx].length;
    spanIdx++;
}
return map;
}
/**
 * @param {?} count
 * @return {?}
 */
EmitterVisitorContext.prototype.setPreambleLineCount = /**
 * @param {?} count
 * @return {?}
 */
function (count) {
    return this._preambleLineCount = count;
};
/**
 * @param {?} line
 * @param {?} column
 * @return {?}
 */
EmitterVisitorContext.prototype.spanOf = /**
 * @param {?} line
 * @param {?} column
 * @return {?}
 */
function (line, column) {
    var /** @type {?} */ emittedLine = this._lines[line -
    this._preambleLineCount];
    if (emittedLine) {
        var /** @type {?} */ columnsLeft = column -
        _createIndent(emittedLine.indent).length;
        for (var /** @type {?} */ partIndex = 0; partIndex <
        emittedLine.parts.length; partIndex++) {
            var /** @type {?} */ part = emittedLine.parts[partIndex];
            if (part.length > columnsLeft) {
                return emittedLine.srcSpans[partIndex];
            }
            columnsLeft -= part.length;
        }
        return null;
    }
};
Object.defineProperty(EmitterVisitorContext.prototype, "sourceLines", {
    get: /**
 * @return {?}
 */
function () {
    if (this._lines.length && this._lines[this._lines.length - 1].parts.length === 0) {
        return this._lines.slice(0, -1);
    }
    return this._lines;
},
    enumerable: true,
    configurable: true
});
return EmitterVisitorContext;
}
}
/**
 * @abstract
 */
AbstractEmitterVisitor = /** @class */ (function () {
    function AbstractEmitterVisitor(_escapeDollarInStrings) {
        this._escapeDollarInStrings = _escapeDollarInStrings;
    }
    /**
 * @param {?} stmt
 * @param {?} ctx
 * @return {?}
 */
    AbstractEmitterVisitor.prototype.visitExpressionStmt = /**
 * @param {?} stmt
 * @param {?} ctx
 * @return {?}
 */
function (stmt, ctx) {
        stmt.expr.visitExpression(this, ctx);
        ctx.println(stmt, ';');
        return null;
    };
    /**
 * @param {?} stmt
 * @param {?} ctx
 * @return {?}
 */
    AbstractEmitterVisitor.prototype.visitReturnStmt = /**
 * @param {?} stmt
 * @param {?} ctx
 * @return {?}
 */
function (stmt, ctx) {
        ctx.print(stmt, "return ");
        stmt.value.visitExpression(this, ctx);
        ctx.println(stmt, ';');
        return null;
    };
    /**
 * @param {?} stmt
 * @param {?} ctx
 * @return {?}
 */
    AbstractEmitterVisitor.prototype.visitIfStmt = /**
 * @param {?} stmt
 * @param {?} ctx
 * @return {?}
 */
function (stmt, ctx) {
        ctx.print(stmt, "if (");
        stmt.condition.visitExpression(this, ctx);
        ctx.print(stmt, ") {");
        var /** @type {?} */ hasElseCase = stmt.falseCase != null &&
        stmt.falseCase.length > 0;
        if (stmt.trueCase.length <= 1 && !hasElseCase) {
            ctx.print(stmt, "\n");
            this.visitAllStatements(stmt.trueCase, ctx);
            ctx.removeEmptyLastLine();
            ctx.print(stmt, "\n");
        }
        else {
            ctx.println();
            ctx.incIndent();
            this.visitAllStatements(stmt.trueCase, ctx);
            ctx.decIndent();
            if (hasElseCase) {
                ctx.println(stmt, " } else {");
                ctx.incIndent();
                this.visitAllStatements(stmt.falseCase, ctx);
                ctx.decIndent();
            }
            ctx.println(stmt, "\n");
            return null;
        };
    };
    /**
 * @param {?} stmt
 * @param {?} ctx
 * @return {?}
 */
    AbstractEmitterVisitor.prototype.visitThrowStmt = /**
 * @param {?} stmt
 * @param {?} ctx
 * @return {?}
 */
function (stmt, ctx) {
        ctx.print(stmt, "throw ");
        stmt.error.visitExpression(this,
        ctx);
        ctx.println(stmt, ";");
        return null;
    };
    /**
 * @param {?} stmt
 * @param {?} ctx
 * @return {?}
 */
    AbstractEmitterVisitor.prototype.visitCommentStmt = /**
 * @param {?} stmt
 * @param {?} ctx
 * @return {?}
 */
function (stmt, ctx) {
        var /** @type {?} */ lines =
        stmt.comment.split("\n");
        lines.forEach(function (line) {
            ctx.println(stmt, "//" + line);
        });
        return null;
    };
    /**
 * @param {?} expr
 * @param {?} ctx
 * @return {?}
 */
    AbstractEmitterVisitor.prototype.visitWriteVarExpr = /**
 * @param {?} expr
 * @param {?} ctx
 * @return {?}
 */
function (expr, ctx) {
        var /** @type {?} */ lineWasEmpty = ctx.lineIsEmpty();
        if (!lineWasEmpty) {
            ctx.print(expr, '(');
        }
        ctx.print(expr, expr.name + '=' + );
        expr.value.visitExpression(this, ctx);
        if (!lineWasEmpty) {
            ctx.print(expr, ')');
        }
        return
        null;
    };
    /**
 * @param {?} expr
 * @param {?} ctx
 * @return {?}
 */
}
}

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AbstractEmitterVisitor.prototype.visitWriteKeyExpr = /**\n * @param {?} expr\n * @param {?} ctx\n * @return {?}\n */\n function (expr, ctx) {\n var /** @type {?} */ lineWasEmpty = ctx.lineIsEmpty();\n if (!lineWasEmpty) {\n ctx.print(expr, '(');\n } \n expr.receiver.visitExpression(this, ctx);\n ctx.print(expr, '[');\n expr.index.visitExpression(this, ctx);\n ctx.print(expr, '=');\n expr.value.visitExpression(this, ctx);\n if (!lineWasEmpty) {\n ctx.print(expr, ')');\n } \n return null;\n };\n /**\n * @param {?} expr\n * @param {?} ctx\n * @return {?}\n */\n\nAbstractEmitterVisitor.prototype.visitWritePropExpr = /**\n * @param {?} expr\n * @param {?} ctx\n * @return {?}\n */\n function (expr, ctx) {\n var /** @type {?} */ lineWasEmpty = ctx.lineIsEmpty();\n if (!lineWasEmpty) {\n ctx.print(expr, '(');\n } \n expr.receiver.visitExpression(this, ctx);\n ctx.print(expr, '\\.\" + expr.name + \" = \");\n expr.value.visitExpression(this, ctx);\n if (!lineWasEmpty) {\n ctx.print(expr, ')');\n } \n return null;\n };\n /**\n * @param {?} expr\n * @param {?} ctx\n * @return {?}\n */\n\nAbstractEmitterVisitor.prototype.visitInvokeMethodExpr = /**\n * @param {?} expr\n * @param {?} ctx\n * @return {?}\n */\n function (expr, ctx) {\n expr.receiver.visitExpression(this, ctx);\n var /** @type {?} */ name = expr.name;\n if (expr.builtin != null) {\n name = this.getBuiltinMethodName(expr.builtin);\n if (name == null) {\n // some builtins just mean to skip the call.\n return null;\n } \n } \n ctx.print(expr, '\\.\" + name + \"(\");\n this.visitAllExpressions(expr.args, ctx, '\\,');\n ctx.print(expr, '\\)');\n return null;\n };\n /**\n * @param {?} expr\n * @param {?} ctx\n * @return {?}\n */\n\nAbstractEmitterVisitor.prototype.visitInvokeFunctionExpr = /**\n * @param {?} expr\n * @param {?} ctx\n * @return {?}\n */\n function (expr, ctx) {\n expr.fn.visitExpression(this, ctx);\n ctx.print(expr, '\\(');\n this.visitAllExpressions(expr.args, ctx, ',');\n ctx.print(expr, '\\)');\n return null;\n };\n /**\n * @param {?} ast\n * @param {?} ctx\n * @return {?}\n */\n\nAbstractEmitterVisitor.prototype.visitReadVarExpr = /**\n * @param {?} ast\n * @param {?} ctx\n * @return {?}\n */\n function (ast, ctx) {\n var /** @type {?} */ varName = /** @type {?} */ ((ast.name));\n if (ast.builtin != null) {\n switch (ast.builtin) {\n case BuiltinVar.Super:\n varName = 'super';\n break;\n case BuiltinVar.This:\n varName = 'this';\n break;\n case BuiltinVar.CatchError:\n varName = /** @type {?} */ ((CATCH_ERROR_VAR$1.name));\n break;\n case BuiltinVar.CatchStack:\n varName = /** @type {?} */ ((CATCH_STACK_VAR$1.name));\n break;\n default:\n throw new Error(\"Unknown builtin variable \" + ast.builtin);\n } \n } \n ctx.print(ast, varName);\n return null;\n };\n /**\n * @param {?} ast\n * @param {?} ctx\n * @return {?}\n */\n\nAbstractEmitterVisitor.prototype.visitInstantiateExpr = /**\n * @param {?} ast\n * @param {?} ctx\n * @return {?}\n */\n function (ast, ctx) {\n ctx.print(ast, \"new \");\n ast.classExpr.visitExpression(this, ctx);\n ctx.print(ast, \"(\");\n this.visitAllExpressions(ast.args, ctx, ',');\n ctx.print(ast, '\\)');\n return null;\n };\n /**\n * @param {?} ast\n * @param {?} ctx\n * @return {?}\n */\n\nAbstractEmitterVisitor.prototype.visitLiteralExpr = /**\n * @param {?} ast\n * @param {?} ctx\n * @return {?}\n */\n function (ast, ctx) {\n var /** @type {?} */ value = ast.value;\n if (typeof value === 'string') {\n ctx.print(ast, escapeIdentifier(value, this._escapeDollarInStrings));\n } \n else {\n ctx.print(ast, '\\\" + value);\n } \n return null;\n };\n /**\n * @param {?} ast\n * @param {?} ctx\n * @return {?}\n */\n\nAbstractEmitterVisitor.prototype.visitConditionalExpr = /**\n * @param {?} ast\n * @param {?} ctx\n * @return {?}\n */\n function (ast, ctx) {\n ctx.print(ast, '\\(');\n ast.condition.visitExpression(this, ctx);\n ctx.print(ast, '?');\n ast.trueCase.visitExpression(this, ctx);\n ctx.print(ast, ':');\n /** @type {?} */ ((ast.falseCase)).visitExpression(this, ctx);\n ctx.print(ast, '\\)');\n return null;\n };\n /**\n * @param {?} ast\n * @param {?} ctx\n * @return {?}\n */\n\nAbstractEmitterVisitor.prototype.visitNotExpr = /**\n * @param {?} ast\n * @param {?} ctx\n * @return {?}\n */\n function (ast, ctx) {\n ctx.print(ast, '!');\n ast.condition.visitExpression(this, ctx);\n return null;\n };\n /**\n * @param {?} ast\n * @param {?} ctx\n * @return {?}\n */\n\nAbstractEmitterVisitor.prototype.visitAssertNotNullExpr = /**\n * @param {?} ast\n * @param {?} ctx\n * @return {?}\n */

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@return {?} \n * \n function (ast, ctx) { \n ast.condition.visitExpression(this, ctx); \n return null; \n }; \n
/** \n * @param {?} ast \n * @param {?} ctx \n * @return {?} \n * \n
AbstractEmitterVisitor.prototype.visitBinaryOperatorExpr = /** \n * @param {?} ast \n * @param {?} ctx \n
* @return {?} \n * \n function (ast, ctx) { \n var /** @type {?} */ opStr; \n switch (ast.operator) { \n
case BinaryOperator.Equals: \n opStr = '==='; \n break; \n case BinaryOperator.Identical: \n
opStr = '==='; \n break; \n case BinaryOperator.NotEquals: \n opStr = '!=='; \n
break; \n case BinaryOperator.NotIdentical: \n opStr = '!=='; \n break; \n case
BinaryOperator.And: \n opStr = '&&'; \n break; \n case BinaryOperator.Or: \n opStr = '||'; \n
break; \n case BinaryOperator.Plus: \n opStr = '+'; \n break; \n case
BinaryOperator.Minus: \n opStr = '-'; \n break; \n case BinaryOperator.Divide: \n
opStr = '/'; \n break; \n case BinaryOperator.Multiply: \n opStr = '*'; \n break; \n
case BinaryOperator.Modulo: \n opStr = '%'; \n break; \n case BinaryOperator.Lower: \n
opStr = '<'; \n break; \n case BinaryOperator.LowerEquals: \n opStr = '<='; \n
break; \n case BinaryOperator.Bigger: \n opStr = '>'; \n break; \n case
BinaryOperator.BiggerEquals: \n opStr = '>='; \n break; \n default: \n throw new
Error("Unknown operator '" + ast.operator); \n } \n ctx.print(ast, "("); \n ast.lhs.visitExpression(this,
ctx); \n ctx.print(ast, " " + opStr + " "); \n ast.rhs.visitExpression(this, ctx); \n ctx.print(ast, ")"); \n
return null; \n }; \n /** \n * @param {?} ast \n * @param {?} ctx \n * @return {?} \n * \n
AbstractEmitterVisitor.prototype.visitReadPropExpr = /** \n * @param {?} ast \n * @param {?} ctx \n *
@return {?} \n * \n function (ast, ctx) { \n ast.receiver.visitExpression(this, ctx); \n
ctx.print(ast, "."); \n ctx.print(ast, ast.name); \n return null; \n }; \n /** \n * @param {?} ast \n * @param {?} ctx \n *
@return {?} \n * \n AbstractEmitterVisitor.prototype.visitReadKeyExpr = /** \n * @param {?} ast \n *
@param {?} ctx \n * @return {?} \n * \n function (ast, ctx) { \n ast.receiver.visitExpression(this, ctx); \n
ctx.print(ast, "["); \n ast.index.visitExpression(this, ctx); \n ctx.print(ast, "]"); \n return null; \n }; \n
/** \n * @param {?} ast \n * @param {?} ctx \n * @return {?} \n * \n
AbstractEmitterVisitor.prototype.visitLiteralArrayExpr = /** \n * @param {?} ast \n * @param {?} ctx \n *
@return {?} \n * \n function (ast, ctx) { \n ctx.print(ast, "["); \n this.visitAllExpressions(ast.entries, ctx,
'); \n ctx.print(ast, "]"); \n return null; \n }; \n /** \n * @param {?} ast \n * @param {?} ctx \n *
@return {?} \n * \n AbstractEmitterVisitor.prototype.visitLiteralMapExpr = /** \n * @param {?} ast \n *
@param {?} ctx \n * @return {?} \n * \n function (ast, ctx) { \n var _this = this; \n ctx.print(ast,
"{"); \n this.visitAllObjects(function (entry) { \n ctx.print(ast, escapeIdentifier(entry.key,
_this._escapeDollarInStrings, entry.quoted) + ":"); \n entry.value.visitExpression(_this, ctx); \n },
ast.entries, ctx, '); \n ctx.print(ast, "}"); \n return null; \n }; \n /** \n * @param {?} ast \n * @param
{?} ctx \n * @return {?} \n * \n AbstractEmitterVisitor.prototype.visitCommaExpr = /** \n * @param {?}
ast \n * @param {?} ctx \n * @return {?} \n * \n function (ast, ctx) { \n ctx.print(ast, ','); \n
this.visitAllExpressions(ast.parts, ctx, '); \n ctx.print(ast, '); \n return null; \n }; \n /** \n * @param {?}
expressions \n * @param {?} ctx \n * @param {?} separator \n * @return {?} \n * \n
AbstractEmitterVisitor.prototype.visitAllExpressions = /** \n * @param {?} expressions \n * @param {?} ctx \n
* @param {?} separator \n * @return {?} \n * \n function (expressions, ctx, separator) { \n var _this =
this; \n this.visitAllObjects(function (expr) { return expr.visitExpression(_this, ctx); }, expressions, ctx,
separator); \n }; \n /** \n * @template T \n * @param {?} handler \n * @param {?} expressions \n *
@param {?} ctx \n * @param {?} separator \n * @return {?} \n * \n
AbstractEmitterVisitor.prototype.visitAllObjects = /** \n * @template T \n * @param {?} handler \n *
@param {?} expressions \n * @param {?} ctx \n * @param {?} separator \n * @return {?} \n * \n function
(handler, expressions, ctx, separator) { \n var /** @type {?} */ incrementedIndent = false; \n for (var /**
@type {?} */ i = 0; i < expressions.length; i++) { \n if (i > 0) { \n if (ctx.lineLength() > 80) { \n
ctx.print(null, separator, true); \n if (!incrementedIndent) { \n // continuation are
marked with double indent. \n ctx.incIndent(); \n ctx.incIndent(); \n

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incrementedIndent = true;\n          }\n          }\n          else {\n          ctx.print(null, separator,\nfalse);\n          }\n          }\n          handler(expressions[i]);\n          }\n          if (incrementedIndent) {\n          //\n          continuation are marked with double indent.\n          ctx.decIndent();\n          ctx.decIndent();\n          }\n          };\n          /**\n          * @param {?} statements\n          * @param {?} ctx\n          * @return {?}\n          */\n          AbstractEmitterVisitor.prototype.visitAllStatements = /**\n          * @param {?} statements\n          * @param {?} ctx\n          * @return {?}\n          */\n          function (statements, ctx) {\n          var _this = this;\n          statements.forEach(function\n          (stmt) { return stmt.visitStatement(_this, ctx); });\n          }\n          return AbstractEmitterVisitor;\n          });\n          /**\n          * @param\n          {?} input\n          * @param {?} escapeDollar\n          * @param {?=} alwaysQuote\n          * @return {?}\n          */\n          function\n          escapeIdentifier(input, escapeDollar, alwaysQuote) {\n          if (alwaysQuote === void 0) { alwaysQuote = true; }\n          if\n          (input == null) {\n          return null;\n          }\n          var /** @type {?} */ body =\n          input.replace(_SINGLE_QUOTE_ESCAPE_STRING_RE, function () {\n          var match = [];\n          for (var _i = 0;\n          _i < arguments.length; _i++) {\n          match[_i] = arguments[_i];\n          }\n          if (match[0] === '$') {\n          return escapeDollar ? '\\\\$' : '$';\n          }\n          else if (match[0] === '\\n') {\n          return '\\\\n';\n          }\n          else if\n          (match[0] === '\\r') {\n          return '\\\\r';\n          }\n          else {\n          return '\\\\' + match[0];\n          }\n          });\n          var /** @type {?} */ requiresQuotes = alwaysQuote || !_LEGAL_IDENTIFIER_RE.test(body);\n          return\n          requiresQuotes ? '\"' + body + '\"' : body;\n          });\n          /**\n          * @param {?} count\n          * @return {?}\n          */\n          function\n          _createIndent(count) {\n          var /** @type {?} */ res = '';\n          for (var /** @type {?} */ i = 0; i < count; i++) {\n          res += _INDENT_WITH;\n          }\n          return res;\n          });\n          /**\n          * @fileoverview added by tsickle\n          * @suppress\n          {checkTypes}\n          checked by tsc\n          */\n          /**\n          * @license\n          * Copyright Google Inc. All Rights Reserved.\n          */\n          /**\n          * Use of\n          this source code is governed by an MIT-style license that can be\n          * found in the LICENSE file at\n          https://angular.io/license\n          */\n          /**\n          * @param {?} ast\n          * @return {?}\n          */\n          function\n          debugOutputAstAsTypeScript(ast) {\n          var /** @type {?} */ converter = new _TsEmitterVisitor();\n          var /**\n          @type {?} */ ctx = EmitterVisitorContext.createRoot();\n          var /** @type {?} */ asts = Array.isArray(ast) ? ast :\n          [ast];\n          asts.forEach(function (ast) {\n          if (ast instanceof Statement) {\n          ast.visitStatement(converter,\n          ctx);\n          }\n          else if (ast instanceof Expression) {\n          ast.visitExpression(converter, ctx);\n          }\n          else if (ast instanceof Type$1) {\n          ast.visitType(converter, ctx);\n          }\n          else {\n          throw new\n          Error(\"Don't know how to print debug info for \" + ast);\n          }\n          });\n          return ctx.toSource();\n          });\n          /**\n          * @class */\n          (function () {\n          function TypeScriptEmitter() {\n          }\n          /**\n          * @param\n          {?} genFilePath\n          * @param {?} stmts\n          * @param {?=} preamble\n          * @param {?=} emitSourceMaps\n          * @param {?=} referenceFilter\n          * @return {?}\n          */\n          TypeScriptEmitter.prototype.emitStatementsAndContext = /**\n          * @param {?} genFilePath\n          * @param {?} stmts\n          * @param {?=} preamble\n          * @param {?=} emitSourceMaps\n          * @param {?=} referenceFilter\n          * @return {?}\n          */\n          function (genFilePath, stmts, preamble, emitSourceMaps, referenceFilter) {\n          if\n          (preamble === void 0) { preamble = '';\n          }\n          if (emitSourceMaps === void 0) { emitSourceMaps = true; }\n          var /** @type {?} */ converter = new _TsEmitterVisitor(referenceFilter);\n          var /** @type {?} */ ctx =\n          EmitterVisitorContext.createRoot();\n          converter.visitAllStatements(stmts, ctx);\n          var /** @type {?} */\n          preambleLines = preamble ? preamble.split(\"\\n\") : [];\n          converter.reexports.forEach(function (reexports,\n          exportedModuleName) {\n          var /** @type {?} */ reexportsCode = reexports.map(function (reexport) { return\n          reexport.name + \" as \" + reexport.as; }).join(',');\n          preambleLines.push(\"export {\" + reexportsCode + \"}\n          from \" + exportedModuleName + \";\");\n          });\n          converter.importsWithPrefixes.forEach(function (prefix,\n          importedModuleName) {\n          // Note: can't write the real word for import as it screws up system.js auto\n          detection...\n          preambleLines.push(\"imp\" +\n          (\"ort * as \" + prefix + \" from \" +\n          importedModuleName + \";\");\n          });\n          var /** @type {?} */ sm = emitSourceMaps ?\n          ctx.toSourceMapGenerator(genFilePath, preambleLines.length).toJsComment() :\n          '';\n          var /** @type\n          {?} */ lines = preambleLines.concat([ctx.toSource(), sm]);\n          if (sm) {\n          // always add a newline at the\n          end, as some tools have bugs without it.\n          lines.push('');\n          }\n          ctx.setPreambleLineCount(preambleLines.length);\n          return { sourceText: lines.join(\"\\n\"), context: ctx }; \n          });\n          /**\n          * @param {?} genFilePath\n          * @param {?} stmts\n          * @param {?=} preamble\n          * @return {?}\n          */

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*\n  TypeScriptEmitter.prototype.emitStatements = /**\n   * @param {?} genFilePath\n   * @param {?} stmts\n   * @param {?=} preamble\n   * @return {?}\n   */\n  function (genFilePath, stmts, preamble) {\n    if\n    (preamble === void 0) { preamble = ""; }\n    return this.emitStatementsAndContext(genFilePath, stmts,\n    preamble).sourceText;\n  };\n  return TypeScriptEmitter;\n})();\nvar _TsEmitterVisitor = /** @class */ (function\n    (_super) {\n    __extends(_TsEmitterVisitor, _super);\n    function _TsEmitterVisitor(referenceFilter) {\n    var\n    _this = _super.call(this, false) || this;\n    _this.referenceFilter = referenceFilter;\n    _this.typeExpression = 0;\n    _this.importsWithPrefixes = new Map();\n    _this.reexports = new Map();\n    return _this;\n    }\n    /**\n     * @param {?} t\n     * @param {?} ctx\n     * @param {?=} defaultType\n     * @return {?}\n     */\n    _TsEmitterVisitor.prototype.visitType = /**\n     * @param {?} t\n     * @param {?} ctx\n     * @param {?=} defaultType\n     * @return {?}\n     */\n     function (t, ctx, defaultType) {\n     if (defaultType === void 0) {\n     defaultType = 'any';\n     }\n     if (t) {\n     this.typeExpression++;\n     t.visitType(this, ctx);\n     this.typeExpression--;\n     }\n     else {\n     ctx.print(null, defaultType);\n     }\n     };\n     /**\n     * @param {?} ast\n     * @param {?} ctx\n     * @return {?}\n     */\n     _TsEmitterVisitor.prototype.visitLiteralExpr = /**\n     * @param {?} ast\n     * @param {?} ctx\n     * @return {?}\n     */\n     function (ast, ctx) {\n     var /**\n     @type {?} */ value = ast.value;\n     if (value == null && ast.type != INFERRED_TYPE) {\n     ctx.print(ast,\n     \"(\" + value + \" as any)\");\n     return null;\n     }\n     return _super.prototype.visitLiteralExpr.call(this, ast,\n     ctx);\n     };\n     // Temporary workaround to support strictNullCheck enabled consumers of ngc emit.\n     // In SNC\n     mode, [] have the type never[], so we cast here to any[].\n     // TODO: narrow the cast to a more explicit type, or use\n     a pattern that does not\n     // start with [].concat. see https://github.com/angular/angular/pull/11846\n     /**\n     * @param {?} ast\n     * @param {?} ctx\n     * @return {?}\n     */\n     _TsEmitterVisitor.prototype.visitLiteralArrayExpr = /**\n     * @param {?} ast\n     * @param {?} ctx\n     * @return {?}\n     */\n     function (ast, ctx) {\n     if (ast.entries.length === 0) {\n     ctx.print(ast, '(');\n     }\n     var /**\n     @type {?} */ result = _super.prototype.visitLiteralArrayExpr.call(this, ast, ctx);\n     if (ast.entries.length\n     === 0) {\n     ctx.print(ast, ' as any[]');\n     }\n     return result;\n     };\n     /**\n     * @param {?} ast\n     * @param {?} ctx\n     * @return {?}\n     */\n     _TsEmitterVisitor.prototype.visitExternalExpr = /**\n     * @param\n     {?} ast\n     * @param {?} ctx\n     * @return {?}\n     */\n     function (ast, ctx) {\n     this._visitIdentifier(ast.value,\n     ast.typeParams, ctx);\n     return null;\n     };\n     /**\n     * @param {?} ast\n     * @param {?} ctx\n     * @return\n     {?}\n     */\n     _TsEmitterVisitor.prototype.visitAssertNotNullExpr = /**\n     * @param {?} ast\n     * @param {?} ctx\n     * @return {?}\n     */\n     function (ast, ctx) {\n     var /**\n     @type {?} */ result =\n     _super.prototype.visitAssertNotNullExpr.call(this, ast, ctx);\n     ctx.print(ast, '!');\n     return result;\n     };\n     /**\n     * @param {?} stmt\n     * @param {?} ctx\n     * @return {?}\n     */\n     _TsEmitterVisitor.prototype.visitDeclareVarStmt = /**\n     * @param {?} stmt\n     * @param {?} ctx\n     * @return {?}\n     */\n     function (stmt, ctx) {\n     if (stmt.hasModifier(StmtModifier.Exported) && stmt.value\n     instanceof ExternalExpr &&\n     !stmt.type) {\n     // check for a reexport\n     var _a =\n     stmt.value.value, name_1 = _a.name, moduleName = _a.moduleName;\n     if (moduleName) {\n     var\n     /**\n     @type {?} */ reexports = this.reexports.get(moduleName);\n     if (!reexports) {\n     reexports =\n     [];\n     this.reexports.set(moduleName, reexports);\n     }\n     reexports.push({ name: /**\n     @type {?} */ ((name_1)), as: stmt.name });\n     return null;\n     }\n     }\n     if\n     (stmt.hasModifier(StmtModifier.Exported)) {\n     ctx.print(stmt, \"export \");\n     }\n     if\n     (stmt.hasModifier(StmtModifier.Final)) {\n     ctx.print(stmt, \"const\");\n     }\n     else {\n     ctx.print(stmt, \"var\");\n     }\n     ctx.print(stmt, \" \" + stmt.name);\n     this._printColonType(stmt.type,\n     ctx);\n     ctx.print(stmt, \" = \");\n     stmt.value.visitExpression(this, ctx);\n     ctx.println(stmt, \";\");\n     return null;\n     };\n     /**\n     * @param {?} ast\n     * @param {?} ctx\n     * @return {?}\n     */\n     _TsEmitterVisitor.prototype.visitCastExpr = /**\n     * @param {?} ast\n     * @param {?} ctx\n     * @return {?}\n     */\n     function (ast, ctx) {\n     ctx.print(ast, \"(<\");\n     /**\n     @type {?} */\n     ((ast.type)).visitType(this, ctx);\n     ctx.print(ast, \">\");\n     ast.value.visitExpression(this, ctx);\n     ctx.print(ast, \")\");\n     return null;\n     };\n     /**\n     * @param {?} ast\n     * @param {?} ctx\n     * @return {?}\n     */\n     _TsEmitterVisitor.prototype.visitInstantiateExpr = /**\n     * @param {?} ast\n     * @param {?} ctx\n     * @return

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{?}\n  *^\n  function (ast, ctx) {\n    ctx.print(ast, \"new \");\n    this.typeExpression++;\n    ast.classExpr.visitExpression(this, ctx);\n    this.typeExpression--;\n    ctx.print(ast, \"(\");\n    this.visitAllExpressions(ast.args, ctx, ',');\n    ctx.print(ast, \");\n    return null;\n  };\n  /**\n   * @param  

{?} stmt\n   * @param {?} ctx\n   * @return {?}\n   *^\n   _TsEmitterVisitor.prototype.visitDeclareClassStmt =  

/**\n   * @param {?} stmt\n   * @param {?} ctx\n   * @return {?}\n   *^\n   function (stmt, ctx) {\n    var  

_this = this;\n    ctx.pushClass(stmt);\n    if (stmt.hasModifier(StmtModifier.Exported)) {\n    ctx.print(stmt, \"export \");\n    }\n    ctx.print(stmt, \"class \" + stmt.name);\n    if (stmt.parent != null) {\n    ctx.print(stmt, \" extends \");\n    this.typeExpression++;\n    stmt.parent.visitExpression(this, ctx);\n    this.typeExpression--;\n    }\n    ctx.println(stmt, \" {\");\n    ctx.incIndent();\n    stmt.fields.forEach(function (field) { return _this._visitClassField(field, ctx); });\n    if (stmt.constructorMethod  

!= null) {\n    this._visitClassConstructor(stmt, ctx);\n    }\n    stmt.getters.forEach(function (getter) {  

return _this._visitClassGetter(getter, ctx); });\n    stmt.methods.forEach(function (method) { return  

_this._visitClassMethod(method, ctx); });\n    ctx.decIndent();\n    ctx.println(stmt, \"}\");\n    ctx.popClass();\n    return null;\n  };\n  /**\n   * @param {?} field\n   * @param {?} ctx\n   * @return {?}\n   *^\n   _TsEmitterVisitor.prototype._visitClassField = /**\n   * @param {?} field\n   * @param {?} ctx\n   *  

@return {?}\n   *^\n   function (field, ctx) {\n    if (field.hasModifier(StmtModifier.Private)) {\n    //  

comment out as a workaround for #10967\n    ctx.print(null, \"/*private*/\");\n    }\n    ctx.print(null,  

field.name);\n    this._printColonType(field.type, ctx);\n    ctx.println(null, \":\");\n  };\n  /**\n   * @param  

{?} getter\n   * @param {?} ctx\n   * @return {?}\n   *^\n   _TsEmitterVisitor.prototype._visitClassGetter =  

/**\n   * @param {?} getter\n   * @param {?} ctx\n   * @return {?}\n   *^\n   function (getter, ctx) {\n    if  

(getter.hasModifier(StmtModifier.Private)) {\n    ctx.print(null, \"private \");\n    }\n    ctx.print(null, \"get  

\" + getter.name + \"(\");\n    this._printColonType(getter.type, ctx);\n    ctx.println(null, \" {\");\n    ctx.incIndent();\n    this.visitAllStatements(getter.body, ctx);\n    ctx.decIndent();\n    ctx.println(null,  

\"}\");\n  };\n  /**\n   * @param {?} stmt\n   * @param {?} ctx\n   * @return {?}\n   *^\n  

_TsEmitterVisitor.prototype._visitClassConstructor = /**\n   * @param {?} stmt\n   * @param {?} ctx\n   *  

@return {?}\n   *^\n   function (stmt, ctx) {\n    ctx.print(stmt, \"constructor(\");\n    this._visitParams(stmt.constructorMethod.params, ctx);\n    ctx.println(stmt, \" {\");\n    ctx.incIndent();\n    this.visitAllStatements(stmt.constructorMethod.body, ctx);\n    ctx.decIndent();\n    ctx.println(stmt, \"}\");\n  };\n  /**\n   * @param {?} method\n   * @param {?} ctx\n   * @return {?}\n   *^\n  

_TsEmitterVisitor.prototype._visitClassMethod = /**\n   * @param {?} method\n   * @param {?} ctx\n   *  

@return {?}\n   *^\n   function (method, ctx) {\n    if (method.hasModifier(StmtModifier.Private)) {\n    ctx.print(null, \"private \");\n    }\n    ctx.print(null, method.name + \"(\");\n    this._visitParams(method.params, ctx);\n    ctx.print(null, \");\n    this._printColonType(method.type, ctx,  

'void');\n    ctx.println(null, \" {\");\n    ctx.incIndent();\n    this.visitAllStatements(method.body, ctx);\n    ctx.decIndent();\n    ctx.println(null, \"}\");\n  };\n  /**\n   * @param {?} ast\n   * @param {?} ctx\n   *  

@return {?}\n   *^\n   _TsEmitterVisitor.prototype.visitFunctionExpr = /**\n   * @param {?} ast\n   * @param  

{?} ctx\n   * @return {?}\n   *^\n   function (ast, ctx) {\n    ctx.print(ast, \"(\");\n    this._visitParams(ast.params, ctx);\n    ctx.print(ast, \");\n    this._printColonType(ast.type, ctx, 'void');\n    ctx.println(ast, \" => \");\n    ctx.incIndent();\n    this.visitAllStatements(ast.statements, ctx);\n    ctx.decIndent();\n    ctx.print(ast, \"}\");\n    return null;\n  };\n  /**\n   * @param {?} stmt\n   * @param  

{?} ctx\n   * @return {?}\n   *^\n   _TsEmitterVisitor.prototype.visitDeclareFunctionStmt = /**\n   * @param  

{?} stmt\n   * @param {?} ctx\n   * @return {?}\n   *^\n   function (stmt, ctx) {\n    if  

(stmt.hasModifier(StmtModifier.Exported)) {\n    ctx.print(stmt, \"export \");\n    }\n    ctx.print(stmt,  

\"function \" + stmt.name + \"(\");\n    this._visitParams(stmt.params, ctx);\n    ctx.print(stmt, \")\");\n    this._printColonType(stmt.type, ctx, 'void');\n    ctx.println(stmt, \" {\");\n    ctx.incIndent();\n    this.visitAllStatements(stmt.statements, ctx);\n    ctx.decIndent();\n    ctx.println(stmt, \"}\");\n    return  

null;\n  };\n  /**\n   * @param {?} stmt\n   * @param {?} ctx\n   * @return {?}\n   *^\n  

_TsEmitterVisitor.prototype.visitTryCatchStmt = /**\n   * @param {?} stmt\n   * @param {?} ctx\n   * @return

```

```

{?}\n  *\n  function (stmt, ctx) {\n    ctx.println(stmt, \"try {\");\n    ctx.incIndent();\n    this.visitAllStatements(stmt.bodyStmts, ctx);\n    ctx.decIndent();\n    ctx.println(stmt, \"} catch (\" +\n    CATCH_ERROR_VAR$1.name + \") {\");\n    ctx.incIndent();\n    var /** @type {?} */ catchStmts = [/**\n    @type {?} */ (CATCH_STACK_VAR$1.set(CATCH_ERROR_VAR$1.prop('stack', null)).toDeclStmt(null, [\n    StmtModifier.Final\n    ])].concat(stmt.catchStmts);\n    this.visitAllStatements(catchStmts, ctx);\n    ctx.decIndent();\n    ctx.println(stmt, \"}\");\n    return null;\n  };\n  /**\n   * @param {?} type\n   * @param {?} ctx\n   * @return {?}\n   *\n   * _TsEmitterVisitor.prototype.visitBuiltinType = /**\n   * @param {?} type\n   * @param {?} ctx\n   * @return {?}\n   *\n   * function (type, ctx) {\n    var /** @type {?} */\n    typeStr;\n    switch (type.name) {\n      case BuiltinTypeName.Bool:\n        typeStr = 'boolean';\n        break;\n      case BuiltinTypeName.Dynamic:\n        typeStr = 'any';\n        break;\n      case\n    BuiltinTypeName.Function:\n        typeStr = 'Function';\n        break;\n      case\n    BuiltinTypeName.Number:\n        typeStr = 'number';\n        break;\n      case BuiltinTypeName.Int:\n        typeStr = 'number';\n        break;\n      case BuiltinTypeName.String:\n        typeStr = 'string';\n        break;\n      default:\n        throw new Error(\"Unsupported builtin type \" + type.name);\n    }\n    ctx.print(null, typeStr);\n    return null;\n  };\n  /**\n   * @param {?} ast\n   * @param {?} ctx\n   * @return {?}\n   *\n   * _TsEmitterVisitor.prototype.visitExpressionType = /**\n   * @param {?} ast\n   * @param {?} ctx\n   * @return {?}\n   *\n   * function (ast, ctx) {\n    ast.value.visitExpression(this, ctx);\n    return null;\n  };\n  /**\n   * @param {?} type\n   * @param {?} ctx\n   * @return {?}\n   *\n   * _TsEmitterVisitor.prototype.visitArrayType = /**\n   * @param {?} type\n   * @param {?} ctx\n   * @return\n    {?}\n   *\n   * function (type, ctx) {\n    this.visitType(type.of, ctx);\n    ctx.print(null, \"[]\");\n    return\n    null;\n  };\n  /**\n   * @param {?} type\n   * @param {?} ctx\n   * @return {?}\n   *\n   * _TsEmitterVisitor.prototype.visitMapType = /**\n   * @param {?} type\n   * @param {?} ctx\n   * @return\n    {?}\n   *\n   * function (type, ctx) {\n    ctx.print(null, \"{[key: string]:}\");\n    this.visitType(type.valueType,\n    ctx);\n    ctx.print(null, \"}\");\n    return null;\n  };\n  /**\n   * @param {?} method\n   * @return {?}\n   *\n   * _TsEmitterVisitor.prototype.getBuiltinMethodName = /**\n   * @param {?} method\n   * @return {?}\n   *\n   * function (method) {\n    var /** @type {?} */ name;\n    switch (method) {\n      case\n    BuiltinMethod.ConcatArray:\n        name = 'concat';\n        break;\n      case\n    BuiltinMethod.SubscribeObservable:\n        name = 'subscribe';\n        break;\n      case\n    BuiltinMethod.Bind:\n        name = 'bind';\n        break;\n      default:\n        throw new\n    Error(\"Unknown builtin method: \" + method);\n    }\n    return name;\n  };\n  /**\n   * @param {?} params\n   * @param {?} ctx\n   * @return {?}\n   *\n   * _TsEmitterVisitor.prototype._visitParams = /**\n   * @param {?} params\n   * @param {?} ctx\n   * @return {?}\n   *\n   * function (params, ctx) {\n    var _this =\n    this;\n    this.visitAllObjects(function (param) {\n      ctx.print(null, param.name);\n      _this._printColonType(param.type, ctx);\n    }, params, ctx, ',');\n  };\n  /**\n   * @param {?} value\n   * @param {?} typeParams\n   * @param {?} ctx\n   * @return {?}\n   *\n   * _TsEmitterVisitor.prototype._visitIdentifier = /**\n   * @param {?} value\n   * @param {?} typeParams\n   * @param {?} ctx\n   * @return {?}\n   *\n   * function (value, typeParams, ctx) {\n    var _this = this;\n    var\n    name = value.name, moduleName = value.moduleName;\n    if (this.referenceFilter &&\n    this.referenceFilter(value)) {\n      ctx.print(null, '(null as any)');\n      return;\n    }\n    if (moduleName)\n    {\n      var /** @type {?} */ prefix = this.importsWithPrefixes.get(moduleName);\n      if (prefix == null) {\n        prefix = \"i\" + this.importsWithPrefixes.size;\n        this.importsWithPrefixes.set(moduleName,\n        prefix);\n      }\n      ctx.print(null, prefix + \".\");\n    }\n    ctx.print(null, /** @type {?} */ ((name)));\n    if (this.typeExpression > 0) {\n      // If we are in a type expression that refers to a generic type then supply\n      // the required type parameters. If there were not enough type parameters\n      // supplied, supply any as the\n      type. Outside a type expression the reference\n      // should not supply type parameters and be treated as a\n      simple value reference\n      // to the constructor function itself.\n      var /** @type {?} */\n      suppliedParameters = typeParams || [];\n      if (suppliedParameters.length > 0) {\n        ctx.print(null,\n        \"<\");\n        this.visitAllObjects(function (type) { return type.visitType(_this, ctx); }, /** @type {?} */\n
```

```

((typeParams)), ctx, ',');\n      ctx.print(null, '>');\n      }\n      }\n      };\n      /**\n      * @param {?} type\n      * @param {?} ctx\n      * @param {?=} defaultType\n      * @return {?}\n      */\n      _TsEmitterVisitor.prototype._printColonType = /**\n      * @param {?} type\n      * @param {?} ctx\n      * @param {?=} defaultType\n      * @return {?}\n      */\n      function (type, ctx, defaultType) {\n        if (type !==\n        INFERRED_TYPE) {\n          ctx.print(null, ':');\n          this.visitType(type, ctx, defaultType);\n        }\n      };\n      return _TsEmitterVisitor;\n    })(AbstractEmitterVisitor);\n\n    /**\n     * @fileoverview added by tsickle\n     * @suppress\n     {checkTypes} checked by tsc\n     */\n     * @license\n     Copyright Google Inc. All Rights Reserved.\n     * Use of this source code is governed by an MIT-style license that can be\n     found in the LICENSE file at\n     https://angular.io/license\n     */\n     * Resolve a `Type` for {@link Pipe}.\n     * This interface can be overridden\n     by the application developer to create custom behavior.\n     * See {@link Compiler}\n     */\n     * @class */\n     (function () {\n       function PipeResolver(_reflector) {\n         this._reflector = _reflector;\n       }\n       /**\n        * @param {?} type\n        * @return {?}\n        */\n        PipeResolver.prototype.isPipe = /**\n        * @param {?} type\n        * @return {?}\n        */\n        function (type) {\n          var /** @type {?} */ typeMetadata =\n            this._reflector.annotations(resolveForwardRef(type));\n          return typeMetadata &&\n            typeMetadata.some(createPipe.isTypeOf);\n        };\n        /**\n        * Return {@link Pipe} for a given `Type`.\n        */\n        /**\n        * Return {@link Pipe} for a given `Type`.\n        * @param {?} type\n        * @param {?}\n        */\n        throwIfNotFound\n        * @return {?}\n        */\n        PipeResolver.prototype.resolve = /**\n        * Return {@link Pipe}\n        for a given `Type`.\n        * @param {?} type\n        * @param {?=} throwIfNotFound\n        * @return {?}\n        */\n        function (type, throwIfNotFound) {\n          if (throwIfNotFound === void 0) { throwIfNotFound = true; }\n          var\n            /** @type {?} */ metas = this._reflector.annotations(resolveForwardRef(type));\n          if (metas) {\n            var /**\n              @type {?} */ annotation = findLast(metas, createPipe.isTypeOf);\n            if (annotation) {\n              return\n                annotation;\n            }\n          }\n          if (throwIfNotFound) {\n            throw new Error("No Pipe decorator found on\n            \" + stringify(type));\n          }\n          return null;\n        };\n        return PipeResolver;\n      })();\n\n    /**\n     * @fileoverview\n     added by tsickle\n     * @suppress {checkTypes} checked by tsc\n     */\n     * @license\n     Copyright Google Inc. All\n     Rights Reserved.\n     * Use of this source code is governed by an MIT-style license that can be\n     found in the\n     LICENSE file at https://angular.io/license\n     */\n     * Map from tagName|propertyName SecurityContext.\n     Properties applying to all tags use '*'.\n     */\n     * @nvar SECURITY_SCHEMA = {};\n     * @param {?} ctx\n     * @param\n     {?} specs\n     * @return {?}\n     */\n     * @nfunction registerContext(ctx, specs) {\n       for (var _i = 0, specs_1 = specs; _i <\n       specs_1.length; _i++) {\n         var spec = specs_1[_i];\n         SECURITY_SCHEMA[spec.toLowerCase()] = ctx;\n       }\n     }\n     // Case is insignificant below, all element and attribute names are lower-cased for\n     lookup.\n     registerContext(SecurityContext.HTML, [\n       'iframe|srcdoc',\n       '*|innerHTML',\n       '*|outerHTML',\n     ]);\n     registerContext(SecurityContext.STYLE, [*|style]);\n     // NB: no SCRIPT contexts here, they\n     are never allowed due to the parser stripping them.\n     registerContext(SecurityContext.URL, [\n       '*|formAction',\n       'area|href', 'area|ping', 'audio|src', 'a|href',\n       'a|ping', 'blockquote|cite', 'body|background', 'del|cite', 'form|action',\n       'img|src', 'img|srcset', 'input|src', 'ins|cite', 'q|cite',\n       'source|src', 'source|srcset', 'track|src', 'video|poster',\n       'video|src',\n     ]);\n     registerContext(SecurityContext.RESOURCE_URL, [\n       'applet|code',\n       'applet|codebase',\n       'base|href',\n       'embed|src',\n       'frame|src',\n       'head|profile',\n       'html|manifest',\n       'iframe|src',\n       'link|href',\n       'media|src',\n       'object|codebase',\n       'object|data',\n       'script|src',\n     ]);\n\n    /**\n     * @fileoverview added by tsickle\n     * @suppress {checkTypes} checked by tsc\n     */\n     * @license\n     Copyright Google Inc. All Rights Reserved.\n     * Use of this source code is governed by an MIT-style license that can be\n     found in the LICENSE file at\n     https://angular.io/license\n     */\n     * @abstract\n     * @nvar ElementSchemaRegistry = /** @class */\n     (function () {\n       function ElementSchemaRegistry() {\n       }\n       return ElementSchemaRegistry;\n     })();\n\n    /**\n     * @fileoverview\n     added by tsickle\n     * @suppress {checkTypes} checked by tsc\n     */\n     * @license\n     Copyright Google Inc. All\n     Rights Reserved.\n     * Use of this source code is governed by an MIT-style license that can be\n     found in the\n     LICENSE file at https://angular.io/license\n     */\n     * @nvar BOOLEAN = 'boolean';\n     * @nvar NUMBER = 'number';\n     * @nvar\n     STRING = 'string';\n     * @nvar OBJECT = 'object';\n     * This array represents the DOM schema. It encodes inheritance,\n     properties, and events.\n     * ## Overview\n     * Each line represents one kind of element. The\n     `element_inheritance` and properties are joined\n     using `element_inheritance|properties` syntax.\n     * ##

```

Element Inheritance

The `element_inheritance`` can be further subdivided as

`element1,element2,...^parentElement``. Here the individual elements are separated by ``` (commas). Every element in the list has identical properties.

An `element`` may inherit additional properties from `parentElement``. If no `parentElement`` is specified then `""` (blank) element is assumed.

NOTE: The blank element inherits from root `[Element]`` element, the super element of all elements.

NOTE: An element prefix such as `:svg:`` has no special meaning to the schema.

Properties

Each element has a set of properties separated by ``` (commas). Each property can be prefixed by a special character designating its type:

- (no prefix): property is a string.
- `-`*``: property represents an event.
- `-`!``: property is a boolean.
- `-`#``: property is a number.
- `-`%``: property is an object.

Query

The class creates an internal squas representation which allows to easily answer the query of if a given property exist on a given element.

NOTE: We don't yet support querying for types or events.

NOTE: This schema is auto extracted from `schema_extractor.ts`` located in the test folder, see `dom_element_schema_registry_spec.ts``

```

nvar
SCHEMA = [
  [Element]|textContent,%classList,className,id,innerHTML,*beforecopy,*beforecut,*beforepaste,*copy,*cut,*paste,*search,*selectstart,*webkitfullscreenchange,*webkitfullscreenerror,*wheel,outerHTML,#scrollLeft,#scrollTop,scrollLeft,scrollTop',
  *message,*mozfullscreenchange,*mozfullscreenerror,*mozpointerlockchange,*mozpointerlockerror,*webglcontextcreationerror,*webglcontextlost,*webglcontextrestored',
  [HTMLElement]^([Element])|accessKey,contentEditable,dir,!draggable,!hidden,innerText,lang,*abort,*auxclick,*blur,*cancel,*canplay,*canplaythrough,*change,*click,*close,*contextmenu,*cuechange,*dblclick,*drag,*dragend,*dragenter,*dragleave,*dragover,*dragstart,*drop,*durationchange,*emptied,*ended,*error,*focus,*gotpointercapture,*input,*invalid,*keydown,*keypress,*keyup,*load,*loadeddata,*loadedmetadata,*loadstart,*lostpointercapture,*mousedown,*mouseenter,*mouseleave,*mousemove,*mouseout,*mouseover,*mouseup,*mousewheel,*pause,*play,*playing,*pointercancel,*pointerdown,*pointerenter,*pointerleave,*pointermove,*pointerout,*pointerover,*pointerup,*progress,*ratechange,*reset,*resize,*scroll,*seeked,*seeking,*select,*show,*stalled,*submit,*suspend,*timeupdate,*toggle,*volumechange,*waiting,outerText,!spellcheck,%style,#tabIndex,title,!translate',
  'abbr,address,article,aside,b,bdi,bdo,cite,code,dd,dfn,dt,em,figcaption,figure,footer,header,i,kbd,main,mark,nav,noscript,rb,rp,rt,rtc,ruby,s,samp,section,small,strong,sub,sup,u,var,wbr^([HTMLElement])|accessKey,contentEditable,dir,!draggable,!hidden,innerText,lang,*abort,*auxclick,*blur,*cancel,*canplay,*canplaythrough,*change,*click,*close,*contextmenu,*cuechange,*dblclick,*drag,*dragend,*dragenter,*dragleave,*dragover,*dragstart,*drop,*durationchange,*emptied,*ended,*error,*focus,*gotpointercapture,*input,*invalid,*keydown,*keypress,*keyup,*load,*loadeddata,*loadedmetadata,*loadstart,*lostpointercapture,*mousedown,*mouseenter,*mouseleave,*mousemove,*mouseout,*mouseover,*mouseup,*mousewheel,*pause,*play,*playing,*pointercancel,*pointerdown,*pointerenter,*pointerleave,*pointermove,*pointerout,*pointerover,*pointerup,*progress,*ratechange,*reset,*resize,*scroll,*seeked,*seeking,*select,*show,*stalled,*submit,*suspend,*timeupdate,*toggle,*volumechange,*waiting,outerText,!spellcheck,%style,#tabIndex,title,!translate',
  'media^([HTMLElement])|autoplay,!controls,%controlsList,%crossOrigin,#currentTime,!defaultMuted,#defaultPlaybackRate,!disableRemotePlayback,!loop,!muted,*encrypted,*waitingforkey,#playbackRate,preload,src,%srcObject,#volume',
  ':svg:^([HTMLElement])|*abort,*auxclick,*blur,*cancel,*canplay,*canplaythrough,*change,*click,*close,*contextmenu,*cuechange,*dblclick,*drag,*dragend,*dragenter,*dragleave,*dragover,*dragstart,*drop,*durationchange,*emptied,*ended,*error,*focus,*gotpointercapture,*input,*invalid,*keydown,*keypress,*keyup,*load,*loadeddata,*loadedmetadata,*loadstart,*lostpointercapture,*mousedown,*mouseenter,*mouseleave,*mousemove,*mouseout,*mouseover,*mouseup,*mousewheel,*pause,*play,*playing,*pointercancel,*pointerdown,*pointerenter,*pointerleave,*pointermove,*pointerout,*pointerover,*pointerup,*progress,*ratechange,*reset,*resize,*scroll,*seeked,*seeking,*select,*show,*stalled,*submit,*suspend,*timeupdate,*toggle,*volumechange,*waiting,%style,#tabIndex',
  ':svg:graphics^:svg:',
  ':svg:animation^:svg:*begin,*end,*repeat',
  ':svg:geometry^:svg:',
  ':svg:componentTransferFunction^:svg:',
  ':svg:gradient^:svg:',
  ':svg:textContent^:svg:graphics|',

```

':svg:textPositioning^:svg:textContent|',\n
'a^[HTMLInputElement]|charset,coords,download,hash,host,hostname,href,hreflang,name,password,pathname,ping,port,protocol,referrerPolicy,rel,rev,search,shape,target,text,type,username',\n
'area^[HTMLInputElement]|alt,coords,download,hash,host,hostname,href,!noHref,password,pathname,ping,port,protocol,referrerPolicy,rel,search,shape,target,username',\n 'audio^media|',\n 'br^[HTMLInputElement]|clear',\n
'base^[HTMLInputElement]|href,target',\n
'body^[HTMLInputElement]|aLink,background,bgColor,link,*beforeunload,*blur,*error,*focus,*hashchange,*languagechange,*load,*message,*offline,*online,*pagehide,*pageshow,*popstate,*rejectionhandled,*resize,*scroll,*storage,*unhandledrejection,*unload,text,vLink',\n
'button^[HTMLInputElement]|!autofocus,!disabled,formAction,formEnctype,formMethod,!formNoValidate,formTarget,name,type,value',\n 'canvas^[HTMLInputElement]|#height,#width',\n 'content^[HTMLInputElement]|select',\n
'dl^[HTMLInputElement]|!compact',\n 'datalist^[HTMLInputElement]|',\n 'details^[HTMLInputElement]|!open',\n
'dialog^[HTMLInputElement]|!open,returnValue',\n 'dir^[HTMLInputElement]|!compact',\n 'div^[HTMLInputElement]|align',\n
'embed^[HTMLInputElement]|align,height,name,src,type,width',\n 'fieldset^[HTMLInputElement]|!disabled,name',\n
'font^[HTMLInputElement]|color,face,size',\n
'form^[HTMLInputElement]|acceptCharset,action,autocomplete,encoding,enctype,method,name,!noValidate,target',\n
'frame^[HTMLInputElement]|frameBorder,longDesc,marginHeight,marginWidth,name,!noResize,scrolling,src',\n
'frameset^[HTMLInputElement]|cols,*beforeunload,*blur,*error,*focus,*hashchange,*languagechange,*load,*message,*offline,*online,*pagehide,*pageshow,*popstate,*rejectionhandled,*resize,*scroll,*storage,*unhandledrejection,*unload,rows',\n 'hr^[HTMLInputElement]|align,color,!noShade,size,width',\n 'head^[HTMLInputElement]|',\n
'h1,h2,h3,h4,h5,h6^[HTMLInputElement]|align',\n 'html^[HTMLInputElement]|version',\n
'iframe^[HTMLInputElement]|align,!allowFullscreen,frameBorder,height,longDesc,marginHeight,marginWidth,name,referrerPolicy,% sandbox,scrolling,src,srcdoc,width',\n
'img^[HTMLInputElement]|align,alt,border,% crossOrigin,#height,#hspace,#isMap,longDesc,lowsrc,name,referrerPolicy,sizes,src,srcset,useMap,#vspace,#width',\n
'input^[HTMLInputElement]|accept,align,alt,autocapitalize,autocomplete,!autofocus,!checked,!defaultChecked,defaultValue,dirName,!disabled,% files,formAction,formEnctype,formMethod,!formNoValidate,formTarget,#height,!incremental,!indeterminate,max,#maxLength,min,#minLength,!multiple,name,pattern,placeholder,!readOnly,!required,selectionDirection,#selectionEnd,#selectionStart,#size,step,type,useMap,value,% valueAsDate,#valueAsNumber,#width',\n 'li^[HTMLInputElement]|type,#value',\n 'label^[HTMLInputElement]|htmlFor',\n 'legend^[HTMLInputElement]|align',\n
'link^[HTMLInputElement]|as,charset,% crossOrigin,!disabled,href,hreflang,integrity,media,referrerPolicy,rel,% relList,rev,% sizes,target,type',\n 'map^[HTMLInputElement]|name',\n
'marquee^[HTMLInputElement]|behavior,bgColor,direction,height,#hspace,#loop,#scrollAmount,#scrollDelay,!trueSpeed,#vspace,width',\n 'menu^[HTMLInputElement]|!compact',\n
'meta^[HTMLInputElement]|content,httpEquiv,name,scheme',\n
'meter^[HTMLInputElement]|#high,#low,#max,#min,#optimum,#value',\n 'ins,del^[HTMLInputElement]|cite,dateTime',\n
'ol^[HTMLInputElement]|!compact,!reversed,#start,type',\n
'object^[HTMLInputElement]|align,archive,border.code,codeBase,codeType,data,!declare,height,#hspace,name,standby,type,useMap,#vspace,width',\n 'optgroup^[HTMLInputElement]|!disabled,label',\n
'option^[HTMLInputElement]|!defaultSelected,!disabled,label,!selected,text,value',\n
'output^[HTMLInputElement]|defaultValue,% htmlFor,name,value',\n 'p^[HTMLInputElement]|align',\n
'param^[HTMLInputElement]|name,type,value,valueType',\n 'picture^[HTMLInputElement]|',\n
'pre^[HTMLInputElement]|#width',\n 'progress^[HTMLInputElement]|#max,#value',\n
'q,blockquote,cite^[HTMLInputElement]|',\n
'script^[HTMLInputElement]|!async,charset,% crossOrigin,!defer,event,htmlFor,integrity,src,text,type',\n
'select^[HTMLInputElement]|!autofocus,!disabled,#length,!multiple,name,!required,#selectedIndex,#size,value',\n
'shadow^[HTMLInputElement]|',\n 'slot^[HTMLInputElement]|name',\n
'source^[HTMLInputElement]|media,sizes,src,srcset,type',\n 'span^[HTMLInputElement]|',\n

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'style^[HTMLInputElement]!disabled,media,type',\n  'caption^[HTMLInputElement]align',\n
'th,td^[HTMLInputElement]abbr,align,axis,bgColor,ch,chOff,#colSpan,headers,height,!noWrap,#rowSpan,scope,vAlign,
width',\n  'col,colgroup^[HTMLInputElement]align,ch,chOff,#span,vAlign,width',\n
'table^[HTMLInputElement]align,bgColor,border,%caption,cellPadding,cellSpacing,frame,rules,summary,%tfoot,%thead,
ad,width',\n  'tr^[HTMLInputElement]align,bgColor,ch,chOff,vAlign',\n
'tfoot,thead,tbody^[HTMLInputElement]align,ch,chOff,vAlign',\n  'template^[HTMLInputElement]',\n
'textarea^[HTMLInputElement]autocapitalize,!autofocus,#cols,default,dirName,!disabled,#maxLength,#minLength,
,name,placeholder,!readOnly,!required,#rows,selectionDirection,#selectionEnd,#selectionStart,value,wrap',\n
'title^[HTMLInputElement]text',\n  'track^[HTMLInputElement]!default,kind,label,src,srclang',\n
'ul^[HTMLInputElement]!compact,type',\n  'unknown^[HTMLInputElement]',\n  'video^media#height,poster,#width',\n
':svg:a^:svg:graphics|',\n  ':svg:animate^:svg:animation|',\n  ':svg:animateMotion^:svg:animation|',\n
':svg:animateTransform^:svg:animation|',\n  ':svg:circle^:svg:geometry|',\n  ':svg:clipPath^:svg:graphics|',\n
':svg:defs^:svg:graphics|',\n  ':svg:desc^:svg:|',\n  ':svg:discard^:svg:|',\n  ':svg:ellipse^:svg:geometry|',\n
':svg:feBlend^:svg:|',\n  ':svg:feColorMatrix^:svg:|',\n  ':svg:feComponentTransfer^:svg:|',\n
':svg:feComposite^:svg:|',\n  ':svg:feConvolveMatrix^:svg:|',\n  ':svg:feDiffuseLighting^:svg:|',\n
':svg:feDisplacementMap^:svg:|',\n  ':svg:feDistantLight^:svg:|',\n  ':svg:feDropShadow^:svg:|',\n
':svg:feFlood^:svg:|',\n  ':svg:feFuncA^:svg:componentTransferFunction|',\n
':svg:feFuncB^:svg:componentTransferFunction|',\n  ':svg:feFuncG^:svg:componentTransferFunction|',\n
':svg:feFuncR^:svg:componentTransferFunction|',\n  ':svg:feGaussianBlur^:svg:|',\n  ':svg:feImage^:svg:|',\n
':svg:feMerge^:svg:|',\n  ':svg:feMergeNode^:svg:|',\n  ':svg:feMorphology^:svg:|',\n  ':svg:feOffset^:svg:|',\n
':svg:fePointLight^:svg:|',\n  ':svg:feSpecularLighting^:svg:|',\n  ':svg:feSpotLight^:svg:|',\n  ':svg:feTile^:svg:|',\n
':svg:feTurbulence^:svg:|',\n  ':svg:filter^:svg:|',\n  ':svg:foreignObject^:svg:graphics|',\n
':svg:g^:svg:graphics|',\n  ':svg:image^:svg:graphics|',\n  ':svg:line^:svg:geometry|',\n
':svg:linearGradient^:svg:gradient|',\n  ':svg:mpath^:svg:|',\n  ':svg:marker^:svg:|',\n  ':svg:mask^:svg:|',\n
':svg:metadata^:svg:|',\n  ':svg:path^:svg:geometry|',\n  ':svg:pattern^:svg:|',\n  ':svg:polygon^:svg:geometry|',\n
':svg:polyline^:svg:geometry|',\n  ':svg:radialGradient^:svg:gradient|',\n  ':svg:rect^:svg:geometry|',\n
':svg:svg^:svg:graphics#currentScale,#zoomAndPan',\n  ':svg:script^:svg:|type|',\n  ':svg:set^:svg:animation|',\n
':svg:stop^:svg:|',\n  ':svg:style^:svg:|!disabled,media,title,type|',\n  ':svg:switch^:svg:graphics|',\n
':svg:symbol^:svg:|',\n  ':svg:tspan^:svg:textPositioning|',\n  ':svg:text^:svg:textPositioning|',\n
':svg:textPath^:svg:textContent|',\n  ':svg:title^:svg:|',\n  ':svg:use^:svg:graphics|',\n
':svg:view^:svg:|#zoomAndPan|',\n  'data^[HTMLInputElement]value',\n
'keygen^[HTMLInputElement]!autofocus,challenge,!disabled,form,keytype,name',\n
'menuitem^[HTMLInputElement]type,label,icon,!disabled,!checked,radiogroup,!default',\n
'summary^[HTMLInputElement]',\n  'time^[HTMLInputElement]dateTime',\n  ':svg:cursor^:svg:|',\n);
var
_ATTR_TO_PROP = {\n  'class': 'className',\n  'for': 'htmlFor',\n  'formaction': 'formAction',\n  'innerHTML':
'innerHTML',\n  'readonly': 'readOnly',\n  'tabindex': 'tabIndex',\n};
var DomElementSchemaRegistry = /**
@class */(function (_super) {\n  __extends(DomElementSchemaRegistry, _super);\n  function
DomElementSchemaRegistry() {\n    var _this = _super.call(this) || this;\n    _this._schema = {};\n    SCHEMA.forEach(function (encodedType) {\n      var /** @type {?} */ type = {};\n      var _a =
encodedType.split('|'), strType = _a[0], strProperties = _a[1];\n      var /** @type {?} */ properties =
strProperties.split(';');\n      var _b = strType.split('^'), typeNames = _b[0], superName = _b[1];\n      typeNames.split(',').forEach(function (tag) { return _this._schema[tag.toLowerCase()] = type; });\n      var /**
@type {?} */ superType = superName && _this._schema[superName.toLowerCase()];\n      if (superType) {\n        Object.keys(superType).forEach(function (prop) { type[prop] = superType[prop]; });\n      }\n      properties.forEach(function (property) {\n        if (property.length > 0) {\n          switch (property[0]) {\n            case '*':\n              // We don't yet support events.\n              // If ever allowing to bind
to events, GO THROUGH A SECURITY REVIEW, allowing events\n              // will\n              //
almost certainly introduce bad XSS vulnerabilities.\n              // type[property.substring(1)] = EVENT;\n          }\n        }\n      });\n    });\n  }\n  return _this;\n});

```



```

        break;\n                case '!':\n                    type[property.substring(1)] = BOOLEAN;\n    break;\n                case '#':\n                    type[property.substring(1)] = NUMBER;\n    break;\n                case '%':\n                    type[property.substring(1)] = OBJECT;\n    break;\n                default:\n                    type[property] = STRING;\n            }\n        });\n    });\n    return _this;\n} /**\n * @param {?} tagName\n * @param {?} propName\n * @param {?} schemaMetas\n * @return {?}\n */\n DomElementSchemaRegistry.prototype.hasProperty =\n /**\n * @param {?} tagName\n * @param {?} propName\n * @param {?} schemaMetas\n * @return\n {?}\n */\n function (tagName, propName, schemaMetas) {\n    if (schemaMetas.some(function (schema) {\n    return schema.name === NO_ERRORS_SCHEMA.name; })) {\n        return true;\n    } if\n    (tagName.indexOf('-') > -1) {\n        if (isNgContainer(tagName) || isNgContent(tagName)) {\n            return\n            false;\n        } if (schemaMetas.some(function (schema) {\n    return schema.name ===\n    CUSTOM_ELEMENTS_SCHEMA.name; })) {\n            // Can't tell now as we don't know which properties a\n            custom element will get\n            // once it is instantiated\n            return true;\n        } }\n        var /**\n    @type {?} */ elementProperties = this._schema[tagName.toLowerCase()] || this._schema['unknown'];\n    return\n    !!elementProperties[propName];\n} /**\n * @param {?} tagName\n * @param {?} schemaMetas\n * @return\n {?}\n */\n DomElementSchemaRegistry.prototype.hasElement = /**\n * @param {?} tagName\n * @param {?} schemaMetas\n * @return\n {?}\n */\n function (tagName, schemaMetas) {\n    if\n    (schemaMetas.some(function (schema) {\n    return schema.name === NO_ERRORS_SCHEMA.name; })) {\n    return true;\n    } if (tagName.indexOf('-') > -1) {\n        if (isNgContainer(tagName) ||\n        isNgContent(tagName)) {\n            return true;\n        } if (schemaMetas.some(function (schema) {\n    return schema.name === CUSTOM_ELEMENTS_SCHEMA.name; })) {\n            // Allow any custom\n            elements\n            return true;\n        } }\n        return !!this._schema[tagName.toLowerCase()];\n} /**\n * securityContext returns the security context for the given property on the given DOM tag.\n * Tag and property name are statically known and cannot change at runtime, i.e. it is not\n * possible to bind a\n * value into a changing attribute or tag name.\n * The filtering is white list based. All attributes in the schema\n * above are assumed to have the\n * 'NONE' security context, i.e. that they are safe inert string values. Only specific well known\n * attack vectors are assigned their appropriate context.\n * securityContext returns\n * the security context for the given property on the given DOM tag.\n * Tag and property name are statically\n * known and cannot change at runtime, i.e. it is not\n * possible to bind a value into a changing attribute or tag\n * name.\n * The filtering is white list based. All attributes in the schema above are assumed to have the\n * 'NONE' security context, i.e. that they are safe inert string values. Only specific well known\n * attack vectors are\n * assigned their appropriate context.\n * @param {?} tagName\n * @param {?} propName\n * @param {?}\n isAttribute\n * @return {?}\n */\n DomElementSchemaRegistry.prototype.securityContext = /**\n * securityContext returns the security context for the given property on the given DOM tag.\n * Tag and\n * property name are statically known and cannot change at runtime, i.e. it is not\n * possible to bind a value into a\n * changing attribute or tag name.\n * The filtering is white list based. All attributes in the schema above are\n * assumed to have the\n * 'NONE' security context, i.e. that they are safe inert string values. Only specific well\n * known\n * attack vectors are assigned their appropriate context.\n * @param {?} tagName\n * @param {?}\n propName\n * @param {?}\n isAttribute\n * @return {?}\n */\n function (tagName, propName, isAttribute)\n {\n    if (isAttribute) {\n        // NB: For security purposes, use the mapped property name, not the attribute\n        name.\n        propName = this.getMappedPropName(propName);\n    } // Make sure comparisons are\n    // case insensitive, so that case differences between attribute and\n    // property names do not have a security\n    impact.\n    tagName = tagName.toLowerCase();\n    propName = propName.toLowerCase();\n    var /**\n    @type {?} */ ctx = SECURITY_SCHEMA[tagName + '|' + propName];\n    if (ctx) {\n        return ctx;\n    }\n    ctx = SECURITY_SCHEMA['*' + propName];\n    return ctx ? ctx : SecurityContext.NONE;\n} /**\n * @param {?} propName\n * @return\n {?}\n */\n DomElementSchemaRegistry.prototype.getMappedPropName = /**\n * @param {?} propName\n * @return\n {?}\n */\n function (propName) {\n    return _ATTR_TO_PROP[propName] || propName;\n} /**\n * @return\n {?}\n */\n
```

```

{?}\n  *^n  DomElementSchemaRegistry.prototype.getDefaultComponentElementName = /**\n  * @return
{?}\n  *^n  function () { return 'ng-component'; };n  /**\n  * @param {?} name\n  * @return {?}}\n  *^n
DomElementSchemaRegistry.prototype.validateProperty = /**\n  * @param {?} name\n  * @return {?}}\n  *^n
function (name) {\n  if (name.toLowerCase().startsWith('on')) {\n    var /** @type {?} */ msg = "Binding
to event property \" + name + \" is disallowed for security reasons, \" +\n    (\"please use (\" + name.slice(2)
+ \")=...\") +\n    (\"\\nIf \" + name + \" is a directive input, make sure the directive is imported by the\") +\n
    \" current module.\";\n    return { error: true, msg: msg };}\n  } else {\n    return { error:
false };\n  }\n};n  /**\n  * @param {?} name\n  * @return {?}}\n  *^n
DomElementSchemaRegistry.prototype.validateAttribute = /**\n  * @param {?} name\n  * @return {?}}\n
*^n  function (name) {\n  if (name.toLowerCase().startsWith('on')) {\n    var /** @type {?} */ msg =
\"Binding to event attribute \" + name + \" is disallowed for security reasons, \" +\n    (\"please use (\" +
name.slice(2) + \")=...\");\n    return { error: true, msg: msg };}\n  } else {\n    return { error: false
};\n  }\n};n  /**\n  * @return {?}}\n  *^n
DomElementSchemaRegistry.prototype.allKnownElementNames = /**\n  * @return {?}}\n  *^n  function () {
return Object.keys(this._schema); };n  /**\n  * @param {?} propName\n  * @return {?}}\n  *^n
DomElementSchemaRegistry.prototype.normalizeAnimationStyleProperty = /**\n  * @param {?} propName\n
* @return {?}}\n  *^n  function (propName) {\n  return dashCaseToCamelCase(propName);\n  };n  /**\n
* @param {?} camelCaseProp\n  * @param {?} userProvidedProp\n  * @param {?} val\n  * @return {?}}\n
*^n  DomElementSchemaRegistry.prototype.normalizeAnimationStyleValue = /**\n  * @param {?}
camelCaseProp\n  * @param {?} userProvidedProp\n  * @param {?} val\n  * @return {?}}\n  *^n  function
(camelCaseProp, userProvidedProp, val) {\n  var /** @type {?} */ unit = \";\n  var /** @type {?} */ strVal =
val.toString().trim();\n  var /** @type {?} */ errorMsg = /** @type {?} */ ((null));\n  if
(_isPixelDimensionStyle(camelCaseProp) && val !== 0 && val !== '0') {\n    if (typeof val === 'number') {\n
    unit = 'px';\n    } else {\n    var /** @type {?} */ valAndSuffixMatch = val.match(/^[+-]
]?[\\d\\.]+([a-z]*)$/);\n    if (valAndSuffixMatch && valAndSuffixMatch[1].length === 0) {\n
errorMsg = \"Please provide a CSS unit value for \" + userProvidedProp + \":\" + val;\n    }\n    }\n
}\n  return { error: errorMsg, value: strVal + unit };}\n  };n  return
DomElementSchemaRegistry;}\n}(ElementSchemaRegistry));n/**\n * @param {?} prop\n * @return {?}}\n
*^nfunction _isPixelDimensionStyle(prop) {\n  switch (prop) {\n    case 'width':\n    case 'height':\n    case
'minWidth':\n    case 'minHeight':\n    case 'maxWidth':\n    case 'maxHeight':\n    case 'left':\n    case
'top':\n    case 'bottom':\n    case 'right':\n    case 'fontSize':\n    case 'outlineWidth':\n    case
'outlineOffset':\n    case 'paddingTop':\n    case 'paddingLeft':\n    case 'paddingBottom':\n    case
'paddingRight':\n    case 'marginTop':\n    case 'marginLeft':\n    case 'marginBottom':\n    case
'marginRight':\n    case 'borderRadius':\n    case 'borderWidth':\n    case 'borderTopWidth':\n    case
'borderLeftWidth':\n    case 'borderRightWidth':\n    case 'borderBottomWidth':\n    case 'textIndent':\n
return true;\n  default:\n    return false;\n  }\n}\n}\n}\n/**\n * @fileoverview added by tsickle\n * @suppress
{checkTypes} checked by tsc\n *^n/**\n * @license\n * Copyright Google Inc. All Rights Reserved.\n *^n * Use of
this source code is governed by an MIT-style license that can be\n * found in the LICENSE file at
https://angular.io/license\n *^n/**\n * This file is a port of shadowCSS from webcomponents.js to TypeScript.\n *^n
* Please make sure to keep to edits in sync with the source file.\n *^n * Source:\n *
https://github.com/webcomponents/webcomponentsjs/blob/4efecd7e0e/src/ShadowCSS/ShadowCSS.js\n *^n * The
original file level comment is reproduced below\n *^n/*\n * This is a limited shim for ShadowDOM css styling.\n
https://dvcs.w3.org/hg/webcomponents/raw-file/tip/spec/shadow/index.html#styles\n\n The intention here is to
support only the styling features which can be\n relatively simply implemented. The goal is to allow users to avoid
the\n most obvious pitfalls and do so without compromising performance significantly.\n For ShadowDOM styling
that's not covered here, a set of best practices\n can be provided that should allow users to accomplish more
complex styling.\n\n The following is a list of specific ShadowDOM styling features and a brief\n discussion of the
approach used to shim.\n\n Shimmed features:\n\n * :host, :host-context: ShadowDOM allows styling of the

```

shadowRoot's host element using the :host rule. To shim this feature, the :host styles are reformatted and prefixed with a given scope name and promoted to a document level stylesheet. For example, given a scope name of .foo, a rule like this:

```

:host {
  background: red;
}

```

becomes:

```

.foo {
  background: red;
}

```

* encapsulation: Styles defined within ShadowDOM, apply only to dom inside the ShadowDOM. Polymer uses one of two techniques to implement this feature. By default, rules are prefixed with the host element tag name as a descendant selector. This ensures styling does not leak out of the 'top' of the element's ShadowDOM. For example,

```

div {
  font-weight: bold;
}

```

becomes:

```

x-foo div {
  font-weight: bold;
}

```

Alternatively, if WebComponents.ShadowCSS.strictStyling is set to true then selectors are scoped by adding an attribute selector suffix to each simple selector that contains the host element tag name. Each element in the element's ShadowDOM template is also given the scope attribute. Thus, these rules match only elements that have the scope attribute. For example, given a scope name of x-foo, a rule like this:

```

div {
  font-weight: bold;
}

```

becomes:

```

div[x-foo] {
  font-weight: bold;
}

```

Note that elements that are dynamically added to a scope must have the scope selector added to them manually.

* upper/lower bound encapsulation: Styles which are defined outside a shadowRoot should not cross the ShadowDOM boundary and should not apply inside a shadowRoot. This styling behavior is not emulated. Some possible ways to do this that were rejected due to complexity and/or performance concerns include: (1) reset every possible property for every possible selector for a given scope name; (2) re-implement css in javascript. As an alternative, users should make sure to use selectors specific to the scope in which they are working.

* ::distributed: This behavior is not emulated. It's often not necessary to style the contents of a specific insertion point and instead, descendants of the host element can be styled selectively. Users can also create an extra node around an insertion point and style that node's contents via descendent selectors. For example, with a shadowRoot like this:

```

<style>
  ::content(div) {
    background: red;
  }
</style>
<content></content>

```

could become:

```

<style>
  /*@polyfill .content-container div * ^
  ::content(div) {
    background: red;
  }
</style>
<div class="content-container">
<content></content>
</div>

```

Note the use of @polyfill in the comment above a ShadowDOM specific style declaration. This is a directive to the styling shim to use the selector in comments in lieu of the next selector when running under polyfill.

```

^nvar ShadowCss = /** @class */ (function () {
  function ShadowCss() {
    this.strictStyling = true;
  }
  /**
   * Shim some cssText with the given selector. Returns cssText that
   * can be included in the document via WebComponents.ShadowCSS.addCssToDocument(css).
   *
   * When strictStyling is true:
   * - selector is the attribute added to all elements inside the host,
   * - hostSelector is the attribute added to the host itself.
   *
   * @param {?} cssText
   * @param {?} selector
   * @param {?=} hostSelector
   * @return {?}
   */
  ShadowCss.prototype.shimCssText = /**
   * @param {?} cssText
   * @param {?} selector
   * @param {?=} hostSelector
   * @return {?}
   */
  function (cssText, selector, hostSelector) {
    if (hostSelector === void 0) { hostSelector = ""; }
    var /** @type {?} */
    sourceMappingUrl = extractSourceMappingUrl(cssText);
    cssText = stripComments(cssText);
    cssText = this._insertDirectives(cssText);
    return this._scopeCssText(cssText, selector, hostSelector) +
    sourceMappingUrl;
  };
  /**
   * @param {?} cssText
   * @return {?}
   */
  ShadowCss.prototype._insertDirectives = /**
   * @param {?} cssText
   * @return {?}
   */
  function (cssText) {
    cssText = this._insertPolyfillDirectivesInCssText(cssText);
    return
    this._insertPolyfillRulesInCssText(cssText);
  };
  /**
   * @param {?} cssText
   * @return {?}
   */
  ShadowCss.prototype._insertPolyfillDirectivesInCssText = /**
   * @param {?} cssText
   * @return {?}
   */
  function (cssText) {
    // Difference with webcomponents.js: does not handle comments
    return
    cssText.replace(_cssContentNextSelectorRe, function () {
      var m = [];
      for (var _i = 0; _i <
      arguments.length; _i++) {
        m[_i] = arguments[_i];
      }
      return m[2] + '{';
    });
  };
  /**
   * @param {?} cssText
   * @return {?}
   */
  ShadowCss.prototype._insertPolyfillRulesInCssText =
  /**
   * @param {?} cssText
   * @return {?}
   */
  function (cssText) {
    // Difference with
    webcomponents.js: does not handle comments
    return cssText.replace(_cssContentRuleRe, function () {
      var m = [];
      for (var _i = 0; _i < arguments.length; _i++) {
        m[_i] = arguments[_i];
      }
    });
  };
}());

```

```

    var /** @type {?} */ rule = m[0].replace(m[1], "").replace(m[2], "");\n        return m[4] + rule;\n    });\n};\n /**\n * @param {?} cssText\n * @param {?} scopeSelector\n * @param {?} hostSelector\n * @return {?}\n */\n ShadowCss.prototype._scopeCssText = /**\n * @param {?} cssText\n * @param {?} scopeSelector\n * @param {?} hostSelector\n * @return {?}\n */\n function (cssText, scopeSelector, hostSelector) {\n    var /** @type {?} */ unscopedRules = this._extractUnscopedRulesFromCssText(cssText);\n    // replace :host and :host-context -shadowcsshost and -shadowcsshost respectively\n    cssText = this._insertPolyfillHostInCssText(cssText);\n    cssText = this._convertColonHost(cssText);\n    cssText = this._convertColonHostContext(cssText);\n    cssText = this._convertShadowDOMSelectors(cssText);\n    if (scopeSelector) {\n        cssText = this._scopeSelectors(cssText, scopeSelector, hostSelector);\n    }\n    cssText = cssText + '\\n' + unscopedRules;\n    return cssText.trim();\n};\n /**\n * @param {?} cssText\n * @return {?}\n */\n ShadowCss.prototype._extractUnscopedRulesFromCssText = /**\n * @param {?} cssText\n * @return {?}\n */\n function (cssText) {\n    // Difference with webcomponents.js: does not handle comments\n    var /** @type {?} */ r = ";\n    var /** @type {?} */ m;\n    _cssContentUnscopedRuleRe.lastIndex = 0;\n    while ((m = _cssContentUnscopedRuleRe.exec(cssText)) !== null) {\n        var /** @type {?} */ rule = m[0].replace(m[2], "").replace(m[1], m[4]);\n        r += rule + '\\n\\n';\n    }\n    return r;\n};\n /**\n * @param {?} cssText\n * @return {?}\n */\n ShadowCss.prototype._convertColonHost = /**\n * @param {?} cssText\n * @return {?}\n */\n function (cssText) {\n    return this._convertColonRule(cssText, _cssColonHostRe, this._colonHostPartReplacer);\n};\n /**\n * @param {?} cssText\n * @return {?}\n */\n ShadowCss.prototype._convertColonHostContext = /**\n * @param {?} cssText\n * @return {?}\n */\n function (cssText) {\n    return this._convertColonRule(cssText, _cssColonHostContextRe, this._colonHostContextPartReplacer);\n};\n /**\n * @param {?} cssText\n * @param {?} regExp\n * @param {?} partReplacer\n * @return {?}\n */\n ShadowCss.prototype._convertColonRule = /**\n * @param {?} cssText\n * @param {?} regExp\n * @param {?} partReplacer\n * @return {?}\n */\n function (cssText, regExp, partReplacer) {\n    // m[1] = :host(-context), m[2] = contents of (), m[3] rest of rule\n    return cssText.replace(regExp, function () {\n        var m = [];\n        for (var _i = 0; _i < arguments.length; _i++) {\n            m[_i] = arguments[_i];\n        }\n        if (m[2]) {\n            var /** @type {?} */ parts = m[2].split(',');\n            var /** @type {?} */ r = [];\n            for (var /** @type {?} */ i = 0; i < parts.length; i++) {\n                var /** @type {?} */ p = parts[i].trim();\n                if (!p)\n                    break;\n                r.push(partReplacer(_polyfillHostNoCombinator, p, m[3]));\n            }\n            return r.join(',');\n        } else {\n            return _polyfillHostNoCombinator + m[3];\n        }\n    });\n};\n /**\n * @param {?} host\n * @param {?} part\n * @param {?} suffix\n * @return {?}\n */\n ShadowCss.prototype._colonHostContextPartReplacer = /**\n * @param {?} host\n * @param {?} part\n * @param {?} suffix\n * @return {?}\n */\n function (host, part, suffix) {\n    if (part.indexOf(_polyfillHost) > -1) {\n        return this._colonHostPartReplacer(host, part, suffix);\n    } else {\n        return host + part + suffix + ', ' + part + ' ' + host + suffix;\n    }\n};\n /**\n * @param {?} host\n * @param {?} part\n * @param {?} suffix\n * @return {?}\n */\n ShadowCss.prototype._colonHostPartReplacer = /**\n * @param {?} host\n * @param {?} part\n * @param {?} suffix\n * @return {?}\n */\n function (host, part, suffix) {\n    return host + part.replace(_polyfillHost, '') + suffix;\n};\n /**\n * @param {?} cssText\n * @return {?}\n */\n ShadowCss.prototype._convertShadowDOMSelectors = /**\n * @param {?} cssText\n * @return {?}\n */\n function (cssText) {\n    return _shadowDOMSelectorsRe.reduce(function (result, pattern) {\n        return result.replace(pattern, '');\n    }, cssText);\n};\n /**\n * @param {?} cssText\n * @param {?} scopeSelector\n * @param {?} hostSelector\n * @return {?}\n */\n ShadowCss.prototype._scopeSelectors = /**\n * @param {?} cssText\n * @param {?} scopeSelector\n * @param {?} hostSelector\n * @return {?}\n */\n function (cssText, scopeSelector, hostSelector) {\n    var _this = this;\n    return processRules(cssText, function (rule) {\n        var /** @type {?} */ selector = rule.selector;\n        var /** @type {?} */ content = rule.content;\n        if (rule.selector[0] !== '@') {\n            selector =\n                _this._scopeSelector(rule.selector, scopeSelector, hostSelector, _this.strictStyling);\n        } else if

```

```

(rule.selector.startsWith('@media') || rule.selector.startsWith('@supports')) ||\n
rule.selector.startsWith('@page') || rule.selector.startsWith('@document')) {\n      content =\n      _this._scopeSelectors(rule.content, scopeSelector, hostSelector);\n      }\n      return new CssRule(selector,\n      content);\n      });\n      });\n      /**\n      * @param {?} selector\n      * @param {?} scopeSelector\n      * @param {?} hostSelector\n      * @param {?} strict\n      * @return {?}\n      * ^\n      ShadowCss.prototype._scopeSelector = /**\n      * @param {?} selector\n      * @param {?} scopeSelector\n      * @param {?} hostSelector\n      * @param {?} strict\n      * @return {?}\n      * ^\n      function (selector, scopeSelector, hostSelector, strict) {\n      var _this = this;\n      return selector.split(',')\n      .map(function (part) { return part.trim().split(_shadowDeepSelectors); })\n      .map(function (deepParts) {\n      var shallowPart = deepParts[0], otherParts = deepParts.slice(1);\n      var\n      /** @type {?} */ applyScope = function (shallowPart) {\n      if (_this._selectorNeedsScoping(shallowPart,\n      scopeSelector)) {\n      return strict ?\n      _this._applyStrictSelectorScope(shallowPart,\n      scopeSelector, hostSelector) :\n      _this._applySelectorScope(shallowPart, scopeSelector,\n      hostSelector);\n      }\n      else {\n      return shallowPart;\n      }\n      };\n      return [applyScope(shallowPart)].concat(otherParts).join(' ');\n      })\n      .join(', ');\n      });\n      /**\n      * @param {?} selector\n      * @param {?} scopeSelector\n      * @return {?}\n      * ^\n      ShadowCss.prototype._selectorNeedsScoping = /**\n      * @param {?} selector\n      * @param {?} scopeSelector\n      * @return {?}\n      * ^\n      function (selector, scopeSelector) {\n      var /** @type {?} */ re =\n      this._makeScopeMatcher(scopeSelector);\n      return !re.test(selector);\n      });\n      /**\n      * @param {?} scopeSelector\n      * @return {?}\n      * ^\n      ShadowCss.prototype._makeScopeMatcher = /**\n      * @param {?} scopeSelector\n      * @return {?}\n      * ^\n      function (scopeSelector) {\n      var /** @type {?} */ lre = /\[\[\/g;\n      var /** @type {?} */ rre = /\]\]/g;\n      scopeSelector = scopeSelector.replace(lre, '\\[\\[').replace(rre, '\\]\\]');\n      return new RegExp('^(' + scopeSelector + ') + _selectorReSuffix, 'm');\n      });\n      /**\n      * @param {?} selector\n      * @param {?} scopeSelector\n      * @param {?} hostSelector\n      * @return {?}\n      * ^\n      ShadowCss.prototype._applySelectorScope = /**\n      * @param {?} selector\n      * @param {?} scopeSelector\n      * @param {?} hostSelector\n      * @return {?}\n      * ^\n      function (selector, scopeSelector, hostSelector) {\n      //\n      Difference from webcomponents.js: scopeSelector could not be an array\n      return\n      this._applySimpleSelectorScope(selector, scopeSelector, hostSelector);\n      });\n      /**\n      * @param {?} selector\n      * @param {?} scopeSelector\n      * @param {?} hostSelector\n      * @return {?}\n      * ^\n      ShadowCss.prototype._applySimpleSelectorScope = /**\n      * @param {?} selector\n      * @param {?} scopeSelector\n      * @param {?} hostSelector\n      * @return {?}\n      * ^\n      function (selector, scopeSelector,\n      hostSelector) {\n      // In Android browser, the lastIndex is not reset when the regex is used in String.replace()\n      _polyfillHostRe.lastIndex = 0;\n      if (_polyfillHostRe.test(selector)) {\n      var /** @type {?} */\n      replaceBy_1 = this.strictStyling ? \"[\" + hostSelector + \"]\" : scopeSelector;\n      return selector\n      .replace(_polyfillHostNoCombinatorRe, function (hnc, selector) {\n      return selector.replace(/([^\:]*)(\:)(.*)/,  
function (_, before, colon, after) {\n      return before + replaceBy_1 + colon + after;\n      }));\n      })\n      .replace(_polyfillHostRe, replaceBy_1 + ' ');\n      }\n      return scopeSelector + ' ' + selector;\n      });\n      /**\n      * @param {?} selector\n      * @param {?} scopeSelector\n      * @param {?} hostSelector\n      * @return {?}\n      * ^\n      ShadowCss.prototype._applyStrictSelectorScope = /**\n      * @param {?} selector\n      * @param {?} scopeSelector\n      * @param {?} hostSelector\n      * @return {?}\n      * ^\n      function (selector,\n      scopeSelector, hostSelector) {\n      var _this = this;\n      var /** @type {?} */ isRe = /\[is=(\\[\\]\\*)\\]/g;\n      scopeSelector = scopeSelector.replace(isRe, function (_) {\n      var parts = [];\n      for (var _i = 1; _i <\n      arguments.length; _i++) {\n      parts[_i - 1] = arguments[_i];\n      }\n      return parts[0];\n      });\n      var /** @type {?} */ attrName = '[' + scopeSelector + ']';\n      var /** @type {?} */ _scopeSelectorPart = function\n      (p) {\n      var /** @type {?} */ scopedP = p.trim();\n      if (!scopedP) {\n      return \"\";\n      }\n      if (p.indexOf(_polyfillHostNoCombinator) > -1) {\n      scopedP = _this._applySimpleSelectorScope(p,\n      scopeSelector, hostSelector);\n      }\n      else {\n      // remove :host since it should be unnecessary\n      var /** @type {?} */ t = p.replace(_polyfillHostRe, \"\");\n      if (t.length > 0) {\n      var /**\n      @type {?} */ matches = t.match(/([^\:]*)(\:)(.*)/);\n      if (matches) {\n      scopedP = matches[1]

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+ attrName + matches[2] + matches[3];\n          }\n          }\n          }\n          return scopedP;\n        };\n        var /** @type {?} */ safeContent = new SafeSelector(selector);\n        selector = safeContent.content();\n        var /** @type {?} */ scopedSelector = ";\n        var /** @type {?} */ startIndex = 0;\n        var /** @type {?} */ res;\n        var /** @type {?} */ sep = /( |\\|+|~(?:!|=))\\s*/g;\n        // If a selector appears before :host it should not be shimmed as it\n        // matches on ancestor elements and not on elements in the host's shadow\n        // `:host-context(div)` is transformed to\n        // `-shadowcsshost-no-combinatordiv, div -shadowcsshost-no-combinator`\n        // the `div` is not part of the component in the 2nd selectors and should not be scoped.\n        // Historically `component-tag:host` was matching the component so we also want to preserve\n        // this behavior to avoid breaking legacy apps (it should not match).\n        // The behavior should be:\n        // - `tag:host` -> `tag[h]` (this is to avoid breaking legacy apps, should not match anything)\n        // - `tag :host` -> `tag [h]` (`tag` is not scoped because it's considered part of a\n        // `:host-context(tag)`)\n        var /** @type {?} */ hasHost = selector.indexOf(_polyfillHostNoCombinator) > -1;\n        // Only scope parts after the first `-shadowcsshost-no-combinator` when it is present\n        var /** @type {?} */ shouldScope = !hasHost;\n        while ((res = sep.exec(selector)) !== null) {\n            var /** @type {?} */ separator = res[1];\n            var /** @type {?} */ part_1 = selector.slice(startIndex, res.index).trim();\n            shouldScope = shouldScope || part_1.indexOf(_polyfillHostNoCombinator) > -1;\n            var /** @type {?} */ scopedPart = shouldScope ? _scopeSelectorPart(part_1) : part_1;\n            scopedSelector += scopedPart + \" \" + separator + \" \";\n            startIndex = sep.lastIndex;\n        }\n        var /** @type {?} */ part = selector.substring(startIndex);\n        shouldScope = shouldScope || part.indexOf(_polyfillHostNoCombinator) > -1;\n        scopedSelector += shouldScope ? _scopeSelectorPart(part) : part;\n        // replace the placeholders with their original values\n        return safeContent.restore(scopedSelector);\n    };\n    /**\n     * @param {?} selector\n     * @return {?} \n     */\n    ShadowCss.prototype._insertPolyfillHostInCssText = /**\n     * @param {?} selector\n     * @return {?} \n     */\n    function (selector) {\n        return selector.replace(_colonHostContextRe, _polyfillHostContext)\n            .replace(_colonHostRe, _polyfillHost);\n    };\n    return ShadowCss;\n})(\n    function () {\n        function SafeSelector(selector) {\n            var _this = this;\n            this.placeholders = [];\n            this.index = 0;\n            // Replaces attribute selectors with placeholders.\n            // The WS in [attr="va lue"] would otherwise be interpreted as a selector separator.\n            selector = selector.replace(/(\\[[^\\]]*\\])/g, function (_, keep) {\n                var /** @type {?} */ replaceBy = \"__ph-\" + _this.index + \"__\";\n                _this.placeholders.push(keep);\n                _this.index++;\n                return replaceBy;\n            });\n            // Replaces the expression in `nth-child(2n + 1)` with a placeholder.\n            // WS and "+" would otherwise be interpreted as selector separators.\n            this._content = selector.replace(/(nth-[-\\w]+)(\\([\\^]+\\))/g, function (_, pseudo, exp) {\n                var /** @type {?} */ replaceBy = \"__ph-\" + _this.index + \"__\";\n                _this.placeholders.push(exp);\n                _this.index++;\n                return pseudo + replaceBy;\n            });\n        }\n        /**\n         * @param {?} content\n         * @return {?} \n         */\n        SafeSelector.prototype.restore = /**\n         * @param {?} content\n         * @return {?} \n         */\n        function (content) {\n            var _this = this;\n            return content.replace(/__ph-(\\d+)__/, function (ph, index) {\n                return _this.placeholders[+index];\n            });\n        };\n        /**\n         * @return {?} \n         */\n        SafeSelector.prototype.content = /**\n         * @return {?} \n         */\n        function () {\n            return this._content;\n        };\n        return SafeSelector;\n    })();\n    nvar _cssContentNextSelectorRe = /polyfill-next-selector[\\^]*content:[\\s]*?(\\[\"\\])(\\.\\*?)\\|1[;\\s]*?(\\[\\^]*?)\\{/gim;\n    nvar _cssContentRuleRe = /(polyfill-rule)[\\^]*content:[\\s]*?(\\[\"\\])(\\.\\*?)\\|3[;\\s]*[\\^]*\\{/gim;\n    nvar _cssContentUnscopedRuleRe = /(polyfill-unscoped-rule)[\\^]*content:[\\s]*?(\\[\"\\])(\\.\\*?)\\|3[;\\s]*[\\^]*\\{/gim;\n    nvar _polyfillHost = '-shadowcsshost';\n    // note: :host-context pre-processed to -shadowcsshostcontext.\n    nvar _polyfillHostContext = '-shadowcsscontext';\n    nvar _parenSuffix = '(?:\\\\\\\\(\\( +\\n  '(?:\\\\\\\\(\\[\\^](\\*\\\\\\\\)\\[\\^](\\*)+?' + \\n  ')\\\\\\\\)?)?(\\[\\^,\\{\\*})';\n    nvar _cssColonHostRe = new RegExp('(' + _polyfillHost + _parenSuffix, 'gim');\n    nvar _cssColonHostContextRe = new RegExp('(' + _polyfillHostContext + _parenSuffix, 'gim');\n    nvar _polyfillHostNoCombinator = _polyfillHost + '-no-combinator';\n    nvar _polyfillHostNoCombinatorRe = /-shadowcsshost-no-combinator[\\^\\s]*/;\n    nvar _shadowDOMSelectorsRe = [\\n  /::shadow/g, \\n  /::content/g, \\n  /\\\\shadow-deep\\\\/g, \\n  /\\\\shadow\\\\/g, \\n];\n    // The deep combinator is deprecated in the CSS spec\n    // Support for `>>>`, `deep`, `::ng-deep` is then also deprecated and will be removed in the future.\n    // see

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https://github.com/angular/angular/pull/17677\nvar _shadowDeepSelectors = /(?:>>>)(?:\|deep\|)(?:::ng-
deep)/g;\nvar _selectorReSuffix = '([>\\|s~+|[.,:][\\|s\\|S]*)?$',\nvar _polyfillHostRe = /-
shadowcsshost/gim;\nvar _colonHostRe = /:host/gim;\nvar _colonHostContextRe = /:host-context/gim;\nvar
_commentRe = ^\\|*\\s*[\\|s\\S]*?\\|\\|g;\n/**\n * @param {?} input\n * @return {?} *\n * ^\nfunction
stripComments(input) {\n  return input.replace(_commentRe, '');\n}\n// all comments except inline source
mapping\nvar _sourceMappingUrlRe = ^\\|*\\s*#\n * sourceMappingURL=[\\|s\\S]+?\\|\\|g;\n/**\n * @param {?}
input\n * @return {?} *\n * ^\nfunction extractSourceMappingUrl(input) {\n  var /** @type {?} */ matcher =
input.match(_sourceMappingUrlRe);\n  return matcher ? matcher[0] : '';\n}\nvar _ruleRe =
/(\\s*)([^\n|\\|\\|\\|]+)?(\\s*)(?:{%BLOCK%}?\\|s*?)(?:\\|s*?)/g;\nvar _curlyRe = /({})/g;\nvar OPEN_CURLY =
'{';\nvar CLOSE_CURLY = '}';\nvar BLOCK_PLACEHOLDER = '%BLOCK%';\nvar CssRule = /** @class */
(function () {\n  function CssRule(selector, content) {\n    this.selector = selector;\n    this.content = content;\n  }\n  return CssRule;\n})();\n/**\n * @param {?} input\n * @param {?} ruleCallback\n * @return {?} *\n * ^\nfunction processRules(input, ruleCallback) {\n  var /** @type {?} */ inputWithEscapedBlocks =
escapeBlocks(input);\n  var /** @type {?} */ nextBlockIndex = 0;\n  return
inputWithEscapedBlocks.escapedString.replace(_ruleRe, function () {\n    var m = [];\n    for (var _i = 0; _i <
arguments.length; _i++) {\n      m[_i] = arguments[_i];\n    }\n    var /** @type {?} */ selector = m[2];\n    var /** @type {?} */ content = '';\n    var /** @type {?} */ suffix = m[4];\n    var /** @type {?} */
contentPrefix = '';\n    if (suffix && suffix.startsWith('{ + BLOCK_PLACEHOLDER)) {\n      content =
inputWithEscapedBlocks.blocks[nextBlockIndex++];\n      suffix =
suffix.substring(BLOCK_PLACEHOLDER.length + 1);\n      contentPrefix = '{';\n    }\n    var /** @type
{?} */ rule = ruleCallback(new CssRule(selector, content));\n    return \"\" + m[1] + rule.selector + m[3] +
contentPrefix + rule.content + suffix;\n  });\n}\n\nvar StringWithEscapedBlocks = /** @class */ (function () {\n
function StringWithEscapedBlocks(escapedString, blocks) {\n  this.escapedString = escapedString;\n  this.blocks =
blocks;\n  }\n  return StringWithEscapedBlocks;\n})();\n/**\n * @param {?} input\n * @return
{?} *\n * ^\nfunction escapeBlocks(input) {\n  var /** @type {?} */ inputParts = input.split(_curlyRe);\n  var /**
** @type {?} */ resultParts = [];\n  var /** @type {?} */ escapedBlocks = [];\n  var /** @type {?} */ bracketCount =
0;\n  var /** @type {?} */ currentBlockParts = [];\n  for (var /** @type {?} */ partIndex = 0; partIndex <
inputParts.length; partIndex++) {\n    var /** @type {?} */ part = inputParts[partIndex];\n    if (part ==
CLOSE_CURLY) {\n      bracketCount--;\n    }\n    if (bracketCount > 0) {\n      currentBlockParts.push(part);\n    }\n    else {\n      if (currentBlockParts.length > 0) {\n        escapedBlocks.push(currentBlockParts.join(''));\n        resultParts.push(BLOCK_PLACEHOLDER);\n        currentBlockParts = [];\n      }\n      resultParts.push(part);\n    }\n    if (part == OPEN_CURLY) {\n      bracketCount++;\n    }\n  }\n  if (currentBlockParts.length > 0) {\n    escapedBlocks.push(currentBlockParts.join(''));\n    resultParts.push(BLOCK_PLACEHOLDER);\n  }\n  return
new StringWithEscapedBlocks(resultParts.join(''), escapedBlocks);\n}\n}\n\n/**\n * @fileoverview added by tsickle\n
* @suppress {checkTypes} checked by tsc\n * ^\n * @license\n * Copyright Google Inc. All Rights Reserved.\n
* Use of this source code is governed by an MIT-style license that can be\n * found in the LICENSE file at
https://angular.io/license\n * ^\nvar COMPONENT_VARIABLE = '%COMP%';\nvar HOST_ATTR = \"_ngghost-\" +
COMPONENT_VARIABLE;\nvar CONTENT_ATTR = \"_ngcontent-\" + COMPONENT_VARIABLE;\nvar
StylesCompileDependency = /** @class */ (function () {\n  function StylesCompileDependency(name, moduleUrl,
setValue) {\n    this.name = name;\n    this.moduleUrl = moduleUrl;\n    this.setValue = setValue;\n  }\n  return
StylesCompileDependency;\n})();\nvar CompiledStylesheet = /** @class */ (function () {\n  function
CompiledStylesheet(outputCtx, stylesVar, dependencies, isShimmed, meta) {\n    this.outputCtx = outputCtx;\n    this.stylesVar =
stylesVar;\n    this.dependencies = dependencies;\n    this.isShimmed = isShimmed;\n    this.meta = meta;\n  }\n  return
CompiledStylesheet;\n})();\nvar StyleCompiler = /** @class */ (function () {\n  function StyleCompiler(_urlResolver) {\n    this._urlResolver = _urlResolver;\n    this._shadowCss = new
ShadowCss();\n  }\n  /**\n   * @param {?} outputCtx\n   * @param {?} comp\n   * @return {?} *\n   * ^\n  StyleCompiler.prototype.compileComponent = /**\n   * @param {?} outputCtx\n   * @param {?} comp\n   *

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{?}\n *\nfunction replaceNgsp(value) {\n // lexer is replacing the &nbsp; pseudo-entity with NGSP_UNICODE\n
return value.replace(new RegExp(NGSP_UNICODE, 'g'), ' ');}\n\n/**\n * This visitor can walk HTML parse tree
and remove / trim text nodes using the following rules:\n * - consider spaces, tabs and new lines as whitespace
characters;\n * - drop text nodes consisting of whitespace characters only;\n * - for all other text nodes replace
consecutive whitespace characters with one space;\n * - convert &nbsp; pseudo-entity to a single space;\n *\n * Removal and trimming of whitespaces have positive performance impact (less code to generate\n * while compiling
templates, faster view creation). At the same time it can be \"destructive\" in some cases (whitespaces can
influence layout). Because of the potential of breaking layout\n * this visitor is not activated by default in Angular 5
and people need to explicitly opt-in for\n * whitespace removal. The default option for whitespace removal will be
revisited in Angular 6\n * and might be changed to \"on\" by default.\n *\nvar WhitespaceVisitor = /** @class */
(function () {\n function WhitespaceVisitor() {\n }\n /**\n * @param {?} element\n * @param {?}
context\n * @return {?}\n *\n WhitespaceVisitor.prototype.visitElement = /**\n * @param {?} element\n
* @param {?} context\n * @return {?}\n *\n function (element, context) {\n if
(SKIP_WS_TRIM_TAGS.has(element.name) || hasPreserveWhitespacesAttr(element.attrs)) {\n // don't
descent into elements where we need to preserve whitespaces\n // but still visit all attributes to eliminate one
used as a market to preserve WS\n return new Element(element.name, visitAll(this, element.attrs),
element.children, element.sourceSpan, element.startSourceSpan, element.endSourceSpan);\n } return new
Element(element.name, element.attrs, visitAll(this, element.children), element.sourceSpan,
element.startSourceSpan, element.endSourceSpan);\n }; /**\n * @param {?} attribute\n * @param {?}
context\n * @return {?}\n *\n WhitespaceVisitor.prototype.visitAttribute = /**\n * @param {?}
attribute\n * @param {?} context\n * @return {?}\n *\n function (attribute, context) {\n return
attribute.name !== PRESERVE_WS_ATTR_NAME ? attribute : null;\n }; /**\n * @param {?} text\n *
@param {?} context\n * @return {?}\n *\n WhitespaceVisitor.prototype.visitText = /**\n * @param {?}
text\n * @param {?} context\n * @return {?}\n *\n function (text, context) {\n var /** @type {?} */
isNotBlank = text.value.match(NO_WS_REGEXP);\n if (isNotBlank) {\n return new
Text(replaceNgsp(text.value).replace(WS_REPLACE_REGEXP, ' '), text.sourceSpan);\n } return null;\n
}; /**\n * @param {?} comment\n * @param {?} context\n * @return {?}\n *\n
WhitespaceVisitor.prototype.visitComment = /**\n * @param {?} comment\n * @param {?} context\n
* @return {?}\n *\n function (comment, context) { return comment; }; /**\n * @param {?} expansion\n
* @param {?} context\n * @return {?}\n *\n WhitespaceVisitor.prototype.visitExpansion = /**\n *
@param {?} expansion\n * @param {?} context\n * @return {?}\n *\n function (expansion, context) {
return expansion; }; /**\n * @param {?} expansionCase\n * @param {?} context\n * @return {?}\n
*\n WhitespaceVisitor.prototype.visitExpansionCase = /**\n * @param {?} expansionCase\n * @param {?}
context\n * @return {?}\n *\n function (expansionCase, context) { return expansionCase; }; return
WhitespaceVisitor;\n})();\n\n/**\n * @param {?} htmlAstWithErrors\n * @return {?}\n *\nfunction
removeWhitespaces(htmlAstWithErrors) {\n return new ParseTreeResult(visitAll(new WhitespaceVisitor(),
htmlAstWithErrors.rootNodes), htmlAstWithErrors.errors);\n}\n\n/**\n * @fileoverview added by tsickle\n *
@suppress {checkTypes} checked by tsc\n *\n/**\n * @license\n * Copyright Google Inc. All Rights Reserved.\n
*\n * Use of this source code is governed by an MIT-style license that can be\n * found in the LICENSE file at
https://angular.io/license\n *\n http://cldr.unicode.org/index/cldr-spec/plural-rules\n
var PLURAL_CASES =
['zero', 'one', 'two', 'few', 'many', 'other'];\n\n/**\n * Expands special forms into elements.\n *\n * For example,\n *\n * ``\n * { messages.length, plural,\n * =0 {zero}\n * =1 {one}\n * other {more than one}\n * }\n * ``\n * will
be expanded into\n *\n * ``\n * <ng-container [ngPlural]=\"messages.length\">\n * <ng-template
ngPluralCase=\"=0\">zero</ng-template>\n * <ng-template ngPluralCase=\"=1\">one</ng-template>\n * <ng-
template ngPluralCase=\"other\">more than one</ng-template>\n * </ng-container>\n * ``\n * @param {?} nodes\n
* @return {?}\n *\nfunction expandNodes(nodes) {\n var /** @type {?} */ expander = new _Expander();\n
return new ExpansionResult(visitAll(expander, nodes), expander.isExpanded, expander.errors);\n}\n\nvar
ExpansionResult = /** @class */ (function () {\n function ExpansionResult(nodes, expanded, errors) {\n

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\"LITERAL_ATTR\";\nBoundPropertyType[BoundPropertyType.ANIMATION] = \"ANIMATION\";\n/**\n *
Represents a parsed property.\n *\nvar BoundProperty = /** @class */ (function () {\n  function
BoundProperty(name, expression, type, sourceSpan) {\n    this.name = name;\n    this.expression =
expression;\n    this.type = type;\n    this.sourceSpan = sourceSpan;\n    this.isLiteral = this.type ===
BoundPropertyType.LITERAL_ATTR;\n    this.isAnimation = this.type ===
BoundPropertyType.ANIMATION;\n  }\n  return BoundProperty;\n})();\n/**\n * Parses bindings in templates
and in the directive host area.\n *\nvar BindingParser = /** @class */ (function () {\n  function
BindingParser(_exprParser, _interpolationConfig, _schemaRegistry, pipes, _targetErrors) {\n    var _this = this;\n    this._exprParser = _exprParser;\n    this._interpolationConfig = _interpolationConfig;\n    this._schemaRegistry = _schemaRegistry;\n    this._targetErrors = _targetErrors;\n    this.pipesByName = new
Map();\n    this._usedPipes = new Map();\n    pipes.forEach(function (pipe) { return
_this.pipesByName.set(pipe.name, pipe); });\n  }\n  /**\n   * @return {?}\n   */\n  BindingParser.prototype.getUsedPipes = /**\n   * @return {?}\n   */\n  function () { return
Array.from(this._usedPipes.values()); }; \n  /**\n   * @param {?} dirMeta\n   * @param {?} elementSelector\n   * @param {?} sourceSpan\n   * @return {?}\n   */\n  BindingParser.prototype.createDirectiveHostPropertyAsts
= /**\n   * @param {?} dirMeta\n   * @param {?} elementSelector\n   * @param {?} sourceSpan\n   * @return
{?}\n   */\n  function (dirMeta, elementSelector, sourceSpan) {\n    var _this = this;\n    if
(dirMeta.hostProperties) {\n      var /** @type {?} */ boundProps_1 = [];\n      Object.keys(dirMeta.hostProperties).forEach(function (propName) {\n        var /** @type {?} */ expression =
dirMeta.hostProperties[propName];\n        if (typeof expression === 'string') {\n
_this.parsePropertyBinding(propName, expression, true, sourceSpan, [], boundProps_1);\n        }\n      else {\n        _this._reportError(\"Value of the host property binding \"\" + propName + \"\" needs to be a
string representing an expression but got \"\" + expression + \"\" (\" + typeof expression + \")\", sourceSpan);\n      }\n    }\n    return boundProps_1.map(function (prop) { return
_this.createElementPropertyAst(elementSelector, prop); });\n  }\n  return null;\n  }; \n  /**\n   * @param
{?} dirMeta\n   * @param {?} sourceSpan\n   * @return {?}\n   */\n  BindingParser.prototype.createDirectiveHostEventAsts = /**\n   * @param {?} dirMeta\n   * @param {?}
sourceSpan\n   * @return {?}\n   */\n  function (dirMeta, sourceSpan) {\n    var _this = this;\n    if
(dirMeta.hostListeners) {\n      var /** @type {?} */ targetEventAsts_1 = [];\n      Object.keys(dirMeta.hostListeners).forEach(function (propName) {\n        var /** @type {?} */ expression =
dirMeta.hostListeners[propName];\n        if (typeof expression === 'string') {\n
_this.parseEvent(propName, expression, sourceSpan, [], targetEventAsts_1);\n        }\n      else {\n
_this._reportError(\"Value of the host listener \"\" + propName + \"\" needs to be a string representing an
expression but got \"\" + expression + \"\" (\" + typeof expression + \")\", sourceSpan);\n      }\n    }\n    return targetEventAsts_1;\n  }\n  return null;\n  }; \n  /**\n   * @param {?} value\n   * @param
{?} sourceSpan\n   * @return {?}\n   */\n  BindingParser.prototype.parseInterpolation = /**\n   * @param {?}
value\n   * @param {?} sourceSpan\n   * @return {?}\n   */\n  function (value, sourceSpan) {\n    var /**
@type {?} */ sourceInfo = sourceSpan.start.toString();\n    try {\n      var /** @type {?} */ ast = /** @type
{?} */ ((this._exprParser.parseInterpolation(value, sourceInfo, this._interpolationConfig));\n      if (ast)\n        this._reportExpressionParserErrors(ast.errors, sourceSpan);\n      this._checkPipes(ast, sourceSpan);\n      return ast;\n    }\n    catch (** @type {?} */ e) {\n      this._reportError(\"\" + e, sourceSpan);\n      return this._exprParser.wrapLiteralPrimitive('ERROR', sourceInfo);\n    }\n  }; \n  /**\n   * @param {?}
prefixToken\n   * @param {?} value\n   * @param {?} sourceSpan\n   * @param {?} targetMatchableAttrs\n   * @param {?} targetProps\n   * @param {?} targetVars\n   * @return {?}\n   */\n  BindingParser.prototype.parseInlineTemplateBinding = /**\n   * @param {?} prefixToken\n   * @param {?}
value\n   * @param {?} sourceSpan\n   * @param {?} targetMatchableAttrs\n   * @param {?} targetProps\n   *
@param {?} targetVars\n   * @return {?}\n   */\n  function (prefixToken, value, sourceSpan,
targetMatchableAttrs, targetProps, targetVars) {\n    var /** @type {?} */ bindings =

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this._parseTemplateBindings(prefixToken, value, sourceSpan);\n    for (var /** @type {?} */ i = 0; i <
bindings.length; i++) {\n        var /** @type {?} */ binding = bindings[i];\n        if (binding.keyIsVar) {\n            targetVars.push(new VariableAst(binding.key, binding.name, sourceSpan));\n        }\n        else if
(binding.expression) {\n            this._parsePropertyAst(binding.key, binding.expression, sourceSpan,
targetMatchableAttrs, targetProps);\n        }\n        else {\n            targetMatchableAttrs.push([binding.key,
]);\n            this.parseLiteralAttr(binding.key, null, sourceSpan, targetMatchableAttrs, targetProps);\n        }\n    }\n};\n /**\n * @param {?} prefixToken\n * @param {?} value\n * @param {?} sourceSpan\n *
@return {?}\n */\n BindingParser.prototype._parseTemplateBindings = /**\n * @param {?} prefixToken\n
* @param {?} value\n * @param {?} sourceSpan\n * @return {?}\n */\n function (prefixToken, value,
sourceSpan) {\n    var _this = this;\n    var /** @type {?} */ sourceInfo = sourceSpan.start.toString();\n    try
{\n        var /** @type {?} */ bindingsResult = this._exprParser.parseTemplateBindings(prefixToken, value,
sourceInfo);\n        this._reportExpressionParserErrors(bindingsResult.errors, sourceSpan);\n
bindingsResult.templateBindings.forEach(function (binding) {\n            if (binding.expression) {\n
_this._checkPipes(binding.expression, sourceSpan);\n            }\n        });\n
bindingsResult.warnings.forEach(function (warning) { _this._reportError(warning, sourceSpan,
ParseErrorLevel.WARNING); });\n        return bindingsResult.templateBindings;\n    }\n    catch (/** @type
{?} */ e) {\n        this._reportError("\n" + e, sourceSpan);\n        return [];\n    }\n};\n /**\n * @param
{?} name\n * @param {?} value\n * @param {?} sourceSpan\n * @param {?} targetMatchableAttrs\n *
@param {?} targetProps\n * @return {?}\n */\n BindingParser.prototype.parseLiteralAttr = /**\n *
@param {?} name\n * @param {?} value\n * @param {?} sourceSpan\n * @param {?}
targetMatchableAttrs\n * @param {?} targetProps\n * @return {?}\n */\n function (name, value,
sourceSpan, targetMatchableAttrs, targetProps) {\n    if (_isAnimationLabel(name)) {\n        name =
name.substring(1);\n        if (value) {\n            this._reportError("\nAssigning animation triggers via
@prop=\\\\"exp\\\\" attributes with an expression is invalid.\n" +\n                "\n Use property bindings (e.g.
[@prop]=\\\\"exp\\\\" or use an attribute without a value (e.g. @prop) instead.\n", sourceSpan,
ParseErrorLevel.ERROR);\n        }\n        this._parseAnimation(name, value, sourceSpan,
targetMatchableAttrs, targetProps);\n    }\n    else {\n        targetProps.push(new BoundProperty(name,
this._exprParser.wrapLiteralPrimitive(value, "\n"), BoundPropertyType.LITERAL_ATTR, sourceSpan));\n    }\n};\n /**\n * @param {?} name\n * @param {?} expression\n * @param {?} isHost\n * @param {?}
sourceSpan\n * @param {?} targetMatchableAttrs\n * @param {?} targetProps\n * @return {?}\n */\n
BindingParser.prototype.parsePropertyBinding = /**\n * @param {?} name\n * @param {?} expression\n *
@param {?} isHost\n * @param {?} sourceSpan\n * @param {?} targetMatchableAttrs\n * @param {?}
targetProps\n * @return {?}\n */\n function (name, expression, isHost, sourceSpan, targetMatchableAttrs,
targetProps) {\n    var /** @type {?} */ isAnimationProp = false;\n    if
(name.startsWith(ANIMATE_PROP_PREFIX)) {\n        isAnimationProp = true;\n        name =
name.substring(ANIMATE_PROP_PREFIX.length);\n    }\n    else if (_isAnimationLabel(name)) {\n
isAnimationProp = true;\n        name = name.substring(1);\n    }\n    if (isAnimationProp) {\n
this._parseAnimation(name, expression, sourceSpan, targetMatchableAttrs, targetProps);\n    }\n    else {\n
this._parsePropertyAst(name, this._parseBinding(expression, isHost, sourceSpan), sourceSpan,
targetMatchableAttrs, targetProps);\n    }\n};\n /**\n * @param {?} name\n * @param {?} value\n *
@param {?} sourceSpan\n * @param {?} targetMatchableAttrs\n * @param {?} targetProps\n * @return
{?}\n */\n BindingParser.prototype.parsePropertyInterpolation = /**\n * @param {?} name\n * @param
{?} value\n * @param {?} sourceSpan\n * @param {?} targetMatchableAttrs\n * @param {?} targetProps\n
* @return {?}\n */\n function (name, value, sourceSpan, targetMatchableAttrs, targetProps) {\n    var /**
@type {?} */ expr = this.parseInterpolation(value, sourceSpan);\n    if (expr) {\n
this._parsePropertyAst(name, expr, sourceSpan, targetMatchableAttrs, targetProps);\n        return true;\n    }\n
return false;\n};\n /**\n * @param {?} name\n * @param {?} ast\n * @param {?} sourceSpan\n *
@param {?} targetMatchableAttrs\n * @param {?} targetProps\n * @return {?}\n */\n

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BindingParser.prototype._parsePropertyAst = /**\n
 * @param {?} name\n
 * @param {?} ast\n
 * @param
 {?} sourceSpan\n
 * @param {?} targetMatchableAttrs\n
 * @param {?} targetProps\n
 * @return {?}\n
 */\n
function (name, ast, sourceSpan, targetMatchableAttrs, targetProps) {\n
targetMatchableAttrs.push([name, /** @type {?} */ ((ast.source))]);\n
targetProps.push(new
BoundProperty(name, ast, BoundPropertyType.DEFAULT, sourceSpan));\n
};\n
/**\n
 * @param {?} name\n
 * @param {?} expression\n
 * @param {?} sourceSpan\n
 * @param {?} targetMatchableAttrs\n
 * @param
 {?} targetProps\n
 * @return {?}\n
 */\n
BindingParser.prototype._parseAnimation = /**\n
 * @param {?}
 name\n
 * @param {?} expression\n
 * @param {?} sourceSpan\n
 * @param {?} targetMatchableAttrs\n
 *
 @param {?} targetProps\n
 * @return {?}\n
 */\n
function (name, expression, sourceSpan,
targetMatchableAttrs, targetProps) {\n
// This will occur when a @trigger is not paired with an expression.\n
// For animations it is valid to not have an expression since */void\n
// states will be applied by angular when the
element is attached/detached\n
var /** @type {?} */ ast = this._parseBinding(expression || 'undefined', false,
sourceSpan);\n
targetMatchableAttrs.push([name, /** @type {?} */ ((ast.source))]);\n
targetProps.push(new
BoundProperty(name, ast, BoundPropertyType.ANIMATION, sourceSpan));\n
};\n
/**\n
 * @param {?}
 value\n
 * @param {?} isHostBinding\n
 * @param {?} sourceSpan\n
 * @return {?}\n
 */\n
BindingParser.prototype._parseBinding = /**\n
 * @param {?} value\n
 * @param {?} isHostBinding\n
 *
 @param {?} sourceSpan\n
 * @return {?}\n
 */\n
function (value, isHostBinding, sourceSpan) {\n
var /**
 @type {?} */ sourceInfo = sourceSpan.start.toString();\n
try {\n
var /** @type {?} */ ast =
isHostBinding ?\n
this._exprParser.parseSimpleBinding(value, sourceInfo, this._interpolationConfig) :\n
this._exprParser.parseBinding(value, sourceInfo, this._interpolationConfig);\n
if (ast)\n
this._reportExpressionParserErrors(ast.errors, sourceSpan);\n
this._checkPipes(ast, sourceSpan);\n
return ast;\n
}\n
catch (** @type {?} */ e) {\n
this._reportError("\n" + e, sourceSpan);\n
return this._exprParser.wrapLiteralPrimitive('ERROR', sourceInfo);\n
}\n
};\n
/**\n
 * @param {?}
 elementSelector\n
 * @param {?} boundProp\n
 * @return {?}\n
 */\n
BindingParser.prototype.createElementPropertyAst = /**\n
 * @param {?} elementSelector\n
 * @param {?}
 boundProp\n
 * @return {?}\n
 */\n
function (elementSelector, boundProp) {\n
if
(boundProp.isAnimation) {\n
return new BoundElementPropertyAst(boundProp.name,
PropertyBindingType.Animation, SecurityContext.NONE, boundProp.expression, null, boundProp.sourceSpan);\n
}\n
var /** @type {?} */ unit = null;\n
var /** @type {?} */ bindingType = /** @type {?} */
((undefined));\n
var /** @type {?} */ boundPropertyName = null;\n
var /** @type {?} */ parts =
boundProp.name.split(PROPERTY_PARTS_SEPARATOR);\n
var /** @type {?} */ securityContexts = /**
 @type {?} */ ((undefined));\n
// Check check for special cases (prefix style, attr, class)\n
if (parts.length >
1) {\n
if (parts[0] == ATTRIBUTE_PREFIX) {\n
boundPropertyName = parts[1];\n
this._validatePropertyOrAttributeName(boundPropertyName, boundProp.sourceSpan, true);\n
securityContexts = calcPossibleSecurityContexts(this._schemaRegistry, elementSelector, boundPropertyName,
true);\n
var /** @type {?} */ nsSeparatorIdx = boundPropertyName.indexOf(':');\n
if
(nsSeparatorIdx > -1) {\n
var /** @type {?} */ ns = boundPropertyName.substring(0, nsSeparatorIdx);\n
var /** @type {?} */ name_1 = boundPropertyName.substring(nsSeparatorIdx + 1);\n
boundPropertyName = mergeNsAndName(ns, name_1);\n
}\n
bindingType =
PropertyBindingType.Attribute;\n
}\n
else if (parts[0] == CLASS_PREFIX) {\n
boundPropertyName = parts[1];\n
bindingType = PropertyBindingType.Class;\n
securityContexts
= [SecurityContext.NONE];\n
}\n
else if (parts[0] == STYLE_PREFIX) {\n
unit =
parts.length > 2 ? parts[2] : null;\n
boundPropertyName = parts[1];\n
bindingType =
PropertyBindingType.Style;\n
securityContexts = [SecurityContext.STYLE];\n
}\n
}\n
// If
not a special case, use the full property name\n
if (boundPropertyName === null) {\n
boundPropertyName = this._schemaRegistry.getMappedPropName(boundProp.name);\n
securityContexts =
calcPossibleSecurityContexts(this._schemaRegistry, elementSelector, boundPropertyName, false);\n
bindingType = PropertyBindingType.Property;\n
}

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this._validatePropertyName(boundPropertyName, boundProp.sourceSpan, false);\n    }\n    return
new BoundElementPropertyAst(boundPropertyName, bindingType, securityContexts[0], boundProp.expression,
unit, boundProp.sourceSpan);\n    };\n    /**\n     * @param {?} name\n     * @param {?} expression\n     * @param
 {?} sourceSpan\n     * @param {?} targetMatchableAttrs\n     * @param {?} targetEvents\n     * @return {?}\n
*/\n    BindingParser.prototype.parseEvent = /**\n     * @param {?} name\n     * @param {?} expression\n     *
@param {?} sourceSpan\n     * @param {?} targetMatchableAttrs\n     * @param {?} targetEvents\n     * @return
{?}\n     */\n    function (name, expression, sourceSpan, targetMatchableAttrs, targetEvents) {\n        if
(_isAnimationLabel(name)) {\n            name = name.substr(1);\n            this._parseAnimationEvent(name,
expression, sourceSpan, targetEvents);\n        }\n        else {\n            this._parseEvent(name, expression,
sourceSpan, targetMatchableAttrs, targetEvents);\n        }\n    };\n    /**\n     * @param {?} name\n     * @param {?}
expression\n     * @param {?} sourceSpan\n     * @param {?} targetEvents\n     * @return {?}\n     */\n    BindingParser.prototype._parseAnimationEvent = /**\n     * @param {?} name\n     * @param {?} expression\n     *
@param {?} sourceSpan\n     * @param {?} targetEvents\n     * @return {?}\n     */\n    function (name, expression,
sourceSpan, targetEvents) {\n        var /** @type {?} */ matches = splitAtPeriod(name, [name, "]);\n        var /**
@type {?} */ eventName = matches[0];\n        var /** @type {?} */ phase = matches[1].toLowerCase();\n        if
(phase) {\n            switch (phase) {\n                case 'start':\n                    case 'done':\n                        var /** @type {?} */
ast = this._parseAction(expression, sourceSpan);\n                            targetEvents.push(new BoundEventAst(eventName,
null, phase, ast, sourceSpan));\n                            break;\n                            default:\n                                this._reportError("\The
provided animation output phase value '\\'" + phase + "\\'" for '\\'"@'" + eventName + "\\'" is not supported (use
start or done)", sourceSpan);\n                            break;\n                        }\n                    }\n                else {\n                    this._reportError("\The
animation trigger output event (@'" + eventName + "\\'" is missing its phase value name (start or done are currently
supported)", sourceSpan);\n                }\n            };\n            /**\n             * @param {?} name\n             * @param {?} expression\n             *
@param {?} sourceSpan\n             * @param {?} targetMatchableAttrs\n             * @param {?} targetEvents\n             * @return
{?}\n             */\n            BindingParser.prototype._parseEvent = /**\n             * @param {?} name\n             * @param {?} expression\n             *
@param {?} sourceSpan\n             * @param {?} targetMatchableAttrs\n             * @param {?} targetEvents\n             *
@return {?}\n             */\n            function (name, expression, sourceSpan, targetMatchableAttrs, targetEvents) {\n                // long
format: 'target: eventName'\n                var _a = splitAtColon(name, [/** @type {?} */ ((null)), name]), target = _a[0],
eventName = _a[1];\n                var /** @type {?} */ ast = this._parseAction(expression, sourceSpan);\n                targetMatchableAttrs.push([/** @type {?} */ ((name)), /** @type {?} */ ((ast.source))]);\n                targetEvents.push(new BoundEventAst(eventName, target, null, ast, sourceSpan));\n                // Don't detect directives
for event names for now,\n                // so don't add the event name to the matchableAttrs\n            };\n            /**\n             * @param
 {?} value\n             * @param {?} sourceSpan\n             * @return {?}\n             */\n            BindingParser.prototype._parseAction =
/**\n             * @param {?} value\n             * @param {?} sourceSpan\n             * @return {?}\n             */\n            function (value,
sourceSpan) {\n                var /** @type {?} */ sourceInfo = sourceSpan.start.toString();\n                try {\n                    var /**
@type {?} */ ast = this._exprParser.parseAction(value, sourceInfo, this._interpolationConfig);\n                    if (ast) {\n                        this._reportExpressionParserErrors(ast.errors, sourceSpan);\n                    }\n                    if (!ast || ast.ast instanceof
EmptyExpr) {\n                        this._reportError("\Empty expressions are not allowed", sourceSpan);\n                        return
this._exprParser.wrapLiteralPrimitive('ERROR', sourceInfo);\n                    }\n                    this._checkPipes(ast,
sourceSpan);\n                    return ast;\n                }\n                catch (/** @type {?} */ e) {\n                    this._reportError("\'" + e,
sourceSpan);\n                    return this._exprParser.wrapLiteralPrimitive('ERROR', sourceInfo);\n                }\n            };\n            /**\n             * @param {?} message\n             * @param {?} sourceSpan\n             * @param {?=} level\n             * @return {?}\n             */\n            BindingParser.prototype._reportError = /**\n             * @param {?} message\n             * @param {?} sourceSpan\n             *
@param {?=} level\n             * @return {?}\n             */\n            function (message, sourceSpan, level) {\n                if (level === void
0) { level = ParseErrorLevel.ERROR; }\n                this._targetErrors.push(new ParseError(sourceSpan, message,
level));\n            };\n            /**\n             * @param {?} errors\n             * @param {?} sourceSpan\n             * @return {?}\n             */\n            BindingParser.prototype._reportExpressionParserErrors = /**\n             * @param {?} errors\n             * @param {?}
sourceSpan\n             * @return {?}\n             */\n            function (errors, sourceSpan) {\n                for (var _i = 0, errors_1 = errors; _i
< errors_1.length; _i++) {\n                    var error = errors_1[_i];\n                    this._reportError(error.message, sourceSpan);\n                }\n            }\n        }\n    }\n}

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*\nfunction warnOnlyOnce(warnings) {\n  return function (error) {\n    if (warnings.indexOf(error.msg) !== -1)\n    {\n      warningCounts[error.msg] = (warningCounts[error.msg] || 0) + 1;\n      return\n      warningCounts[error.msg] <= 1;\n    }\n    return true;\n  };}\n\nvar TemplateParseError = /** @class */\n(function (_super) {\n  __extends(TemplateParseError, _super);\n  function TemplateParseError(message, span,\n  level) {\n    return _super.call(this, span, message, level) || this;\n  }\n  return\n  TemplateParseError;\n})(ParseError);\n\nvar TemplateParseResult = /** @class */ (function () {\n  function\n  TemplateParseResult(templateAst, usedPipes, errors) {\n    this.templateAst = templateAst;\n    this.usedPipes\n    = usedPipes;\n    this.errors = errors;\n  }\n  return TemplateParseResult;\n})();\n\nvar TemplateParser = /**\n  @class */ (function () {\n  function TemplateParser(_config, _reflector, _exprParser, _schemaRegistry,\n  _htmlParser, _console, transforms) {\n    this._config = _config;\n    this._reflector = _reflector;\n    this._exprParser = _exprParser;\n    this._schemaRegistry = _schemaRegistry;\n    this._htmlParser =\n    _htmlParser;\n    this._console = _console;\n    this.transforms = transforms;\n  }\n  /**\n   * @param {?} component\n   * @param {?} template\n   * @param {?} directives\n   * @param {?} pipes\n   * @param {?} schemas\n   * @param {?} templateUrl\n   * @param {?} preserveWhitespaces\n   * @return {?} */\n   *\n  TemplateParser.prototype.parse = /**\n   * @param {?} component\n   * @param {?} template\n   * @param\n   {?} directives\n   * @param {?} pipes\n   * @param {?} schemas\n   * @param {?} templateUrl\n   * @param\n   {?} preserveWhitespaces\n   * @return {?} */\n   *\n  function (component, template, directives, pipes, schemas,\n  templateUrl, preserveWhitespaces) {\n    var /** @type {?} */ result = this.tryParse(component, template,\n  directives, pipes, schemas, templateUrl, preserveWhitespaces);\n    var /** @type {?} */ warnings = /** @type\n   {?} */ /\n  ((result.errors)).filter(function (error) { return error.level === ParseErrorLevel.WARNING;\n  }).filter(warnOnlyOnce([TEMPLATE_ATTR_DEPRECATION_WARNING,\n  TEMPLATE_ELEMENT_DEPRECATION_WARNING]));\n    var /** @type {?} */ errors = /** @type {?} */\n  ((result.errors)).filter(function (error) { return error.level === ParseErrorLevel.ERROR; });\n    if\n  (warnings.length > 0) {\n      this._console.warn("Template parse warnings:\\n" + warnings.join("\\n"));\n    }\n    if (errors.length > 0) {\n      var /** @type {?} */ errorString = errors.join("\\n");\n      throw\n  syntaxError("Template parse errors:\\n" + errorString, errors);\n    }\n    return { template: /** @type {?} */\n  ((result.templateAst)), pipes: /** @type {?} */ /\n  ((result.usedPipes)) }; }\n  /**\n   * @param {?} component\n   * @param {?} template\n   * @param {?} directives\n   * @param {?} pipes\n   * @param {?} schemas\n   * @param {?} templateUrl\n   * @param {?} preserveWhitespaces\n   * @return {?} */\n   *\n  TemplateParser.prototype.tryParse = /**\n   * @param {?} component\n   * @param {?} template\n   * @param\n   {?} directives\n   * @param {?} pipes\n   * @param {?} schemas\n   * @param {?} templateUrl\n   * @param\n   {?} preserveWhitespaces\n   * @return {?} */\n   *\n  function (component, template, directives, pipes, schemas,\n  templateUrl, preserveWhitespaces) {\n    var /** @type {?} */ htmlParseResult = typeof template === 'string' ?\n  /** @type {?} */ /\n  ((this._htmlParser)).parse(template, templateUrl, true, this.getInterpolationConfig(component)) : \n  template;\n    if (!preserveWhitespaces) {\n      htmlParseResult =\n  removeWhitespaces(htmlParseResult);\n    }\n    return this.tryParseHtml(this.expandHtml(htmlParseResult),\n  component, directives, pipes, schemas);\n  }; }\n  /**\n   * @param {?} htmlAstWithErrors\n   * @param {?} component\n   * @param {?} directives\n   * @param {?} pipes\n   * @param {?} schemas\n   * @return {?} */\n   *\n  TemplateParser.prototype.tryParseHtml = /**\n   * @param {?} htmlAstWithErrors\n   * @param {?} component\n   * @param {?} directives\n   * @param {?} pipes\n   * @param {?} schemas\n   * @return {?} */\n   *\n  function (htmlAstWithErrors, component, directives, pipes, schemas) {\n    var /** @type {?} */ result;\n    var /** @type {?} */ errors = htmlAstWithErrors.errors;\n    var /** @type {?} */ usedPipes = [];\n    if\n  (htmlAstWithErrors.rootNodes.length > 0) {\n      var /** @type {?} */ uniqDirectives =\n  removeSummaryDuplicates(directives);\n      var /** @type {?} */ uniqPipes =\n  removeSummaryDuplicates(pipes);\n      var /** @type {?} */ providerViewContext = new\n  ProviderViewContext(this._reflector, component);\n      var /** @type {?} */ interpolationConfig = /** @type\n   {?} */ /\n  ((undefined));\n      if (component.template && component.template.interpolation) {\n        interpolationConfig = {\n          start: component.template.interpolation[0],\n          end:\n
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component.template.interpolation[1]\n          }\n          var /** @type {?} */ bindingParser = new
BindingParser(this._exprParser, /** @type {?} */ ((interpolationConfig)), this._schemaRegistry, uniqPipes,
errors);\n          var /** @type {?} */ parseVisitor = new TemplateParseVisitor(this._reflector, this._config,
providerViewContext, uniqDirectives, bindingParser, this._schemaRegistry, schemas, errors);\n          result =
visitAll(parseVisitor, htmlAstWithErrors.rootNodes, EMPTY_ELEMENT_CONTEXT);\n          errors.push.apply(errors, providerViewContext.errors);\n          usedPipes.push.apply(usedPipes,
bindingParser.getUsedPipes());\n          }\n          else {\n          result = [];\n          }\n          this._assertNoReferenceDuplicationOnTemplate(result, errors);\n          if (errors.length > 0) {\n          return new
TemplateParseResult(result, usedPipes, errors);\n          }\n          if (this.transforms) {\n          this.transforms.forEach(function (transform) { result = templateVisitAll(transform, result); });\n          }\n          return
new TemplateParseResult(result, usedPipes, errors);\n          };\n          /**\n          * @param {?} htmlAstWithErrors\n          *
@param {?=} forced\n          * @return {?}\n          * ^\n          TemplateParser.prototype.expandHtml = /**\n          * @param {?}
htmlAstWithErrors\n          * @param {?=} forced\n          * @return {?}\n          * ^\n          function (htmlAstWithErrors, forced)
{\n          if (forced === void 0) { forced = false; }\n          var /** @type {?} */ errors = htmlAstWithErrors.errors;\n          if (errors.length === 0 || forced) {\n          // Transform ICU messages to angular directives\n          var /** @type
{?} */ expandedHtmlAst = expandNodes(htmlAstWithErrors.rootNodes);\n          errors.push.apply(errors,
expandedHtmlAst.errors);\n          htmlAstWithErrors = new ParseTreeResult(expandedHtmlAst.nodes, errors);\n          }\n          return htmlAstWithErrors;\n          };\n          /**\n          * @param {?} component\n          * @return {?}\n          * ^\n          TemplateParser.prototype.getInterpolationConfig = /**\n          * @param {?} component\n          * @return {?}\n          * ^\n          function (component) {\n          if (component.template) {\n          return
InterpolationConfig.fromArray(component.template.interpolation);\n          }\n          return undefined;\n          };\n          /**
@internal *\n          /**\n          * @@internal\n          * @param {?} result\n          * @param {?} errors\n          * @return {?}\n          * ^\n          TemplateParser.prototype._assertNoReferenceDuplicationOnTemplate = /**\n          * @@internal\n          * @param
{?} result\n          * @param {?} errors\n          * @return {?}\n          * ^\n          function (result, errors) {\n          var /** @type {?} */
existingReferences = [];\n          result.filter(function (element) { return !!(/** @type {?} */ (element)).references;
}))\n          .forEach(function (element) {\n          return (/** @type {?} */ (element)).references.forEach(function
(reference) {\n          var /** @type {?} */ name = reference.name;\n          if
(existingReferences.indexOf(name) < 0) {\n          existingReferences.push(name);\n          }\n          else {\n          var /** @type {?} */ error = new TemplateParseError("Reference \\\"#\\\" + name + \\\"\\\" is
defined several times", reference.sourceSpan, ParseErrorLevel.ERROR);\n          errors.push(error);\n          }\n          });\n          });\n          return TemplateParser;\n          }());\n          nvar TemplateParseVisitor = /** @class */
(function () {\n          function TemplateParseVisitor(reflector, config, providerViewContext, directives, _bindingParser,
_schemaRegistry, _schemas, _targetErrors) {\n          var _this = this;\n          this.reflector = reflector;\n          this.config
= config;\n          this.providerViewContext = providerViewContext;\n          this._bindingParser = _bindingParser;\n          this._schemaRegistry = _schemaRegistry;\n          this._schemas = _schemas;\n          this._targetErrors =
_targetErrors;\n          this.selectorMatcher = new SelectorMatcher();\n          this.directivesIndex = new Map();\n          this.ngContentCount = 0;\n          // Note: queries start with id 1 so we can use the number in a Bloom filter!\n          this.contentQueryStartId = providerViewContext.component.viewQueries.length + 1;\n          directives.forEach(function (directive, index) {\n          var /** @type {?} */ selector = CssSelector.parse(/**
@type {?} */ ((directive.selector));\n          _this.selectorMatcher.addSelectable(selector, directive);\n          _this.directivesIndex.set(directive, index);\n          });\n          }\n          /**\n          * @param {?} expansion\n          * @param {?}
context\n          * @return {?}\n          * ^\n          TemplateParseVisitor.prototype.visitExpansion = /**\n          * @param {?}
expansion\n          * @param {?} context\n          * @return {?}\n          * ^\n          function (expansion, context) { return null; };\n          /**\n          * @param {?} expansionCase\n          * @param {?} context\n          * @return {?}\n          * ^\n          TemplateParseVisitor.prototype.visitExpansionCase = /**\n          * @param {?} expansionCase\n          * @param {?}
context\n          * @return {?}\n          * ^\n          function (expansionCase, context) { return null; };\n          /**\n          * @param {?}
text\n          * @param {?} parent\n          * @return {?}\n          * ^\n          TemplateParseVisitor.prototype.visitText = /**\n          *
@param {?} text\n          * @param {?} parent\n          * @return {?}\n          * ^\n          function (text, parent) {\n          var /**

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this._createDirectiveAsts(isTemplateElement, element.name, directiveMetas, elementOrDirectiveProps,
elementOrDirectiveRefs, /** @type {?} */ ((element.sourceSpan)), references, boundDirectivePropNames);\n
var /** @type {?} */ elementProps = this._createElementPropertyAsts(element.name, elementOrDirectiveProps,
boundDirectivePropNames);\n
var /** @type {?} */ isViewRoot = parent.isTemplateElement ||
hasInlineTemplates;\n
var /** @type {?} */ providerContext = new
ProviderElementContext(this.providerViewContext, /** @type {?} */ ((parent.providerContext)), isViewRoot,
directiveAsts, attrs, references, isTemplateElement, queryStartIndex, /** @type {?} */ ((element.sourceSpan));\n
var /** @type {?} */ children = visitAll(preparedElement.nonBindable ? NON_BINDABLE_VISITOR : this,
element.children, ElementContext.create(isTemplateElement, directiveAsts, isTemplateElement ? /** @type {?} */
((parent.providerContext)) : providerContext));\n
providerContext.afterElement();\n
// Override the actual
selector when the `ngProjectAs` attribute is provided\n
var /** @type {?} */ projectionSelector =
preparedElement.projectAs != null ?\n
CssSelector.parse(preparedElement.projectAs)[0] :\n
elementCssSelector;\n
var /** @type {?} */ ngContentIndex = /** @type {?} */
((parent.findNgContentIndex(projectionSelector));\n
var /** @type {?} */ parsedElement;\n
if
(preparedElement.type === PreparedElementType.NG_CONTENT) {\n
if (element.children &&
!element.children.every(_isEmptyTextNode)) {\n
this._reportError("<ng-content> element cannot have
content.", /** @type {?} */ ((element.sourceSpan));\n
}\n
parsedElement = new
NgContentAst(this.ngContentCount++, hasInlineTemplates ? /** @type {?} */ ((null)) : ngContentIndex, /** @type
{?} */ ((element.sourceSpan));\n
}\n
else if (isTemplateElement) {\n
this._assertAllEventsPublishedByDirectives(directiveAsts, events);\n
this._assertNoComponentsNorElementBindingsOnTemplate(directiveAsts, elementProps, /** @type {?} */
((element.sourceSpan));\n
parsedElement = new EmbeddedTemplateAst(attrs, events, references,
elementVars, providerContext.transformedDirectiveAsts, providerContext.transformProviders,
providerContext.transformedHasViewContainer, providerContext.queryMatches, children, hasInlineTemplates ? /**
@type {?} */ ((null)) : ngContentIndex, /** @type {?} */ ((element.sourceSpan));\n
}\n
else {\n
this._assertElementExists(matchElement, element);\n
this._assertOnlyOneComponent(directiveAsts, /**
@type {?} */ ((element.sourceSpan));\n
var /** @type {?} */ ngContentIndex_1 = hasInlineTemplates ? null
: parent.findNgContentIndex(projectionSelector);\n
parsedElement = new ElementAst(nodeName, attrs,
elementProps, events, references, providerContext.transformedDirectiveAsts, providerContext.transformProviders,
providerContext.transformedHasViewContainer, providerContext.queryMatches, children, hasInlineTemplates ?
null : ngContentIndex_1, element.sourceSpan, element.endSourceSpan || null);\n
}\n
if
(hasInlineTemplates) {\n
var /** @type {?} */ templateQueryStartIndex = this.contentQueryStartId;\n
var /** @type {?} */ templateSelector = createElementCssSelector(TEMPLATE_ELEMENT,
templateMatchableAttrs);\n
var templateDirectiveMetas = this._parseDirectives(this.selectorMatcher,
templateSelector).directives;\n
var /** @type {?} */ templateBoundDirectivePropNames = new Set();\n
var /** @type {?} */ templateDirectiveAsts = this._createDirectiveAsts(true, element.name,
templateDirectiveMetas, templateElementOrDirectiveProps, [], /** @type {?} */ ((element.sourceSpan)), [],
templateBoundDirectivePropNames);\n
var /** @type {?} */ templateElementProps =
this._createElementPropertyAsts(element.name, templateElementOrDirectiveProps,
templateBoundDirectivePropNames);\n
this._assertNoComponentsNorElementBindingsOnTemplate(templateDirectiveAsts, templateElementProps, /**
@type {?} */ ((element.sourceSpan));\n
var /** @type {?} */ templateProviderContext = new
ProviderElementContext(this.providerViewContext, /** @type {?} */ ((parent.providerContext)),
parent.isTemplateElement, templateDirectiveAsts, [], [], true, templateQueryStartIndex, /** @type {?} */
((element.sourceSpan));\n
templateProviderContext.afterElement();\n
parsedElement = new
EmbeddedTemplateAst([], [], [], templateElementVars, templateProviderContext.transformedDirectiveAsts,
templateProviderContext.transformProviders, templateProviderContext.transformedHasViewContainer,
templateProviderContext.queryMatches, [parsedElement], ngContentIndex, /** @type {?} */

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(element.sourceSpan));\n    }\n    return parsedElement;\n  };\n  /**\n   * @param {?}
isTemplateElement\n   * @param {?} attr\n   * @param {?} targetMatchableAttrs\n   * @param {?}
targetProps\n   * @param {?} targetEvents\n   * @param {?} targetRefs\n   * @param {?} targetVars\n   *
@return {?}\n   */\n  TemplateParseVisitor.prototype._parseAttr = /**\n   * @param {?} isTemplateElement\n
   * @param {?} attr\n   * @param {?} targetMatchableAttrs\n   * @param {?} targetProps\n   * @param {?}
targetEvents\n   * @param {?} targetRefs\n   * @param {?} targetVars\n   * @return {?}\n   */\n   function
(isTemplateElement, attr, targetMatchableAttrs, targetProps, targetEvents, targetRefs, targetVars) {\n    var /**
   * @type {?} */ name = this._normalizeAttributeName(attr.name);\n    var /** @type {?} */ value = attr.value;\n
    var /** @type {?} */ srcSpan = attr.sourceSpan;\n    var /** @type {?} */ bindParts =
name.match(BIND_NAME_REGEXP);\n    var /** @type {?} */ hasBinding = false;\n    if (bindParts !==
null) {\n      hasBinding = true;\n      if (bindParts[KW_BIND_IDX] != null) {\n
this._bindingParser.parsePropertyBinding(bindParts[IDENT_KW_IDX], value, false, srcSpan,
targetMatchableAttrs, targetProps);\n      }\n      else if (bindParts[KW_LET_IDX]) {\n        if
(isTemplateElement) {\n          var /** @type {?} */ identifier = bindParts[IDENT_KW_IDX];\n
this._parseVariable(identifier, value, srcSpan, targetVars);\n          }\n          else {\n
this._reportError("\"let\" is only supported on ng-template elements.\", srcSpan);\n          }\n          }\n
else if (bindParts[KW_REF_IDX]) {\n          var /** @type {?} */ identifier = bindParts[IDENT_KW_IDX];\n
this._parseReference(identifier, value, srcSpan, targetRefs);\n          }\n          else if
(bindParts[KW_ON_IDX]) {\n          this._bindingParser.parseEvent(bindParts[IDENT_KW_IDX], value,
srcSpan, targetMatchableAttrs, targetEvents);\n          }\n          else if (bindParts[KW_BINDON_IDX]) {\n
this._bindingParser.parsePropertyBinding(bindParts[IDENT_KW_IDX], value, false, srcSpan,
targetMatchableAttrs, targetProps);\n          this._parseAssignmentEvent(bindParts[IDENT_KW_IDX], value,
srcSpan, targetMatchableAttrs, targetEvents);\n          }\n          else if (bindParts[KW_AT_IDX]) {\n
this._bindingParser.parseLiteralAttr(name, value, srcSpan, targetMatchableAttrs, targetProps);\n          }\n
else if (bindParts[IDENT_BANANA_BOX_IDX]) {\n
this._bindingParser.parsePropertyBinding(bindParts[IDENT_BANANA_BOX_IDX], value, false, srcSpan,
targetMatchableAttrs, targetProps);\n
this._parseAssignmentEvent(bindParts[IDENT_BANANA_BOX_IDX], value, srcSpan, targetMatchableAttrs,
targetEvents);\n          }\n          else if (bindParts[IDENT_PROPERTY_IDX]) {\n
this._bindingParser.parsePropertyBinding(bindParts[IDENT_PROPERTY_IDX], value, false, srcSpan,
targetMatchableAttrs, targetProps);\n          }\n          else if (bindParts[IDENT_EVENT_IDX]) {\n
this._bindingParser.parseEvent(bindParts[IDENT_EVENT_IDX], value, srcSpan, targetMatchableAttrs,
targetEvents);\n          }\n          }\n          else {\n            hasBinding =
this._bindingParser.parsePropertyInterpolation(name, value, srcSpan, targetMatchableAttrs, targetProps);\n          }\n
if (!hasBinding) {\n          this._bindingParser.parseLiteralAttr(name, value, srcSpan, targetMatchableAttrs,
targetProps);\n          }\n          return hasBinding;\n        };\n        /**\n         * @param {?} attrName\n         * @return {?}\n
*/\n        TemplateParseVisitor.prototype._normalizeAttributeName = /**\n         * @param {?} attrName\n         * @return
{?}\n         */\n         function (attrName) {\n          return /^data-/.test(attrName) ? attrName.substring(5) : attrName;\n
        };\n        /**\n         * @param {?} identifier\n         * @param {?} value\n         * @param {?} sourceSpan\n         * @param {?}
targetVars\n         * @return {?}\n         */\n        TemplateParseVisitor.prototype._parseVariable = /**\n         * @param {?}
identifier\n         * @param {?} value\n         * @param {?} sourceSpan\n         * @param {?} targetVars\n         * @return
{?}\n         */\n         function (identifier, value, sourceSpan, targetVars) {\n          if (identifier.indexOf('-') > -1) {\n
this._reportError("\"-\" is not allowed in variable names\", sourceSpan);\n          }\n          targetVars.push(new
VariableAst(identifier, value, sourceSpan));\n          };\n          /**\n           * @param {?} identifier\n           * @param {?} value\n
           * @param {?} sourceSpan\n           * @param {?} targetRefs\n           * @return {?}\n           */\n          TemplateParseVisitor.prototype._parseReference = /**\n           * @param {?} identifier\n           * @param {?} value\n
           * @param {?} sourceSpan\n           * @param {?} targetRefs\n           * @return {?}\n           */\n           function (identifier, value,
sourceSpan, targetRefs) {\n            if (identifier.indexOf('-') > -1) {\n              this._reportError("\"-\" is not allowed

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in reference names", sourceSpan);\n    }\n    targetRefs.push(new ElementOrDirectiveRef(identifier, value,
sourceSpan));\n  };\n  /**\n   * @param {?} name\n   * @param {?} expression\n   * @param {?}
sourceSpan\n   * @param {?} targetMatchableAttrs\n   * @param {?} targetEvents\n   * @return {?}\n   */\n  TemplateParseVisitor.prototype._parseAssignmentEvent = /**\n   * @param {?} name\n   * @param {?}
expression\n   * @param {?} sourceSpan\n   * @param {?} targetMatchableAttrs\n   * @param {?}
targetEvents\n   * @return {?}\n   */\n  function (name, expression, sourceSpan, targetMatchableAttrs,
targetEvents) {\n    this._bindingParser.parseEvent(name + "\"Change\"", expression + "\"=$event\"", sourceSpan,
targetMatchableAttrs, targetEvents);\n  };\n  /**\n   * @param {?} selectorMatcher\n   * @param {?}
elementCssSelector\n   * @return {?}\n   */\n  TemplateParseVisitor.prototype._parseDirectives = /**\n   *
@param {?} selectorMatcher\n   * @param {?} elementCssSelector\n   * @return {?}\n   */\n  function
(selectorMatcher, elementCssSelector) {\n    var _this = this;\n    // Need to sort the directives so that we get
consistent results throughout,\n    // as selectorMatcher uses Maps inside.\n    // Also deduplicate directives as
they might match more than one time!\n    var /** @type {?} */ directives = new
Array(this.directivesIndex.size);\n    // Whether any directive selector matches on the element name\n    var /**
@type {?} */ matchElement = false;\n    selectorMatcher.match(elementCssSelector, function (selector, directive)
{\n      directives[/** @type {?} */ ((_this.directivesIndex.get(directive)))] = directive;\n      matchElement =
matchElement || selector.hasElementSelector();\n    });\n    return {\n      directives: directives.filter(function
(dir) { return !!dir; }),\n      matchElement: matchElement,\n    };\n  };\n  /**\n   * @param {?}
isTemplateElement\n   * @param {?} elementName\n   * @param {?} directives\n   * @param {?} props\n   *
@param {?} elementOrDirectiveRefs\n   * @param {?} elementSourceSpan\n   * @param {?} targetReferences\n   *
@param {?} targetBoundDirectivePropNames\n   * @return {?}\n   */\n  TemplateParseVisitor.prototype._createDirectiveAsts = /**\n   * @param {?} isTemplateElement\n   * @param
{?} elementName\n   * @param {?} directives\n   * @param {?} props\n   * @param {?}
elementOrDirectiveRefs\n   * @param {?} elementSourceSpan\n   * @param {?} targetReferences\n   *
@param {?} targetBoundDirectivePropNames\n   * @return {?}\n   */\n  function (isTemplateElement,
elementName, directives, props, elementOrDirectiveRefs, elementSourceSpan, targetReferences,
targetBoundDirectivePropNames) {\n    var _this = this;\n    var /** @type {?} */ matchedReferences = new
Set();\n    var /** @type {?} */ component = /** @type {?} */ ((null));\n    var /** @type {?} */ directiveAsts
= directives.map(function (directive) {\n      var /** @type {?} */ sourceSpan = new
ParseSourceSpan(elementSourceSpan.start, elementSourceSpan.end, \"Directive \" +
identifierName(directive.type));\n      if (directive.isComponent) {\n        component = directive;\n      }\n      var /** @type {?} */ directiveProperties = [];\n      var /** @type {?} */ hostProperties = /** @type
{?} */ ((_this._bindingParser.createDirectiveHostPropertyAsts(directive, elementName, sourceSpan));\n      //
Note: We need to check the host properties here as well,\n      // as we don't know the element name in the
DirectiveWrapperCompiler yet.\n      hostProperties = _this._checkPropertiesInSchema(elementName,
hostProperties);\n      var /** @type {?} */ hostEvents = /** @type {?} */
((_this._bindingParser.createDirectiveHostEventAsts(directive, sourceSpan));\n      _this._createDirectivePropertyAsts(directive.inputs, props, directiveProperties, targetBoundDirectivePropNames);\n      elementOrDirectiveRefs.forEach(function (elOrDirRef) {\n        if ((elOrDirRef.value.length === 0 &&
directive.isComponent) ||\n        (elOrDirRef.isReferenceToDirective(directive))) {\n          targetReferences.push(new ReferenceAst(elOrDirRef.name, createTokenForReference(directive.type.reference),
elOrDirRef.sourceSpan));\n          matchedReferences.add(elOrDirRef.name);\n        }\n      });\n      var /** @type {?} */ contentQueryStartId = _this.contentQueryStartId;\n      _this.contentQueryStartId +=
directive.queries.length;\n      return new DirectiveAst(directive, directiveProperties, hostProperties, hostEvents,
contentQueryStartId, sourceSpan);\n    });\n    elementOrDirectiveRefs.forEach(function (elOrDirRef) {\n      if (elOrDirRef.value.length > 0) {\n        if (!matchedReferences.has(elOrDirRef.name)) {\n          _this._reportError(\"There is no directive with \"\"exportAs\"\" set to \"\"\" + elOrDirRef.value + \"\"\"\",
elOrDirRef.sourceSpan);\n        }\n      }\n      else if (!component) {\n        var /** @type {?} */

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refToken = /** @type {?} */ ((null));\n      if (isTemplateElement) {\n          refToken =
createTokenForExternalReference(_this.reflector, Identifiers.TemplateRef);\n      }\n
targetReferences.push(new ReferenceAst(elOrDirRef.name, refToken, elOrDirRef.sourceSpan));\n    }\n
});\n    return directiveAsts;\n  });\n  /**\n   * @param {?} directiveProperties\n   * @param {?}
boundProps\n   * @param {?} targetBoundDirectiveProps\n   * @param {?} targetBoundDirectivePropNames\n
* @return {?} \n   */\n  TemplateParseVisitor.prototype._createDirectivePropertyAsts = /**\n   * @param {?}
directiveProperties\n   * @param {?} boundProps\n   * @param {?} targetBoundDirectiveProps\n   * @param
{?} targetBoundDirectivePropNames\n   * @return {?} \n   */\n   function (directiveProperties, boundProps,
targetBoundDirectiveProps, targetBoundDirectivePropNames) {\n    if (directiveProperties) {\n      var /**
@type {?} */ boundPropsByName_1 = new Map();\n      boundProps.forEach(function (boundProp) {\n
var /** @type {?} */ prevValue = boundPropsByName_1.get(boundProp.name);\n      if (!prevValue ||
prevValue.isLiteral) {\n        // give [a]="b" a higher precedence than a="b" on the same element\n
        // give [a]="b" a higher precedence than a="b" on the same element\n
        boundPropsByName_1.set(boundProp.name, boundProp);\n      }\n    });\n
Object.keys(directiveProperties).forEach(function (dirProp) {\n      var /** @type {?} */ elProp =
directiveProperties[dirProp];\n      var /** @type {?} */ boundProp = boundPropsByName_1.get(elProp);\n
      // Bindings are optional, so this binding only needs to be set up if an expression is given.\n      if
(boundProp) {\n        targetBoundDirectivePropNames.add(boundProp.name);\n        if
(!isEmptyExpression(boundProp.expression)) {\n          targetBoundDirectiveProps.push(new
BoundDirectivePropertyAst(dirProp, boundProp.name, boundProp.expression, boundProp.sourceSpan));\n
        }\n      }\n    });\n  });\n  /**\n   * @param {?} elementName\n   * @param {?} props\n   *
@param {?} boundDirectivePropNames\n   * @return {?} \n   */\n  TemplateParseVisitor.prototype._createElementPropertyAsts = /**\n   * @param {?} elementName\n   * @param
{?} props\n   * @param {?} boundDirectivePropNames\n   * @return {?} \n   */\n   function (elementName,
props, boundDirectivePropNames) {\n    var _this = this;\n    var /** @type {?} */ boundElementProps = [];\n
    props.forEach(function (prop) {\n      if (!prop.isLiteral && !boundDirectivePropNames.has(prop.name)) {\n
        boundElementProps.push(_this._bindingParser.createElementPropertyAst(elementName, prop));\n      }\n
    });\n    return this._checkPropertiesInSchema(elementName, boundElementProps);\n  });\n  /**\n   *
@param {?} directives\n   * @return {?} \n   */\n  TemplateParseVisitor.prototype._findComponentDirectives =
/**\n   * @param {?} directives\n   * @return {?} \n   */\n   function (directives) {\n    return
directives.filter(function (directive) { return directive.directive.isComponent; });\n  });\n  /**\n   * @param {?}
directives\n   * @return {?} \n   */\n  TemplateParseVisitor.prototype._findComponentDirectiveNames = /**\n
* @param {?} directives\n   * @return {?} \n   */\n   function (directives) {\n    return
this._findComponentDirectives(directives).map(function (directive) { return
((identifierName(directive.directive.type))); });\n  });\n  /**\n   * @param {?} directives\n   * @param {?}
sourceSpan\n   * @return {?} \n   */\n  TemplateParseVisitor.prototype._assertOnlyOneComponent = /**\n
* @param {?} directives\n   * @param {?} sourceSpan\n   * @return {?} \n   */\n   function (directives,
sourceSpan) {\n    var /** @type {?} */ componentTypeNames =
this._findComponentDirectiveNames(directives);\n    if (componentTypeNames.length > 1) {\n
this._reportError("More than one component matched on this element.\\n\\n" +\n      "\n      "Make sure that only one
component's selector can match a given element.\\n\\n" +\n      "\n      ("Conflicting components: '" +
componentTypeNames.join(','), sourceSpan);\n    }\n  });\n  /**\n   * Make sure that non-angular tags conform
to the schemas.\n   * \n   * Note: An element is considered an angular tag when at least one directive selector
matches the\n   * tag name.\n   * \n   * @param {?} matchElement Whether any directive has matched on the tag
name\n   * @param {?} element the html element\n   * @return {?} \n   */\n  TemplateParseVisitor.prototype._assertElementExists = /**\n
* Make sure that non-angular tags conform to the
schemas.\n   * \n   * Note: An element is considered an angular tag when at least one directive selector matches
the\n   * tag name.\n   * \n   * @param {?} matchElement Whether any directive has matched on the tag name\n

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* @param {?} element the html element\n    * @return {?} \n    * \n function (matchElement, element) {\n
var /** @type {?} */ elName = element.name.replace(/^:xhtml:/, "");\n    if (!matchElement &&
!this._schemaRegistry.hasElement(elName, this._schemas)) {\n        var /** @type {?} */ errorMsg = "" +
elName + " is not a known element:\n";\n        errorMsg +=\n            "\n1. If " + elName + " is an Angular
component, then verify that it is part of this module.\n";\n        if (elName.indexOf('-') > -1) {\n
errorMsg +=\n            "\n2. If " + elName + " is a Web Component then add
'CUSTOM_ELEMENTS_SCHEMA' to the '@NgModule.schemas' of this component to suppress this message.\n";\n
        }\n        else {\n            errorMsg +=\n                "\n2. To allow any element add
'NO_ERRORS_SCHEMA' to the '@NgModule.schemas' of this component.\n";\n        }\n
this._reportError(errorMsg, /** @type {?} */ ((element.sourceSpan)));\n    }\n }; \n /** \n * @param {?}
directives\n * @param {?} elementProps\n * @param {?} sourceSpan\n * @return {?} \n * \n
TemplateParseVisitor.prototype._assertNoComponentsNorElementBindingsOnTemplate = /** \n * @param {?}
directives\n * @param {?} elementProps\n * @param {?} sourceSpan\n * @return {?} \n * \n function
(directives, elementProps, sourceSpan) {\n    var _this = this;\n    var /** @type {?} */ componentTypeNames
= this._findComponentDirectiveNames(directives);\n    if (componentTypeNames.length > 0) {\n
this._reportError("Components on an embedded template: " + componentTypeNames.join(','), sourceSpan);\n
    }\n    elementProps.forEach(function (prop) {\n        _this._reportError("Property binding " + prop.name + "\n
not used by any directive on an embedded template. Make sure that the property name is spelled correctly and all
directives are listed in the \\\"@NgModule.declarations\\\".", sourceSpan);\n    });\n }; \n /** \n * @param
 {?} directives\n * @param {?} events\n * @return {?} \n * \n
TemplateParseVisitor.prototype._assertAllEventsPublishedByDirectives = /** \n * @param {?} directives\n *
@param {?} events\n * @return {?} \n * \n function (directives, events) {\n    var _this = this;\n    var /**
@type {?} */ allDirectiveEvents = new Set();\n    directives.forEach(function (directive) {\n
Object.keys(directive.directive.outputs).forEach(function (k) {\n        var /** @type {?} */ eventName =
directive.directive.outputs[k];\n        allDirectiveEvents.add(eventName);\n    });\n });\n
events.forEach(function (event) {\n    if (event.target != null || !allDirectiveEvents.has(event.name)) {\n
_this._reportError("Event binding " + event.fullName + "\n not emitted by any directive on an embedded template.
Make sure that the event name is spelled correctly and all directives are listed in the
\\\"@NgModule.declarations\\\".", event.sourceSpan);\n    }\n });\n }; \n /** \n * @param {?}
elementName\n * @param {?} boundProps\n * @return {?} \n * \n
TemplateParseVisitor.prototype._checkPropertiesInSchema = /** \n * @param {?} elementName\n * @param
 {?} boundProps\n * @return {?} \n * \n function (elementName, boundProps) {\n    var _this = this;\n
// Note: We can't filter out empty expressions before this method,\n    // as we still want to validate them!\n
return boundProps.filter(function (boundProp) {\n    if (boundProp.type === PropertyBindingType.Property
&&\n        !_this._schemaRegistry.hasProperty(elementName, boundProp.name, _this._schemas)) {\n
var /** @type {?} */ errorMsg = "Can't bind to " + boundProp.name + " since it isn't a known property of " +
elementName + ":\n";\n        if (elementName.startsWith('ng-')) {\n            errorMsg +=\n
"\n\n1. If " + boundProp.name + " is an Angular directive, then add 'CommonModule' to the '@NgModule.imports'
of this component.\n" +\n                "\n\n2. To allow any property add 'NO_ERRORS_SCHEMA' to the
'@NgModule.schemas' of this component.\n";\n        }\n        else if (elementName.indexOf('-') > -1) {\n
errorMsg +=\n            "\n\n1. If " + elementName + " is an Angular component and it has " +
boundProp.name + " input, then verify that it is part of this module.\n" +\n                ("\n\n2. If " +
elementName + " is a Web Component then add 'CUSTOM_ELEMENTS_SCHEMA' to the
'@NgModule.schemas' of this component to suppress this message.\n" +\n                "\n\n3. To allow any
property add 'NO_ERRORS_SCHEMA' to the '@NgModule.schemas' of this component.\n";\n        }\n
this._reportError(errorMsg, boundProp.sourceSpan);\n    }\n    return
!isEmptyExpression(boundProp.value);\n });\n }; \n /** \n * @param {?} message\n * @param {?}
sourceSpan\n * @param {=} level\n * @return {?} \n * \n
TemplateParseVisitor.prototype._reportError =

```

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/**\n * @param {?} message\n * @param {?} sourceSpan\n * @param {?=} level\n * @return {?}\n
*\n function (message, sourceSpan, level) {\n if (level === void 0) { level = ParseErrorLevel.ERROR; }\n
this._targetErrors.push(new ParseError(sourceSpan, message, level));\n }; \n return
TemplateParseVisitor;\n})();\nvar NonBindableVisitor = /** @class */ (function () {\n function
NonBindableVisitor() {\n }\n /**\n * @param {?} ast\n * @param {?} parent\n * @return {?}\n *\n
NonBindableVisitor.prototype.visitElement = /**\n * @param {?} ast\n * @param {?} parent\n * @return
{?}\n *\n function (ast, parent) {\n var /** @type {?} */ preparedElement = prepareElement(ast);\n
if (preparedElement.type === PreparedElementType.SCRIPT ||\n preparedElement.type ===
PreparedElementType.STYLE ||\n preparedElement.type === PreparedElementType.STYLESHEET) {\n
// Skipping <script> for security reasons\n // Skipping <style> and stylesheets as we already processed
them\n // in the StyleCompiler\n return null;\n }\n var /** @type {?} */ attrNameAndValues
= ast.attrs.map(function (attr) { return [attr.name, attr.value]; });\n var /** @type {?} */ selector =
createElementCssSelector(ast.name, attrNameAndValues);\n var /** @type {?} */ ngContentIndex =
parent.findNgContentIndex(selector);\n var /** @type {?} */ children = visitAll(this, ast.children,
EMPTY_ELEMENT_CONTEXT);\n return new ElementAst(ast.name, visitAll(this, ast.attrs), [], [], [], [],
false, [], children, ngContentIndex, ast.sourceSpan, ast.endSourceSpan);\n }; \n /**\n * @param {?}
comment\n * @param {?} context\n * @return {?}\n *\n NonBindableVisitor.prototype.visitComment =
/**\n * @param {?} comment\n * @param {?} context\n * @return {?}\n *\n function (comment,
context) { return null; }; \n /**\n * @param {?} attribute\n * @param {?} context\n * @return {?}\n *\n
NonBindableVisitor.prototype.visitAttribute = /**\n * @param {?} attribute\n * @param {?} context\n *
@return {?}\n *\n function (attribute, context) {\n return new AttrAst(attribute.name, attribute.value,
attribute.sourceSpan);\n }; \n /**\n * @param {?} text\n * @param {?} parent\n * @return {?}\n *\n
NonBindableVisitor.prototype.visitText = /**\n * @param {?} text\n * @param {?} parent\n * @return
{?}\n *\n function (text, parent) {\n var /** @type {?} */ ngContentIndex = /** @type {?} */
((parent.findNgContentIndex(TEXT_CSS_SELECTOR)));\n return new TextAst(text.value, ngContentIndex,
/** @type {?} */ ((text.sourceSpan)));\n }; \n /**\n * @param {?} expansion\n * @param {?} context\n *
@return {?}\n *\n NonBindableVisitor.prototype.visitExpansion = /**\n * @param {?} expansion\n *
@param {?} context\n * @return {?}\n *\n function (expansion, context) { return expansion; }; \n /**\n
* @param {?} expansionCase\n * @param {?} context\n * @return {?}\n *\n
NonBindableVisitor.prototype.visitExpansionCase = /**\n * @param {?} expansionCase\n * @param {?}
context\n * @return {?}\n *\n function (expansionCase, context) { return expansionCase; }; \n return
NonBindableVisitor;\n})();\n/**\n * A reference to an element or directive in a template. E.g., the reference in this
template:\n *\n * <div #myMenu="coolMenu">\n *\n * would be {name: 'myMenu', value: 'coolMenu',
sourceSpan: ...}\n *\nvar ElementOrDirectiveRef = /** @class */ (function () {\n function
ElementOrDirectiveRef(name, value, sourceSpan) {\n this.name = name;\n this.value = value;\n
this.sourceSpan = sourceSpan;\n }\n /** Gets whether this is a reference to the given directive. *\n
Gets whether this is a reference to the given directive.\n * @param {?} directive\n * @return {?}\n *\n
ElementOrDirectiveRef.prototype.isReferenceToDirective = /**\n * Gets whether this is a reference to the given
directive.\n * @param {?} directive\n * @return {?}\n *\n function (directive) {\n return
splitExportAs(directive.exportAs).indexOf(this.value) !== -1;\n }; \n return
ElementOrDirectiveRef;\n})();\n/**\n * Splits a raw, potentially comma-delimited `exportAs` value into an array of
names.\n * @param {?} exportAs\n * @return {?}\n *\nfunction splitExportAs(exportAs) {\n return exportAs ?
exportAs.split(',').map(function (e) { return e.trim(); }): [];\n}\n/**\n * @param {?} classAttrValue\n * @return
{?}\n *\nfunction splitClasses(classAttrValue) {\n return classAttrValue.trim().split(/\s+/g);\n}\nvar
ElementContext = /** @class */ (function () {\n function ElementContext(isTemplateElement,
_ngContentIndexMatcher, _wildcardNgContentIndex, providerContext) {\n this.isTemplateElement =
isTemplateElement;\n this._ngContentIndexMatcher = _ngContentIndexMatcher;\n
this._wildcardNgContentIndex = _wildcardNgContentIndex;\n this.providerContext = providerContext;\n }\n

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/**\n * @param {?} isTemplateElement\n * @param {?} directives\n * @param {?} providerContext\n * @return {?}\n */\n ElementContext.create = /**\n * @param {?} isTemplateElement\n * @param {?} directives\n * @param {?} providerContext\n * @return {?}\n */\n function (isTemplateElement, directives, providerContext) {\n var /** @type {?} */ matcher = new SelectorMatcher();\n var /** @type {?} */ wildcardNgContentIndex = /** @type {?} */ ((null));\n var /** @type {?} */ component = directives.find(function (directive) { return directive.directive.isComponent; });\n if (component) {\n var /** @type {?} */ ngContentSelectors = /** @type {?} */ ((component.directive.template)).ngContentSelectors;\n for (var /** @type {?} */ i = 0; i < ngContentSelectors.length; i++) {\n var /** @type {?} */ selector = ngContentSelectors[i];\n if (selector === '*') {\n wildcardNgContentIndex = i;\n }\n else {\n matcher.addSelectable(CssSelector.parse(ngContentSelectors[i]), i);\n }\n }\n }\n return new ElementContext(isTemplateElement, matcher, wildcardNgContentIndex, providerContext);\n };\n /**\n * @param {?} selector\n * @return {?}\n */\n ElementContext.prototype.findNgContentIndex = /**\n * @param {?} selector\n * @return {?}\n */\n function (selector) {\n var /** @type {?} */ ngContentIndices = [];\n this._ngContentIndexMatcher.match(selector, function (selector, ngContentIndex) {\n ngContentIndices.push(ngContentIndex); });\n ngContentIndices.sort();\n if (this._wildcardNgContentIndex != null) {\n ngContentIndices.push(this._wildcardNgContentIndex);\n }\n return ngContentIndices.length > 0 ? ngContentIndices[0] : null;\n };\n return ElementContext;\n});\n\n/**\n * @param {?} elementName\n * @param {?} attributes\n * @return {?}\n */\nfunction createElementCssSelector(elementName, attributes) {\n var /** @type {?} */ cssSelector = new CssSelector();\n var /** @type {?} */ elNameNoNs = splitNsName(elementName)[1];\n cssSelector.setElement(elNameNoNs);\n for (var /** @type {?} */ i = 0; i < attributes.length; i++) {\n var /** @type {?} */ attrName = attributes[i][0];\n var /** @type {?} */ attrNameNoNs = splitNsName(attrName)[1];\n var /** @type {?} */ attrValue = attributes[i][1];\n cssSelector.addAttribute(attrNameNoNs, attrValue);\n if (attrName.toLowerCase() == CLASS_ATTR) {\n var /** @type {?} */ classes = splitClasses(attrValue);\n classes.forEach(function (className) { return cssSelector.addClassName(className); });\n }\n }\n return cssSelector;\n}\n\nEMPTY_ELEMENT_CONTEXT = new ElementContext(true, new SelectorMatcher(), null, null);\nNON_BINDABLE_VISITOR = new NonBindableVisitor();\n\n/**\n * @param {?} node\n * @return {?}\n */\nfunction isEmptyTextNode(node) {\n return node instanceof Text && node.value.trim().length == 0;\n}\n\n/**\n * @template T\n * @param {?} items\n * @return {?}\n */\nfunction removeSummaryDuplicates(items) {\n var /** @type {?} */ map = new Map();\n items.forEach(function (item) {\n if (!map.get(item.type.reference)) {\n map.set(item.type.reference, item);\n }\n });\n return Array.from(map.values());\n}\n\n/**\n * @param {?} ast\n * @return {?}\n */\nfunction isEmptyExpression(ast) {\n if (ast instanceof ASTWithSource) {\n ast = ast.ast;\n }\n return ast instanceof EmptyExpr;\n}\n\n/**\n * @param {?} el\n * @param {?} enableLegacyTemplate\n * @param {?} reportDeprecation\n * @return {?}\n */\nfunction isTemplate(el, enableLegacyTemplate, reportDeprecation) {\n if (isNgTemplate(el.name))\n return true;\n var /** @type {?} */ tagNoNs = splitNsName(el.name)[1];\n // `<template>` is HTML and case insensitive\n if (tagNoNs.toLowerCase() === TEMPLATE_ELEMENT) {\n if (enableLegacyTemplate && tagNoNs.toLowerCase() === TEMPLATE_ELEMENT) {\n reportDeprecation(TEMPLATE_ELEMENT_DEPRECATION_WARNING, /** @type {?} */ ((el.sourceSpan)));\n return true;\n }\n }\n return false;\n}\n\n/**\n * @fileoverview added by tsickle\n * @suppress {checkTypes}\n checked by tsc\n */\n\n/**\n * @license\n * Copyright Google Inc. All Rights Reserved.\n * Use of this source code is governed by an MIT-style license that can be found in the LICENSE file at https://angular.io/license\n */\n\nvar EventHandlerVars = /** @class */ (function () {\n function EventHandlerVars() {\n }\n EventHandlerVars.event = variable('$event');\n return EventHandlerVars;\n})();\n\n/**\n * @record\n */\nvar ConvertActionBindingResult = /** @class */ (function () {\n function ConvertActionBindingResult(stmts, allowDefault) {\n this.stmts = stmts;\n this.allowDefault = allowDefault;\n }\n return ConvertActionBindingResult;\n})();\n\n/**\n * Converts the given expression AST

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into an executable output AST, assuming the expression is\n * used in an action binding (e.g. an event handler).\n *
@param {?} localResolver\n * @param {?} implicitReceiver\n * @param {?} action\n * @param {?} bindingId\n *
@return {?} \n * \nfunction convertActionBinding(localResolver, implicitReceiver, action, bindingId) {\n  if
(!localResolver) {\n    localResolver = new DefaultLocalResolver();\n  }\n  var /** @type {?} */
actionWithoutBuiltins = convertPropertyBindingBuiltins({\n    createLiteralArrayConverter: function (argCount)
{\n      // Note: no caching for literal arrays in actions.\n      return function (args) { return literalArr(args);
};\n    },\n    createLiteralMapConverter: function (keys) {\n      // Note: no caching for literal maps in
actions.\n      return function (values) {\n        var /** @type {?} */ entries = keys.map(function (k, i) {\n
return ({\n          key: k.key,\n          value: values[i],\n          quoted: k.quoted,\n
});\n        });\n        return literalMap(entries);\n      });\n    },\n    createPipeConverter:
function (name) {\n      throw new Error("\Illegal State: Actions are not allowed to contain pipes. Pipe: \" +
name);\n    }\n  }, action);\n  var /** @type {?} */ visitor = new _AstToIrVisitor(localResolver,
implicitReceiver, bindingId);\n  var /** @type {?} */ actionStmts = [];\n  flattenStatements(actionWithoutBuiltins.visit(visitor, _Mode.Statement), actionStmts);\n  prependTemporaryDecls(visitor.temporaryCount, bindingId, actionStmts);\n  var /** @type {?} */ lastIndex =
actionStmts.length - 1;\n  var /** @type {?} */ preventDefaultVar = /** @type {?} */ ((null));\n  if (lastIndex >=
0) {\n    var /** @type {?} */ lastStatement = actionStmts[lastIndex];\n    var /** @type {?} */ returnExpr =
convertStmtIntoExpression(lastStatement);\n    if (returnExpr) {\n      // Note: We need to cast the result of the
method call to dynamic,\n      // as it might be a void method!\n      preventDefaultVar =
createPreventDefaultVar(bindingId);\n      actionStmts[lastIndex] =\n      preventDefaultVar.set(returnExpr.cast(DYNAMIC_TYPE).notIdentical(literal(false)))\n      .toDeclStmt(null, [StmtModifier.Final]);\n    }\n  }\n  return new ConvertActionBindingResult(actionStmts,
preventDefaultVar);\n}\n\n/**\n * @record\n * \n\n/**\n * @record\n * \n\n/**\n * @param {?} converterFactory\n *
@param {?} ast\n * @return {?} \n * \nfunction convertPropertyBindingBuiltins(converterFactory, ast) {\n  return
convertBuiltins(converterFactory, ast);\n}\n\nvar ConvertPropertyBindingResult = /** @class */ (function () {\n
function ConvertPropertyBindingResult(stmts, currValExpr) {\n  this.stmts = stmts;\n  this.currValExpr =
currValExpr;\n  }\n  return ConvertPropertyBindingResult;\n})();\n\n/** @enum {number} \n\nvar BindingForm =
{\n  // The general form of binding expression, supports all expressions.\n  General: 0,\n  // Try to generate a
simple binding (no temporaries or statements)\n  // otherwise generate a general binding\n  TrySimple:
1,\n};\n\nBindingForm[BindingForm.General] = "General";\n\nBindingForm[BindingForm.TrySimple] =
"TrySimple";\n\n/**\n * Converts the given expression AST into an executable output AST, assuming the
expression\n * is used in property binding. The expression has to be preprocessed via\n *
`convertPropertyBindingBuiltins`.\n * @param {?} localResolver\n * @param {?} implicitReceiver\n * @param
 {?} expressionWithoutBuiltins\n * @param {?} bindingId\n * @param {?} form\n * @return {?} \n * \nfunction
convertPropertyBinding(localResolver, implicitReceiver, expressionWithoutBuiltins, bindingId, form) {\n  if
(!localResolver) {\n    localResolver = new DefaultLocalResolver();\n  }\n  var /** @type {?} */ currValExpr =
createCurrValueExpr(bindingId);\n  var /** @type {?} */ stmts = [];\n  var /** @type {?} */ visitor = new
_AstToIrVisitor(localResolver, implicitReceiver, bindingId);\n  var /** @type {?} */ outputExpr =
expressionWithoutBuiltins.visit(visitor, _Mode.Expression);\n  if (visitor.temporaryCount) {\n    for (var /**
@type {?} */ i = 0; i < visitor.temporaryCount; i++) {\n      stmts.push(temporaryDeclaration(bindingId, i));\n
}\n  }\n  else if (form == BindingForm.TrySimple) {\n    return new ConvertPropertyBindingResult([],
outputExpr);\n  }\n  stmts.push(currValExpr.set(outputExpr).toDeclStmt(DYNAMIC_TYPE,
[StmtModifier.Final]));\n  return new ConvertPropertyBindingResult(stmts, currValExpr);\n}\n\n/**\n * @param
 {?} converterFactory\n * @param {?} ast\n * @return {?} \n * \nfunction convertBuiltins(converterFactory, ast) {\n
var /** @type {?} */ visitor = new _BuiltinAstConverter(converterFactory);\n  return ast.visit(visitor);\n}\n\n/**\n *
@param {?} bindingId\n * @param {?} temporaryNumber\n * @return {?} \n * \nfunction
temporaryName(bindingId, temporaryNumber) {\n  return "tmp_" + bindingId + "_" +
temporaryNumber;\n}\n\n/**\n * @param {?} bindingId\n * @param {?} temporaryNumber\n * @return {?} \n

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*\nfunction temporaryDeclaration(bindingId, temporaryNumber) {\n  return new
DeclareVarStmt(temporaryName(bindingId, temporaryNumber), NULL_EXPR);\n}\n/**\n * @param {?}
temporaryCount\n * @param {?} bindingId\n * @param {?} statements\n * @return {?}\n */\nfunction
prependTemporaryDecls(temporaryCount, bindingId, statements) {\n  for (var /** @type {?} */ i =
temporaryCount - 1; i >= 0; i--) {\n    statements.unshift(temporaryDeclaration(bindingId, i));\n  }\n}\n/**
@enum {number} *\nvar _Mode = {\n  Statement: 0,\n  Expression: 1,\n};\n_Mode[_Mode.Statement] =
\"Statement\";\n_Mode[_Mode.Expression] = \"Expression\";\n/**\n * @param {?} mode\n * @param {?} ast\n *
@return {?}\n */\nfunction ensureStatementMode(mode, ast) {\n  if (mode !== _Mode.Statement) {\n    throw
new Error(\"Expected a statement, but saw \" + ast);\n  }\n}\n/**\n * @param {?} mode\n * @param {?} ast\n *
@return {?}\n */\nfunction ensureExpressionMode(mode, ast) {\n  if (mode !== _Mode.Expression) {\n    throw
new Error(\"Expected an expression, but saw \" + ast);\n  }\n}\n/**\n * @param {?} mode\n * @param {?} expr\n
* @return {?}\n */\nfunction convertToStatementIfNeeded(mode, expr) {\n  if (mode === _Mode.Statement) {\n
return expr.toStmt();\n  }\n  else {\n    return expr;\n  }\n}\nvar _BuiltinAstConverter = /** @class */
(function (_super) {\n  __extends(_BuiltinAstConverter, _super);\n  function
_BuiltinAstConverter(_converterFactory) {\n    var _this = _super.call(this) || this;\n    _this._converterFactory
= _converterFactory;\n    return _this;\n  }\n  /**\n   * @param {?} ast\n   * @param {?} context\n   *
@return {?}\n   */\n  _BuiltinAstConverter.prototype.visitPipe = /**\n   * @param {?} ast\n   * @param {?}
context\n   * @return {?}\n   */\n  function (ast, context) {\n    var _this = this;\n    var /** @type {?} */
args = [ast.exp].concat(ast.args).map(function (ast) { return ast.visit(_this, context); });\n    return new
BuiltinFunctionCall(ast.span, args, this._converterFactory.createPipeConverter(ast.name, args.length));\n  };\n
/**\n   * @param {?} ast\n   * @param {?} context\n   * @return {?}\n   */\n  _BuiltinAstConverter.prototype.visitLiteralArray = /**\n   * @param {?} ast\n   * @param {?} context\n   *
@return {?}\n   */\n  function (ast, context) {\n    var _this = this;\n    var /** @type {?} */ args =
ast.expressions.map(function (ast) { return ast.visit(_this, context); });\n    return new
BuiltinFunctionCall(ast.span, args, this._converterFactory.createLiteralArrayConverter(ast.expressions.length));\n
  };\n  /**\n   * @param {?} ast\n   * @param {?} context\n   * @return {?}\n   */\n  _BuiltinAstConverter.prototype.visitLiteralMap = /**\n   * @param {?} ast\n   * @param {?} context\n   *
@return {?}\n   */\n  function (ast, context) {\n    var _this = this;\n    var /** @type {?} */ args =
ast.values.map(function (ast) { return ast.visit(_this, context); });\n    return new BuiltinFunctionCall(ast.span,
args, this._converterFactory.createLiteralMapConverter(ast.keys));\n  };\n  return
_BuiltinAstConverter;\n})(AstTransformer);\nvar _AstToIrVisitor = /** @class */ (function () {\n  function
_AstToIrVisitor(_localResolver, _implicitReceiver, bindingId) {\n    this._localResolver = _localResolver;\n
this._implicitReceiver = _implicitReceiver;\n    this.bindingId = bindingId;\n    this._nodeMap = new Map();\n
this._resultMap = new Map();\n    this._currentTemporary = 0;\n    this._temporaryCount = 0;\n  }\n  /**\n   *
@param {?} ast\n   * @param {?} mode\n   * @return {?}\n   */\n  _AstToIrVisitor.prototype.visitBinary =
/**\n   * @param {?} ast\n   * @param {?} mode\n   * @return {?}\n   */\n  function (ast, mode) {\n    var
/** @type {?} */ op;\n    switch (ast.operation) {\n      case '+':\n        op = BinaryOperator.Plus;\n
break;\n      case '-':\n        op = BinaryOperator.Minus;\n        break;\n      case '*':\n        op =
BinaryOperator.Multiply;\n        break;\n      case '/':\n        op = BinaryOperator.Divide;\n
break;\n      case '%':\n        op = BinaryOperator.Modulo;\n        break;\n      case '&':\n
op = BinaryOperator.And;\n        break;\n      case '||':\n        op = BinaryOperator.Or;\n
break;\n      case '==':\n        op = BinaryOperator.Equals;\n        break;\n      case '!=':\n        op
= BinaryOperator.NotEquals;\n        break;\n      case '===':\n        op = BinaryOperator.Idential;\n
break;\n      case '!==':\n        op = BinaryOperator.NotIdential;\n        break;\n      case '<':\n
op = BinaryOperator.Lower;\n        break;\n      case '>':\n        op = BinaryOperator.Bigger;\n
break;\n      case '<=':\n        op = BinaryOperator.LowerEquals;\n        break;\n      case
'>=':\n        op = BinaryOperator.BiggerEquals;\n        break;\n      default:\n        throw new
Error(\"Unsupported operation \" + ast.operation);\n    }\n    return convertToStatementIfNeeded(mode, new

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BinaryOperatorExpr(op, this._visit(ast.left, _Mode.Expression), this._visit(ast.right, _Mode.Expression));\n  };\n
/**\n * @param {?} ast\n * @param {?} mode\n * @return {?}\n */\n
_AstToIrVisitor.prototype.visitChain = /**\n * @param {?} ast\n * @param {?} mode\n * @return {?}\n */\n function (ast, mode) {\n  ensureStatementMode(mode, ast);\n  return this.visitAll(ast.expressions,\n mode);\n };\n /**\n * @param {?} ast\n * @param {?} mode\n * @return {?}\n */\n
_AstToIrVisitor.prototype.visitConditional = /**\n * @param {?} ast\n * @param {?} mode\n * @return {?}\n */\n function (ast, mode) {\n  var /** @type {?} */ value = this._visit(ast.condition,\n _Mode.Expression);\n  return convertToStatementIfNeeded(mode, value.conditional(this._visit(ast.trueExp,\n _Mode.Expression), this._visit(ast.falseExp, _Mode.Expression)));\n };\n /**\n * @param {?} ast\n * @param {?} mode\n * @return {?}\n */\n
_AstToIrVisitor.prototype.visitPipe = /**\n * @param {?} ast\n * @param {?} mode\n * @return {?}\n */\n function (ast, mode) {\n  throw new Error("Illegal state:\n Pipes should have been converted into functions. Pipe: '" + ast.name);\n };\n /**\n * @param {?} ast\n * @param {?} mode\n * @return {?}\n */\n
_AstToIrVisitor.prototype.visitFunctionCall = /**\n * @param {?} ast\n * @param {?} mode\n * @return {?}\n */\n function (ast, mode) {\n  var /** @type {?} */\n convertedArgs = this.visitAll(ast.args, _Mode.Expression);\n  var /** @type {?} */ fnResult;\n  if (ast\n instanceof BuiltinFunctionCall) {\n    fnResult = ast.converter(convertedArgs);\n  }\n  else {\n    fnResult = this._visit(/** @type {?} */ ((ast.target)), _Mode.Expression).callFn(convertedArgs);\n  }\n  return convertToStatementIfNeeded(mode, fnResult);\n };\n /**\n * @param {?} ast\n * @param {?} mode\n * @return {?}\n */\n
_AstToIrVisitor.prototype.visitImplicitReceiver = /**\n * @param {?} ast\n * @param {?} mode\n * @return {?}\n */\n function (ast, mode) {\n  ensureExpressionMode(mode,\n ast);\n  return this._implicitReceiver;\n };\n /**\n * @param {?} ast\n * @param {?} mode\n * @return {?}\n */\n
_AstToIrVisitor.prototype.visitInterpolation = /**\n * @param {?} ast\n * @param {?} mode\n * @return {?}\n */\n function (ast, mode) {\n  ensureExpressionMode(mode, ast);\n  var /**\n @type {?} */ args = [literal(ast.expressions.length)];\n  for (var /** @type {?} */ i = 0; i < ast.strings.length - 1;\n i++) {\n    args.push(literal(ast.strings[i]));\n    args.push(this._visit(ast.expressions[i],\n _Mode.Expression));\n  }\n  args.push(literal(ast.strings[ast.strings.length - 1]));\n  return\n ast.expressions.length <= 9 ?\n importExpr(Identifiers.inlineInterpolate).callFn(args) :\n importExpr(Identifiers.interpolate).callFn([args[0], literalArr(args.slice(1))]);\n };\n /**\n * @param {?} ast\n * @param {?} mode\n * @return {?}\n */\n
_AstToIrVisitor.prototype.visitKeyedRead = /**\n * @param {?} ast\n * @param {?} mode\n * @return {?}\n */\n function (ast, mode) {\n  var /** @type\n {?} */ leftMostSafe = this.leftMostSafeNode(ast);\n  if (leftMostSafe) {\n    return\n this.convertSafeAccess(ast, leftMostSafe, mode);\n  }\n  else {\n    return\n convertToStatementIfNeeded(mode, this._visit(ast.obj, _Mode.Expression).key(this._visit(ast.key,\n _Mode.Expression)));\n  }\n };\n /**\n * @param {?} ast\n * @param {?} mode\n * @return {?}\n */\n
_AstToIrVisitor.prototype.visitKeyedWrite = /**\n * @param {?} ast\n * @param {?} mode\n * @return {?}\n */\n function (ast, mode) {\n  var /** @type {?} */ obj = this._visit(ast.obj,\n _Mode.Expression);\n  var /** @type {?} */ key = this._visit(ast.key, _Mode.Expression);\n  var /** @type\n {?} */ value = this._visit(ast.value, _Mode.Expression);\n  return convertToStatementIfNeeded(mode,\n obj.key(key).set(value));\n };\n /**\n * @param {?} ast\n * @param {?} mode\n * @return {?}\n */\n
_AstToIrVisitor.prototype.visitLiteralArray = /**\n * @param {?} ast\n * @param {?} mode\n * @return {?}\n */\n function (ast, mode) {\n  throw new Error("Illegal State: literal arrays should have been\n converted into functions");\n };\n /**\n * @param {?} ast\n * @param {?} mode\n * @return {?}\n */\n
_AstToIrVisitor.prototype.visitLiteralMap = /**\n * @param {?} ast\n * @param {?} mode\n * @return {?}\n */\n function (ast, mode) {\n  throw new Error("Illegal State: literal maps should have been\n converted into functions");\n };\n /**\n * @param {?} ast\n * @param {?} mode\n * @return {?}\n */\n
_AstToIrVisitor.prototype.visitLiteralPrimitive = /**\n * @param {?} ast\n * @param {?} mode\n * @return {?}\n */\n function (ast, mode) {\n  // For literal values of null, undefined, true, or false allow type\n inteferece\n  // to infer the type.\n  var /** @type {?} */ type = ast.value === null || ast.value === undefined

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|| ast.value === true || ast.value === true ?\n      INFERRED_TYPE :\n      undefined;\n      return
convertToStatementIfNeeded(mode, literal(ast.value, type));\n    };\n    /**\n     * @param {?} name\n     * @return
{?}\n     *\n     * _AstToIrVisitor.prototype._getLocal = /**\n     * @param {?} name\n     * @return {?}\n     *\n     * function (name) { return this._localResolver.getLocal(name); };\n     * /**\n     * @param {?} ast\n     * @param {?}
mode\n     * @return {?}\n     *\n     * _AstToIrVisitor.prototype.visitMethodCall = /**\n     * @param {?} ast\n     *
@param {?} mode\n     * @return {?}\n     *\n     * function (ast, mode) {\n     *   if (ast.receiver instanceof
ImplicitReceiver && ast.name === '$any') {\n     *     var /** @type {?} */ args = /** @type {?} */
(this.visitAll(ast.args, _Mode.Expression));\n     *     if (args.length !== 1) {\n     *       throw new Error("Invalid call
to $any, expected 1 argument but received '" + (args.length || 'none')));\n     *     }\n     *     return (/** @type {?} */
(args[0])).cast(DYNAMIC_TYPE);\n     *   }\n     *   var /** @type {?} */ leftMostSafe =
this.leftMostSafeNode(ast);\n     *   if (leftMostSafe) {\n     *     return this.convertSafeAccess(ast, leftMostSafe,
mode);\n     *   }\n     *   else {\n     *     var /** @type {?} */ args = this.visitAll(ast.args, _Mode.Expression);\n     *
var /** @type {?} */ result = null;\n     *     var /** @type {?} */ receiver = this._visit(ast.receiver,
_Mode.Expression);\n     *     if (receiver === this._implicitReceiver) {\n     *       var /** @type {?} */ varExpr =
this._getLocal(ast.name);\n     *       if (varExpr) {\n     *         result = varExpr.callFn(args);\n     *       }\n     *
}\n     *     if (result === null) {\n     *       result = receiver.callMethod(ast.name, args);\n     *     }\n     *     return
convertToStatementIfNeeded(mode, result);\n     *   }\n     * };\n     * /**\n     * @param {?} ast\n     * @param {?}
mode\n     * @return {?}\n     *\n     * _AstToIrVisitor.prototype.visitPrefixNot = /**\n     * @param {?} ast\n     *
@param {?} mode\n     * @return {?}\n     *\n     * function (ast, mode) {\n     *   return
convertToStatementIfNeeded(mode, not(this._visit(ast.expression, _Mode.Expression)));\n     * };\n     * /**\n     *
@param {?} ast\n     * @param {?} mode\n     * @return {?}\n     *\n     * _AstToIrVisitor.prototype.visitNonNullAssert = /**\n     * @param {?} ast\n     * @param {?} mode\n     * @return
{?}\n     *\n     * function (ast, mode) {\n     *   return convertToStatementIfNeeded(mode,
assertNotNull(this._visit(ast.expression, _Mode.Expression)));\n     * };\n     * /**\n     * @param {?} ast\n     * @param
{?} mode\n     * @return {?}\n     *\n     * _AstToIrVisitor.prototype.visitPropertyRead = /**\n     * @param {?} ast\n     *
@param {?} mode\n     * @return {?}\n     *\n     * function (ast, mode) {\n     *   var /** @type {?} */ leftMostSafe
= this.leftMostSafeNode(ast);\n     *   if (leftMostSafe) {\n     *     return this.convertSafeAccess(ast, leftMostSafe,
mode);\n     *   }\n     *   else {\n     *     var /** @type {?} */ result = null;\n     *     var /** @type {?} */ receiver =
this._visit(ast.receiver, _Mode.Expression);\n     *     if (receiver === this._implicitReceiver) {\n     *       result =
this._getLocal(ast.name);\n     *     }\n     *     if (result === null) {\n     *       result = receiver.prop(ast.name);\n     *
}\n     *     return convertToStatementIfNeeded(mode, result);\n     *   }\n     * };\n     * /**\n     * @param {?} ast\n     *
@param {?} mode\n     * @return {?}\n     *\n     * _AstToIrVisitor.prototype.visitPropertyWrite = /**\n     * @param
{?} ast\n     * @param {?} mode\n     * @return {?}\n     *\n     * function (ast, mode) {\n     *   var /** @type {?} */
receiver = this._visit(ast.receiver, _Mode.Expression);\n     *   if (receiver === this._implicitReceiver) {\n     *     var
/** @type {?} */ varExpr = this._getLocal(ast.name);\n     *     if (varExpr) {\n     *       throw new Error('Cannot
assign to a reference or variable!);\n     *     }\n     *   }\n     *   return convertToStatementIfNeeded(mode,
receiver.prop(ast.name).set(this._visit(ast.value, _Mode.Expression)));\n     * };\n     * /**\n     * @param {?} ast\n     *
@param {?} mode\n     * @return {?}\n     *\n     * _AstToIrVisitor.prototype.visitSafePropertyRead = /**\n     * @param
{?} ast\n     * @param {?} mode\n     * @return {?}\n     *\n     * function (ast, mode) {\n     *   return
this.convertSafeAccess(ast, this.leftMostSafeNode(ast), mode);\n     * };\n     * /**\n     * @param {?} ast\n     * @param
{?} mode\n     * @return {?}\n     *\n     * _AstToIrVisitor.prototype.visitSafeMethodCall = /**\n     * @param {?}
ast\n     * @param {?} mode\n     * @return {?}\n     *\n     * function (ast, mode) {\n     *   return
this.convertSafeAccess(ast, this.leftMostSafeNode(ast), mode);\n     * };\n     * /**\n     * @param {?} asts\n     * @param
{?} mode\n     * @return {?}\n     *\n     * _AstToIrVisitor.prototype.visitAll = /**\n     * @param {?} asts\n     *
@param {?} mode\n     * @return {?}\n     *\n     * function (asts, mode) {\n     *   var _this = this;\n     *   return
asts.map(function (ast) { return _this._visit(ast, mode); });\n     * };\n     * /**\n     * @param {?} ast\n     * @param
{?} mode\n     * @return {?}\n     *\n     * _AstToIrVisitor.prototype.visitQuote = /**\n     * @param {?} ast\n     *
@param {?} mode\n     * @return {?}\n     *\n     * function (ast, mode) {\n     *   throw new Error("Quotes are not

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supported for evaluation!\n    Statement: \" + ast.uninterpretedExpression + \" located at \" + ast.location);\n
};\n /**\n * @param {?} ast\n * @param {?} mode\n * @return {?}\n */\n
_AstToIrVisitor.prototype._visit = /**\n * @param {?} ast\n * @param {?} mode\n * @return {?}\n */\n
function (ast, mode) {\n    var /** @type {?} */ result = this._resultMap.get(ast);\n    if (result)\n        return\n        result;\n    return (this._nodeMap.get(ast) || ast).visit(this, mode);\n }; \n /**\n * @param {?} ast\n * @param {?} leftMostSafe\n * @param {?} mode\n * @return {?}\n */\n
_AstToIrVisitor.prototype.convertSafeAccess = /**\n * @param {?} ast\n * @param {?} leftMostSafe\n * @param {?} mode\n * @return {?}\n */\n
function (ast, leftMostSafe, mode) {\n    // If the expression\n    contains a safe access node on the left it needs to be converted to\n    // an expression that guards the access to the\n    member by checking the receiver for blank. As\n    // execution proceeds from left to right, the left most part of\n    the expression must be guarded\n    // first but, because member access is left associative, the right side of the\n    expression is at\n    // the top of the AST. The desired result requires lifting a copy of the the left part of the\n    // expression up to test it for blank before generating the unguarded version.\n    // Consider, for example the\n    following expression: a?.b.c?.d.e\n    // This results in the ast:\n    // .\n    // /\\|\n    // ? . e\n    // /\\|\n    // . d\n    // /\\|\n    // ? . c\n    // /\\|\n    // a b\n    // The following tree should\n    be generated:\n    /\n    // /---- ? ----\\|\n    // / | \\|\n    // a /--- ? ---\\ null\n    // / | \n    \\|\n    // . . null\n    // /\\ /\\|\n    // . c . e\n    // /\\ /\\|\n    // a b , d\n    // /\\|\n    // . c\n    // /\\|\n    // a b\n    /\n    // Notice that the first guard condition is the left\n    hand of the left most safe access node\n    // which comes in as leftMostSafe to this routine.\n    var /** @type\n    {?} */ guardedExpression = this._visit(leftMostSafe.receiver, _Mode.Expression);\n    var /** @type {?} */\n    temporary = /** @type {?} */ ((undefined));\n    if (this.needsTemporary(leftMostSafe.receiver)) {\n        // If\n        the expression has method calls or pipes then we need to save the result into a\n        // temporary variable to avoid\n        calling stateful or impure code more than once.\n        temporary = this.allocateTemporary();\n        // Preserve\n        the result in the temporary variable\n        guardedExpression = temporary.set(guardedExpression);\n        //\n        Ensure all further references to the guarded expression refer to the temporary instead.\n        this._resultMap.set(leftMostSafe.receiver, temporary);\n    }\n    var /** @type {?} */ condition =\n    guardedExpression.isBlank();\n    // Convert the ast to an unguarded access to the receiver's member. The map\n    will substitute\n    // leftMostNode with its unguarded version in the call to `this.visit()`\n    if (leftMostSafe\n    instanceof SafeMethodCall) {\n        this._nodeMap.set(leftMostSafe, new MethodCall(leftMostSafe.span,\n        leftMostSafe.receiver, leftMostSafe.name, leftMostSafe.args));\n    } else {\n        this._nodeMap.set(leftMostSafe, new PropertyRead(leftMostSafe.span, leftMostSafe.receiver,\n        leftMostSafe.name));\n    }\n    // Recursively convert the node now without the guarded member access.\n    var /** @type {?} */ access = this._visit(ast, _Mode.Expression);\n    // Remove the mapping. This is not strictly\n    required as the converter only traverses each node\n    // once but is safer if the conversion is changed to traverse\n    the nodes more than once.\n    this._nodeMap.delete(leftMostSafe);\n    // If we allocated a temporary, release\n    it.\n    if (temporary) {\n        this.releaseTemporary(temporary);\n    }\n    // Produce the conditional\n    return convertToStatementIfNeeded(mode, condition.conditional(literal(null), access));\n }; \n /**\n * @param\n    {?} ast\n    * @return {?}\n    */\n    _AstToIrVisitor.prototype.leftMostSafeNode = /**\n    * @param {?} ast\n    * @return {?}\n    */\n    function (ast) {\n        var _this = this;\n        var /** @type {?} */ visit = function (visitor,\n        ast) {\n            return (_this._nodeMap.get(ast) || ast).visit(visitor);\n        };\n        return ast.visit({\n            visitBinary: /**\n                * @param {?} ast\n                * @return {?}\n                */\n                function (ast) { return null;\n            },\n            visitChain: /**\n                * @param {?} ast\n                * @return {?}\n                */\n                function (ast) {\n                    return null; },\n            visitConditional: /**\n                * @param {?} ast\n                * @return {?}\n                */\n                function (ast) { return null; },\n            visitFunctionCall: /**\n                * @param {?} ast\n                * @return {?}\n                */\n                function (ast) { return null; },\n            visitImplicitReceiver: /**\n                * @param {?} ast\n                * @return {?}\n                */\n                function (ast) { return null; },\n            visitInterpolation: /**\n                * @param {?} ast\n                * @return {?}\n                */\n                function (ast) { return null; },\n            visitKeyedRead: /**\n                * @param {?} ast\n                * @return {?}\n                */\n                function (ast) { return

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visit(this, ast.obj); },\n      visitKeyedWrite: /**\n      * @param {?} ast\n      * @return {?}\n      *\n      function (ast) { return null; },\n      visitLiteralArray: /**\n      * @param {?} ast\n      * @return {?}\n      *\n      function (ast) { return null; },\n      visitLiteralMap: /**\n      * @param\n      {?} ast\n      * @return {?}\n      *\n      function (ast) { return null; },\n      visitLiteralPrimitive:\n      /**\n      * @param {?} ast\n      * @return {?}\n      *\n      function (ast) { return null; },\n      visitMethodCall: /**\n      * @param {?} ast\n      * @return {?}\n      *\n      function (ast) { return\n      visit(this, ast.receiver); },\n      visitPipe: /**\n      * @param {?} ast\n      * @return {?}\n      *\n      function (ast) { return null; },\n      visitPrefixNot: /**\n      * @param {?} ast\n      * @return {?}\n      *\n      function (ast) { return null; },\n      visitNonNullAssert: /**\n      * @param {?} ast\n      * @return {?}\n      *\n      function (ast) { return null; },\n      visitPropertyRead: /**\n      * @param {?} ast\n      * @return {?}\n      *\n      function (ast) { return visit(this, ast.receiver); },\n      visitPropertyWrite: /**\n      * @param {?} ast\n      * @return {?}\n      *\n      function (ast) {\n      return null; },\n      visitQuote: /**\n      * @param {?} ast\n      * @return {?}\n      *\n      function (ast) { return null; },\n      visitSafeMethodCall: /**\n      * @param {?} ast\n      * @return\n      {?}\n      *\n      function (ast) { return visit(this, ast.receiver) || ast; },\n      visitSafePropertyRead: /**\n      * @param {?} ast\n      * @return {?}\n      *\n      function (ast) {\n      return visit(this,\n      ast.receiver) || ast;\n      });\n      });\n      /**\n      * @param {?} ast\n      * @return {?}\n      *\n      function (ast)\n      _AstToIrVisitor.prototype.needsTemporary = /**\n      * @param {?} ast\n      * @return {?}\n      *\n      function (ast)\n      {\n      var _this = this;\n      var /** @type {?} */ visit = function (visitor, ast) {\n      return ast &&\n      (_this._nodeMap.get(ast) || ast).visit(visitor);\n      });\n      var /** @type {?} */ visitSome = function (visitor, ast)\n      {\n      return ast.some(function (ast) { return visit(visitor, ast); });\n      });\n      return ast.visit({\n      visitBinary: /**\n      * @param {?} ast\n      * @return {?}\n      *\n      function (ast) { return\n      visit(this, ast.left) || visit(this, ast.right); },\n      visitChain: /**\n      * @param {?} ast\n      * @return\n      {?}\n      *\n      function (ast) { return false; },\n      visitConditional: /**\n      * @param {?} ast\n      * @return {?}\n      *\n      function (ast) {\n      return visit(this, ast.condition) || visit(this,\n      ast.trueExp) ||\n      visit(this, ast.falseExp);\n      },\n      visitFunctionCall: /**\n      * @param\n      {?}\n      ast\n      * @return {?}\n      *\n      function (ast) { return true; },\n      visitImplicitReceiver:\n      /**\n      * @param {?} ast\n      * @return {?}\n      *\n      function (ast) { return false; },\n      visitInterpolation: /**\n      * @param {?} ast\n      * @return {?}\n      *\n      function (ast) {\n      return visitSome(this, ast.expressions); },\n      visitKeyedRead: /**\n      * @param {?} ast\n      *\n      @return {?}\n      *\n      function (ast) { return false; },\n      visitKeyedWrite: /**\n      * @param\n      {?}\n      ast\n      * @return {?}\n      *\n      function (ast) { return false; },\n      visitLiteralArray: /**\n      * @param\n      {?}\n      ast\n      * @return {?}\n      *\n      function (ast) { return true; },\n      visitLiteralMap: /**\n      * @param\n      {?}\n      ast\n      * @return {?}\n      *\n      function (ast) { return\n      true; },\n      visitLiteralPrimitive: /**\n      * @param\n      {?}\n      ast\n      * @return {?}\n      *\n      function (ast) { return false; },\n      visitMethodCall: /**\n      * @param\n      {?}\n      ast\n      * @return {?}\n      *\n      function (ast) { return true; },\n      visitPipe: /**\n      * @param\n      {?}\n      ast\n      * @return\n      {?}\n      *\n      function (ast) { return true; },\n      visitPrefixNot: /**\n      * @param\n      {?}\n      ast\n      * @return {?}\n      *\n      function (ast) { return visit(this, ast.expression); },\n      visitNonNullAssert: /**\n      * @param\n      {?}\n      ast\n      * @return {?}\n      *\n      function (ast) {\n      return visit(this, ast.expression); },\n      visitPropertyRead: /**\n      * @param\n      {?}\n      ast\n      * @return\n      {?}\n      *\n      function (ast) { return false; },\n      visitPropertyWrite: /**\n      * @param\n      {?}\n      ast\n      * @return {?}\n      *\n      function (ast) { return false; },\n      visitQuote: /**\n      * @param\n      {?}\n      ast\n      * @return {?}\n      *\n      function (ast) { return false; },\n      visitSafeMethodCall: /**\n      * @param\n      {?}\n      ast\n      * @return {?}\n      *\n      function (ast) {\n      return true; },\n      visitSafePropertyRead: /**\n      * @param\n      {?}\n      ast\n      * @return {?}\n      *\n      function (ast) {\n      return false; }\n      });\n      });\n      /**\n      * @return {?}\n      *\n      function () {\n      var /** @type

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viewBuilderFactory);
};
var /** @type {?} */ visitor = viewBuilderFactory(null, []);
visitor.visitAll([], template);
return visitor.build(componentId);
};
return
TypeCheckCompiler;
})();
nvar DYNAMIC_VAR_NAME = '_any';
nvar TypeCheckLocalResolver = /** @class
*/ (function () {
function TypeCheckLocalResolver() {
}
/**
 * @param {?} name
 * @return
 {?}
 */
TypeCheckLocalResolver.prototype.getLocal = /**
 * @param {?} name
 * @return {?}
 */
function (name) {
if (name === EventHandlerVars.event.name) {
// References to the event
should not be type-checked.
// TODO(chuckj): determine a better type for the event.
return
variable(DYNAMIC_VAR_NAME);
}
return null;
};
return
TypeCheckLocalResolver;
})();
nvar defaultResolver = new TypeCheckLocalResolver();
nvar ViewBuilder = /**
@class */ (function () {
function ViewBuilder(options, reflector, externalReferenceVars, parent, component,
isHostComponent, embeddedViewIndex, pipes, guards, ctx, viewBuilderFactory) {
this.options = options;
this.reflector = reflector;
this.externalReferenceVars = externalReferenceVars;
this.parent = parent;
this.component = component;
this.isHostComponent = isHostComponent;
this.embeddedViewIndex
= embeddedViewIndex;
this.pipes = pipes;
this.guards = guards;
this.ctx = ctx;
this.viewBuilderFactory = viewBuilderFactory;
this.refOutputVars = new Map();
this.variables = [];
this.children = [];
this.updates = [];
this.actions = [];
}
/**
 * @param {?} type
 * @return {?}
 */
ViewBuilder.prototype.getOutputVar = /**
 * @param {?} type
 * @return {?}
 */
function (type) {
var /** @type {?} */ varName;
if (type === this.component &&
this.isHostComponent) {
varName = DYNAMIC_VAR_NAME;
}
else if (type instanceof
StaticSymbol) {
varName = this.externalReferenceVars.get(type);
}
else {
varName =
DYNAMIC_VAR_NAME;
}
if (!varName) {
throw new Error("Illegal State: referring to a
type without a variable \' + JSON.stringify(type));
}
return varName;
};
/**
 * @param {?}
 ast
 * @return {?}
 */
ViewBuilder.prototype.getTypeGuardExpressions = /**
 * @param {?} ast
 * @return {?}
 */
function (ast) {
var /** @type {?} */ result = this.guards.slice();
for (var _i =
0, _a = ast.directives; _i < _a.length; _i++) {
var directive = _a[_i];
for (var _b = 0, _c =
directive.inputs; _b < _c.length; _b++) {
var input = _c[_b];
var /** @type {?} */ guard =
directive.directive.guards[input.directiveName];
if (guard) {
var /** @type {?} */ useIf =
guard === 'UseIf';
result.push({
guard: guard,
useIf: useIf,
expression: /** @type {?} */ ({ context: this.component, value: input.value })
});
}
}
}
return result;
};
/**
 * @param {?} variables
 * @param {?} astNodes
 * @return {?}
 */
ViewBuilder.prototype.visitAll = /**
 * @param {?} variables
 * @param {?}
 astNodes
 * @return {?}
 */
function (variables, astNodes) {
this.variables = variables;
templateVisitAll(this, astNodes);
};
/**
 * @param {?} componentId
 * @param {?=}
 targetStatements
 * @return {?}
 */
ViewBuilder.prototype.build = /**
 * @param {?}
 componentId
 * @param {?=} targetStatements
 * @return {?}
 */
function (componentId,
targetStatements) {
var _this = this;
if (targetStatements === void 0) {
targetStatements = [];
}
this.children.forEach(function (child) {
return child.build(componentId, targetStatements);
});
var /** @type
 {?} */ viewStmts = [variable(DYNAMIC_VAR_NAME).set(NULL_EXPR).toDeclStmnt(DYNAMIC_TYPE)];
var /** @type {?} */ bindingCount = 0;
this.updates.forEach(function (expression) {
var _a =
_this.preprocessUpdateExpression(expression), sourceSpan = _a.sourceSpan, context = _a.context, value =
_a.value;
var /** @type {?} */ bindingId = "\" + bindingCount++;
var /** @type {?} */
nameResolver = context === _this.component ? _this : defaultResolver;
var _b =
convertPropertyBinding(nameResolver, variable(_this.getOutputVar(context)), value, bindingId,
BindingForm.General), stmts = _b.stmts, currValExpr = _b.currValExpr;
stmts.push(new
ExpressionStatement(currValExpr));
viewStmts.push.apply(viewStmts, stmts.map(function (stmt) {
return
applySourceSpanToStatementIfNeeded(stmt, sourceSpan);
}));
this.actions.forEach(function (_a) {
var sourceSpan = _a.sourceSpan, context = _a.context, value = _a.value;
var /** @type {?} */
bindingId = "\" + bindingCount++;
var /** @type {?} */ nameResolver = context === _this.component ?

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```

_this : defaultResolver;\n      var stmts = convertActionBinding(nameResolver,
variable(_this.getOutputVar(context)), value, bindingId).stmts;\n      viewStmts.push.apply(viewStmts,
stmts.map(function (stmt) { return applySourceSpanToStatementIfNeeded(stmt, sourceSpan); }));\n    });\n    if
(this.guards.length) {\n      var /** @type {?} */ guardExpression = undefined;\n      for (var _i = 0, _a =
this.guards; _i < _a.length; _i++) {\n        var guard = _a[_i];\n        var _b =
this.preprocessUpdateExpression(guard.expression), context = _b.context, value = _b.value;\n        var /**
@type {?} */ bindingId = \"\" + bindingCount++;\n        var /** @type {?} */ nameResolver = context ===
this.component ? this : defaultResolver;\n        // We only support support simple expressions and ignore others
as they\n        // are unlikely to affect type narrowing.\n        var _c =
convertPropertyBinding(nameResolver, variable(this.getOutputVar(context)), value, bindingId,
BindingForm.TrySimple), stmts = _c.stmts, currValExpr = _c.currValExpr;\n        if (stmts.length === 0) {\n
var /** @type {?} */ guardClause = guard.useIf ? currValExpr :
this.ctx.importExpr(guard.guard).callFn([currValExpr]);\n        guardExpression = guardExpression ?
guardExpression.and(guardClause) : guardClause;\n        }\n        }\n        if (guardExpression) {\n
viewStmts = [new IfStmt(guardExpression, viewStmts)];\n        }\n        }\n        var /** @type {?} */ viewName
= \"_View_\" + componentId + \"_\" + this.embeddedViewIndex;\n        var /** @type {?} */ viewFactory = new
DeclareFunctionStmt(viewName, [], viewStmts);\n        targetStatements.push(viewFactory);\n        return
targetStatements;\n      };\n      /**\n      * @param {?} ast\n      * @param {?} context\n      * @return {?} */\n      *\n      * ViewBuilder.prototype.visitBoundText = /**\n      * @param {?} ast\n      * @param {?} context\n      * @return
{?} */\n      *\n      * function (ast, context) {\n      *   var _this = this;\n      *   var /** @type {?} */ astWithSource = /**
@type {?} */ (ast.value);\n      *   var /** @type {?} */ inter = /** @type {?} */ (astWithSource.ast);\n
inter.expressions.forEach(function (expr) {\n      *   return _this.updates.push({ context: _this.component, value:
expr, sourceSpan: ast.sourceSpan });\n      * });\n      * });\n      /**\n      * @param {?} ast\n      * @param {?} context\n
* @return {?} */\n      *\n      * ViewBuilder.prototype.visitEmbeddedTemplate = /**\n      * @param {?} ast\n      *
@param {?} context\n      * @return {?} */\n      *\n      * function (ast, context) {\n
this.visitElementOrTemplate(ast);\n      * // Note: The old view compiler used to use an `any` type\n      * // for the
context in any embedded view.\n      * // We keep this behavior behind a flag for now.\n      * if
(this.options.fullTemplateTypeCheck) {\n      *   // Find any applicable type guards. For example, NgIf has a type
guard on ngIf\n      *   // (see NgIf.ngIfTypeGuard) that can be used to indicate that a template is only\n      *   //
stamped out if ngIf is truthy so any bindings in the template can assume that,\n      *   // if a nullable type is used for
ngIf, that expression is not null or undefined.\n      *   var /** @type {?} */ guards =
this.getTypeGuardExpressions(ast);\n      *   var /** @type {?} */ childVisitor = this.viewBuilderFactory(this,
guards);\n      *   this.children.push(childVisitor);\n      *   childVisitor.visitAll(ast.variables, ast.children);\n      * }\n
};\n      /**\n      * @param {?} ast\n      * @param {?} context\n      * @return {?} */\n      *\n      * ViewBuilder.prototype.visitElement = /**\n      * @param {?} ast\n      * @param {?} context\n      * @return {?} */\n
*\n      * function (ast, context) {\n      *   var _this = this;\n      *   this.visitElementOrTemplate(ast);\n      *   var /** @type
{?} */ inputDefs = [];\n      *   var /** @type {?} */ updateRendererExpressions = [];\n      *   var /** @type {?} */
outputDefs = [];\n      *   ast.inputs.forEach(function (inputAst) {\n      *     _this.updates.push({ context:
_this.component, value: inputAst.value, sourceSpan: inputAst.sourceSpan });\n      * });\n      *   templateVisitAll(this,
ast.children);\n      * });\n      /**\n      * @param {?} ast\n      * @return {?} */\n      *\n      * ViewBuilder.prototype.visitElementOrTemplate = /**\n      * @param {?} ast\n      * @return {?} */\n      *\n      * function
(ast) {\n      *   var _this = this;\n      *   ast.directives.forEach(function (dirAst) { _this.visitDirective(dirAst); });\n
ast.references.forEach(function (ref) {\n      *   var /** @type {?} */ outputVarType = /** @type {?} */ ((null));\n
      *   // Note: The old view compiler used to use an `any` type\n      *   // for directives exposed via `exportAs`.\n
      *   // We keep this behavior behind a flag for now.\n      *   if (ref.value && ref.value.identifier &&
_this.options.fullTemplateTypeCheck) {\n      *     outputVarType = ref.value.identifier.reference;\n      *   }\n
      *   else {\n      *     outputVarType = BuiltinTypeName.Dynamic;\n      *   }\n
      *   _this.refOutputVars.set(ref.name, outputVarType);\n      * });\n      * ast.outputs.forEach(function (outputAst) {\n

```



```

ViewBuilder.prototype.visitDirectiveProperty = /**\n * @param {?} ast\n * @param {?} context\n *
@return {?}\n */\n function (ast, context) {;\n /**\n * @param {?} ast\n * @param {?} context\n *
@return {?}\n */\n ViewBuilder.prototype.visitReference = /**\n * @param {?} ast\n * @param {?}
context\n * @return {?}\n */\n function (ast, context) {;\n /**\n * @param {?} ast\n * @param {?}
context\n * @return {?}\n */\n ViewBuilder.prototype.visitVariable = /**\n * @param {?} ast\n *
@param {?} context\n * @return {?}\n */\n function (ast, context) {;\n /**\n * @param {?} ast\n *
@param {?} context\n * @return {?}\n */\n ViewBuilder.prototype.visitEvent = /**\n * @param {?} ast\n
* @param {?} context\n * @return {?}\n */\n function (ast, context) {;\n /**\n * @param {?} ast\n
* @param {?} context\n * @return {?}\n */\n ViewBuilder.prototype.visitElementProperty = /**\n *
@param {?} ast\n * @param {?} context\n * @return {?}\n */\n function (ast, context) {;\n /**\n *
@param {?} ast\n * @param {?} context\n * @return {?}\n */\n ViewBuilder.prototype.visitAttr = /**\n
* @param {?} ast\n * @param {?} context\n * @return {?}\n */\n function (ast, context) {;\n return
ViewBuilder;\n});\n\n/**\n * @fileoverview added by tsickle\n * @suppress {checkTypes} checked by tsc\n
*\n/**\n * @license\n * Copyright Google Inc. All Rights Reserved.\n *\n * Use of this source code is governed by
an MIT-style license that can be\n * found in the LICENSE file at https://angular.io/license\n */\nvar
CLASS_ATTR$1 = 'class';\nvar STYLE_ATTR = 'style';\nvar IMPLICIT_TEMPLATE_VAR = '\\$implicit';\nvar
ViewCompileResult = /** @class */ (function () {\n function ViewCompileResult(viewClassVar,
rendererTypeVar) {\n this.viewClassVar = viewClassVar;\n this.rendererTypeVar = rendererTypeVar;\n
}\n return ViewCompileResult;\n});\nvar ViewCompiler = /** @class */ (function () {\n function
ViewCompiler(_reflector) {\n this._reflector = _reflector;\n }\n /**\n * @param {?} outputCtx\n *
@param {?} component\n * @param {?} template\n * @param {?} styles\n * @param {?} usedPipes\n *
@return {?}\n */\n ViewCompiler.prototype.compileComponent = /**\n * @param {?} outputCtx\n *
@param {?} component\n * @param {?} template\n * @param {?} styles\n * @param {?} usedPipes\n *
@return {?}\n */\n function (outputCtx, component, template, styles, usedPipes) {\n var _this = this;\n
var /** @type {?} */ embeddedViewCount = 0;\n var /** @type {?} */ staticQueryIds =
findStaticQueryIds(template);\n var /** @type {?} */ renderComponentVarName = /** @type {?} */
((undefined));\n if (!component.isHost) {\n var /** @type {?} */ template_1 = /** @type {?} */
((component.template));\n var /** @type {?} */ customRenderData = [];\n if (template_1.animations
&& template_1.animations.length) {\n customRenderData.push(new LiteralMapEntry('animation',
convertValueToOutputAst(outputCtx, template_1.animations), true));\n }\n var /** @type {?} */
renderComponentVar = variable(rendererTypeName(component.type.reference));\n
renderComponentVarName = /** @type {?} */ ((renderComponentVar.name));\n
outputCtx.statements.push(renderComponentVar\n
.set(importExpr(Identifiers.createRendererType2).callFn([new LiteralMapExpr([\n new
LiteralMapEntry('encapsulation', literal(template_1.encapsulation), false),\n new
LiteralMapEntry('styles', styles, false),\n new LiteralMapEntry('data', new
LiteralMapExpr(customRenderData), false)\n ]])))\n
.toDeclStmt(importType(Identifiers.RendererType2), [StmtModifier.Final, StmtModifier.Exported]));\n }\n
var /** @type {?} */ viewBuilderFactory = function (parent) {\n var /** @type {?} */ embeddedViewIndex
= embeddedViewCount++;\n return new ViewBuilder$1(_this._reflector, outputCtx, parent, component,
embeddedViewIndex, usedPipes, staticQueryIds, viewBuilderFactory);\n }; \n var /** @type {?} */ visitor
= viewBuilderFactory(null);\n visitor.visitAll([], template);\n (_a = outputCtx.statements).push.apply(_a,
visitor.build());\n return new ViewCompileResult(visitor.viewName, renderComponentVarName);\n var
_a;\n }; \n return ViewCompiler;\n});\n\nvar LOG_VAR$1 = variable('_l');\nvar VIEW_VAR =
variable('_v');\nvar CHECK_VAR = variable('_ck');\nvar COMP_VAR = variable('_co');\nvar
EVENT_NAME_VAR = variable('en');\nvar ALLOW_DEFAULT_VAR = variable('ad');\nvar ViewBuilder$1 =
/** @class */ (function () {\n function ViewBuilder(reflector, outputCtx, parent, component,
embeddedViewIndex, usedPipes, staticQueryIds, viewBuilderFactory) {\n this.reflector = reflector;\n

```



```

@type {?} */ ((_this.staticQueryIds.get(/** @type {?} */ (ast))))), dirHostBindings = _a.hostBindings,
dirHostEvents = _a.hostEvents;\n      hostBindings.push.apply(hostBindings, dirHostBindings);\n
hostEvents.push.apply(hostEvents, dirHostEvents);\n      }\n      else {\n
_this._visitProvider(providerAst, ast.queryMatches);\n      }\n      });\n      var /** @type {?} */
queryMatchExprs = [];\n      ast.queryMatches.forEach(function (match) {\n      var /** @type {?} */ valueType
= /** @type {?} */ ((undefined));\n      if (tokenReference(match.value) ===\n
_this.reflector.resolveExternalReference(Identifiers.ElementRef)) {\n      valueType = 0 /* ElementRef */;\n
}\n      else if (tokenReference(match.value) ===\n
_this.reflector.resolveExternalReference(Identifiers.ViewContainerRef)) {\n      valueType = 3 /*
ViewContainerRef */;\n      }\n      else if (tokenReference(match.value) ===\n
_this.reflector.resolveExternalReference(Identifiers.TemplateRef)) {\n      valueType = 2 /* TemplateRef */;\n
}\n      if (valueType !== null) {\n      queryMatchExprs.push(literalArr([literal(match.queryId),
literal(valueType)]));\n      }\n      });\n      ast.references.forEach(function (ref) {\n      var /** @type {?}
*/ valueType = /** @type {?} */ ((undefined));\n      if (!ref.value) {\n      valueType = 1 /*
RenderElement */;\n      }\n      else if (tokenReference(ref.value) ===\n
_this.reflector.resolveExternalReference(Identifiers.TemplateRef)) {\n      valueType = 2 /* TemplateRef */;\n
}\n      if (valueType !== null) {\n      _this.refNodeIndices[ref.name] = nodeIndex;\n
queryMatchExprs.push(literalArr([literal(ref.name), literal(valueType)]));\n      }\n      });\n
ast.outputs.forEach(function (outputAst) {\n      hostEvents.push({ context: COMP_VAR, eventAst: outputAst,
dirAst: /** @type {?} */ ((null)) });\n      });\n      return {\n      flags: flags,\n      usedEvents:
Array.from(usedEvents.values()),\n      queryMatchesExpr: queryMatchExprs.length ?
literalArr(queryMatchExprs) : NULL_EXPR,\n      hostBindings: hostBindings,\n      hostEvents:
hostEvents\n      };\n      };\n      /**\n      * @param {?} providerAst\n      * @param {?} dirAst\n      * @param {?}
directiveIndex\n      * @param {?} elementNodeIndex\n      * @param {?} refs\n      * @param {?} queryMatches\n
* @param {?} usedEvents\n      * @param {?} queryIds\n      * @return {?}\n      */\n
ViewBuilder.prototype._visitDirective = /**\n      * @param {?} providerAst\n      * @param {?} dirAst\n      *
@param {?} directiveIndex\n      * @param {?} elementNodeIndex\n      * @param {?} refs\n      * @param {?}
queryMatches\n      * @param {?} usedEvents\n      * @param {?} queryIds\n      * @return {?}\n      */\n
function
(providerAst, dirAst, directiveIndex, elementNodeIndex, refs, queryMatches, usedEvents, queryIds) {\n      var
_this = this;\n      var /** @type {?} */ nodeIndex = this.nodes.length;\n      // reserve the space in the nodeDefs
array so we can add children\n      this.nodes.push(/** @type {?} */ ((null)));\n
dirAst.directive.queries.forEach(function (query, queryIndex) {\n      var /** @type {?} */ queryId =
dirAst.contentQueryStartId + queryIndex;\n      var /** @type {?} */ flags = 67108864 /* TypeContentQuery */ /
calcStaticDynamicQueryFlags(queryIds, queryId, query.first);\n      var /** @type {?} */ bindingType =
query.first ? 0 /* First */ : 1;\n      _this.nodes.push(function () {\n      return ({\n      sourceSpan:
dirAst.sourceSpan,\n      nodeFlags: flags,\n      nodeDef:
importExpr(Identifiers.queryDef).callFn([\n      literal(flags), literal(queryId),\n      new
LiteralMapExpr([new LiteralMapEntry(query.propertyName, literal(bindingType), false)]\n      )\n      ]),\n
});\n      });\n      });\n      // Note: the operation below might also create new nodeDefs,\n      // but we don't
want them to be a child of a directive,\n      // as they might be a provider/pipe on their own.\n      // I.e. we only
allow queries as children of directives nodes.\n      var /** @type {?} */ childCount = this.nodes.length - nodeIndex
- 1;\n      var _a = this._visitProviderOrDirective(providerAst, queryMatches), flags = _a.flags, queryMatchExprs =
_a.queryMatchExprs, providerExpr = _a.providerExpr, depsExpr = _a.depsExpr;\n      refs.forEach(function (ref)
{\n      if (ref.value && tokenReference(ref.value) === tokenReference(providerAst.token)) {\n
_this.refNodeIndices[ref.name] = nodeIndex;\n      queryMatchExprs.push(literalArr([literal(ref.name),
literal(4 /* Provider */)]));\n      }\n      });\n      if (dirAst.directive.isComponent) {\n      flags |= 32768 /*
Component */;\n      }\n      var /** @type {?} */ inputDefs = dirAst.inputs.map(function (inputAst, inputIndex)
{\n      var /** @type {?} */ mapValue = literalArr([literal(inputIndex), literal(inputAst.directiveName)]);\n

```



```

ViewBuilder.prototype._visitProviderOrDirective = /**\n
 * @param {?} providerAst\n
 * @param {?}
queryMatches\n
 * @return {?}\n
 */\n
function (providerAst, queryMatches) {\n
    var /** @type {?} */
flags = 0;\n
    var /** @type {?} */ queryMatchExprs = [];\n
    queryMatches.forEach(function (match) {\n
        if (tokenReference(match.value) === tokenReference(providerAst.token)) {\n
queryMatchExprs.push(literalArr([literal(match.queryId), literal(4 /* Provider */)]));\n
        });\n
        var
_a = providerDef(this.outputCtx, providerAst), providerExpr = _a.providerExpr, depsExpr = _a.depsExpr,
providerFlags = _a.flags, tokenExpr = _a.tokenExpr;\n
        return {\n
            flags: flags | providerFlags,\n
queryMatchExprs: queryMatchExprs,\n
            providerExpr: providerExpr,\n
            depsExpr: depsExpr,\n
tokenExpr: tokenExpr,\n
            sourceSpan: providerAst.sourceSpan\n
        };;\n
    /**\n
 * @param {?}
name\n
 * @return {?}\n
 */\n
ViewBuilder.prototype.getLocal = /**\n
 * @param {?} name\n
 * @return
{?}\n
 */\n
function (name) {\n
    if (name === EventHandlerVars.event.name) {\n
        return
EventHandlerVars.event;\n
    }\n
    var /** @type {?} */ currViewExpr = VIEW_VAR;\n
    for (var /**
@type {?} */ currBuilder = this; currBuilder; currBuilder = currBuilder.parent,\n
        currViewExpr =
currViewExpr.prop('parent').cast(DYNAMIC_TYPE)) {\n
        // check references\n
        var /** @type {?} */
refNodeIndex = currBuilder.refNodeIndices[name];\n
        if (refNodeIndex !== null) {\n
            return
importExpr(Identifiers.nodeValue).callFn([currViewExpr, literal(refNodeIndex)]);\n
        }\n
        // check
variables\n
        var /** @type {?} */ varAst = currBuilder.variables.find(function (varAst) { return varAst.name
=== name; });\n
        if (varAst) {\n
            var /** @type {?} */ varValue = varAst.value ||
IMPLICIT_TEMPLATE_VAR;\n
            return currViewExpr.prop('context').prop(varValue);\n
        }\n
    }\n
    return null;\n
};;\n
/**\n
 * @param {?} sourceSpan\n
 * @param {?} argCount\n
 * @return {?}\n
 */\n
ViewBuilder.prototype._createLiteralArrayConverter = /**\n
 * @param {?} sourceSpan\n
 * @param
{?} argCount\n
 * @return {?}\n
 */\n
function (sourceSpan, argCount) {\n
    if (argCount === 0) {\n
var /** @type {?} */ valueExpr_1 = importExpr(Identifiers.EMPTY_ARRAY);\n
        return function () { return
valueExpr_1; };\n
    }\n
    var /** @type {?} */ checkIndex = this.nodes.length;\n
    this.nodes.push(function
() {\n
        return ({\n
            sourceSpan: sourceSpan,\n
            nodeFlags: 32 /* TypePureArray */,\n
            nodeDef: importExpr(Identifiers.pureArrayDef).callFn([\n
                literal(checkIndex),\n
                literal(argCount),\n
            ])\n
        });;\n
    });;\n
    return function (args) { return
callCheckStmt(checkIndex, args); };\n
};;\n
/**\n
 * @param {?} sourceSpan\n
 * @param {?} keys\n
 *
@return {?}\n
 */\n
ViewBuilder.prototype._createLiteralMapConverter = /**\n
 * @param {?} sourceSpan\n
 * @param
{?} keys\n
 * @return {?}\n
 */\n
function (sourceSpan, keys) {\n
    if (keys.length === 0) {\n
        var /** @type {?} */ valueExpr_2 = importExpr(Identifiers.EMPTY_MAP);\n
        return function () { return
valueExpr_2; };\n
    }\n
    var /** @type {?} */ map = literalMap(keys.map(function (e, i) { return
(__assign({}, e, { value: literal(i) })); }));\n
    var /** @type {?} */ checkIndex = this.nodes.length;\n
    this.nodes.push(function () {\n
        return ({\n
            sourceSpan: sourceSpan,\n
            nodeFlags: 64 /*
TypePureObject */,\n
            nodeDef: importExpr(Identifiers.pureObjectDef).callFn([\n
                literal(checkIndex),\n
                map,\n
            ])\n
        });;\n
    });;\n
    return function (args) { return
callCheckStmt(checkIndex, args); };\n
};;\n
/**\n
 * @param {?} expression\n
 * @param {?} name\n
 *
@param {?} argCount\n
 * @return {?}\n
 */\n
ViewBuilder.prototype._createPipeConverter = /**\n
 * @param {?} expression\n
 * @param {?} name\n
 * @param {?} argCount\n
 * @return {?}\n
 */\n
function (expression, name, argCount) {\n
    var /** @type {?} */ pipe = /** @type {?} */
((this.usedPipes.find(function (pipeSummary) { return pipeSummary.name === name; }));\n
        if (pipe.pure) {\n
            var /** @type {?} */ checkIndex_1 = this.nodes.length;\n
            this.nodes.push(function () {\n
                return
({\n
                    sourceSpan: expression.sourceSpan,\n
                    nodeFlags: 128 /* TypePurePipe */,\n
                    nodeDef: importExpr(Identifiers.purePipeDef).callFn([\n
                        literal(checkIndex_1),\n
                        literal(argCount),\n
                    ])\n
                });;\n
            });;\n
            // find underlying pipe in the component
view\n
            var /** @type {?} */ compViewExpr = VIEW_VAR;\n
            var /** @type {?} */ compBuilder =
this;\n
            while (compBuilder.parent) {\n
                compBuilder = compBuilder.parent;\n
            }\n
            compViewExpr = compViewExpr.prop('parent').cast(DYNAMIC_TYPE);\n
            }\n
            var /** @type {?} */

```

```

pipeNodeIndex = compBuilder.purePipeNodeIndices[name];\n      var /** @type {?} */ pipeValueExpr_1 =
importExpr(Identifiers.nodeValue).callFn([compViewExpr, literal(pipeNodeIndex)]);\n      return function (args)
{\n      return callUnwrapValue(expression.nodeIndex, expression.bindingIndex,
callCheckStmt(checkIndex_1, [pipeValueExpr_1].concat(args));\n      };\n      }\n      else {\n      var /**
@type {?} */ nodeIndex = this._createPipe(expression.sourceSpan, pipe);\n      var /** @type {?} */
nodeValueExpr_1 = importExpr(Identifiers.nodeValue).callFn([VIEW_VAR, literal(nodeIndex)]);\n      return
function (args) {\n      return callUnwrapValue(expression.nodeIndex, expression.bindingIndex,
nodeValueExpr_1.callMethod('transform', args));\n      };\n      }\n      };\n      /**\n      * @param {?} sourceSpan\n
* @param {?} pipe\n      * @return {?} */\n      * ViewBuilder.prototype._createPipe = /**\n      * @param {?}
sourceSpan\n      * @param {?} pipe\n      * @return {?} */\n      * function (sourceSpan, pipe) {\n      var _this =
this;\n      var /** @type {?} */ nodeIndex = this.nodes.length;\n      var /** @type {?} */ flags = 0;\n
pipe.type.lifecycleHooks.forEach(function (lifecycleHook) {\n      // for pipes, we only support ngOnDestroy\n
if (lifecycleHook === LifecycleHooks.OnDestroy) {\n      flags |=
lifecycleHookToNodeFlag(lifecycleHook);\n      }\n      });\n      var /** @type {?} */ depExprs =
pipe.type.diDeps.map(function (diDep) { return depDef(_this.outputCtx, diDep); });\n      // function pipeDef\n
// flags: NodeFlags, ctor: any, deps: ([DepFlags, any] | any[]): NodeDef\n      this.nodes.push(function () {\n
return ({\n      sourceSpan: sourceSpan,\n      nodeFlags: 16 /* TypePipe */,\n      nodeDef:
importExpr(Identifiers.pipeDef).callFn([\n      literal(flags),
_this.outputCtx.importExpr(pipe.type.reference), literalArr(depExprs)\n      ])\n      });\n      });\n      }\n
return nodeIndex;\n      };\n      /**\n      * For the AST in `UpdateExpression.value`:\n      * - create nodes for pipes,
literal arrays and, literal maps,\n      * - update the AST to replace pipes, literal arrays and, literal maps with calls to
check fn.\n      * \n      * WARNING: This might create new nodeDefs (for pipes and literal arrays and literal maps)!\n
* @param {?} expression\n      * @return {?} */\n      * ViewBuilder.prototype._preprocessUpdateExpression =
/**\n      * For the AST in `UpdateExpression.value`:\n      * - create nodes for pipes, literal arrays and, literal maps,\n
* - update the AST to replace pipes, literal arrays and, literal maps with calls to check fn.\n      * \n      * WARNING:
This might create new nodeDefs (for pipes and literal arrays and literal maps)!\n      * @param {?} expression\n      *
@return {?} */\n      * function (expression) {\n      var _this = this;\n      return {\n      nodeIndex:
expression.nodeIndex,\n      bindingIndex: expression.bindingIndex,\n      sourceSpan:
expression.sourceSpan,\n      context: expression.context,\n      value: convertPropertyBindingBuiltins({\n
createLiteralArrayConverter: function (argCount) {\n      return
_this._createLiteralArrayConverter(expression.sourceSpan, argCount);\n      },\n
createLiteralMapConverter: function (keys) {\n      return
_this._createLiteralMapConverter(expression.sourceSpan, keys);\n      },\n      createPipeConverter:
function (name, argCount) {\n      return _this._createPipeConverter(expression, name, argCount);\n
}\n      }, expression.value)\n      };\n      };\n      /**\n      * @return {?} */\n      * ViewBuilder.prototype._createNodeExpressions = /**\n      * @return {?} */\n      * function () {\n      var /**
@type {?} */ self = this;\n      var /** @type {?} */ updateBindingCount = 0;\n      var /** @type {?} */
updateRendererStmts = [];\n      var /** @type {?} */ updateDirectivesStmts = [];\n      var /** @type {?} */
nodeDefExprs = this.nodes.map(function (factory, nodeIndex) {\n      var _a = factory(), nodeDef = _a.nodeDef,
nodeFlags = _a.nodeFlags, updateDirectives = _a.updateDirectives, updateRenderer = _a.updateRenderer,
sourceSpan = _a.sourceSpan;\n      if (updateRenderer) {\n
updateRendererStmts.push.apply(updateRendererStmts, createUpdateStatements(nodeIndex, sourceSpan,
updateRenderer, false));\n      }\n      if (updateDirectives) {\n
updateDirectivesStmts.push.apply(updateDirectivesStmts, createUpdateStatements(nodeIndex, sourceSpan,
updateDirectives, (nodeFlags & (262144 /* DoCheck */ | 65536 /* OnInit */) > 0));\n      }\n      // We use a
comma expression to call the log function before\n      // the nodeDef function, but still use the result of the
nodeDef function\n      // as the value.\n      // Note: We only add the logger to elements / text nodes,\n
// so we don't generate too much code.\n      var /** @type {?} */ logWithNodeDef = nodeFlags & 3 /*

```

```

CatRenderNode */ ?\n          new CommaExpr([LOG_VAR$.callFn().callFn(), nodeDef]) :\n
nodeDef;\n          return applySourceSpanToExpressionIfNeeded(logWithNodeDef, sourceSpan);\n      });\n
return { updateRendererStmts: updateRendererStmts, updateDirectivesStmts: updateDirectivesStmts,\n
nodeDefExprs: nodeDefExprs };;\n      /**\n      * @param {?} nodeIndex\n      * @param {?} sourceSpan\n      * @param {?} expressions\n      * @param {?} allowEmptyExprs\n      * @return {?}\n      */\n      function\n
createUpdateStatements(nodeIndex, sourceSpan, expressions, allowEmptyExprs) {\n          var /** @type {?} */\n
updateStmts = [];\n          var /** @type {?} */ exprs = expressions.map(function (_a) {\n              var sourceSpan\n
= _a.sourceSpan, context = _a.context, value = _a.value;\n              var /** @type {?} */ bindingId = "\" +\n
updateBindingCount++;\n              var /** @type {?} */ nameResolver = context === COMP_VAR ? self : null;\n
              var _b = convertPropertyBinding(nameResolver, context, value, bindingId, BindingForm.General), stmts =\n
_b.stmts, currValExpr = _b.currValExpr;\n              updateStmts.push.apply(updateStmts, stmts.map(function\n
(stmt) { return applySourceSpanToStatementIfNeeded(stmt, sourceSpan); }));\n              return\n
applySourceSpanToExpressionIfNeeded(currValExpr, sourceSpan);\n          });\n          if (expressions.length ||\n
allowEmptyExprs) {\n
updateStmts.push(applySourceSpanToStatementIfNeeded(callCheckStmt(nodeIndex, exprs).toStmt(),\n
sourceSpan));\n          }\n          return updateStmts;\n      };\n      /**\n      * @param {?} nodeIndex\n      *\n
@param {?} handlers\n      * @return {?}\n      */\n      function _createElementHandleEventFn = /**\n      *\n
@param {?} nodeIndex\n      * @param {?} handlers\n      * @return {?}\n      */\n      function (nodeIndex, handlers)\n
{\n          var _this = this;\n          var /** @type {?} */ handleEventStmts = [];\n          var /** @type {?} */\n
handleEventBindingCount = 0;\n          handlers.forEach(function (_a) {\n              var context = _a.context, eventAst =\n
_a.eventAst, dirAst = _a.dirAst;\n              var /** @type {?} */ bindingId = "\" + handleEventBindingCount++;\n
              var /** @type {?} */ nameResolver = context === COMP_VAR ? _this : null;\n              var _b =\n
convertActionBinding(nameResolver, context, eventAst.handler, bindingId), stmts = _b.stmts, allowDefault =\n
_b.allowDefault;\n              var /** @type {?} */ trueStmts = stmts;\n              if (allowDefault) {\n
trueStmts.push(ALLOW_DEFAULT_VAR.set(allowDefault.and(ALLOW_DEFAULT_VAR)).toStmt());\n
              }\n              var _c = elementEventNameAndTarget(eventAst, dirAst), eventTarget = _c.target, eventName =\n
_c.name;\n              var /** @type {?} */ fullEventName = elementEventFullName(eventTarget, eventName);\n
              handleEventStmts.push(applySourceSpanToStatementIfNeeded(new\n
IfStmt(literal(fullEventName).identical(EVENT_NAME_VAR), trueStmts), eventAst.sourceSpan));\n          });\n
          var /** @type {?} */ handleEventFn;\n          if (handleEventStmts.length > 0) {\n              var /** @type {?} */\n
preStmts = [ALLOW_DEFAULT_VAR.set(literal(true)).toDeclStmt(BOOL_TYPE)];\n              if\n
(!this.component.isHost && findReadVarNames(handleEventStmts).has(/** @type {?} */ ((COMP_VAR.name))))\n
{\n                  preStmts.push(COMP_VAR.set(VIEW_VAR.prop('component')).toDeclStmt(this.compType));\n
              }\n              handleEventFn = fn([\n                  new FnParam(/** @type {?} */ ((VIEW_VAR.name)),\n
INFERRED_TYPE),\n                  new FnParam(/** @type {?} */ ((EVENT_NAME_VAR.name)),\n
INFERRED_TYPE),\n                  new FnParam(/** @type {?} */ ((EventHandlerVars.event.name)),\n
INFERRED_TYPE)\n              ], preStmts.concat(handleEventStmts, [new\n
ReturnStatement(ALLOW_DEFAULT_VAR)], INFERRED_TYPE));\n          }\n          else {\n              handleEventFn\n
= NULL_EXPR;\n          }\n          return handleEventFn;\n      };\n      /**\n      * @param {?} ast\n      * @param {?} context\n      * @return {?}\n      */\n      function _visitDirective = /**\n      *\n
@param {?} ast\n      * @param {?} context\n      * @return {?}\n      */\n      function (ast, context) {\n      }\n      /**\n      * @param {?} ast\n      * @param {?} context\n      * @return {?}\n      */\n      function _visitDirectiveProperty = /**\n      *\n
@param {?} ast\n      * @param {?} context\n      * @return {?}\n      */\n      function (ast, context) {\n      }\n      /**\n      *\n
@param {?} ast\n      * @param {?} context\n      * @return {?}\n      */\n      function _visitReference =\n
/**\n      *\n
@param {?} ast\n      * @param {?} context\n      * @return {?}\n      */\n      function (ast, context) {\n      }\n
/**\n      *\n
@param {?} ast\n      * @param {?} context\n      * @return {?}\n      */\n      function _visitVariable = /**\n      *\n
@param {?} ast\n      * @param {?} context\n      * @return {?}\n      */\n      function (ast, context) {\n      }\n
/**\n      *\n
@param {?} ast\n      * @param {?} context\n      * @return {?}\n      */\n      function _visitReference =

```

```

*/\n  VueBuilder.prototype.visitEvent = /**\n   * @param {?} ast\n   * @param {?} context\n   * @return
{?}\n   */\n  function (ast, context) {;\n  /**\n   * @param {?} ast\n   * @param {?} context\n   * @return
{?}\n   */\n  VueBuilder.prototype.visitElementProperty = /**\n   * @param {?} ast\n   * @param {?}
context\n   * @return {?}\n   */\n  function (ast, context) {;\n  /**\n   * @param {?} ast\n   * @param {?}
context\n   * @return {?}\n   */\n  VueBuilder.prototype.visitAttr = /**\n   * @param {?} ast\n   * @param
{?} context\n   * @return {?}\n   */\n  function (ast, context) {;\n  return VueBuilder;\n};\n\n/**\n *
@param {?} astNodes\n * @return {?}\n */\nfunction needsAdditionalRootNode(astNodes) {\n  var /** @type {?}
*/\n  lastAstNode = astNodes[astNodes.length - 1];\n  if (lastAstNode instanceof EmbeddedTemplateAst) {\n
return lastAstNode.hasViewContainer;\n  }\n  if (lastAstNode instanceof ElementAst) {\n    if
(isNgContainer(lastAstNode.name) && lastAstNode.children.length) {\n      return
needsAdditionalRootNode(lastAstNode.children);\n    }\n    return lastAstNode.hasViewContainer;\n  }\n
return lastAstNode instanceof NgContentAst;\n}\n\n/**\n * @param {?} inputAst\n * @param {?} dirAst\n * @return
{?}\n */\nfunction elementBindingDef(inputAst, dirAst) {\n  switch (inputAst.type) {\n    case
PropertyBindingType.Attribute:\n      return literalArr([\n        literal(1 /* TypeElementAttribute */),\n
literal(inputAst.name),\n        literal(inputAst.securityContext)\n      ]);\n    case
PropertyBindingType.Property:\n      return literalArr([\n        literal(8 /* TypeProperty */),\n
literal(inputAst.name),\n        literal(inputAst.securityContext)\n      ]);\n    case
PropertyBindingType.Animation:\n      var /** @type {?} */ bindingType = 8 /* TypeProperty */ |\n
(dirAst && dirAst.directive.isComponent ? 32 /* SyntheticHostProperty */ : 16 /* SyntheticProperty
*/);\n      return literalArr([\n        literal(bindingType), literal('@' + inputAst.name),\n
literal(inputAst.securityContext)\n      ]);\n    case PropertyBindingType.Class:\n      return
literalArr([\n        literal(2 /* TypeElementClass */), literal(inputAst.name), NULL_EXPR]);\n    case
PropertyBindingType.Style:\n      return literalArr([\n        literal(4 /* TypeElementStyle */),\n
literal(inputAst.name), literal(inputAst.unit)\n      ]);\n  }\n}\n\n/**\n * @param {?} elementAst\n * @return
{?}\n */\nfunction fixedAttrsDef(elementAst) {\n  var /** @type {?} */ mapResult = Object.create(null);\n
elementAst.attrs.forEach(function (attrAst) { mapResult[attrAst.name] = attrAst.value; });\n
elementAst.directives.forEach(function (dirAst) {\n
Object.keys(dirAst.directive.hostAttributes).forEach(function (name) {\n      var /** @type {?} */ value =
dirAst.directive.hostAttributes[name];\n      var /** @type {?} */ prevValue = mapResult[name];\n
mapResult[name] = prevValue != null ? mergeAttributeValue(name, prevValue, value) : value;\n    });\n
});\n\n  // Note: We need to sort to get a defined output order\n  // for tests and for caching generated artifacts...\n  return
literalArr(Object.keys(mapResult).sort().map(function (attrName) { return literalArr([\n    literal(attrName),\n
literal(mapResult[attrName])]); }));\n}\n\n/**\n * @param {?} attrName\n * @param {?} attrValue1\n * @param {?}
attrValue2\n * @return {?}\n */\nfunction mergeAttributeValue(attrName, attrValue1, attrValue2) {\n  if
(attrName == CLASS_ATTR$1 || attrName == STYLE_ATTR) {\n    return attrValue1 + \"\\n\" + attrValue2;\n  }\n
else {\n    return attrValue2;\n  }\n}\n\n/**\n * @param {?} nodeIndex\n * @param {?} exprs\n * @return
{?}\n */\nfunction callCheckStmt(nodeIndex, exprs) {\n  if (exprs.length > 10) {\n    return
CHECK_VAR.callFn([VIEW_VAR, literal(nodeIndex), literal(1 /* Dynamic */), literalArr(exprs)]);\n  }\n  else
{\n    return CHECK_VAR.callFn([VIEW_VAR, literal(nodeIndex), literal(0 /* Inline */)].concat(exprs));\n  }\n}\n\n/**\n * @param {?} nodeIndex\n * @param {?} bindingIdx\n * @param {?} expr\n * @return {?}\n */\nfunction
callUnwrapValue(nodeIndex, bindingIdx, expr) {\n  return
importExpr(Identifiers.unwrapValue).callFn([\n    VIEW_VAR, literal(nodeIndex), literal(bindingIdx), expr\n
]);\n}\n\n/**\n * @param {?} nodes\n * @param {?} result\n * @return {?}\n */\nfunction
findStaticQueryIds(nodes, result) {\n  if (result === void 0) { result = new Map(); }\n  nodes.forEach(function
(node) {\n    var /** @type {?} */ staticQueryIds = new Set();\n    var /** @type {?} */ dynamicQueryIds =
new Set();\n    var /** @type {?} */ queryMatches = /** @type {?} */ ((undefined));\n    if (node instanceof
ElementAst) {\n      findStaticQueryIds(node.children, result);\n      node.children.forEach(function (child)
{\n        var /** @type {?} */ childData = /** @type {?} */ ((result.get(child)));\n

```



```

messages = {};\n    var /** @type {?} */ mapperVisitor = new MapPlaceholderNames();\n    // Deduplicate
messages based on their ID\n    this._messages.forEach(function (message) {\n        var /** @type {?} */ id =
serializer.digest(message);\n        if (!messages.hasOwnProperty(id)) {\n            messages[id] = message;\n
        }\n        else {\n            (_a = messages[id].sources).push.apply(_a, message.sources);\n        }\n        var
_a;\n    });\n    // Transform placeholder names using the serializer mapping\n    var /** @type {?} */
msgList = Object.keys(messages).map(function (id) {\n        var /** @type {?} */ mapper =
serializer.createNameMapper(messages[id]);\n        var /** @type {?} */ src = messages[id];\n        var /**
@type {?} */ nodes = mapper ? mapperVisitor.convert(src.nodes, mapper) : src.nodes;\n        var /** @type {?}
*/ transformedMessage = new Message(nodes, {}, {}, src.meaning, src.description, id);\n        transformedMessage.sources = src.sources;\n        if (filterSources) {\n
transformedMessage.sources.forEach(function (source) { return source.filePath = filterSources(source.filePath);
});\n        }\n        return transformedMessage;\n    });\n    return serializer.write(msgList, this._locale);\n
};\n    return MessageBundle;\n})();\n\nvar MapPlaceholderNames = /** @class */ (function (_super) {\n
__extends(MapPlaceholderNames, _super);\n    function MapPlaceholderNames() {\n        return _super !== null
&& _super.apply(this, arguments) || this;\n    }\n    /**\n     * @param {?} nodes\n     * @param {?} mapper\n     *
@return {?}\n     *\n     * MapPlaceholderNames.prototype.convert = /**\n     * @param {?} nodes\n     * @param
{?} mapper\n     * @return {?}\n     *\n     * function (nodes, mapper) {\n        var _this = this;\n        return mapper ?
nodes.map(function (n) { return n.visit(_this, mapper); }) : nodes;\n    };\n    /**\n     * @param {?} ph\n     *
@param {?} mapper\n     * @return {?}\n     *\n     * MapPlaceholderNames.prototype.visitTagPlaceholder = /**\n
     * @param {?} ph\n     * @param {?} mapper\n     * @return {?}\n     *\n     * function (ph, mapper) {\n        var _this
= this;\n        var /** @type {?} */ startName = /** @type {?} */ ((mapper.toPublicName(ph.startName)));\n        var /**
@type {?} */ closeName = ph.closeName ? /** @type {?} */ ((mapper.toPublicName(ph.closeName))) :
ph.closeName;\n        var /** @type {?} */ children = ph.children.map(function (n) { return n.visit(_this, mapper);
});\n        return new TagPlaceholder(ph.tag, ph.attrs, startName, closeName, children, ph.isVoid, ph.sourceSpan);\n
    };\n    /**\n     * @param {?} ph\n     * @param {?} mapper\n     * @return {?}\n     *\n     *\n     * MapPlaceholderNames.prototype.visitPlaceholder = /**\n     * @param {?} ph\n     * @param {?} mapper\n     *
@return {?}\n     *\n     * function (ph, mapper) {\n        return new Placeholder(ph.value, /** @type {?} */
((mapper.toPublicName(ph.name))), ph.sourceSpan);\n    };\n    /**\n     * @param {?} ph\n     * @param {?}
mapper\n     * @return {?}\n     *\n     * MapPlaceholderNames.prototype.visitIcuPlaceholder = /**\n     * @param
{?} ph\n     * @param {?} mapper\n     * @return {?}\n     *\n     * function (ph, mapper) {\n        return new
IcuPlaceholder(ph.value, /** @type {?} */ ((mapper.toPublicName(ph.name))), ph.sourceSpan);\n    };\n    return
MapPlaceholderNames;\n})();\n\n(CloneVisitor);\n\n/**\n * @fileoverview added by tsickle\n * @suppress {checkTypes}
checked by tsc\n */\n\n/**\n * @license\n * Copyright Google Inc. All Rights Reserved.\n */\n\n * Use of this source
code is governed by an MIT-style license that can be\n * found in the LICENSE file at https://angular.io/license\n
*/\n\nvar GeneratedFile = /** @class */ (function () {\n    function GeneratedFile(srcFileUrl, genFileUrl,
sourceOrStmts) {\n        this.srcFileUrl = srcFileUrl;\n        this.genFileUrl = genFileUrl;\n        if (typeof
sourceOrStmts === 'string') {\n            this.source = sourceOrStmts;\n            this.stmts = null;\n        }\n        else {\n
            this.source = null;\n            this.stmts = sourceOrStmts;\n        }\n    }\n    /**\n     * @param {?} other\n     *
@return {?}\n     *\n     * GeneratedFile.prototype.isEquivalent = /**\n     * @param {?} other\n     * @return {?}\n
     *\n     * function (other) {\n        if (this.genFileUrl !== other.genFileUrl) {\n            return false;\n        }\n        if
(this.source) {\n            return this.source === other.source;\n        }\n        if (other.stmts === null) {\n            return
false;\n        }\n        // Note: the constructor guarantees that if this.source is not filled,\n        // then this.stmts is.\n        return
areAllEquivalent(/** @type {?} */ ((this.stmts)), /** @type {?} */ ((other.stmts)));\n    };\n    return
GeneratedFile;\n})();\n\n/**\n * @param {?} file\n * @param {?} preamble\n * @return {?}\n */\n\nfunction
toTypeScript(file, preamble) {\n    if (preamble === void 0) { preamble = ""; }\n    if (!file.stmts) {\n        throw new
Error("Illegal state: No stmts present on GeneratedFile " + file.genFileUrl);\n    }\n    return new
TypeScriptEmitter().emitStatements(file.genFileUrl, file.stmts, preamble);\n}\n\n/**\n * @fileoverview added by
tsickle\n * @suppress {checkTypes} checked by tsc\n */\n\n/**\n * @license\n * Copyright Google Inc. All Rights

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Reserved.\n *\n * Use of this source code is governed by an MIT-style license that can be\n * found in the
LICENSE file at https://angular.io/license\n *\n/**\n * @record\n *\n/**\n * @param {?} moduleMeta\n *
@param {?} reflector\n * @return {?}\n *\nfunction listLazyRoutes(moduleMeta, reflector) {\n  var /** @type
{?} */ allLazyRoutes = [];\n  for (var _i = 0, _a = moduleMeta.transitiveModule.providers; _i < _a.length; _i++)
{\n    var _b = _a[_i], provider = _b.provider, module = _b.module;\n    if (tokenReference(provider.token) ===
reflector.ROUTES) {\n      var /** @type {?} */ loadChildren = _collectLoadChildren(provider.useValue);\n      for (var _c = 0, loadChildren_1 = loadChildren; _c < loadChildren_1.length; _c++) {\n        var route =
loadChildren_1[_c];\n        allLazyRoutes.push(parseLazyRoute(route, reflector, module.reference));\n      }\n    }\n  }\n  return allLazyRoutes;\n}\n\n/**\n * @param {?} routes\n * @param {?=} target\n * @return {?}\n *\nfunction _collectLoadChildren(routes, target) {\n  if (target === void 0) { target = []; }\n  if (typeof routes
=== 'string') {\n    target.push(routes);\n  }\n  else if (Array.isArray(routes)) {\n    for (var _i = 0, routes_1 =
routes; _i < routes_1.length; _i++) {\n      var route = routes_1[_i];\n      _collectLoadChildren(route,
target);\n    }\n  }\n  else if (routes.loadChildren) {\n    _collectLoadChildren(routes.loadChildren, target);\n  }\n  else if (routes.children) {\n    _collectLoadChildren(routes.children, target);\n  }\n  return
target;\n}\n\n/**\n * @param {?} route\n * @param {?} reflector\n * @param {?=} module\n * @return {?}\n *\nfunction parseLazyRoute(route, reflector, module) {\n  var _a = route.split('#'), routePath = _a[0], routeName =
_a[1];\n  var /** @type {?} */ referencedModule = reflector.resolveExternalReference({\n    moduleName:
routePath,\n    name: routeName,\n  }, module ? module.filePath : undefined);\n  return { route: route, module:
module || referencedModule, referencedModule: referencedModule };\n}\n\n/**\n * @fileoverview added by
tsickle\n * @suppress {checkTypes} checked by tsc\n *\n/**\n * @license\n * Copyright Google Inc. All Rights
Reserved.\n *\n * Use of this source code is governed by an MIT-style license that can be\n * found in the
LICENSE file at https://angular.io/license\n *\nvar ResolvedStaticSymbol = /** @class */ (function () {\n  function ResolvedStaticSymbol(symbol, metadata) {\n    this.symbol = symbol;\n    this.metadata = metadata;\n  }\n  return ResolvedStaticSymbol;\n})();\n\n/**\n * The host of the SymbolResolverHost disconnects the
implementation from TypeScript / other\n * language\n * services and from underlying file systems.\n * @record\n
*\n*\nvar SUPPORTED_SCHEMA_VERSION = 4;\n\n/**\n * This class is responsible for loading metadata per
symbol,\n * and normalizing references between symbols.\n * Internally, it only uses symbols without
members,\n * and deduces the values for symbols with members based\n * on these symbols.\n *\nvar
StaticSymbolResolver = /** @class */ (function () {\n  function StaticSymbolResolver(host, staticSymbolCache,
summaryResolver, errorRecorder) {\n    this.host = host;\n    this.staticSymbolCache = staticSymbolCache;\n    this.summaryResolver = summaryResolver;\n    this.errorRecorder = errorRecorder;\n    this.metadataCache =
new Map();\n    this.resolvedSymbols = new Map();\n    this.resolvedFilePaths = new Set();\n    this.importAs = new Map();\n    this.symbolResourcePaths = new Map();\n    this.symbolFromFile = new
Map();\n    this.knownFileNameToModuleNames = new Map();\n  }\n  /**\n   * @param {?} staticSymbol\n   *
@return {?}\n   *\n   StaticSymbolResolver.prototype.resolveSymbol = /**\n   * @param {?} staticSymbol\n   *
@return {?}\n   *\n   function (staticSymbol) {\n     if (staticSymbol.members.length > 0) {\n       return
/** @type {?} */ ((this._resolveSymbolMembers(staticSymbol));\n     }\n     // Note: always ask for a summary
first,\n     // as we might have read shallow metadata via a .d.ts file\n     // for the symbol.\n     var /** @type
{?} */ resultFromSummary = /** @type {?} */ ((this._resolveSymbolFromSummary(staticSymbol));\n     if
(resultFromSummary) {\n       return resultFromSummary;\n     }\n     var /** @type {?} */ resultFromCache
= this.resolvedSymbols.get(staticSymbol);\n     if (resultFromCache) {\n       return resultFromCache;\n     }\n     // Note: Some users use libraries that were not compiled with ngc, i.e. they don't\n     // have summaries, only
.d.ts files. So we always need to check both, the summary\n     // and metadata.\n     this._createSymbolsOf(staticSymbol.filePath);\n     return /** @type {?} */
((this.resolvedSymbols.get(staticSymbol));\n   );\n   /**\n   * getImportAs produces a symbol that can be used to
import the given symbol.\n   * The import might be different than the symbol if the symbol is exported from\n   *
a library with a summary; in which case we want to import the symbol from the\n   * ngfactory re-export instead of
directly to avoid introducing a direct dependency\n   * on an otherwise indirect dependency.\n   *\n   * @param

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this.knownFileNameToModuleNames.get(filePath) || null;\n    };\n    /**\n     * @param {?} sourceSymbol\n     * @param {?} targetSymbol\n     * @return {?}\n     */\n    StaticSymbolResolver.prototype.recordImportAs = /**\n     * @param {?} sourceSymbol\n     * @param {?} targetSymbol\n     * @return {?}\n     */\n    function\n    (sourceSymbol, targetSymbol) {\n        sourceSymbol.assertNoMembers();\n        targetSymbol.assertNoMembers();\n        this.importAs.set(sourceSymbol, targetSymbol);\n    };\n    /**\n     * @param {?} fileName\n     * @param {?} moduleName\n     * @return {?}\n     */\n    StaticSymbolResolver.prototype.recordModuleNameForFileName = /**\n     * @param {?} fileName\n     * @param {?} moduleName\n     * @return {?}\n     */\n    function (fileName, moduleName) {\n        this.knownFileNameToModuleNames.set(fileName, moduleName);\n    };\n    /**\n     * Invalidate all information\n     * derived from the given file.\n     * @param fileName the file to invalidate\n     */\n    /**\n     * Invalidate all\n     * information derived from the given file.\n     * @param {?} fileName the file to invalidate\n     * @return\n     * {?}\n     */\n    StaticSymbolResolver.prototype.invalidateFile = /**\n     * Invalidate all information derived from\n     * the given file.\n     * @param {?} fileName the file to invalidate\n     * @return {?}\n     */\n    function\n    (fileName) {\n        this.metadataCache.delete(fileName);\n        this.resolvedFilePaths.delete(fileName);\n        var\n        /** @type {?} */ symbols = this.symbolFromFile.get(fileName);\n        if (symbols) {\n            this.symbolFromFile.delete(fileName);\n            for (var _i = 0, symbols_1 = symbols; _i < symbols_1.length; _i++)\n            {\n                var symbol = symbols_1[_i];\n                this.resolvedSymbols.delete(symbol);\n            }\n            this.importAs.delete(symbol);\n            this.symbolResourcePaths.delete(symbol);\n        }\n    };\n    /**\n     * @internal\n     */\n    /**\n     * @template T\n     * @param {?} cb\n     * @return {?}\n     */\n    StaticSymbolResolver.prototype.ignoreErrorsFor = /**\n     * @template T\n     * @param {?} cb\n     * @return\n     * {?}\n     */\n    function (cb) {\n        var /** @type {?} */ recorder = this.errorRecorder;\n        this.errorRecorder =\n        function () { };\n        try {\n            return cb();\n        } finally {\n            this.errorRecorder = recorder;\n        }\n    };\n    /**\n     * @param {?} staticSymbol\n     * @return {?}\n     */\n    StaticSymbolResolver.prototype._resolveSymbolMembers = /**\n     * @param {?} staticSymbol\n     * @return\n     * {?}\n     */\n    function (staticSymbol) {\n        var /** @type {?} */ members = staticSymbol.members;\n        var\n        /** @type {?} */ baseResolvedSymbol = this.resolveSymbol(this.getStaticSymbol(staticSymbol.filePath,\n        staticSymbol.name));\n        if (!baseResolvedSymbol) {\n            return null;\n        }\n        var /** @type {?} */\n        baseMetadata = unwrapResolvedMetadata(baseResolvedSymbol.metadata);\n        if (baseMetadata instanceof\n        StaticSymbol) {\n            return new ResolvedStaticSymbol(staticSymbol,\n            this.getStaticSymbol(baseMetadata.filePath, baseMetadata.name, members));\n        } else if (baseMetadata\n        && baseMetadata.__symbolic === 'class') {\n            if (baseMetadata.statics && members.length === 1) {\n                return new ResolvedStaticSymbol(staticSymbol, baseMetadata.statics[members[0]]);\n            }\n        } else\n        {\n            var /** @type {?} */ value = baseMetadata;\n            for (var /** @type {?} */ i = 0; i < members.length\n            && value; i++) {\n                value = value[members[i]];\n            }\n            return new\n            ResolvedStaticSymbol(staticSymbol, value);\n        }\n        return null;\n    };\n    /**\n     * @param {?} staticSymbol\n     * @return {?}\n     */\n    StaticSymbolResolver.prototype._resolveSymbolFromSummary = /**\n     * @param {?} staticSymbol\n     * @return {?}\n     */\n    function (staticSymbol) {\n        var /** @type {?} */\n        summary = this.summaryResolver.resolveSummary(staticSymbol);\n        return summary ? new\n        ResolvedStaticSymbol(staticSymbol, summary.metadata) : null;\n    };\n    /**\n     * getStaticSymbol produces a\n     * Type whose metadata is known but whose implementation is not loaded.\n     * All types passed to the\n     * StaticResolver should be pseudo-types returned by this method.\n     * @param declarationFile the absolute\n     * path of the file where the symbol is declared\n     * @param name the name of the type.\n     * @param members a\n     * symbol for a static member of the named type\n     */\n    /**\n     * getStaticSymbol produces a Type whose\n     * metadata is known but whose implementation is not loaded.\n     * All types passed to the StaticResolver should be\n     * pseudo-types returned by this method.\n     * @param {?} declarationFile the absolute path of the file where\n     * the symbol is declared\n     * @param {?} name the name of the type.\n     * @param {=} members a symbol for a\n     * static member of the named type\n     * @return {?}\n     */\n    StaticSymbolResolver.prototype.getStaticSymbol =\n    /**\n     * getStaticSymbol produces a Type whose metadata is known but whose implementation is not loaded.\n
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    }\n    }\n    var this_1 = this;\n    for (var _i = 0, _a = metadata['exports']; _i < _a.length; _i++) {\n
      var moduleExport = _a[_i];\n      _loop_1(moduleExport);\n    }\n    }\n    // handle the
actual metadata. Has to be after the exports\n    // as there might be collisions in the names, and we want the
symbols\n    // of the current module to win after reexports.\n    if (metadata['metadata']) {\n    // handle
direct declarations of the symbol\n    var /** @type {?} */ topLevelSymbolNames_1 = new
Set(Object.keys(metadata['metadata']).map(unescapeIdentifier));\n    var /** @type {?} */ origins_1 =
metadata['origins'] || {};\n    Object.keys(metadata['metadata']).forEach(function (metadataKey) {\n
var /** @type {?} */ symbolMeta = metadata['metadata'][metadataKey];\n    var /** @type {?} */ name =
unescapeIdentifier(metadataKey);\n    var /** @type {?} */ symbol = _this.getStaticSymbol(filePath,
name);\n    var /** @type {?} */ origin = origins_1.hasOwnProperty(metadataKey) &&
origins_1[metadataKey];\n    if (origin) {\n    // If the symbol is from a bundled index, use the
declaration location of the\n    // symbol so relative references (such as './my.html') will be calculated\n
// correctly.\n    var /** @type {?} */ originFilePath = _this.resolveModule(origin, filePath);\n
if (!originFilePath) {\n    _this.reportError(new Error("Couldn't resolve original symbol for \"" +
origin + "\" from \"" + filePath));\n    }\n    else {\n
_this.symbolResourcePaths.set(symbol, originFilePath);\n    }\n    }\n
resolvedSymbols.push(_this.createResolvedSymbol(symbol, filePath, topLevelSymbolNames_1, symbolMeta);\n
});\n    }\n    resolvedSymbols.forEach(function (resolvedSymbol) { return
_this.resolvedSymbols.set(resolvedSymbol.symbol, resolvedSymbol); });\n    this.symbolFromFile.set(filePath,
resolvedSymbols.map(function (resolvedSymbol) { return resolvedSymbol.symbol; }));\n    };\n    /**\n     *
@param {?} sourceSymbol\n     * @param {?} topLevelPath\n     * @param {?} topLevelSymbolNames\n     *
@param {?} metadata\n     * @return {}*\n     */\n    StaticSymbolResolver.prototype.createResolvedSymbol =
/**\n     * @param {?} sourceSymbol\n     * @param {?} topLevelPath\n     * @param {?}
topLevelSymbolNames\n     * @param {?} metadata\n     * @return {}*\n     */\n     function (sourceSymbol,
topLevelPath, topLevelSymbolNames, metadata) {\n    var _this = this;\n    // For classes that don't have
Angular summaries / metadata,\n    // we only keep their arity, but nothing else\n    // (e.g. their constructor
parameters).\n    // We do this to prevent introducing deep imports\n    // as we didn't generate .ngfactory.ts files
with proper reexports.\n    if (this.summaryResolver.isLibraryFile(sourceSymbol.filePath) && metadata &&\n
metadata['__symbolic'] === 'class') {\n    var /** @type {?} */ transformedMeta_1 = { __symbolic: 'class',
arity: metadata.arity }; \n    return new ResolvedStaticSymbol(sourceSymbol, transformedMeta_1);\n    }\n
var /** @type {?} */ _originalFileMemo; \n    var /** @type {?} */ getOriginalName = function () {\n    if
(!_originalFileMemo) {\n    // Guess what hte original file name is from the reference. If it has a `.d.ts`
extension\n    // replace it with `.ts`. If it already has `.ts` just leave it in place. If it doesn't have\n
//\n
.ts or .d.ts, append `.ts`. Also, if it is in `node_modules`, trim the `node_module`\n    // location as it is not
important to finding the file.\n    _originalFileMemo =\n
_this.host.getOutputName(topLevelPath.replace(/((\\,ts)|(\\,d\\,ts))$/, '.ts')\n
.replace(/^.*node_modules[\\|\\|\\|/, "]);\n    }\n    return _originalFileMemo;\n    }; \n    var /** @type
 {?} */ self = this;\n    var ReferenceTransformer = /** @class */ (function (_super) {\n
__extends(ReferenceTransformer, _super);\n    function ReferenceTransformer() {\n    return _super
!== null && _super.apply(this, arguments) || this;\n    }\n    /**\n     * @param {?} map\n     *
@param {?} functionParams\n     * @return {}*\n     */\n    ReferenceTransformer.prototype.visitStringMap = /***\n     * @param {?} map\n     * @param {?}
functionParams\n     * @return {}*\n     */\n     function (map, functionParams) {\n    var /**
 @type
 {?} */ symbolic = map['__symbolic'];\n    if (symbolic === 'function') {\n    var /** @type
 {?} */ oldLen = functionParams.length;\n    functionParams.push.apply(functionParams,
(map['parameters'] || []));\n    var /** @type {?} */ result = _super.prototype.visitStringMap.call(this, map,
functionParams);\n    functionParams.length = oldLen;\n    return result;\n    }\n
else if (symbolic === 'reference') {\n    var /** @type {?} */ module = map['module'];\n    var

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/** @type {?} */ name_1 = map['name'] ? unescapeIdentifier(map['name']) : map['name'];\n      if
('name_1') {\n          return null;\n      }\n      var /** @type {?} */ filePath = void 0;\n
      if (module) {\n          filePath = /** @type {?} */ ((self.resolveModule(module,
sourceSymbol.filePath));\n          if (!filePath) {\n              return {\n
__symbolic: 'error',\n              message: \"Could not resolve \" + module + \" relative to \" +
sourceSymbol.filePath + \".\", \n              line: map[\"line\"],\n              character:
map[\"character\"],\n              fileName: getOriginalName()\n          };\n      }\n
      return {\n          __symbolic: 'resolved',\n          symbol:
self.getStaticSymbol(filePath, name_1),\n          line: map[\"line\"],\n          character:
map[\"character\"],\n          fileName: getOriginalName()\n      };\n
      else if (functionParams.indexOf(name_1) >= 0) {\n          // reference to a function parameter\n
return { __symbolic: 'reference', name: name_1 };\n      } else {\n          if
(topLevelSymbolNames.has(name_1)) {\n              return self.getStaticSymbol(topLevelPath, name_1);\n
          }\n          // ambient value\n          null;\n      } else if
(symbolic === 'error') {\n          return __assign({}, map, { fileName: getOriginalName() });\n
      } else {\n          return _super.prototype.visitStringMap.call(this, map, functionParams);\n
      };\n      return ReferenceTransformer.prototype.visitStringMap.call(this, map, functionParams);\n
transformedMeta = visitValue(metadata, new ReferenceTransformer(), []);\n      var /** @type {?} */
unwrappedTransformedMeta = unwrapResolvedMetadata(transformedMeta);\n      if (unwrappedTransformedMeta
instanceof StaticSymbol) {\n          return this.createExport(sourceSymbol, unwrappedTransformedMeta);\n
      }\n      return new ResolvedStaticSymbol(sourceSymbol, transformedMeta);\n
      };\n      /**\n      * @param {?} sourceSymbol\n      * @param {?} targetSymbol\n      * @return {?}
StaticSymbolResolver.prototype.createExport = /**\n      * @param {?} sourceSymbol\n      * @param {?}
targetSymbol\n      * @return {?} */\n      function (sourceSymbol, targetSymbol) {\n
sourceSymbol.assertNoMembers();\n      targetSymbol.assertNoMembers();\n      if
(this.summaryResolver.isLibraryFile(sourceSymbol.filePath) &&\n
this.summaryResolver.isLibraryFile(targetSymbol.filePath)) {\n          // This case is for an ng library importing
symbols from a plain ts library\n          // transitively.\n          // Note: We rely on the fact that we discover symbols
in the direction\n          // from source files to library files\n          this.importAs.set(targetSymbol,
this.getImportAs(sourceSymbol) || sourceSymbol);\n      }\n      return new ResolvedStaticSymbol(sourceSymbol,
targetSymbol);\n
      };\n      /**\n      * @param {?} error\n      * @param {?=} context\n      * @param {?=} path\n      *
@return {?}\n      * ^\n      StaticSymbolResolver.prototype.reportError = /**\n      * @param {?} error\n      * @param
{?=} context\n      * @param {?=} path\n      * @return {?}\n      * ^\n      function (error, context, path) {\n      if
(this.errorRecorder) {\n          this.errorRecorder(error, (context && context.filePath) || path);\n      }\n      else
{\n          throw error;\n      }\n
      };\n      /**\n      * @param {?} module an absolute path to a module file.\n      *
@return {?}\n      * ^\n      StaticSymbolResolver.prototype.getModuleMetadata = /**\n      * @param {?} module an
absolute path to a module file.\n      * @return {?}\n      * ^\n      function (module) {\n          var /** @type {?} */
moduleMetadata = this.metadataCache.get(module);\n          if (!moduleMetadata) {\n              var /** @type {?} */
moduleMetadatas = this.host.getMetadataFor(module);\n              if (moduleMetadatas) {\n                  var /** @type
{?} */ maxVersion_1 = -1;\n                  moduleMetadatas.forEach(function (md) {\n                      if (md &&
md['version'] > maxVersion_1) {\n                          maxVersion_1 = md['version'];\n                      }\n
                  });\n                  if (!moduleMetadata) {\n                      moduleMetadata =\n
{ __symbolic: 'module', version: SUPPORTED_SCHEMA_VERSION, module: module, metadata: {} };\n
                  }\n                  if (moduleMetadata['version'] != SUPPORTED_SCHEMA_VERSION) {\n                      var /** @type
{?} */ errorMessage = moduleMetadata['version'] == 2 ?\n                      \"Unsupported metadata version \" +
moduleMetadata['version'] + \" for module \" + module + \". This module should be compiled with a newer version
of ngc\":\n                      \"Metadata version mismatch for module \" + module + \", found version \" +
moduleMetadata['version'] + \", expected \" + SUPPORTED_SCHEMA_VERSION;\n

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this.reportError(new Error(errorMessage));\n    }\n    this.metadataCache.set(module, moduleMetadata);\n    }\n    return moduleMetadata;\n  };\n  /**\n   * @param {?} module\n   * @param {?} symbolName\n   * @param {?=} containingFile\n   * @return {?}\n   */\n  StaticSymbolResolver.prototype.getSymbolByModule\n  = /**\n   * @param {?} module\n   * @param {?} symbolName\n   * @param {?=} containingFile\n   * @return {?}\n   */\n   function (module, symbolName, containingFile) {\n    var /** @type {?} */ filePath =\n    this.resolveModule(module, containingFile);\n    if (!filePath) {\n      this.reportError(new Error(`Could not\n      resolve module ` + module + (containingFile ? ` relative to ` +\n      containingFile : `)));\n      return\n      this.getStaticSymbol(`ERROR:` + module, symbolName);\n    }\n    return this.getStaticSymbol(filePath,\n    symbolName);\n  };\n  /**\n   * @param {?} module\n   * @param {?=} containingFile\n   * @return {?}\n   */\n   StaticSymbolResolver.prototype.resolveModule = /**\n   * @param {?} module\n   * @param {?=} containingFile\n   * @return {?}\n   */\n   function (module, containingFile) {\n    try {\n      return\n      this.host.moduleNameToFilePath(module, containingFile);\n    }\n    catch (** @type {?} */ e) {\n      console.error(`Could not resolve module ` + module + ` relative to file ` + containingFile);\n      this.reportError(e, undefined, containingFile);\n    }\n    return null;\n  };\n  return\n  StaticSymbolResolver;\n})();\n  /**\n   * @param {?} identifier\n   * @return {?}\n   */\n   function\n   unescapeIdentifier(identifier) {\n    return identifier.startsWith(`__`) ? identifier.substr(1) : identifier;\n  }\n  /**\n   * @param {?} metadata\n   * @return {?}\n   */\n   function unwrapResolvedMetadata(metadata) {\n    if (metadata &&\n    metadata.__symbolic === `resolved`) {\n      return metadata.symbol;\n    }\n    return metadata;\n  }\n  /**\n   * @fileoverview added by tsickle\n   * @suppress {checkTypes} checked by tsc\n   */\n  /**\n   * @param {?}\n   * srcFileName\n   * @param {?}\n   * forJitCtx\n   * @param {?}\n   * summaryResolver\n   * @param {?}\n   * symbolResolver\n   * @param {?}\n   * symbols\n   * @param {?}\n   * types\n   * @return {?}\n   */\n   function serializeSummaries(srcFileName,\n   forJitCtx, summaryResolver, symbolResolver, symbols, types) {\n    var /** @type {?} */ toJsonSerializer = new\n    ToJsonSerializer(symbolResolver, summaryResolver, srcFileName);\n    // for symbols, we use everything except\n    for the class metadata itself\n    // (we keep the statics though), as the class metadata is contained in the\n    //\n    CompileTypeSummary.\n    symbols.forEach(function (resolvedSymbol) {\n      return\n      toJsonSerializer.addSummary({ symbol: resolvedSymbol.symbol, metadata: resolvedSymbol.metadata });\n    });\n    // Add type summaries.\n    types.forEach(function (_a) {\n      var summary = _a.summary, metadata =\n      _a.metadata;\n      toJsonSerializer.addSummary({ symbol: summary.type.reference, metadata: undefined, type:\n      summary });\n    });\n    var _a = toJsonSerializer.serialize(), json = _a.json, exportAs = _a.exportAs;\n    if\n    (forJitCtx) {\n      var /** @type {?} */ forJitSerializer_1 = new ForJitSerializer(forJitCtx, symbolResolver,\n      summaryResolver);\n      types.forEach(function (_a) {\n        var summary = _a.summary, metadata =\n        _a.metadata;\n        forJitSerializer_1.addSourceType(summary, metadata);\n      });\n      toJsonSerializer.unprocessedSymbolSummariesBySymbol.forEach(function (summary) {\n        if\n        (summaryResolver.isLibraryFile(summary.symbol.filePath) && summary.type) {\n          forJitSerializer_1.addLibType(summary.type);\n        }\n      });\n      forJitSerializer_1.serialize(exportAs);\n    }\n    return { json: json, exportAs: exportAs };\n  }\n  /**\n   * @param {?}\n   * symbolCache\n   * @param {?}\n   * summaryResolver\n   * @param {?}\n   * libraryFileName\n   * @param {?}\n   * json\n   * @return {?}\n   */\n   function\n   deserializeSummaries(symbolCache, summaryResolver, libraryFileName, json) {\n    var /** @type {?} */\n    deserializer = new FromJsonDeserializer(symbolCache, summaryResolver);\n    return\n    deserializer.deserialize(libraryFileName, json);\n  }\n  /**\n   * @param {?}\n   * outputCtx\n   * @param {?}\n   * reference\n   * @return {?}\n   */\n   function\n   createForJitStub(outputCtx, reference) {\n    return\n    createSummaryForJitFunction(outputCtx, reference, NULL_EXPR);\n  }\n  /**\n   * @param {?}\n   * outputCtx\n   * @param {?}\n   * reference\n   * @param {?}\n   * value\n   * @return {?}\n   */\n   function\n   createSummaryForJitFunction(outputCtx, reference, value) {\n    var /** @type {?} */ fnName =\n    summaryForJitName(reference.name);\n    outputCtx.statements.push(fn([], [new ReturnStatement(value)], new\n    ArrayType(DYNAMIC_TYPE)).toDeclStmt(fnName, [new StmtModifier.Final, StmtModifier.Exported\n    ]));\n    var toJsonSerializer = /** @class */ (function (_super) {\n      __extends(ToJsonSerializer, _super);\n      function ToJsonSerializer(symbolResolver, summaryResolver, srcFileName) {\n        var _this = _super.call(this) ||

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this;\n    _this.symbolResolver = symbolResolver;\n    _this.summaryResolver = summaryResolver;\n    _this.srcFileName = srcFileName;\n    _this.symbols = [];\n    _this.indexBySymbol = new Map();\n    _this.reexportedBy = new Map();\n    _this.processedSummaryBySymbol = new Map();\n    _this.processedSummaries = [];\n    _this.unprocessedSymbolSummariesBySymbol = new Map();\n    _this.moduleName = symbolResolver.getKnownModuleName(srcFileName);\n    return _this;\n  }\n  /**\n   * @param {?} summary\n   * @return {?} \n   * ^\n   ToJsonSerializer.prototype.addSummary = /**\n   * @param\n   {?} summary\n   * @return {?}\n   * ^\n   function (summary) {\n     var _this = this;\n     var /** @type {?} */\n     unprocessedSummary = this.unprocessedSymbolSummariesBySymbol.get(summary.symbol);\n     var /** @type\n   {?} */\n     processedSummary = this.processedSummaryBySymbol.get(summary.symbol);\n     if\n   (!unprocessedSummary) {\n       unprocessedSummary = { symbol: summary.symbol, metadata: undefined };\n       this.unprocessedSymbolSummariesBySymbol.set(summary.symbol, unprocessedSummary);\n     }\n     processedSummary = { symbol: this.processValue(summary.symbol, 0 /* None */) };\n     this.processedSummaries.push(processedSummary);\n     this.processedSummaryBySymbol.set(summary.symbol, processedSummary);\n   }\n   if\n   (!unprocessedSummary.metadata && summary.metadata) {\n     var /** @type {?} */\n     metadata_1 =\n     summary.metadata || {};\n     if (metadata_1.__symbolic === 'class') {\n       // For classes, we keep\n     everything except their class decorators.\n       // We need to keep e.g. the ctor args, method names, method\n     decorators\n       // so that the class can be extended in another compilation unit.\n       // We don't keep\n     the class decorators as\n       // 1) they refer to data\n       // that should not cause a rebuild of\n     downstream compilation units\n       // (e.g. inline templates of @Component, or @NgModule.declarations)\n     }\n     // 2) their data is already captured in TypeSummaries, e.g. DirectiveSummary.\n     var /** @type {?} */\n     clone_1 = {};\n     Object.keys(metadata_1).forEach(function (propName) {\n       if (propName\n     !== 'decorators') {\n         clone_1[propName] = metadata_1[propName];\n       }\n     });\n     metadata_1 = clone_1;\n     } else if (isCall(metadata_1)) {\n       if\n     (!isFunctionCall(metadata_1) && !isMethodCallOnVariable(metadata_1)) {\n       // Don't store complex\n     calls as we won't be able to simplify them anyways later on.\n       // Don't store complex calls as we won't\n     be able to simplify them anyways later on.\n       metadata_1 = {\n         __symbolic: 'error',\n         message: 'Complex function calls are not supported.',\n       };\n     }\n     }\n     }\n     //\n     Note: We need to keep storing ctor calls for e.g.\n     // `export const x = new InjectionToken(...)`\n     unprocessedSummary.metadata = metadata_1;\n     processedSummary.metadata =\n     this.processValue(metadata_1, 1 /* ResolveValue */);\n     if (metadata_1 instanceof StaticSymbol &&\n     this.summaryResolver.isLibraryFile(metadata_1.filePath)) {\n       var /** @type {?} */\n     declarationSymbol =\n     this.symbols[/** @type {?} */\n     ((this.indexBySymbol.get(metadata_1)));\n       if\n     (!isLoweredSymbol(declarationSymbol.name)) {\n       // Note: symbols that were introduced during\n     codegen in the user file can have a reexport\n       // if a user used `export *`. However, we can't rely on this\n     as tsickle will change\n       // `export *` into named exports, using only the information from the\n     typechecker.\n       // As we introduce the new symbols after typecheck, Tsickle does not know about\n     them,\n       // and omits them when expanding `export *`.\n       // So we have to keep reexporting\n     these symbols manually via .ngfactory files.\n       this.reexportedBy.set(declarationSymbol,\n     summary.symbol);\n     }\n     }\n     }\n     if (!unprocessedSummary.type && summary.type) {\n       unprocessedSummary.type = summary.type;\n       // Note: We don't add the summaries of all referenced\n     symbols as for the ResolvedSymbols,\n       // as the type summaries already contain the transitive data that they\n     require\n       // (in a minimal way).\n       processedSummary.type = this.processValue(summary.type, 0 /*\n     None */);\n       // except for reexported directives / pipes, so we need to store\n       // their summaries\n     explicitly.\n       if (summary.type.summaryKind === CompileSummaryKind.NgModule) {\n         var /**\n     @type {?} */\n     ngModuleSummary = /** @type {?} */\n     (summary.type);\n         ngModuleSummary.exportedDirectives.concat(ngModuleSummary.exportedPipes).forEach(function (id) {\n           var /** @type {?} */\n           symbol = id.reference;\n           if

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(_this.summaryResolver.isLibraryFile(symbol.filePath) &&\n
!_this.unprocessedSymbolSummariesBySymbol.has(symbol)) {\n                var /** @type {?} */ summary_1 =
_this.summaryResolver.resolveSummary(symbol);\n                if (summary_1) {\n
_this.addSummary(summary_1);\n                }\n                }\n                }\n                }\n                }\n /**\n * @return {?}\n *\n JsonSerializer.prototype.serialize = /**\n * @return {?}\n *\n function () {\n
var _this = this;\n    var /** @type {?} */ exportAs = [];\n    var /** @type {?} */ json = JSON.stringify({\n
    moduleName: this.moduleName,\n    summaries: this.processedSummaries,\n    symbols:
this.symbols.map(function (symbol, index) {\n        symbol.assertNoMembers();\n        var /** @type {?}
*/ importAs = /** @type {?} */ ((undefined));\n        if
(_this.summaryResolver.isLibraryFile(symbol.filePath)) {\n            var /** @type {?} */ reexportSymbol =
_this.reexportedBy.get(symbol);\n            if (reexportSymbol) {\n                importAs = /** @type {?} */
((_this.indexBySymbol.get(reexportSymbol)));\n            }\n            else {\n                var /** @type
{?} */ summary = _this.unprocessedSymbolSummariesBySymbol.get(symbol);\n                if (!summary ||
!summary.metadata || summary.metadata.__symbolic !== 'interface') {\n                    importAs = symbol.name
+ \"_\" + index;\n                    exportAs.push({ symbol: symbol, exportAs: importAs });\n                }\n
            }\n            return {\n                __symbolic: index,\n                name: symbol.name,\n
filePath: _this.summaryResolver.toSummaryFileName(symbol.filePath, _this.srcFileName),\n
importAs: importAs\n            };\n        });\n    });\n    return { json: json, exportAs: exportAs }; }\n
};\n /**\n * @param {?} value\n * @param {?} flags\n * @return {?}\n *\n
ToJsonSerializer.prototype.processValue = /**\n * @param {?} value\n * @param {?} flags\n * @return
{?}\n *\n function (value, flags) {\n    return visitValue(value, this, flags);\n }; }\n /**\n * @param {?}
value\n * @param {?} context\n * @return {?}\n *\n JsonSerializer.prototype.visitOther = /**\n *
@param {?} value\n * @param {?} context\n * @return {?}\n *\n function (value, context) {\n    if
(value instanceof StaticSymbol) {\n        var /** @type {?} */ baseSymbol =
this.symbolResolver.getStaticSymbol(value.filePath, value.name);\n        var /** @type {?} */ index =
this.visitStaticSymbol(baseSymbol, context);\n        return { __symbolic: index, members: value.members }; }\n
}; }\n /**\n * Returns null if the options.resolveValue is true, and the summary for the symbol\n *
resolved to a type or could not be resolved.\n * @param {?} baseSymbol\n * @param {?} flags\n * @return
{?}\n *\n JsonSerializer.prototype.visitStaticSymbol = /**\n * Returns null if the options.resolveValue is
true, and the summary for the symbol\n * resolved to a type or could not be resolved.\n * @param {?}
baseSymbol\n * @param {?} flags\n * @return {?}\n *\n function (baseSymbol, flags) {\n    var /**
@type {?} */ index = this.indexBySymbol.get(baseSymbol);\n    var /** @type {?} */ summary = null;\n    if
(flags & 1 /* ResolveValue */ &&\n        this.summaryResolver.isLibraryFile(baseSymbol.filePath)) {\n        if
(this.unprocessedSymbolSummariesBySymbol.has(baseSymbol)) {\n            // the summary for this symbol was
already added\n            // -> nothing to do.\n            return /** @type {?} */ ((index));\n        }\n
summary = this.loadSummary(baseSymbol);\n        if (summary && summary.metadata instanceof StaticSymbol)\n        {\n            // The summary is a reexport\n            index = this.visitStaticSymbol(summary.metadata,
flags);\n            // reset the summary as it is just a reexport, so we don't want to store it.\n            summary = null;\n
        }\n        }\n        else if (index !== null) {\n            // Note: == on purpose to compare with undefined!\n            // No
summary and the symbol is already added -> nothing to do.\n            return index;\n        }\n        // Note: == on
purpose to compare with undefined!\n        if (index === null) {\n            index = this.symbols.length;\n
this.symbols.push(baseSymbol);\n        }\n        this.indexBySymbol.set(baseSymbol, index);\n        if (summary) {\n
            this.addSummary(summary);\n        }\n        return index;\n    }; }\n /**\n * @param {?} symbol\n *
@return {?}\n *\n JsonSerializer.prototype.loadSummary = /**\n * @param {?} symbol\n * @return
{?}\n *\n function (symbol) {\n    var /** @type {?} */ summary =
this.summaryResolver.resolveSummary(symbol);\n    if (!summary) {\n        // some symbols might originate
from a plain typescript library\n        // that just exported .d.ts and .metadata.json files, i.e. where no summary\n
// files were created.\n        var /** @type {?} */ resolvedSymbol =

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this.symbolResolver.resolveSymbol(symbol);\n      if (resolvedSymbol) {\n          summary = { symbol:\nresolvedSymbol.symbol, metadata: resolvedSymbol.metadata };\n      }\n      return summary;\n  };\n  return toJsonSerializer;\n}(ValueTransformer));\nvar ForJitSerializer = /** @class */ (function () {\n  function\nForJitSerializer(outputCtx, symbolResolver, summaryResolver) {\n    this.outputCtx = outputCtx;\n    this.symbolResolver = symbolResolver;\n    this.summaryResolver = summaryResolver;\n    this.data = [];\n  }\n  /**\n   * @param {?} summary\n   * @param {?} metadata\n   * @return {?}\n   */\n  ForJitSerializer.prototype.addSourceType = /**\n   * @param {?} summary\n   * @param {?} metadata\n   * @return {?}\n   */\n   function (summary, metadata) {\n    this.data.push({ summary: summary, metadata:\nmetadata, isLibrary: false });\n  };\n  /**\n   * @param {?} summary\n   * @return {?}\n   */\n  ForJitSerializer.prototype.addLibType = /**\n   * @param {?} summary\n   * @return {?}\n   */\n   function\n(summary) {\n    this.data.push({ summary: summary, metadata: null, isLibrary: true });\n  };\n  /**\n   * @param {?} exportAsArr\n   * @return {?}\n   */\n  ForJitSerializer.prototype.serialize = /**\n   * @param {?}\n   */\n   exportAsArr\n   * @return {?}\n   */\n   function (exportAsArr) {\n    var _this = this;\n    var /** @type {?} */\n*/ exportAsBySymbol = new Map();\n    for (var _i = 0, exportAsArr_1 = exportAsArr; _i <\nexportAsArr_1.length; _i++) {\n      var _a = exportAsArr_1[_i], symbol = _a.symbol, exportAs =\n_a.exportAs;\n      exportAsBySymbol.set(symbol, exportAs);\n    }\n    var /** @type {?} */\nngModuleSymbols = new Set();\n    for (var _b = 0, _c = this.data; _b < _c.length; _b++) {\n      var _d =\n_c[_b], summary = _d.summary, metadata = _d.metadata, isLibrary = _d.isLibrary;\n      if\n(summary.summaryKind === CompileSummaryKind.NgModule) {\n        // collect the symbols that refer to\nNgModule classes.\n        // Note: we can't just rely on `summary.type.summaryKind` to determine this as\n\n        // we don't add the summaries of all referenced symbols when we serialize type summaries.\n        // See\nserializeSummaries for details.\n        ngModuleSymbols.add(summary.type.reference);\n        var /**\n@type {?} */\nmodSummary = /** @type {?} */ (summary);\n        for (var _e = 0, _f = modSummary.modules;\n_e < _f.length; _e++) {\n          var mod = _f[_e];\n          ngModuleSymbols.add(mod.reference);\n        }\n        if (!isLibrary) {\n          var /** @type {?} */\nfnName =\nsummaryForJitName(summary.type.reference.name);\n          createSummaryForJitFunction(this.outputCtx,\nsummary.type.reference, this.serializeSummaryWithDeps(summary, /** @type {?} */ ((metadata)));\n        }\n        ngModuleSymbols.forEach(function (ngModuleSymbol) {\n          if\n(!_this.summaryResolver.isLibraryFile(ngModuleSymbol.filePath)) {\n            var /** @type {?} */\nexportAs =\nexportAsBySymbol.get(ngModuleSymbol) || ngModuleSymbol.name;\n            var /** @type {?} */\njitExportAsName = summaryForJitName(exportAs);\n            _this.outputCtx.statements.push(variable(jitExportAsName))\n            .set(_this.serializeSummaryRef(ngModuleSymbol))\n            .toDeclStmt(null, [StmtModifier.Exported]);\n          }\n        });\n      }\n      /**\n       * @param {?} summary\n       * @param {?} metadata\n       * @return {?}\n       */\n    ForJitSerializer.prototype.serializeSummaryWithDeps = /**\n       * @param {?} summary\n       * @param {?} metadata\n       * @return {?}\n       */\n       function (summary, metadata) {\n        var _this = this;\n        var /** @type\n{?} */\nexpressions = [this.serializeSummary(summary)];\n        var /** @type {?} */\nproviders = [];\n        if\n(metadata instanceof CompileNgModuleMetadata) {\n          expressions.push.apply(expressions, \n          // For\ndirectives / pipes, we only add the declared ones,\n          // and rely on transitively importing NgModules to get the\ntransitive\n          // summaries.\n          metadata.declaredDirectives.concat(metadata.declaredPipes))\n        }\n        .map(function (type) { return type.reference; })\n        .concat(metadata.transitiveModule.modules.map(function (type) { return type.reference; })\n        .filter(function (ref) { return ref !== metadata.type.reference; }));\n        .map(function (ref) { return\n_this.serializeSummaryRef(ref); });\n        // Note: We don't use `NgModuleSummary.providers`, as that one is\ntransitive,\n        // and we already have transitive modules.\n        providers = metadata.providers;\n      }\n      else if (summary.summaryKind === CompileSummaryKind.Directive) {\n        var /** @type {?} */\ndirSummary = /** @type {?} */ (summary);\n        providers = dirSummary.providers.concat(dirSummary.viewProviders);\n      }\n      // Note: We can't just refer to the `ngsummary.ts` files for `useClass` providers (as we do for\n//

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declaredDirectives / declaredPipes), as we allow\n    // providers without ctor arguments to skip the `@Injectable`
decorator,\n    // i.e. we didn't generate .ngsummary.ts files for these.\n    expressions.push.apply(expressions,
providers.filter(function (provider) { return !!provider.useClass; }).map(function (provider) {\n    return
_this.serializeSummary(/** @type {?} */ ({\n        summaryKind: CompileSummaryKind.Injectable, type:
provider.useClass\n    }));\n    }));\n    return literalArr(expressions);\n    };\n    /**\n    * @param {?}
typeSymbol\n    * @return {?} \n    * ^\n    ForJitSerializer.prototype.serializeSummaryRef = /**\n    * @param {?}
typeSymbol\n    * @return {?} \n    * ^\n    function (typeSymbol) {\n        var /** @type {?} */ jitImportedSymbol
= this.symbolResolver.getStaticSymbol(summaryForJitFileName(typeSymbol.filePath),
summaryForJitName(typeSymbol.name));\n        return this.outputCtx.importExpr(jitImportedSymbol);\n    };\n
/**\n    * @param {?} data\n    * @return {?} \n    * ^\n    ForJitSerializer.prototype.serializeSummary = /**\n    *
@param {?} data\n    * @return {?} \n    * ^\n    function (data) {\n        var /** @type {?} */ outputCtx =
this.outputCtx;\n        var Transformer = /** @class */ (function () {\n            function Transformer() {\n
            }\n            /**\n            * @param {?} arr\n            * @param {?} context\n            * @return {?} \n
            * ^\n            Transformer.prototype.visitArray = /**\n            * @param {?} arr\n            * @param {?} context\n            *
@return {?} \n            * ^\n            function (arr, context) {\n                var _this = this;\n                return
literalArr(arr.map(function (entry) { return visitValue(entry, _this, context); }));\n            };\n            /**\n            *
@param {?} map\n            * @param {?} context\n            * @return {?} \n            * ^\n            Transformer.prototype.visitStringMap = /**\n            * @param {?} map\n            * @param {?} context\n
            * @return {?} \n            * ^\n            function (map, context) {\n                var _this = this;\n                return new
LiteralMapExpr(Object.keys(map).map(function (key) { return new LiteralMapEntry(key, visitValue(map[key],
_this, context), false); }));\n            };\n            /**\n            * @param {?} value\n            * @param {?} context\n
            * @return {?} \n            * ^\n            Transformer.prototype.visitPrimitive = /**\n            * @param {?} value\n
            * @param {?} context\n            * @return {?} \n            * ^\n            function (value, context) { return
literal(value); };\n            /**\n            * @param {?} value\n            * @param {?} context\n            * @return
{?} \n            * ^\n            Transformer.prototype.visitOther = /**\n            * @param {?} value\n            * @param
{?} context\n            * @return {?} \n            * ^\n            function (value, context) {\n                if (value instanceof
StaticSymbol) {\n                    return outputCtx.importExpr(value);\n                }\n                else {\n
                    throw new Error("Illegal State: Encountered value " + value);\n                }\n            };\n            return
Transformer;\n        }());\n        return visitValue(data, new Transformer(), null);\n    };\n    return
ForJitSerializer;\n})();\n    nvar FromJsonDeserializer = /** @class */ (function (_super) {\n
__extends(FromJsonDeserializer, _super);\n    function FromJsonDeserializer(symbolCache, summaryResolver) {\n
        var _this = _super.call(this) || this;\n        _this.symbolCache = symbolCache;\n        _this.summaryResolver =
summaryResolver;\n        return _this;\n    } \n    /**\n    * @param {?} libraryFileName\n    * @param {?} json\n
    * @return {?} \n    * ^\n    FromJsonDeserializer.prototype.deserialize = /**\n    * @param {?} libraryFileName\n
    * @param {?} json\n    * @return {?} \n    * ^\n    function (libraryFileName, json) {\n        var _this = this;\n
        var /** @type {?} */ data = JSON.parse(json);\n        var /** @type {?} */ allImportAs = [];\n        this.symbols =
data.symbols.map(function (serializedSymbol) {\n            return
_this.symbolCache.get(_this.summaryResolver.fromSummaryFileName(serializedSymbol.filePath,
libraryFileName), serializedSymbol.name);\n        });\n        data.symbols.forEach(function (serializedSymbol,
index) {\n            var /** @type {?} */ symbol = _this.symbols[index];\n            var /** @type {?} */ importAs =
serializedSymbol.importAs;\n            if (typeof importAs === 'number') {\n                allImportAs.push({ symbol:
symbol, importAs: _this.symbols[importAs] });\n            }\n            else if (typeof importAs === 'string') {\n
                allImportAs.push({ symbol: symbol, importAs: _this.symbolCache.get(ngfactoryFilePath(libraryFileName),
importAs) });\n            }\n        });\n        var /** @type {?} */ summaries = /** @type {?} */
(visitValue(data.summaries, this, null));\n        return { moduleName: data.moduleName, summaries: summaries,
importAs: allImportAs };\n    };\n    /**\n    * @param {?} map\n    * @param {?} context\n    * @return {?} \n
    * ^\n    FromJsonDeserializer.prototype.visitStringMap = /**\n    * @param {?} map\n    * @param {?} context\n
    * @return {?} \n    * ^\n    function (map, context) {\n        if ('__symbol' in map) {\n            var /** @type {?} */

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baseSymbol = this.symbols[map['__symbol']];\n      var /** @type {?} */ members = map['members'];\n      return members.length ? this.symbolCache.get(baseSymbol.filePath, baseSymbol.name, members) :\n      baseSymbol;\n    }\n    else {\n      return _super.prototype.visitStringMap.call(this, map, context);\n    }\n  };\n  return FromJsonDeserializer;\n}(ValueTransformer));\n\n/**\n * @param {?} metadata\n * @return {?} *\n */\nfunction isCall(metadata) {\n  return metadata && metadata.__symbolic === 'call';\n}\n\n/**\n * @param {?} metadata\n * @return {?} *\n */\nfunction isFunctionCall(metadata) {\n  return isCall(metadata) &&\n  unwrapResolvedMetadata(metadata.expression) instanceof StaticSymbol;\n}\n\n/**\n * @param {?} metadata\n * @return {?} *\n */\nfunction isMethodCallOnVariable(metadata) {\n  return isCall(metadata) &&\n  metadata.expression && metadata.expression.__symbolic === 'select' &&\n  unwrapResolvedMetadata(metadata.expression.expression) instanceof StaticSymbol;\n}\n\n/**\n * @fileoverview\n * added by tsickle\n * @suppress {checkTypes}\n * checked by tsc\n */\n\n/**\n * @license\n * Copyright Google Inc. All\n * Rights Reserved.\n * Use of this source code is governed by an MIT-style license that can be\n * found in the\n * LICENSE file at https://angular.io/license\n */\n\n/**\n * @enum {number}\n */\nvar StubEmitFlags = {\n  Basic: 1,\n  TypeCheck: 2,\n  All: 3,\n};\nStubEmitFlags[StubEmitFlags.Basic] =\n  \"Basic\";\nStubEmitFlags[StubEmitFlags.TypeCheck] = \"TypeCheck\";\nStubEmitFlags[StubEmitFlags.All] =\n  \"All\";\n\nvar AotCompiler = /** @class */ (function () {\n  function AotCompiler(_config, _options, _host,\n    _reflector, _metadataResolver, _templateParser, _styleCompiler, _viewCompiler, _typeCheckCompiler,\n    _ngModuleCompiler, _outputEmitter, _summaryResolver, _symbolResolver) {\n    this._config = _config;\n    this._options = _options;\n    this._host = _host;\n    this._reflector = _reflector;\n    this._metadataResolver =\n      _metadataResolver;\n    this._templateParser = _templateParser;\n    this._styleCompiler = _styleCompiler;\n    this._viewCompiler = _viewCompiler;\n    this._typeCheckCompiler = _typeCheckCompiler;\n    this._ngModuleCompiler = _ngModuleCompiler;\n    this._outputEmitter = _outputEmitter;\n    this._summaryResolver = _summaryResolver;\n    this._symbolResolver = _symbolResolver;\n    this._templateAstCache = new Map();\n    this._analyzedFiles = new Map();\n  }\n\n  /**\n   * @return {?}\n   */\n  AotCompiler.prototype.clearCache = function () {\n    this._metadataResolver.clearCache();\n  }\n\n  /**\n   * @param {?} rootFiles\n   * @return {?}\n   */\n  AotCompiler.prototype.analyzeModulesSync = function (rootFiles) {\n    return analyzeResult =\n      analyzeAndValidateNgModules(rootFiles, this._host, this._symbolResolver, this._metadataResolver);\n    analyzeResult.ngModules.forEach(function (ngModule) {\n      return\n        _this._metadataResolver.loadNgModuleDirectiveAndPipeMetadata(ngModule.type.reference, true);\n    });\n    return analyzeResult;\n  }\n\n  /**\n   * @param {?} rootFiles\n   * @return {?}\n   */\n  AotCompiler.prototype.analyzeModulesAsync = function (rootFiles) {\n    return analyzeResult =\n      analyzeAndValidateNgModules(rootFiles, this._host, this._symbolResolver, this._metadataResolver);\n    return\n      Promise\n        .all(analyzeResult.ngModules.map(function (ngModule) {\n          return\n            _this._metadataResolver.loadNgModuleDirectiveAndPipeMetadata(ngModule.type.reference, false);\n        })))\n        .then(function () {\n          return analyzeResult;\n        });\n  }\n\n  /**\n   * @param {?} fileName\n   * @return {?}\n   */\n  AotCompiler.prototype._analyzeFile = function (fileName) {\n    return\n      analyzedFile = this._analyzedFiles.get(fileName);\n    if\n      (!analyzedFile) {\n      analyzedFile =\n        analyzeFile(this._host, this._symbolResolver,\n          this._metadataResolver, fileName);\n      this._analyzedFiles.set(fileName, analyzedFile);\n    }\n    return\n      analyzedFile;\n  }\n\n  /**\n   * @param {?} fileName\n   * @return {?}\n   */\n  AotCompiler.prototype.findGeneratedFileNames = function (fileName) {\n    return\n      genFileNames = [];\n    var\n      /**\n       * @type\n       * {?}\n       */\n      file = this._analyzeFile(fileName);\n    // Make sure we create a .ngfactory if we have a\n    injectable/directive/pipes/ngModule\n    // or a reference to a non source file.\n    // Note: This is overestimating\n    the required .ngfactory files as the real calculation is harder.\n    // Only do this for StubEmitFlags.Basic, as

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adding a type check block\n    // does not change this file (as we generate type check blocks based on
NgModules).\n    if (this._options.allowEmptyCodegenFiles || file.directives.length || file.pipes.length ||\nfile.injectables.length || file.ngModules.length || file.exportsNonSourceFiles) {\n
genFileNames.push(ngfactoryFilePath(file.fileName, true));\n    if (this._options.enableSummariesForJit) {\n
    genFileNames.push(summaryForJitFileName(file.fileName, true));\n    }\n    }\n    var /** @type
{?} */ fileSuffix = normalizeGenFileSuffix(splitTypescriptSuffix(file.fileName, true)[1]);\n
file.directives.forEach(function (dirSymbol) {\n    var /** @type {?} */ compMeta = /** @type {?} */
((this._metadataResolver.getNonNormalizedDirectiveMetadata(dirSymbol))).metadata;\n    if
(!compMeta.isComponent) {\n        return;\n    } /** @type {?} */\n    ((\n    // Note: compMeta
is a component and therefore template is non null.\n        compMeta.template)).styleUrls.forEach(function
(styleUrl) {\n        var /** @type {?} */ normalizedUrl = this._host.resourceNameToFileName(styleUrl,
file.fileName);\n        if (!normalizedUrl) {\n            throw syntaxError("Couldn't resolve resource \"" +
styleUrl + "\" relative to \"" + file.fileName);\n        }\n        var /** @type {?} */ needsShim = (/** @type
{?} */ ((compMeta.template)).encapsulation || this._config.defaultEncapsulation) ===
ViewEncapsulation.Emulated);\n        genFileNames.push(_stylesModuleUrl(normalizedUrl, needsShim,
fileSuffix));\n        if (this._options.allowEmptyCodegenFiles) {\n
genFileNames.push(_stylesModuleUrl(normalizedUrl, !needsShim, fileSuffix));\n        }\n    });\n
});\n    return genFileNames;\n    };\n    /**\n     * @param {?} genFileName\n     * @param {?=}
originalFileName\n     * @return {?}\n     */\n    AotCompiler.prototype.emitBasicStub = /**\n     * @param {?}
genFileName\n     * @param {?=} originalFileName\n     * @return {?}\n     */\n     function (genFileName,
originalFileName) {\n        var /** @type {?} */ outputCtx = this._createOutputContext(genFileName);\n        if
(genFileName.endsWith('.ngfactory.ts')) {\n            if (!originalFileName) {\n                throw new Error("Assertion
error: require the original file for .ngfactory.ts stubs. File: \"" + genFileName);\n            }\n            var /** @type {?}
*/ originalFile = this._analyzeFile(originalFileName);\n            this._createNgFactoryStub(outputCtx, originalFile,
StubEmitFlags.Basic);\n        }\n        else if (genFileName.endsWith('.ngsummary.ts')) {\n            if
(this._options.enableSummariesForJit) {\n                if (!originalFileName) {\n                    throw new
Error("\nAssertion error: require the original file for .ngsummary.ts stubs. File: \"" + genFileName);\n                }\n            }\n            var /** @type {?} */ originalFile = this._analyzeFile(originalFileName);\n
_createEmptyStub(outputCtx);\n            originalFile.ngModules.forEach(function (ngModule) {\n                //
create exports that user code can reference\n                createForJitStub(outputCtx, ngModule.type.reference);\n            });\n        }\n        }\n        else if (genFileName.endsWith('.ngstyle.ts')) {\n
_createEmptyStub(outputCtx);\n        }\n        // Note: for the stubs, we don't need a property srcFileUrl,\n        // as
lateron in emitAllImpls we will create the proper GeneratedFiles with the\n        // correct srcFileUrl.\n        // This is
good as e.g. for .ngstyle.ts files we can't derive\n        // the url of components based on the genFileUrl.\n        return
this._codegenSourceModule('unknown', outputCtx);\n    };\n    /**\n     * @param {?} genFileName\n     * @param
{?} originalFileName\n     * @return {?}\n     */\n     AotCompiler.prototype.emitTypeCheckStub = /**\n     *
@param {?} genFileName\n     * @param {?} originalFileName\n     * @return {?}\n     */\n     function
(genFileName, originalFileName) {\n        var /** @type {?} */ originalFile =
this._analyzeFile(originalFileName);\n        var /** @type {?} */ outputCtx =
this._createOutputContext(genFileName);\n        if (genFileName.endsWith('.ngfactory.ts')) {\n
this._createNgFactoryStub(outputCtx, originalFile, StubEmitFlags.TypeCheck);\n        }\n        return
outputCtx.statements.length > 0 ?\n        this._codegenSourceModule(originalFile.fileName, outputCtx) :\n        null;\n    };\n    /**\n     * @param {?} fileNames\n     * @return {?}\n     */\n     AotCompiler.prototype.loadFilesAsync = /**\n     * @param {?} fileNames\n     * @return {?}\n     */\n     function
(fileNames) {\n        var _this = this;\n        var /** @type {?} */ files = fileNames.map(function (fileName) { return
_this._analyzeFile(fileName); });\n        var /** @type {?} */ loadingPromises = [];\n        files.forEach(function
(file) {\n            return file.ngModules.forEach(function (ngModule) {\n                return
loadingPromises.push(this._metadataResolver.loadNgModuleDirectiveAndPipeMetadata(ngModule.type.reference

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, false));\n
});\n
});\n
return Promise.all(loadingPromises).then(function (_) { return
mergeAndValidateNgFiles(files); });\n
});\n
/**\n
 * @param {?} fileNames\n
 * @return {?}\n
 */\n
AotCompiler.prototype.loadFilesSync = /**\n
 * @param {?} fileNames\n
 * @return {?}\n
 */\n
function
(fileNames) {\n
var _this = this;\n
var /** @type {?} */ files = fileNames.map(function (fileName) { return
_this._analyzeFile(fileName); });\n
files.forEach(function (file) {\n
return
file.ngModules.forEach(function (ngModule) {\n
return
_this._metadataResolver.loadNgModuleDirectiveAndPipeMetadata(ngModule.type.reference, true);\n
});\n
});\n
return mergeAndValidateNgFiles(files);\n
});\n
/**\n
 * @param {?} outputCtx\n
 * @param {?}
file\n
 * @param {?} emitFlags\n
 * @return {?}\n
 */\n
AotCompiler.prototype._createNgFactoryStub =
/**\n
 * @param {?} outputCtx\n
 * @param {?} file\n
 * @param {?} emitFlags\n
 * @return {?}\n
 */\n
function (outputCtx, file, emitFlags) {\n
var _this = this;\n
var /** @type {?} */ componentId = 0;\n
file.ngModules.forEach(function (ngModuleMeta, ngModuleIndex) {\n
// Note: the code below needs to
executed for StubEmitFlags.Basic and StubEmitFlags.TypeCheck,\n
// so we don't change the .ngfactory file
too much when adding the typecheck block.\n
// create exports that user code can reference\n
// Note:
the code below needs to executed for StubEmitFlags.Basic and StubEmitFlags.TypeCheck,\n
// so we don't
change the .ngfactory file too much when adding the typecheck block.\n
// create exports that user code can
reference\n
_this._ngModuleCompiler.createStub(outputCtx, ngModuleMeta.type.reference);\n
// add
references to the symbols from the metadata.\n
// These can be used by the type check block for
components,\n
// and they also cause TypeScript to include these files into the program too,\n
// which
will make them part of the analyzedFiles.\n
var /** @type {?} */ externalReferences =
ngModuleMeta.transitiveModule.directives.map(function (d) { return d.reference;
}).concat(ngModuleMeta.transitiveModule.pipes.map(function (d) { return d.reference; })),
ngModuleMeta.importedModules.map(function (m) { return m.type.reference; })),
ngModuleMeta.exportedModules.map(function (m) { return m.type.reference; })),
_this._externalIdentifierReferences([Identifiers.TemplateRef, Identifiers.ElementRef]);\n
var /** @type {?} */
*/ externalReferenceVars = new Map();\n
externalReferences.forEach(function (ref, typeIndex) {\n
externalReferenceVars.set(ref, \"_decl\" + ngModuleIndex + \"_\" + typeIndex);\n
});\n
externalReferenceVars.forEach(function (varName, reference) {\n
outputCtx.statements.push(variable(varName)\n
.set(NULL_EXPR.cast(DYNAMIC_TYPE))\n
.toDeclStmt(expressionType(outputCtx.importExpr(reference, /* typeParams */ null, /* useSummaries */ /*
useSummaries */ false)))));\n
});\n
if (emitFlags & StubEmitFlags.TypeCheck) {\n
// add the
typecheck block for all components of the NgModule\n
ngModuleMeta.declaredDirectives.forEach(function (dirId) {\n
var /** @type {?} */ compMeta =
_this._metadataResolver.getDirectiveMetadata(dirId.reference);\n
if (!compMeta.isComponent) {\n
return;\n
}\n
componentId++;\n
_this._createTypeCheckBlock(outputCtx, compMeta.type.reference.name + \"_Host_\" + componentId,
ngModuleMeta, _this._metadataResolver.getHostComponentMetadata(compMeta), [compMeta.type],
externalReferenceVars);\n
_this._createTypeCheckBlock(outputCtx, compMeta.type.reference.name +
\"_\" + componentId, ngModuleMeta, compMeta, ngModuleMeta.transitiveModule.directives,
externalReferenceVars);\n
});\n
});\n
if (outputCtx.statements.length === 0) {\n
_createEmptyStub(outputCtx);\n
});\n
/**\n
 * @param {?} references\n
 * @return {?}\n
 */\n
AotCompiler.prototype._externalIdentifierReferences = /**\n
 * @param {?} references\n
 * @return {?}\n
 */\n
function (references) {\n
var /** @type {?} */ result = [];\n
for (var _i = 0, references_1 = references;
_i < references_1.length; _i++) {\n
var reference = references_1[_i];\n
var /** @type {?} */ token =
createTokenForExternalReference(this._reflector, reference);\n
if (token.identifier) {\n
result.push(token.identifier.reference);\n
}\n
}\n
return result;\n
};\n
/**\n
 * @param {?} ctx\n
 * @param {?} componentId\n
 * @param {?} moduleMeta\n
 * @param {?} compMeta\n
 * @param {?}
directives\n
 * @param {?} externalReferenceVars\n
 * @return {?}\n
 */\n

```

```

AotCompiler.prototype._createTypeCheckBlock = /**\n
 * @param {?} ctx\n
 * @param {?} componentId\n
 * @param {?} moduleMeta\n
 * @param {?} compMeta\n
 * @param {?} directives\n
 * @param {?}
externalReferenceVars\n
 * @return {?}\n
 */\n
function (ctx, componentId, moduleMeta, compMeta,
directives, externalReferenceVars) {\n
    var _a = this._parseTemplate(compMeta, moduleMeta, directives),
parsedTemplate = _a.template, usedPipes = _a.pipes;\n
    (_b = ctx.statements).push.apply(_b,
this._typeCheckCompiler.compileComponent(componentId, compMeta, parsedTemplate, usedPipes,
externalReferenceVars, ctx));\n
    var _b;\n
};\n
/**\n
 * @param {?} analyzeResult\n
 * @param {?}
locale\n
 * @return {?}\n
 */\n
AotCompiler.prototype.emitMessageBundle = /**\n
 * @param {?}
analyzeResult\n
 * @param {?} locale\n
 * @return {?}\n
 */\n
function (analyzeResult, locale) {\n
    var
_this = this;\n
    var /** @type {?} */ errors = [];\n
    var /** @type {?} */ htmlParser = new HtmlParser();\n
    // TODO(vic): implicit tags & attributes\n
    var /** @type {?} */ messageBundle = new
MessageBundle(htmlParser, [], {}, locale);\n
    analyzeResult.files.forEach(function (file) {\n
        var /**
@type {?} */ compMetas = [];\n
        file.directives.forEach(function (directiveType) {\n
            var /** @type
{?} */ dirMeta = _this._metadataResolver.getDirectiveMetadata(directiveType);\n
            if (dirMeta &&
dirMeta.isComponent) {\n
                compMetas.push(dirMeta);\n
            }\n
        });\n
        compMetas.forEach(function (compMeta) {\n
            var /** @type {?} */ html = /** @type {?} */ ((/** @type
{?} */ ((compMeta.template)).template));\n
            var /** @type {?} */ interpolationConfig =
InterpolationConfig.fromArray(/** @type {?} */ ((compMeta.template)).interpolation);\n
            errors.push.apply(errors, /** @type {?} */ ((messageBundle.updateFromTemplate(html, file.fileName,
interpolationConfig))));\n
        });\n
        if (errors.length) {\n
            throw new
Error(errors.map(function (e) { return e.toString(); }).join('\n'));\n
        }\n
        return messageBundle;\n
    });\n
/**\n
 * @param {?} analyzeResult\n
 * @return {?}\n
 */\n
AotCompiler.prototype.emitAllImpls = /**\n
 * @param {?} analyzeResult\n
 * @return {?}\n
 */\n
function (analyzeResult) {\n
    var _this = this;\n
    var ngModuleByPipeOrDirective = analyzeResult.ngModuleByPipeOrDirective, files = analyzeResult.files;\n
    var /** @type {?} */ sourceModules = files.map(function (file) {\n
        return
_this._compileImplFile(file.fileName, ngModuleByPipeOrDirective, file.directives, file.pipes, file.ngModules,
file.injectables);\n
    });\n
    return flatten(sourceModules);\n
};\n
/**\n
 * @param {?} srcFileUrl\n
 * @param {?} ngModuleByPipeOrDirective\n
 * @param {?} directives\n
 * @param {?} pipes\n
 * @param
{?} ngModules\n
 * @param {?} injectables\n
 * @return {?}\n
 */\n
AotCompiler.prototype._compileImplFile = /**\n
 * @param {?} srcFileUrl\n
 * @param {?}
ngModuleByPipeOrDirective\n
 * @param {?} directives\n
 * @param {?} pipes\n
 * @param {?}
ngModules\n
 * @param {?} injectables\n
 * @return {?}\n
 */\n
function (srcFileUrl,
ngModuleByPipeOrDirective, directives, pipes, ngModules, injectables) {\n
    var _this = this;\n
    var /**
@type {?} */ fileSuffix = normalizeGenFileSuffix(splitTypescriptSuffix(srcFileUrl, true)[1]);\n
    var /** @type
{?} */ generatedFiles = [];\n
    var /** @type {?} */ outputCtx =
this._createOutputContext(ngfactoryFilePath(srcFileUrl, true));\n
    generatedFiles.push.apply(generatedFiles,
this._createSummary(srcFileUrl, directives, pipes, ngModules, injectables, outputCtx));\n
    // compile all ng
modules\n
    ngModules.forEach(function (ngModuleMeta) { return _this._compileModule(outputCtx,
ngModuleMeta); });\n
    // compile components\n
    directives.forEach(function (dirType) {\n
        var /**
@type {?} */ compMeta = _this._metadataResolver.getDirectiveMetadata(/** @type {?} */ (dirType));\n
        if
(!compMeta.isComponent) {\n
            return;\n
        }\n
        var /** @type {?} */ ngModule =
ngModuleByPipeOrDirective.get(dirType);\n
        if (!ngModule) {\n
            throw new Error("Internal Error:
cannot determine the module for component \" + identifierName(compMeta.type) + \"!\");\n
        }\n
        //
compile styles\n
        var /** @type {?} */ componentStylesheet =
_this._styleCompiler.compileComponent(outputCtx, compMeta); /** @type {?} */\n
        ((\n
            // Note:
compMeta is a component and therefore template is non null.\n
compMeta.template)).externalStylesheets.forEach(function (stylesheetMeta) {\n
            // Note: fill non shim and
shim style files as they might\n
            // be shared by component with and without ViewEncapsulation.\n

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```

var /** @type {?} */ shim = _this._styleCompiler.needsStyleShim(compMeta);\n
generatedFiles.push(_this._codegenStyles(srcFileUrl, compMeta, stylesheetMeta, shim, fileSuffix));\n      if
(_this._options.allowEmptyCodegenFiles) {\n      generatedFiles.push(_this._codegenStyles(srcFileUrl,
compMeta, stylesheetMeta, !shim, fileSuffix));\n      }\n      });\n      // compile components\nvar /** @type {?} */ compViewVars = _this._compileComponent(outputCtx, compMeta, ngModule,
ngModule.transitiveModule.directives, componentStylesheet, fileSuffix);\n
_this._compileComponentFactory(outputCtx, compMeta, ngModule, fileSuffix);\n      });\n      if
(outputCtx.statements.length > 0 || this._options.allowEmptyCodegenFiles) {\n      var /** @type {?} */
srcModule = this._codegenSourceModule(srcFileUrl, outputCtx);\n      generatedFiles.unshift(srcModule);\n
}\n      return generatedFiles;\n      });\n      /**\n      * @param {?} srcFileName\n      * @param {?} directives\n      *
@param {?} pipes\n      * @param {?} ngModules\n      * @param {?} injectables\n      * @param {?} ngFactoryCtx\n
      * @return {?}\n      */\n      AotCompiler.prototype._createSummary = /**\n      * @param {?} srcFileName\n      *
@param {?} directives\n      * @param {?} pipes\n      * @param {?} ngModules\n      * @param {?} injectables\n
      * @param {?} ngFactoryCtx\n      * @return {?}\n      */\n      function (srcFileName, directives, pipes, ngModules,
injectables, ngFactoryCtx) {\n      var _this = this;\n      var /** @type {?} */ symbolSummaries =
this._symbolResolver.getSymbolsOf(srcFileName)\n      .map(function (symbol) { return
_this._symbolResolver.resolveSymbol(symbol); });\n      var /** @type {?} */ typeData =
ngModules.map(function (meta) {\n      return ({\n      summary: /** @type {?} */
((_this._metadataResolver.getNgModuleSummary(meta.type.reference))),\n      metadata: /** @type {?} */
((_this._metadataResolver.getNgModuleMetadata(meta.type.reference)))\n      });\n
}).concat(directives.map(function (ref) {\n      return ({\n      summary: /** @type {?} */
((_this._metadataResolver.getDirectiveSummary(ref))),\n      metadata: /** @type {?} */
((_this._metadataResolver.getDirectiveMetadata(ref)))\n      });\n      }), pipes.map(function (ref) {\n
return ({\n      summary: /** @type {?} */ (_this._metadataResolver.getPipeSummary(ref))),\n
metadata: /** @type {?} */ (_this._metadataResolver.getPipeMetadata(ref)))\n      });\n      }),
injectables.map(function (ref) {\n      return ({\n      summary: /** @type {?} */
((_this._metadataResolver.getInjectableSummary(ref))),\n      metadata: /** @type {?} */
((_this._metadataResolver.getInjectableSummary(ref))).type\n      });\n      }));\n      var /** @type {?} */
forJitOutputCtx = this._options.enableSummariesForJit ?\n
this._createOutputContext(summaryForJitFileName(srcFileName, true)) :\n      null;\n      var _a =
serializeSummaries(srcFileName, forJitOutputCtx, this._summaryResolver, this._symbolResolver,
symbolSummaries, typeData), json = _a.json, exportAs = _a.exportAs;\n      exportAs.forEach(function (entry) {\n
ngFactoryCtx.statements.push(variable(entry.exportAs).set(ngFactoryCtx.importExpr(entry.symbol)).toDeclStmt(nu
ll, [\n      StmtModifier.Exported\n      ]));\n      });\n      var /** @type {?} */ summaryJson = new
GeneratedFile(srcFileName, summaryFileName(srcFileName), json);\n      var /** @type {?} */ result =
[summaryJson];\n      if (forJitOutputCtx) {\n      result.push(this._codegenSourceModule(srcFileName,
forJitOutputCtx));\n      }\n      return result;\n      });\n      /**\n      * @param {?} outputCtx\n      * @param {?}
ngModule\n      * @return {?}\n      */\n      AotCompiler.prototype._compileModule = /**\n      * @param {?}
outputCtx\n      * @param {?} ngModule\n      * @return {?}\n      */\n      function (outputCtx, ngModule) {\n      var
/** @type {?} */ providers = [];\n      if (this._options.locale) {\n      var /** @type {?} */ normalizedLocale =
this._options.locale.replace(/_g, '-');\n      providers.push({\n      token:
createTokenForExternalReference(this._reflector, Identifiers.LOCALE_ID),\n      useValue:
normalizedLocale,\n      });\n      }\n      if (this._options.i18nFormat) {\n      providers.push({\n
token: createTokenForExternalReference(this._reflector, Identifiers.TRANSLATIONS_FORMAT),\n
useValue: this._options.i18nFormat\n      });\n      }\n      this._ngModuleCompiler.compile(outputCtx,
ngModule, providers);\n      });\n      /**\n      * @param {?} outputCtx\n      * @param {?} compMeta\n      * @param
{?} ngModule\n      * @param {?} fileSuffix\n      * @return {?}\n      */\n      AotCompiler.prototype._compileComponentFactory = /**\n      * @param {?} outputCtx\n      * @param {?}

```

```

compMeta\n    * @param {?} ngModule\n    * @param {?} fileSuffix\n    * @return {?}\n    *\n    function
(outputCtx, compMeta, ngModule, fileSuffix) {\n    var /** @type {?} */ hostMeta =
this._metadataResolver.getHostComponentMetadata(compMeta);\n    var /** @type {?} */ hostViewFactoryVar
= this._compileComponent(outputCtx, hostMeta, ngModule, [compMeta.type], null, fileSuffix)\n
.viewClassVar;\n    var /** @type {?} */ compFactoryVar =
componentFactoryName(compMeta.type.reference);\n    var /** @type {?} */ inputsExprs = [];\n    for (var /**
@type {?} */ propName in compMeta.inputs) {\n    var /** @type {?} */ templateName =
compMeta.inputs[propName];\n    // Don't quote so that the key gets minified...\n    inputsExprs.push(new
LiteralMapEntry(propName, literal(templateName), false));\n    }\n    var /** @type {?} */ outputsExprs = [];\n
    for (var /** @type {?} */ propName in compMeta.outputs) {\n    var /** @type {?} */ templateName =
compMeta.outputs[propName];\n    // Don't quote so that the key gets minified...\n
outputsExprs.push(new LiteralMapEntry(propName, literal(templateName), false));\n    }\n
outputCtx.statements.push(variable(compFactoryVar)\n
.set(importExpr(Identifiers.createComponentFactory).callFn([\n    literal(compMeta.selector),
outputCtx.importExpr(compMeta.type.reference),\n    variable(hostViewFactoryVar), new
LiteralMapExpr(inputsExprs),\n    new LiteralMapExpr(outputsExprs),\n    literalArr(** @type {?} */
(compMeta.template)).ngContentSelectors.map(function (selector) { return literal(selector); })))\n    ]))\n
.toDeclStmt(importType(Identifiers.ComponentFactory, [** @type {?} */
((expressionType(outputCtx.importExpr(compMeta.type.reference))))), [TypeModifier.Const]),
[StmtModifier.Final, StmtModifier.Exported]);\n    };\n    /**\n    * @param {?} outputCtx\n    * @param {?}
compMeta\n    * @param {?} ngModule\n    * @param {?} directiveIdentifiers\n    * @param {?}
componentStyles\n    * @param {?} fileSuffix\n    * @return {?}\n    *\n    AotCompiler.prototype._compileComponent = /**\n    * @param {?} outputCtx\n    * @param {?} compMeta\n
* @param {?} ngModule\n    * @param {?} directiveIdentifiers\n    * @param {?} componentStyles\n    *
@param {?} fileSuffix\n    * @return {?}\n    *\n    function (outputCtx, compMeta, ngModule,
directiveIdentifiers, componentStyles, fileSuffix) {\n    var _a = this._parseTemplate(compMeta, ngModule,
directiveIdentifiers), parsedTemplate = _a.template, usedPipes = _a.pipes;\n    var /** @type {?} */ stylesExpr =
componentStyles ? variable(componentStyles.stylesVar) : literalArr([]);\n    var /** @type {?} */ viewResult =
this._viewCompiler.compileComponent(outputCtx, compMeta, parsedTemplate, stylesExpr, usedPipes);\n    if
(componentStyles) {\n    _resolveStyleStatements(this._symbolResolver, componentStyles,
this._styleCompiler.needsStyleShim(compMeta), fileSuffix);\n    }\n    return viewResult;\n    };\n    /**\n    *
@param {?} compMeta\n    * @param {?} ngModule\n    * @param {?} directiveIdentifiers\n    * @return {?}\n
*\n    AotCompiler.prototype._parseTemplate = /**\n    * @param {?} compMeta\n    * @param {?} ngModule\n
* @param {?} directiveIdentifiers\n    * @return {?}\n    *\n    function (compMeta, ngModule,
directiveIdentifiers) {\n    var _this = this;\n    if (this._templateAstCache.has(compMeta.type.reference)) {\n
return /** @type {?} */ ((this._templateAstCache.get(compMeta.type.reference)));\n    }\n    var /** @type
{?} */ preserveWhitespaces = /** @type {?} */ ((/** @type {?} */ ((compMeta).template)).preserveWhitespaces);\n
var /** @type {?} */ directives = directiveIdentifiers.map(function (dir) { return
_this._metadataResolver.getDirectiveSummary(dir.reference); });\n    var /** @type {?} */ pipes =
ngModule.transitiveModule.pipes.map(function (pipe) { return
_this._metadataResolver.getPipeSummary(pipe.reference); });\n    var /** @type {?} */ result =
this._templateParser.parse(compMeta, /** @type {?} */ ((/** @type {?} */ ((compMeta.template)).htmlAst)),
directives, pipes, ngModule.schemas, templateUrl(ngModule.type, compMeta, /** @type {?} */
(compMeta.template))), preserveWhitespaces);\n    this._templateAstCache.set(compMeta.type.reference,
result);\n    return result;\n    };\n    /**\n    * @param {?} genFilePath\n    * @return {?}\n    *\n
AotCompiler.prototype._createOutputContext = /**\n    * @param {?} genFilePath\n    * @return {?}\n    *\n
function (genFilePath) {\n    var _this = this;\n    var /** @type {?} */ importExpr$$1 = function (symbol,
typeParams, useSummaries) {\n    if (typeParams === void 0) { typeParams = null; }\n    if

```



```

(useSummaries === void 0) { useSummaries = true; }
    if (!(symbol instanceof StaticSymbol)) {
    throw new Error("Internal error: unknown identifier " + JSON.stringify(symbol));
    }
    var /**
    @type {?} */ arity = _this._symbolResolver.getTypeArity(symbol) || 0;
    var _a =
    _this._symbolResolver.getImportAs(symbol, useSummaries) || symbol,
    filePath = _a.filePath,
    name = _a.name,
    members = _a.members;
    var /** @type {?} */ importModule = _this._fileNameToModuleName(filePath,
    genFilePath);
    // It should be good enough to compare filePath to genFilePath and if they are equal
    // there is a self reference. However, ngfactory files generate to .ts but their
    // symbols have .d.ts so a simple
    compare is insufficient. They should be canonical
    // and is tracked by #17705.
    var /** @type {?} */
    selfReference = _this._fileNameToModuleName(genFilePath, genFilePath);
    var /** @type {?} */
    moduleName = importModule === selfReference ? null : importModule;
    // If we are in a type expression
    that refers to a generic type then supply
    // the required type parameters. If there were not enough type
    parameters
    // supplied, supply any as the type. Outside a type expression the reference
    // should not
    supply type parameters and be treated as a simple value reference
    // to the constructor function itself.
    var /** @type {?} */ suppliedTypeParams = typeParams || [];
    var /** @type {?} */
    missingTypeParamsCount = arity - suppliedTypeParams.length;
    var /** @type {?} */ allTypeParams =
    suppliedTypeParams.concat(new Array(missingTypeParamsCount).fill(DYNAMIC_TYPE));
    return
    members.reduce(function (expr, memberName) { return expr.prop(memberName); }, /** @type {?} */
    (importExpr(new ExternalReference(moduleName, name, null), allTypeParams)));
    };
    return {
    statements: [],
    genFilePath: genFilePath,
    importExpr: importExpr$$$1 };
    };
    /**
    * @param {?}
    importedFilePath
    * @param {?} containingFilePath
    * @return {?}
    */
    AotCompiler.prototype._fileNameToModuleName = /**
    * @param {?} importedFilePath
    * @param {?}
    containingFilePath
    * @return {?}
    */
    function (importedFilePath, containingFilePath) {
    return
    this._summaryResolver.getKnownModuleName(importedFilePath) ||
    this._symbolResolver.getKnownModuleName(importedFilePath) ||
    this._host.fileNameToModuleName(importedFilePath, containingFilePath);
    };
    /**
    * @param {?}
    srcFileUrl
    * @param {?} compMeta
    * @param {?} stylesheetMetadata
    * @param {?} isShimmed
    * @param {?} fileSuffix
    * @return {?}
    */
    AotCompiler.prototype._codegenStyles = /**
    * @param
    {?} srcFileUrl
    * @param {?} compMeta
    * @param {?} stylesheetMetadata
    * @param {?}
    isShimmed
    * @param {?} fileSuffix
    * @return {?}
    */
    function (srcFileUrl, compMeta,
    stylesheetMetadata, isShimmed, fileSuffix) {
    var /** @type {?} */ outputCtx =
    this._createOutputContext(_stylesModuleUrl(/** @type {?} */ ((stylesheetMetadata.moduleUrl)), isShimmed,
    fileSuffix));
    var /** @type {?} */ compiledStylesheet = this._styleCompiler.compileStyles(outputCtx,
    compMeta, stylesheetMetadata, isShimmed);
    _resolveStyleStatements(this._symbolResolver,
    compiledStylesheet, isShimmed, fileSuffix);
    return this._codegenSourceModule(srcFileUrl, outputCtx);
    };
    /**
    * @param {?} srcFileUrl
    * @param {?} ctx
    * @return {?}
    */
    AotCompiler.prototype._codegenSourceModule = /**
    * @param {?} srcFileUrl
    * @param {?} ctx
    *
    @return {?}
    */
    function (srcFileUrl, ctx) {
    return new GeneratedFile(srcFileUrl, ctx.genFilePath,
    ctx.statements);
    };
    /**
    * @param {?=} entryRoute
    * @param {?=} analyzedModules
    *
    @return {?}
    */
    AotCompiler.prototype.listLazyRoutes = /**
    * @param {?=} entryRoute
    *
    @param {?=} analyzedModules
    * @return {?}
    */
    function (entryRoute, analyzedModules) {
    var
    /** @type {?} */ self = this;
    if (entryRoute) {
    var /** @type {?} */ symbol =
    parseLazyRoute(entryRoute, this._reflector).referencedModule;
    return visitLazyRoute(symbol);
    }
    else if (analyzedModules) {
    var /** @type {?} */ allLazyRoutes = [];
    for (var _i = 0, _a =
    analyzedModules.ngModules; _i < _a.length; _i++) {
    var ngModule = _a[_i];
    var /** @type
    {?} */ lazyRoutes = listLazyRoutes(ngModule, this._reflector);
    for (var _b = 0, lazyRoutes_1 =
    lazyRoutes; _b < lazyRoutes_1.length; _b++) {
    var lazyRoute = lazyRoutes_1[_b];
    allLazyRoutes.push(lazyRoute);
    }
    }
    return allLazyRoutes;
    }
    else {
    throw new Error("Either route or analyzedModules has to be specified!");
    }
    }
    /**
    * @param {?}

```

```

symbol\n      * @param {?=} seenRoutes\n      * @param {?=} allLazyRoutes\n      * @return {?}\n      *\n      function visitLazyRoute(symbol, seenRoutes, allLazyRoutes) {\n          if (seenRoutes === void 0) { seenRoutes\n            = new Set(); }\n          if (allLazyRoutes === void 0) { allLazyRoutes = []; }\n          // Support pointing to default\n            exports, but stop recursing there,\n          // as the StaticReflector does not yet support default exports.\n          if\n            (seenRoutes.has(symbol) || !symbol.name) {\n              return allLazyRoutes;\n            }\n            seenRoutes.add(symbol);\n            var /** @type {?} */ lazyRoutes = listLazyRoutes(/** @type {?} */\n              ((self._metadataResolver.getNgModuleMetadata(symbol, true))), self._reflector);\n            for (var _i = 0,\n              lazyRoutes_2 = lazyRoutes; _i < lazyRoutes_2.length; _i++) {\n              var lazyRoute = lazyRoutes_2[_i];\n              allLazyRoutes.push(lazyRoute);\n              visitLazyRoute(lazyRoute.referencedModule, seenRoutes,\n                allLazyRoutes);\n            }\n            return allLazyRoutes;\n          }\n        };\n        return AotCompiler;\n      };\n      *\n      @param {?} outputCtx\n      * @return {?}\n      *\n      function _createEmptyStub(outputCtx) {\n        // Note: We need to\n          produce at least one import statement so that\n        // TypeScript knows that the file is an es6 module. Otherwise our\n          generated\n        // exports / imports won't be emitted properly by TypeScript.\n        outputCtx.statements.push(importExpr(Identifiers.ComponentFactory).toStmt());\n      }\n      *\n      @param {?} symbolResolver\n      * @param {?} compileResult\n      * @param {?} needsShim\n      * @param {?} fileSuffix\n      *\n      @return {?}\n      *\n      function _resolveStyleStatements(symbolResolver, compileResult, needsShim, fileSuffix) {\n        compileResult.dependencies.forEach(function (dep) {\n          dep.setValue(symbolResolver.getStaticSymbol(_stylesModuleUrl(dep.moduleUrl, needsShim, fileSuffix),\n            dep.name));\n        });\n      }\n      *\n      @param {?} stylesheetUrl\n      * @param {?} shim\n      * @param {?} suffix\n      *\n      @return {?}\n      *\n      function _stylesModuleUrl(stylesheetUrl, shim, suffix) {\n        return "\"" + stylesheetUrl + (shim ?\n          '.shim' : '') + ".ngstyle" + suffix;\n      }\n      *\n      @record\n      *\n      @record\n      *\n      @record\n      *\n      @param {?} fileNames\n      * @param {?} host\n      * @param {?} staticSymbolResolver\n      * @param {?} metadataResolver\n      *\n      @return {?}\n      *\n      function analyzeNgModules(fileNames, host, staticSymbolResolver,\n        metadataResolver) {\n          var /** @type {?} */ files = _analyzeFilesIncludingNonProgramFiles(fileNames, host,\n            staticSymbolResolver, metadataResolver);\n          return mergeAnalyzedFiles(files);\n        }\n      *\n      @param {?} fileNames\n      * @param {?} host\n      * @param {?} staticSymbolResolver\n      * @param {?} metadataResolver\n      *\n      @return {?}\n      *\n      function analyzeAndValidateNgModules(fileNames, host, staticSymbolResolver,\n        metadataResolver) {\n          return validateAnalyzedModules(analyzeNgModules(fileNames, host,\n            staticSymbolResolver, metadataResolver));\n        }\n      *\n      @param {?} analyzedModules\n      * @return {?}\n      *\n      function validateAnalyzedModules(analyzedModules) {\n        if (analyzedModules.symbolsMissingModule &&\n          analyzedModules.symbolsMissingModule.length) {\n          var /** @type {?} */ messages =\n            analyzedModules.symbolsMissingModule.map(function (s) {\n              return "Cannot determine the module for\n                class " + s.name + " in " + s.filePath + "! Add " + s.name + " to the NgModule to fix it.";\n            });\n          throw\n            syntaxError(messages.join("\\n"));
        }\n        return analyzedModules;\n      }\n      *\n      @param {?} fileNames\n      * @param {?} host\n      * @param {?} staticSymbolResolver\n      * @param {?} metadataResolver\n      *\n      @return {?}\n      *\n      function _analyzeFilesIncludingNonProgramFiles(fileNames, host, staticSymbolResolver, metadataResolver)\n        {\n          var /** @type {?} */ seenFiles = new Set();\n          var /** @type {?} */ files = [];\n          var /** @type {?} */\n            visitFile = function (fileName) {\n              if (seenFiles.has(fileName) || !host.isSourceFile(fileName)) {\n                return\n                  false;\n              }\n              seenFiles.add(fileName);\n              var /** @type {?} */ analyzedFile = analyzeFile(host,\n                staticSymbolResolver, metadataResolver, fileName);\n              files.push(analyzedFile);\n              analyzedFile.ngModules.forEach(function (ngModule) {\n                ngModule.transitiveModule.modules.forEach(function (modMeta) {\n                  return visitFile(modMeta.reference.filePath);\n                });\n              });\n            }\n            fileNames.forEach(function (fileName) {\n              return visitFile(fileName);\n            });\n            return\n              files;\n        }\n      *\n      @param {?} host\n      * @param {?} staticSymbolResolver\n      * @param {?} metadataResolver\n      * @param {?} fileName\n      *\n      @return {?}\n      *\n      function analyzeFile(host, staticSymbolResolver, metadataResolver,\n        fileName) {\n          var /** @type {?} */ directives = [];\n          var /** @type {?} */ pipes = [];\n          var /** @type {?} */\n            injectables = [];\n          var /** @type {?} */ ngModules = [];\n          var /** @type {?} */ hasDecorators =\n            staticSymbolResolver.hasDecorators(fileName);\n          var /** @type {?} */ exportsNonSourceFiles = false;\n          //

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Don't analyze .d.ts files that have no decorators as a shortcut\n // to speed up the analysis. This prevents us from\n
// resolving the references in these files.\n // Note: exportsNonSourceFiles is only needed when compiling with
summaries,\n // which is not the case when .d.ts files are treated as input files.\n if (!fileName.endsWith('.d.ts') ||
hasDecorators) {\n     staticSymbolResolver.getSymbolsOf(fileName).forEach(function (symbol) {\n         var
/** @type {?} */ resolvedSymbol = staticSymbolResolver.resolveSymbol(symbol);\n         var /** @type {?} */
symbolMeta = resolvedSymbol.metadata;\n         if (!symbolMeta || symbolMeta.__symbolic === 'error') {\n
return;\n         }\n         var /** @type {?} */ isNgSymbol = false;\n         if (symbolMeta.__symbolic ===
'class') {\n             if (metadataResolver.isDirective(symbol)) {\n                 isNgSymbol = true;\n
directives.push(symbol);\n             }\n             else if (metadataResolver.isPipe(symbol)) {\n
isNgSymbol = true;\n                 pipes.push(symbol);\n             }\n             else if
(metadataResolver.isNgModule(symbol)) {\n                 var /** @type {?} */ ngModule =
metadataResolver.getNgModuleMetadata(symbol, false);\n                 if (ngModule) {\n
isNgSymbol = true;\n                     ngModules.push(ngModule);\n                 }\n             }\n             else if
(metadataResolver.isInjectable(symbol)) {\n                 isNgSymbol = true;\n
injectables.push(symbol);\n             }\n         }\n         if (!isNgSymbol) {\n             exportsNonSourceFiles
=\n                 exportsNonSourceFiles || isValueExportingNonSourceFile(host, symbolMeta);\n             }\n         });\n
}\n return {\n     fileName: fileName, directives: directives, pipes: pipes, ngModules: ngModules, injectables:
injectables, exportsNonSourceFiles: exportsNonSourceFiles,\n };}\n\n/**\n * @param {?} host\n * @param {?}
metadata\n * @return {?}\n */\nfunction isValueExportingNonSourceFile(host, metadata) {\n     var /** @type {?}
*/ exportsNonSourceFiles = false;\n     var Visitor = /** @class */ (function () {\n         function Visitor() {\n
}\n         /**\n          * @param {?} arr\n          * @param {?} context\n          * @return {?}\n          */\n
Visitor.prototype.visitArray = /**\n          * @param {?} arr\n          * @param {?} context\n          * @return {?}\n
*/\n          function (arr, context) {\n              var _this = this;\n              arr.forEach(function (v) { return visitValue(v,
_this, context); });\n          });\n          /**\n          * @param {?} map\n          * @param {?} context\n          * @return
{?}\n          */\n          Visitor.prototype.visitStringMap = /**\n          * @param {?} map\n          * @param {?}
context\n          * @return {?}\n          */\n          function (map, context) {\n              var _this = this;\n
Object.keys(map).forEach(function (key) { return visitValue(map[key], _this, context); });\n          });\n          /**\n
* @param {?} value\n          * @param {?} context\n          * @return {?}\n          */\n          Visitor.prototype.visitPrimitive = /**\n
* @param {?} value\n          * @param {?} context\n          * @return
{?}\n          */\n          function (value, context) {\n          }\n          /**\n          * @param {?} value\n          * @param {?}
context\n          * @return {?}\n          */\n          Visitor.prototype.visitOther = /**\n          * @param {?} value\n
* @param {?} context\n          * @return {?}\n          */\n          function (value, context) {\n              if (value instanceof
StaticSymbol && !host.isSourceFile(value.filePath)) {\n                  exportsNonSourceFiles = true;\n              }\n
};\n             return Visitor;\n         }());\n         visitValue(metadata, new Visitor(), null);\n         return
exportsNonSourceFiles;\n     }\n\n/**\n * @param {?} analyzedFiles\n * @return {?}\n */\nfunction
mergeAnalyzedFiles(analyzedFiles) {\n     var /** @type {?} */ allNgModules = [];\n     var /** @type {?} */
ngModuleByPipeOrDirective = new Map();\n     var /** @type {?} */ allPipesAndDirectives = new Set();\n
analyzedFiles.forEach(function (af) {\n         af.ngModules.forEach(function (ngModule) {\n
allNgModules.push(ngModule);\n             ngModule.declaredDirectives.forEach(function (d) { return
ngModuleByPipeOrDirective.set(d.reference, ngModule); });\n             ngModule.declaredPipes.forEach(function (p)
{\n                 return ngModuleByPipeOrDirective.set(p.reference, ngModule); }\n             });\n             af.directives.forEach(function
(d) {\n                 return allPipesAndDirectives.add(d); }\n             });\n             af.pipes.forEach(function (p) {\n
return allPipesAndDirectives.add(p); }\n             });\n         });\n         var /** @type {?} */ symbolsMissingModule = [];\n
allPipesAndDirectives.forEach(function (ref) {\n             if (!ngModuleByPipeOrDirective.has(ref)) {\n
symbolsMissingModule.push(ref);\n             }\n         });\n         return {\n             ngModules: allNgModules,\n
ngModuleByPipeOrDirective: ngModuleByPipeOrDirective,\n             symbolsMissingModule:
symbolsMissingModule,\n             files: analyzedFiles\n         };}\n\n/**\n * @param {?} files\n * @return {?}\n
*/\nfunction mergeAndValidateNgFiles(files) {\n     return

```



```

StaticReflector.prototype.resolveExternalReference = /**\n * @param {?} ref\n * @param {?=}
containingFile\n * @return {?}\n */\n function (ref, containingFile) {\n var /** @type {?} */ key =
undefined;\n if (!containingFile) {\n key = ref.moduleName + \":\" + ref.name;\n var /** @type
{?} */ declarationSymbol_1 = this.resolvedExternalReferences.get(key);\n if (declarationSymbol_1)\n return declarationSymbol_1;\n }\n var /** @type {?} */ refSymbol =
this.symbolResolver.getSymbolByModule(/** @type {?} */ ((ref.moduleName)), /** @type {?} */ ((ref.name)),
containingFile);\n var /** @type {?} */ declarationSymbol = this.findSymbolDeclaration(refSymbol);\n if
(!containingFile) {\n this.symbolResolver.recordModuleNameForFileName(refSymbol.filePath, /** @type
{?} */ ((ref.moduleName)));\n this.symbolResolver.recordImportAs(declarationSymbol, refSymbol);\n
}\n if (key) {\n this.resolvedExternalReferences.set(key, declarationSymbol);\n }\n return
declarationSymbol;\n };\n /**\n * @param {?} moduleUrl\n * @param {?} name\n * @param {?=}
containingFile\n * @return {?}\n */\n StaticReflector.prototype.findDeclaration = /**\n * @param {?}
moduleUrl\n * @param {?} name\n * @param {?=} containingFile\n * @return {?}\n */\n function
(moduleUrl, name, containingFile) {\n return
this.findSymbolDeclaration(this.symbolResolver.getSymbolByModule(moduleUrl, name, containingFile));\n
};\n /**\n * @param {?} moduleUrl\n * @param {?} name\n * @return {?}\n */\n
StaticReflector.prototype.tryFindDeclaration = /**\n * @param {?} moduleUrl\n * @param {?} name\n *
@return {?}\n */\n function (moduleUrl, name) {\n var _this = this;\n return
this.symbolResolver.ignoreErrorsFor(function () { return _this.findDeclaration(moduleUrl, name); });\n
};\n /**\n * @param {?} symbol\n * @return {?}\n */\n StaticReflector.prototype.findSymbolDeclaration =
/**\n * @param {?} symbol\n * @return {?}\n */\n function (symbol) {\n var /** @type {?} */
resolvedSymbol = this.symbolResolver.resolveSymbol(symbol);\n if (resolvedSymbol) {\n var /**
@type {?} */ resolvedMetadata = resolvedSymbol.metadata;\n if (resolvedMetadata &&
resolvedMetadata.__symbolic === 'resolved') {\n resolvedMetadata = resolvedMetadata.symbol;\n
}\n if (resolvedMetadata instanceof StaticSymbol) {\n return
this.findSymbolDeclaration(resolvedSymbol.metadata);\n }\n }\n return symbol;\n };\n /**\n *
@param {?} type\n * @return {?}\n */\n StaticReflector.prototype.annotations = /**\n * @param {?}
type\n * @return {?}\n */\n function (type) {\n var /** @type {?} */ annotations =
this.annotationCache.get(type);\n if (!annotations) {\n annotations = [];\n var /** @type {?} */
classMetadata = this.getTypeMetadata(type);\n var /** @type {?} */ parentType = this.findParentType(type,
classMetadata);\n if (parentType) {\n var /** @type {?} */ parentAnnotations =
this.annotations(parentType);\n annotations.push.apply(annotations, parentAnnotations);\n
}\n var /** @type {?} */ ownAnnotations_1 = [];\n if (classMetadata['decorators']) {\n
ownAnnotations_1 = this.simplify(type, classMetadata['decorators']);\n
annotations.push.apply(annotations, ownAnnotations_1);\n }\n if (parentType &&
!this.summaryResolver.isLibraryFile(type.filePath) &&\n
this.summaryResolver.isLibraryFile(parentType.filePath)) {\n var /** @type {?} */ summary =
this.summaryResolver.resolveSummary(parentType);\n if (summary && summary.type) {\n
var /** @type {?} */ requiredAnnotationTypes = /** @type {?} */
(((this.annotationForParentClassWithSummaryKind.get(/** @type {?} */ ((summary.type.summaryKind)))));\n
var /** @type {?} */ typeHasRequiredAnnotation = requiredAnnotationTypes.some(function (requiredType) {
return ownAnnotations_1.some(function (ann) { return requiredType.isTypeOf(ann); }); });\n if
(!typeHasRequiredAnnotation) {\n this.reportError(formatMetadataError(metadataError(\"Class \" +
type.name + \" in \" + type.filePath + \" extends from a \" + CompileSummaryKind[(/** @type {?} */
((summary.type.summaryKind)))] + \" in another compilation unit without duplicating the decorator\",
undefined, \"Please add a \" + requiredAnnotationTypes.map(function (type) { return type.ngMetadataName;
}).join(' or ') + \"
decorator to the class\"), type), type);\n }\n }\n }\n this.annotationCache.set(type,
annotations.filter(function (ann) { return !!ann; }));\n }\n return annotations;\n };\n /**\n * @param

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{?} type\n * @return {?}\n *^\n StaticReflector.prototype.propMetadata = /**\n * @param {?} type\n * @return {?}\n *^\n function (type) {\n var _this = this;\n var /** @type {?} */ propMetadata = this.propertyCache.get(type);\n if (!propMetadata) {\n var /** @type {?} */ classMetadata = this.getTypeMetadata(type);\n propMetadata = {};\n var /** @type {?} */ parentType = this.findParentType(type, classMetadata);\n if (parentType) {\n var /** @type {?} */ parentPropMetadata_1 = this.propMetadata(parentType);\n Object.keys(parentPropMetadata_1).forEach(function (parentProp) {\n /** @type {?} */ ((propMetadata))[parentProp] = parentPropMetadata_1[parentProp];\n });\n }\n var /** @type {?} */ members_1 = classMetadata['members'] || {};\n Object.keys(members_1).forEach(function (propName) {\n var /** @type {?} */ propData = members_1[propName];\n var /** @type {?} */ prop = /** @type {?} */ (propData)\n .find(function (a) { return a['__symbolic'] === 'property' || a['__symbolic'] === 'method'; });\n var /** @type {?} */ decorators = [];\n if (/** @type {?} */ ((propMetadata)[propName]) {\n decorators.push.apply(decorators, /** @type {?} */ ((propMetadata)[propName]));\n } /** @type {?} */\n ((propMetadata)[propName] = decorators;\n if (prop && prop['decorators']) {\n decorators.push.apply(decorators, _this.simplify(type, prop['decorators']));\n }\n });\n this.propertyCache.set(type, propMetadata);\n }\n return propMetadata;\n });\n /**\n * @param {?} type\n * @return {?}\n *^\n StaticReflector.prototype.parameters = /**\n * @param {?} type\n * @return {?}\n *^\n function (type) {\n var _this = this;\n if (!(type instanceof StaticSymbol)) {\n this.reportError(new Error("\nparameters received \" + JSON.stringify(type) + \" which is not a StaticSymbol\"), type);\n return [];\n }\n try {\n var /** @type {?} */ parameters_1 = this.parameterCache.get(type);\n if (!parameters_1) {\n var /** @type {?} */ classMetadata = this.getTypeMetadata(type);\n var /** @type {?} */ parentType = this.findParentType(type, classMetadata);\n var /** @type {?} */ members = classMetadata ? classMetadata['members'] : null;\n var /** @type {?} */ ctorData = members ? members['__ctor__'] : null;\n if (ctorData) {\n var /** @type {?} */ ctor = /** @type {?} */ (ctorData).find(function (a) { return a['__symbolic'] === 'constructor'; });\n var /** @type {?} */ rawParameterTypes = /** @type {?} */ (ctor['parameters'] || []);\n var /** @type {?} */ parameterDecorators_1 = /** @type {?} */ (this.simplify(type, ctor['parameterDecorators'] || []));\n parameters_1 = [];\n rawParameterTypes.forEach(function (rawParamType, index) {\n var /** @type {?} */ nestedResult = [];\n var /** @type {?} */ paramType = _this.trySimplify(type, rawParamType);\n if (paramType)\n nestedResult.push(paramType);\n var /** @type {?} */ decorators = parameterDecorators_1 ? parameterDecorators_1[index] : null;\n if (decorators) {\n nestedResult.push.apply(nestedResult, decorators);\n } /** @type {?} */\n {?} ^\n ((parameters_1).push(nestedResult);\n });\n }\n }\n else if (parentType) {\n parameters_1 = this.parameters(parentType);\n }\n if (!parameters_1) {\n parameters_1 = [];\n }\n this.parameterCache.set(type, parameters_1);\n }\n return parameters_1;\n }\n catch (/** @type {?} */ e) {\n console.error("\nFailed on type \" + JSON.stringify(type) + \" with error \" + e);\n throw e;\n }\n });\n /**\n * @param {?} type\n * @return {?}\n *^\n StaticReflector.prototype._methodNames = /**\n * @param {?} type\n * @return {?}\n *^\n function (type) {\n var /** @type {?} */ methodNames = this.methodCache.get(type);\n if (!methodNames) {\n var /** @type {?} */ classMetadata = this.getTypeMetadata(type);\n methodNames = {};\n var /** @type {?} */ parentType = this.findParentType(type, classMetadata);\n if (parentType) {\n var /** @type {?} */ parentMethodNames_1 = this._methodNames(parentType);\n Object.keys(parentMethodNames_1).forEach(function (parentProp) {\n /** @type {?} */ ((methodNames))[parentProp] = parentMethodNames_1[parentProp];\n });\n }\n var /** @type {?} */ members_2 = classMetadata['members'] || {};\n Object.keys(members_2).forEach(function (propName) {\n var /** @type {?} */ propData = members_2[propName];\n var /** @type {?} */

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isMethod = (** @type {?} */ (propData)).some(function (a) { return a['__symbolic'] == 'method'; }); /** @type
{?} */
((methodNames)[propName] = /** @type {?} */ ((methodNames)[propName] || isMethod);
});
this.methodCache.set(type, methodNames);
return methodNames;
}
@param {?} type
 * @return {?}
 */
StaticReflector.prototype._staticMembers = /**
 * @param {?}
type
 * @return {?}
 */
function (type) {
var /** @type {?} */ staticMembers =
this.staticCache.get(type);
if (!staticMembers) {
var /** @type {?} */ classMetadata =
this.getTypeMetadata(type);
var /** @type {?} */ staticMemberData = classMetadata['statics'] || {};
staticMembers = Object.keys(staticMemberData);
this.staticCache.set(type, staticMembers);
}
return staticMembers;
}
/**
 * @param {?} type
 * @param {?} classMetadata
 * @return {?}
 */
StaticReflector.prototype.findParentType = /**
 * @param {?} type
 * @param {?} classMetadata
 * @return {?}
 */
function (type, classMetadata) {
var /** @type {?} */ parentType =
this.trySimplify(type, classMetadata['extends']);
if (parentType instanceof StaticSymbol) {
return
parentType;
}
}
/**
 * @param {?} type
 * @param {?} lcProperty
 * @return {?}
 */
StaticReflector.prototype.hasLifecycleHook = /**
 * @param {?} type
 * @param {?} lcProperty
 * @return {?}
 */
function (type, lcProperty) {
if (!(type instanceof StaticSymbol)) {
this.reportError(new Error("hasLifecycleHook received \" + JSON.stringify(type) + \" which is not a
StaticSymbol\"), type);
}
try {
return !!this._methodNames(type)[lcProperty];
}
catch (** @type {?} */ e) {
console.error("Failed on type \" + JSON.stringify(type) + \" with error \" +
e);
throw e;
}
}
}
/**
 * @param {?} type
 * @return {?}
 */
StaticReflector.prototype.guards = /**
 * @param {?} type
 * @return {?}
 */
function (type) {
if (!(type instanceof StaticSymbol)) {
this.reportError(new Error("guards received \" +
JSON.stringify(type) + \" which is not a StaticSymbol\"), type);
return {};
}
var /** @type {?} */
*/ staticMembers = this._staticMembers(type);
var /** @type {?} */ result = {};
for (var _i = 0,
staticMembers_1 = staticMembers; _i < staticMembers_1.length; _i++) {
var name_1 =
staticMembers_1[_i];
if (name_1.endsWith(TYPEGUARD_POSTFIX)) {
var /** @type {?} */
property = name_1.substr(0, name_1.length - TYPEGUARD_POSTFIX.length);
var /** @type {?} */
value = void 0;
if (property.endsWith(USE_IF)) {
property = name_1.substr(0,
property.length - USE_IF.length);
value = USE_IF;
}
else {
value
= this.getStaticSymbol(type.filePath, type.name, [name_1]);
}
result[property] = value;
}
}
return result;
}
}
/**
 * @param {?} type
 * @param {?} ctor
 * @return {?}
 */
StaticReflector.prototype._registerDecoratorOrConstructor = /**
 * @param {?} type
 * @param {?}
ctor
 * @return {?}
 */
function (type, ctor) {
this.conversionMap.set(type, function (context, args)
{ return new (ctor.bind.apply(ctor, [void 0].concat(args)))(); });
}
}
/**
 * @param {?} type
 * @param {?} fn
 * @return {?}
 */
StaticReflector.prototype._registerFunction = /**
 * @param {?}
type
 * @param {?} fn
 * @return {?}
 */
function (type, fn) {
this.conversionMap.set(type,
function (context, args) { return fn.apply(undefined, args); });
}
}
}
/**
 * @return {?}
 */
StaticReflector.prototype.initializeConversionMap = /**
 * @return {?}
 */
function () {
this.injectionToken = this.findDeclaration(ANGULAR_CORE, 'InjectionToken');
this.opaqueToken =
this.findDeclaration(ANGULAR_CORE, 'OpaqueToken');
this.ROUTES =
this.tryFindDeclaration(ANGULAR_ROUTER, 'ROUTES');
this.ANALYZE_FOR_ENTRY_COMPONENTS =
this.findDeclaration(ANGULAR_CORE,
'ANALYZE_FOR_ENTRY_COMPONENTS');
this._registerDecoratorOrConstructor(this.findDeclaration(ANGULAR_CORE, 'Host'), createHost);
this._registerDecoratorOrConstructor(this.findDeclaration(ANGULAR_CORE, 'Injectable'), createInjectable);
this._registerDecoratorOrConstructor(this.findDeclaration(ANGULAR_CORE, 'Self'), createSelf);
this._registerDecoratorOrConstructor(this.findDeclaration(ANGULAR_CORE, 'SkipSelf'), createSkipSelf);
this._registerDecoratorOrConstructor(this.findDeclaration(ANGULAR_CORE, 'Inject'), createInject);
this._registerDecoratorOrConstructor(this.findDeclaration(ANGULAR_CORE, 'Optional'), createOptional);
}
}

```

```

this._registerDecoratorOrConstructor(this.findDeclaration(ANGULAR_CORE, 'Attribute'), createAttribute);\n
this._registerDecoratorOrConstructor(this.findDeclaration(ANGULAR_CORE, 'ContentChild'),\n
createContentChild);\n    this._registerDecoratorOrConstructor(this.findDeclaration(ANGULAR_CORE,\n'ContentChildren'), createContentChildren);\n
this._registerDecoratorOrConstructor(this.findDeclaration(ANGULAR_CORE, 'ViewChild'), createViewChild);\n
    this._registerDecoratorOrConstructor(this.findDeclaration(ANGULAR_CORE, 'ViewChildren'),\ncreateViewChildren);\n    this._registerDecoratorOrConstructor(this.findDeclaration(ANGULAR_CORE, 'Input'),\ncreateInput);\n    this._registerDecoratorOrConstructor(this.findDeclaration(ANGULAR_CORE, 'Output'),\ncreateOutput);\n    this._registerDecoratorOrConstructor(this.findDeclaration(ANGULAR_CORE, 'Pipe'),\ncreatePipe);\n    this._registerDecoratorOrConstructor(this.findDeclaration(ANGULAR_CORE, 'HostBinding'),\ncreateHostBinding);\n    this._registerDecoratorOrConstructor(this.findDeclaration(ANGULAR_CORE,\n'HostListener'), createHostListener);\n
this._registerDecoratorOrConstructor(this.findDeclaration(ANGULAR_CORE, 'Directive'), createDirective);\n
this._registerDecoratorOrConstructor(this.findDeclaration(ANGULAR_CORE, 'Component'), createComponent);\n
    this._registerDecoratorOrConstructor(this.findDeclaration(ANGULAR_CORE, 'NgModule'),\ncreateNgModule);\n    // Note: Some metadata classes can be used directly with Provider.deps.\n
this._registerDecoratorOrConstructor(this.findDeclaration(ANGULAR_CORE, 'Host'), createHost);\n
this._registerDecoratorOrConstructor(this.findDeclaration(ANGULAR_CORE, 'Self'), createSelf);\n
this._registerDecoratorOrConstructor(this.findDeclaration(ANGULAR_CORE, 'SkipSelf'), createSkipSelf);\n
this._registerDecoratorOrConstructor(this.findDeclaration(ANGULAR_CORE, 'Optional'), createOptional);\n };\n
/**\n * getStaticSymbol produces a Type whose metadata is known but whose implementation is not loaded.\n
* All types passed to the StaticResolver should be pseudo-types returned by this method.\n * @param\n
declarationFile the absolute path of the file where the symbol is declared\n * @param name the name of the\n
type.\n * @param /**\n * getStaticSymbol produces a Type whose metadata is known but whose implementation is\n
not loaded.\n * All types passed to the StaticResolver should be pseudo-types returned by this method.\n * @param\n
* @param {?} declarationFile the absolute path of the file where the symbol is declared\n * @param {?} name\n
the name of the type.\n * @param {?=} members\n * @return {?}\n * @param\n
StaticReflector.prototype.getStaticSymbol = /**\n * getStaticSymbol produces a Type whose metadata is known\n
but whose implementation is not loaded.\n * All types passed to the StaticResolver should be pseudo-types\n
returned by this method.\n * @param {?} declarationFile the absolute path of the file where the symbol is\n
declared\n * @param {?} name the name of the type.\n * @param {?=} members\n * @return {?}\n * @param\n
function (declarationFile, name, members) {\n    return this.symbolResolver.getStaticSymbol(declarationFile,\nname, members);\n };\n /**\n * Simplify but discard any errors\n * @param {?} context\n * @param {?} value\n
* @return {?}\n * @param\n
StaticReflector.prototype.trySimplify = /**\n * Simplify but discard any\n
errors\n * @param {?} context\n * @param {?} value\n * @return {?}\n * @param\n
function (context, value)\n {\n    var /** @type {?} */ originalRecorder = this.errorRecorder;\n    this.errorRecorder = function (error,\nfileName) { };\n    var /** @type {?} */ result = this.simplify(context, value);\n    this.errorRecorder =\noriginalRecorder;\n    return result;\n };\n /**\n * @internal\n * @param {?} context\n * @param {?} value\n
* @return {?}\n * @param\n
StaticReflector.prototype.simplify = /**\n * @internal\n * @param {?} context\n
* @param {?} value\n * @return {?}\n * @param\n
function (context, value) {\n    var /** @type {?} */\nself = this;\n    var /** @type {?} */ scope = BindingScope.empty;\n    var /** @type {?} */ calling = new\nMap();\n    var /** @type {?} */ rootContext = context;\n    /**\n * @param {?} context\n * @param\n
{?} value\n * @param {?} depth\n * @param {?} references\n * @return {?}\n * @param\n
function simplifyInContext(context, value, depth, references) {\n    /**\n * @param {?} staticSymbol\n
* @return {?}\n * @param\n
function resolveReferenceValue(staticSymbol) {\n    var /**\n@type {?} */ resolvedSymbol = self.symbolResolver.resolveSymbol(staticSymbol);\n    return\nresolvedSymbol ? resolvedSymbol.metadata : null;\n };\n /**\n * @param {?} value\n * @return {?}\n * @param\n
function simplifyEagerly(value) {\n    return simplifyInContext(context,

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value, depth, 0);\n        }\n        /**\n         * @param {?} value\n         * @return {?}\n         */\nfunction simplifyLazily(value) {\n        return simplifyInContext(context, value, depth, references + 1);\n}\n        /**\n         * @param {?} nestedContext\n         * @param {?} value\n         * @return {?}\n         */\nfunction simplifyNested(nestedContext, value) {\n        if (nestedContext === context) {\n        // If the context hasn't changed let the exception propagate unmodified.\n        return\nsimplifyInContext(nestedContext, value, depth + 1, references);\n        }\n        try {\n        return\nsimplifyInContext(nestedContext, value, depth + 1, references);\n        }\n        catch (** @type {?} */ e)\n{\n        if (isMetadataError(e)) {\n        // Propagate the message text up but add a message to the\nchain that explains how we got\n        // here.\n        // e.chain implies e.symbol\nvar (** @type {?} */ summaryMsg = e.chain ? 'references \\\" + (** @type {?} */ ((e.symbol)).name + '\\\" :\nerrorSummary(e);\n        var (** @type {?} */ summary = '\\\" + nestedContext.name + '\\\" '\n+ summaryMsg;\n        var (** @type {?} */ chain = { message: summary, position: e.position, next: e.chain\n};\n        // TODO(chuckj): retrieve the position information indirectly from the collectors node\n        // map if the metadata is from a .ts file.\n        self.error({\n        message: e.message,\n        advise: e.advise,\n        context: e.context, chain: chain,\n        symbol:\nnestedContext\n        }, context);\n        }\n        else {\n        // It is probably an\ninternal error.\n        throw e;\n        }\n        }\n        /**\n         * @param {?} functionSymbol\n         * @param {?} targetFunction\n         * @param {?} args\n         * @param {?} targetExpression\n         * @return {?}\n         */\nfunction simplifyCall(functionSymbol,\ntargetFunction, args, targetExpression) {\n        if (targetFunction && targetFunction['__symbolic'] ==\n'function') {\n        if (calling.get(functionSymbol)) {\n        self.error({\n        message:\n'Recursion is not supported',\n        summary: '\\\"called \\\" + functionSymbol.name + '\\\" recursively\\\",'\n        value: targetFunction\n        }, functionSymbol);\n        }\n        try {\n        var (** @type {?} */ value_1 = targetFunction['value'];\n        if (value_1 && (depth != 0 ||\nvalue_1.__symbolic != 'error')) {\n        var (** @type {?} */ parameters =\ntargetFunction['parameters'];\n        var (** @type {?} */ defaults = targetFunction.defaults;\n        args = args.map(function (arg) { return simplifyNested(context, arg); })\n        .map(function\n(arg) { return shouldIgnore(arg) ? undefined : arg; });\n        if (defaults && defaults.length >\nargs.length) {\n        args.push.apply(args, defaults.slice(args.length).map(function (value) { return\nsimplify(value); }));\n        }\n        calling.set(functionSymbol, true);\n        var (** @type {?} */ functionScope = BindingScope.build();\n        for (var (** @type {?} */ i = 0; i <\nparameters.length; i++) {\n        functionScope.define(parameters[i], args[i]);\n        }\n        var (** @type {?} */ oldScope = scope;\n        var (** @type {?} */ result_1;\n        try {\n        scope = functionScope.done();\n        result_1 =\nsimplifyNested(functionSymbol, value_1);\n        }\n        finally {\n        scope = oldScope;\n        }\n        return result_1;\n        }\n        }\n        finally {\n        calling.delete(functionSymbol);\n        }\n        }\n        if (depth ===\n0) {\n        // If depth is 0 we are evaluating the top level expression that is describing element\n// decorator. In this case, it is a decorator we don't understand, such as a custom\n// non-angular\ndecorator, and we should just ignore it.\n        return IGNORE;\n        }\n        var (** @type {?} */\nposition = undefined;\n        if (targetExpression && targetExpression.__symbolic == 'resolved') {\n        var (** @type {?} */ line = targetExpression.line;\n        var (** @type {?} */ character =\ntargetExpression.character;\n        var (** @type {?} */ fileName = targetExpression.fileName;\n        if (fileName != null && line != null && character != null) {\n        position = { fileName: fileName, line:\nline, column: character };\n        }\n        }\n        self.error({\n        message:\nFUNCTION_CALL_NOT_SUPPORTED,\n        context: functionSymbol,\n        value:\ntargetFunction, position: position\n        }, context);\n        }\n        /**\n         * @param {?} expression\n         * @return {?}\n         */\nfunction simplify(expression) {\n        if

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(isPrimitive(expression)) {\n          return expression;\n          }\n          if (expression instanceof Array)\n{\n          var /** @type {?} */ result_2 = [];\n          for (var _i = 0, _a = (/** @type {?} */\n(expression)); _i < _a.length; _i++) {\n          var item = _a[_i];\n          // Check for a spread\nexpression\n          if (item && item.__symbolic === 'spread') {\n          // We call with\nreferences as 0 because we require the actual value and cannot\n          // tolerate a reference here.\n          var /** @type {?} */ spreadArray = simplifyEagerly(item.expression);\n          if\n(Array.isArray(spreadArray)) {\n          for (var _b = 0, spreadArray_1 = spreadArray; _b <\nspreadArray_1.length; _b++) {\n          var spreadItem = spreadArray_1[_b];\nresult_2.push(spreadItem);\n          }\n          continue;\n          }\n          }\n          var /** @type {?} */ value_2 = simplify(item);\n          if (shouldIgnore(value_2)) {\n          continue;\n          }\n          result_2.push(value_2);\n          }\nreturn result_2;\n          }\n          if (expression instanceof StaticSymbol) {\n          // Stop\nsimplification at builtin symbols or if we are in a reference context and\n          // the symbol doesn't have\nmembers.\n          if (expression === self.injectionToken || self.conversionMap.has(expression) ||\n(references > 0 && !expression.members.length)) {\n          return expression;\n          }\n          else {\n          var /** @type {?} */ staticSymbol = expression;\n          var /** @type {?} */\ndeclarationValue = resolveReferenceValue(staticSymbol);\n          if (declarationValue != null) {\n          return simplifyNested(staticSymbol, declarationValue);\n          }\n          else {\n          return staticSymbol;\n          }\n          }\n          }\n          if (expression) {\n          if\n(expression['__symbolic']) {\n          var /** @type {?} */ staticSymbol = void 0;\n          switch\n(expression['__symbolic']) {\n          case 'binop':\n          var /** @type {?} */ left =\nsimplify(expression['left']);\n          if (shouldIgnore(left))\n          return left;\n          var /** @type {?} */ right = simplify(expression['right']);\n          if (shouldIgnore(right))\n          return right;\n          switch (expression['operator']) {\n          case\n'&&':\n          return left && right;\n          case '|':\n          return left | right;\n          case '^':\n          return left ^ right;\n          case '&':\n          return left & right;\n          case '==':\n          return left == right;\n          case '!=':\n          return left != right;\n          case '===':\n          return left === right;\n          case '!==':\n          return left !== right;\n          case '<':\n          return left < right;\n          case '>':\n          return left > right;\n          case '<=':\n          return left <= right;\n          case '>=':\n          return left >= right;\n          case '<<':\n          return left << right;\n          case '>>':\n          return left >> right;\n          case '+':\n          return left + right;\n          case '-':\n          return left - right;\n          case '*':\n          return left * right;\n          case '/':\n          return left / right;\n          case '%':\n          return left % right;\n          }\n          return null;\n          case 'if':\n          var /** @type {?} */ condition = simplify(expression['condition']);\n          return condition\n? simplify(expression['thenExpression']) :\n          simplify(expression['elseExpression']);\n          case 'pre':\n          var /** @type {?} */ operand = simplify(expression['operand']);\n          if (shouldIgnore(operand))\n          return operand;\n          switch\n(expression['operator']) {\n          case '+':\n          return operand;\n          case '-':\n          return -operand;\n          case '!':\n          return !operand;\n          case '~':\n          return ~operand;\n          }\n          return null;\n          case 'index':\n          var /** @type {?} */\nindexTarget = simplifyEagerly(expression['expression']);\n          var /** @type {?} */ index =\nsimplifyEagerly(expression['index']);\n          if (indexTarget && isPrimitive(index))\n
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        return indexTarget[index];\n
        return null;\n
        case 'select':\n
var /** @type {?} */ member = expression['member'];\n
        var /** @type {?} */ selectContext =\n
context;\n
        var /** @type {?} */ selectTarget = simplify(expression['expression']);\n
        if (selectTarget instanceof StaticSymbol) {\n
            var /** @type {?} */ members =\n
selectTarget.members.concat(member);\n
            selectContext =\n
self.getStaticSymbol(selectTarget.filePath, selectTarget.name, members);\n
            var /** @type {?} */\n
*/ declarationValue = resolveReferenceValue(selectContext);\n
            if (declarationValue != null)\n
{\n
                return simplifyNested(selectContext, declarationValue);\n
            }\n
            else {\n
                return selectContext;\n
            }\n
}\n
        if (selectTarget && isPrimitive(member))\n
            return\n
simplifyNested(selectContext, selectTarget[member]);\n
            return null;\n
        case\n
'reference':\n
            // Note: This only has to deal with variable references, as symbol references have\n
            // been converted into 'resolved'\n
            // in the StaticSymbolResolver.\n
            var /** @type {?} */ name_2 = expression['name'];\n
            var /** @type {?} */ localValue =\n
scope.resolve(name_2);\n
            if (localValue != BindingScope.missing) {\n
return localValue;\n
            }\n
            break;\n
            case 'resolved':\n
                try {\n
                    return simplify(expression.symbol);\n
                }\n
            catch (** @type {?} */ e) {\n
                // If an error is reported evaluating the symbol record the\n
                // position of the\n
                // reference in the error so it can\n
                // be reported in the\n
                // error message generated from the exception.\n
                if (isMetadataError(e) && expression.fileName\n
!= null &&\n
                expression.line != null && expression.character != null) {\n
                    e.position = {\n
                        fileName: expression.fileName,\n
                        line:\n
expression.line,\n
                        column: expression.character\n
                    };\n
                }\n
                throw e;\n
            }\n
            case 'class':\n
                return context;\n
            case\n
'new':\n
                case 'call':\n
                    // Determine if the function is a built-in conversion\n
                    staticSymbol = simplifyInContext(context, expression['expression'], depth + 1, /* references */ 0);\n
                    if (staticSymbol instanceof StaticSymbol) {\n
                        if (staticSymbol ===\n
self.injectionToken || staticSymbol === self.opaqueToken) {\n
                            // if somebody calls new\n
                            InjectionToken, don't create an InjectionToken,\n
                            // but rather return the symbol to which\n
                            the InjectionToken is assigned to.\n
                            // OpaqueToken is supported too as it is required by the\n
                            language service to\n
                            // support v4 and prior versions of Angular.\n
                        }\n
                        var /** @type {?} */ argExpressions =\n
expression['arguments'] || [];\n
                        var /** @type {?} */ converter =\n
self.conversionMap.get(staticSymbol);\n
                        if (converter) {\n
                            var /**\n
@type {?} */ args = argExpressions.map(function (arg) { return simplifyNested(context, arg); })\n
                            .map(function (arg) { return shouldIgnore(arg) ? undefined : arg; });\n
                            return\n
converter(context, args);\n
                        }\n
                        else {\n
                            //\n
                            Determine if the function is one we can simplify.\n
                            var /** @type {?} */ targetFunction =\n
                            resolveReferenceValue(staticSymbol);\n
                            return simplifyCall(staticSymbol, targetFunction,\n
                            argExpressions, expression['expression']);\n
                        }\n
                    }\n
                }\n
            }\n
            case 'error':\n
                var /** @type {?} */ message =\n
expression.message;\n
                if (expression['line'] != null) {\n
                    self.error({\n
                        message: message,\n
                        context: expression.context,\n
                        value: expression,\n
                        position: {\n
                            fileName:\n
expression['fileName'],\n
                            line: expression['line'],\n
                            column:\n
expression['character']\n
                        },\n
                        }, context);\n
                }\n
            }\n
            else {\n
                self.error({ message: message, context: expression.context }, context);\n
            }\n
        }\n
    }\n
}

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        }\n                return IGNORE;\n                case 'ignore':\nreturn expression;\n        }\n                return null;\n        }\n                return\nmapStringMap(expression, function (value, name) {\n                if (REFERENCE_SET.has(name)) {\n                if (name === USE_VALUE && PROVIDE in expression) {\n                // If this is a provider\nexpression, check for special tokens that need the value\n                // during analysis.\nvar /** @type {?} */ provide = simplify(expression.provide);\n                if (provide === self.ROUTES ||\nprovide === self.ANALYZE_FOR_ENTRY_COMPONENTS) {\n                return simplify(value);\n                }\n                }\n                return simplifyLazily(value);\n                }\n                return simplify(value);\n                });\n                }\n                return IGNORE;\n                }\n                return\nsimplify(value);\n        }\n        var /** @type {?} */ result;\n        try {\n                result = simplifyInContext(context,\nvalue, 0, 0);\n        }\n        catch (** @type {?} */ e) {\n                if (this.errorRecorder) {\nthis.reportError(e, context);\n                }\n                else {\n                throw formatMetadataError(e, context);\n                }\n        }\n        if (shouldIgnore(result)) {\n                return undefined;\n        }\n        return result;\n    };\n    /**\n * @param {?} type\n * @return {?}\n */\n    StaticReflector.prototype.getTypeMetadata = /**\n * @param\n {?} type\n * @return {?}\n */\n    function (type) {\n        var /** @type {?} */ resolvedSymbol =\nthis.symbolResolver.resolveSymbol(type);\n        return resolvedSymbol && resolvedSymbol.metadata ?\nresolvedSymbol.metadata :\n        { __symbolic: 'class' };;\n    };\n    /**\n * @param {?} error\n * @param\n {?} context\n * @param {?=} path\n * @return {?}\n */\n    StaticReflector.prototype.reportError = /**\n * @param {?} error\n * @param {?} context\n * @param {?=} path\n * @return {?}\n */\n    function\n(error, context, path) {\n        if (this.errorRecorder) {\n                this.errorRecorder(formatMetadataError(error,\ncontext), (context && context.filePath) || path);\n        }\n        else {\n                throw error;\n        }\n    };\n    /**\n * @param {?} _0\n * @param {?} reportingContext\n * @return\n {?}\n */\n    StaticReflector.prototype.error = /**\n * @param {?} _0\n * @param {?} reportingContext\n * @return\n {?}\n */\n    function (_a, reportingContext) {\n        var message = _a.message, summary = _a.summary, advise =\n_a.advise, position = _a.position, context = _a.context, value = _a.value, symbol = _a.symbol, chain = _a.chain;\n        this.reportError(metadataError(message, summary, advise, position, symbol, context, chain), reportingContext);\n    };\n    return StaticReflector;\n})();\nvar METADATA_ERROR = 'ngMetadataError';\n/**\n * @param {?} message\n * @param {?=} summary\n * @param {?=} advise\n * @param {?=} position\n * @param {?=} symbol\n * @param {?=} context\n * @param {?=} chain\n * @return {?}\n */\nfunction metadataError(message,\nsummary, advise, position, symbol, context, chain) {\n    var /** @type {?} */ error = /** @type {?} */\n(syntaxError(message));\n    (** @type {?} */ (error))[METADATA_ERROR] = true;\n    if (advise)\nerror.advise = advise;\n    if (position)\n        error.position = position;\n    if (summary)\n        error.summary =\nsummary;\n    if (context)\n        error.context = context;\n    if (chain)\n        error.chain = chain;\n    if (symbol)\n        error.symbol = symbol;\n    return error;\n}\n\n/**\n * @param {?} error\n * @return {?}\n */\nfunction\nisMetadataError(error) {\n    return !!(/** @type {?} */ (error))[METADATA_ERROR];\n}\n\nvar\nREFERENCE_TO_NONEXPORTED_CLASS = 'Reference to non-exported class';\nvar\nVARIABLE_NOT_INITIALIZED = 'Variable not initialized';\nvar DESTRUCTURE_NOT_SUPPORTED =\n'Destructuring not supported';\nvar COULD_NOT_RESOLVE_TYPE = 'Could not resolve type';\nvar\nFUNCTION_CALL_NOT_SUPPORTED = 'Function call not supported';\nvar\nREFERENCE_TO_LOCAL_SYMBOL = 'Reference to a local symbol';\nvar LAMBDA_NOT_SUPPORTED =\n'Lambda not supported';\n\n/**\n * @param {?} message\n * @param {?} context\n * @return {?}\n */\nfunction\nexpandedMessage(message, context) {\n    switch (message) {\n        case\nREFERENCE_TO_NONEXPORTED_CLASS:\n                if (context && context.className) {\n                return\n                \"References to a non-exported class are not supported in decorators but \" + context.className + \" was\nreferenced.\";\n                }\n                break;\n        case VARIABLE_NOT_INITIALIZED:\n                return 'Only\ninitialized variables and constants can be referenced in decorators because the value of this variable is needed by the\ntemplate compiler';\n        case DESTRUCTURE_NOT_SUPPORTED:\n                return 'Referencing an exported\ndestructured variable or constant is not supported in decorators and this value is needed by the template compiler';\n    }\n}

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    case COULD_NOT_RESOLVE_TYPE:\n        if (context && context.typeName) {\n            return \"Could
not resolve type \" + context.typeName;\n        }\n        break;\n        case
FUNCTION_CALL_NOT_SUPPORTED:\n        if (context && context.name) {\n            return \"Function
calls are not supported in decorators but \" + context.name + \" was called\";\n        }\n        return 'Function
calls are not supported in decorators';\n        case REFERENCE_TO_LOCAL_SYMBOL:\n        if (context &&
context.name) {\n            return \"Reference to a local (non-exported) symbols are not supported in decorators but
\" + context.name + \" was referenced\";\n        }\n        break;\n        case LAMBDA_NOT_SUPPORTED:\n
return \"Function expressions are not supported in decorators\";\n    }\n    return message;\n}\n\n/**\n * @param
{?} message\n * @param {?} context\n * @return {?}\n */\nfunction messageAdvise(message, context) {\n
switch (message) {\n    case REFERENCE_TO_NONEXPORTED_CLASS:\n        if (context &&
context.className) {\n            return \"Consider exporting \" + context.className + \"\";\n        }\n
break;\n    case DESTRUCTURE_NOT_SUPPORTED:\n        return 'Consider simplifying to avoid
destructuring';\n    case REFERENCE_TO_LOCAL_SYMBOL:\n        if (context && context.name) {\n
return \"Consider exporting \" + context.name + \"\";\n        }\n        break;\n    case
LAMBDA_NOT_SUPPORTED:\n        return \"Consider changing the function expression into an exported
function\";\n    }\n    return undefined;\n}\n\n/**\n * @param {?} error\n * @return {?}\n */\nfunction
errorSummary(error) {\n    if (error.summary) {\n        return error.summary;\n    }\n    switch (error.message) {\n
case REFERENCE_TO_NONEXPORTED_CLASS:\n        if (error.context && error.context.className) {\n
return \"references non-exported class \" + error.context.className;\n        }\n        break;\n    case
VARIABLE_NOT_INITIALIZED:\n        return 'is not initialized';\n    case
DESTRUCTURE_NOT_SUPPORTED:\n        return 'is a destructured variable';\n    case
COULD_NOT_RESOLVE_TYPE:\n        return 'could not be resolved';\n    case
FUNCTION_CALL_NOT_SUPPORTED:\n        if (error.context && error.context.name) {\n            return
\"calls \" + error.context.name + \"\";\n        }\n        return \"calls a function\";\n    case
REFERENCE_TO_LOCAL_SYMBOL:\n        if (error.context && error.context.name) {\n            return
\"references local variable \" + error.context.name;\n        }\n        return \"references a local variable\";\n    }\n
return 'contains the error';\n}\n\n/**\n * @param {?} input\n * @param {?} transform\n * @return {?}\n */\nfunction
mapStringMap(input, transform) {\n    if (!input)\n        return {};\n    var /** @type {?} */ result = {};\n    Object.keys(input).forEach(function (key) {\n        var /** @type {?} */ value = transform(input[key], key);\n        if
(!shouldIgnore(value)) {\n            if (HIDDEN_KEY.test(key)) {\n                Object.defineProperty(result, key, {\n
enumerable: false, configurable: true, value: value });\n            }\n            else {\n                result[key] = value;\n
            }\n        }\n    });\n    return result;\n}\n\n/**\n * @param {?} o\n * @return {?}\n */\nfunction
isPrimitive(o) {\n    return o === null || (typeof o !== 'function' && typeof o !== 'object');\n}\n\n/**\n * @abstract\n * @nvar BindingScope
= /** @class */ (function () {\n    function BindingScope() {\n    }\n    /**\n     * @return {?}\n     */\n    BindingScope.build = /**\n     * @return {?}\n     */\n     function () {\n        var /** @type {?} */ current = new
Map();\n        return {\n            define: function (name, value) {\n                current.set(name, value);\n
            },\n            done: function () {\n                return current.size > 0 ? new PopulatedScope(current)\n                : BindingScope.empty;\n            }\n        };;\n    };;\n    BindingScope.missing = {};\n    BindingScope.empty = {\n
resolve: function (name) {\n        return BindingScope.missing;\n    };;\n    return BindingScope;\n}());\n\nvar PopulatedScope
= /** @class */ (function (_super) {\n    __extends(PopulatedScope, _super);\n    function PopulatedScope(bindings)\n    {\n        var _this = _super.call(this) || this;\n        _this.bindings = bindings;\n        return _this;\n    }\n    /**\n     *
@param {?} name\n     * @return {?}\n     */\n    PopulatedScope.prototype.resolve = /**\n     * @param {?}
name\n     * @return {?}\n     */\n     function (name) {\n        return this.bindings.has(name) ?
this.bindings.get(name) : BindingScope.missing;\n    };;\n    return PopulatedScope;\n})(BindingScope);\n\n/**\n *
@param {?} chain\n * @param {?} advise\n * @return {?}\n */\nfunction formatMetadataMessageChain(chain,
advise) {\n    var /** @type {?} */ expanded = expandedMessage(chain.message, chain.context);\n    var /** @type
{?} */ nesting = chain.symbol ? \" in \" + chain.symbol.name + \"\" : \"\";\n    var /** @type {?} */ message = \"\" +
expanded + nesting;\n    var /** @type {?} */ position = chain.position;\n    var /** @type {?} */ next = chain.next

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?\\n    formatMetadataMessageChain(chain.next, advise) :\\n    advise ? { message: advise } : undefined;\\n
return { message: message, position: position, next: next };\\n}\\n/**\\n * @param {?} e\\n * @param {?} context\\n *
@return {?}\\n */function formatMetadataError(e, context) {\\n    if (isMetadataError(e)) {\\n        // Produce a
formatted version of the and leaving enough information in the original error\\n        // to recover the formatting
information to eventually produce a diagnostic error message.\\n        var /** @type {?} */ position = e.position;\\n
var /** @type {?} */ chain = {\\n            message: "Error during template compile of \"" + context.name + "\"",\\n
            position: position,\\n            next: { message: e.message, next: e.chain, context: e.context, symbol: e.symbol }\\n
        };\\n        var /** @type {?} */ advise = e.advise || messageAdvise(e.message, e.context);\\n        return
formattedError(formatMetadataMessageChain(chain, advise));\\n    }\\n    return e;\\n}\\n}\\n/**\\n * @fileoverview
added by tsickle\\n * @suppress {checkTypes} checked by tsc\\n */\\n/**\\n * @license\\n * Copyright Google Inc. All
Rights Reserved.\\n *\\n * Use of this source code is governed by an MIT-style license that can be\\n * found in the
LICENSE file at https://angular.io/license\\n */\\n/**\\n * @record\\n */\\nvar AotSummaryResolver = /** @class */
(function () {\\n    function AotSummaryResolver(host, staticSymbolCache) {\\n        this.host = host;\\n
this.staticSymbolCache = staticSymbolCache;\\n        this.summaryCache = new Map();\\n        this.loadedFilePaths =
new Map();\\n        this.importAs = new Map();\\n        this.knownFileNameToModuleNames = new Map();\\n    }\\n
/**\\n     * @param {?} filePath\\n     * @return {?}\\n     */\\n    AotSummaryResolver.prototype.isLibraryFile = /**\\n
     * @param {?} filePath\\n     * @return {?}\\n     */\\n     *\\n     * @param {?} filePath {\\n     * // Note: We need to strip the
.ngfactory. file path,\\n     * // so this method also works for generated files\\n     * // (for which host.isSourceFile will
always return false).\\n     * return !this.host.isSourceFile(stripGeneratedFileSuffix(filePath));\\n     * };\\n     */\\n     *
@param {?} filePath\\n     * @param {?} referringSrcFileName\\n     * @return {?}\\n     */\\n     *\\n
AotSummaryResolver.prototype.toSummaryFileName = /**\\n     * @param {?} filePath\\n     * @param {?}
referringSrcFileName\\n     * @return {?}\\n     */\\n     *\\n     * @param {?} filePath, referringSrcFileName {\\n     * return
this.host.toSummaryFileName(filePath, referringSrcFileName);\\n     * };\\n     */\\n     * @param {?} fileName\\n     *
@param {?} referringLibFileName\\n     * @return {?}\\n     */\\n     *\\n
AotSummaryResolver.prototype.fromSummaryFileName = /**\\n     * @param {?} fileName\\n     * @param {?}
referringLibFileName\\n     * @return {?}\\n     */\\n     *\\n     * @param {?} fileName, referringLibFileName {\\n     * return
this.host.fromSummaryFileName(fileName, referringLibFileName);\\n     * };\\n     */\\n     * @param {?}
staticSymbol\\n     * @return {?}\\n     */\\n     *\\n     * @param {?} staticSymbol {\\n     * var /** @type {?} */ rootSymbol =
staticSymbol.members.length ?\\n     * this.staticSymbolCache.get(staticSymbol.filePath, staticSymbol.name) :\\n
staticSymbol;\\n     * var /** @type {?} */ summary = this.summaryCache.get(rootSymbol);\\n     * if
(!summary) {\\n     *     this._loadSummaryFile(staticSymbol.filePath);\\n     *     summary = /** @type {?} */
((this.summaryCache.get(staticSymbol)));\\n     * }\\n     * return (rootSymbol === staticSymbol && summary) ||
null;\\n     * };\\n     */\\n     * @param {?} filePath\\n     * @return {?}\\n     */\\n     *\\n
AotSummaryResolver.prototype.getSymbolsOf = /**\\n     * @param {?} filePath\\n     * @return {?}\\n     */\\n     *\\n
function (filePath) {\\n     * if (this._loadSummaryFile(filePath)) {\\n     *     return
Array.from(this.summaryCache.keys()).filter(function (symbol) { return symbol.filePath === filePath; });\\n     * }\\n
return null;\\n     * };\\n     */\\n     * @param {?} staticSymbol\\n     * @return {?}\\n     */\\n     *\\n
AotSummaryResolver.prototype.getImportAs = /**\\n     * @param {?} staticSymbol\\n     * @return {?}\\n     */\\n     *\\n
function (staticSymbol) {\\n     * staticSymbol.assertNoMembers();\\n     * return /** @type {?} */
((this.importAs.get(staticSymbol)));\\n     * };\\n     */\\n     * Converts a file path to a module name that can be used as
an `import`.\\n     *\\n     * Converts a file path to a module name that can be used as an `import`.\\n     *
@param {?} importedFilePath\\n     * @return {?}\\n     */\\n     *\\n
AotSummaryResolver.prototype.getKnownModuleName = /**\\n     * Converts a file path to a module name that can
be used as an `import`.\\n     * @param {?} importedFilePath\\n     * @return {?}\\n     */\\n     *\\n     * @param {?} importedFilePath {\\n     * return
this.knownFileNameToModuleNames.get(importedFilePath) || null;\\n     * };\\n     */\\n     * @param {?} summary\\n     *
@return {?}\\n     */\\n     *\\n     * @param {?} summary\\n     * @return {?}\\n     */\\n     *\\n     * @param {?} summary {\\n
}

```

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this.summaryCache.set(summary.symbol, summary); };
/**
 * @param {?} filePath
 * @return {?}
 */
AotSummaryResolver.prototype._loadSummaryFile = /**
 * @param {?} filePath
 * @return {?}
 */
function (filePath) {
  var _this = this;
  var /** @type {?} */ hasSummary =
this.loadedFilePaths.get(filePath);
  if (hasSummary != null) {
    return hasSummary;
  }
  var
/** @type {?} */ json = null;
  if (this.isLibraryFile(filePath)) {
    var /** @type {?} */
summaryFilePath = summaryFileName(filePath);
    try {
      json =
this.host.loadSummary(summaryFilePath);
    }
    catch (/** @type {?} */ e) {
      console.error("Error loading summary file " + summaryFilePath);
      throw e;
    }
  }
  hasSummary = json != null;
  this.loadedFilePaths.set(filePath, hasSummary);
  if (json) {
    var _a
= deserializeSummaries(this.staticSymbolCache, this, filePath, json),
moduleName = _a.moduleName,
summaries =
_a.summaries,
importAs = _a.importAs;
    summaries.forEach(function (summary) {
      return
_this.summaryCache.set(summary.symbol, summary);
    });
    if (moduleName) {
      this.knownFileNameToModuleNames.set(filePath, moduleName);
    }
    importAs.forEach(function
(importAs) {
      _this.importAs.set(importAs.symbol, importAs.importAs);
    });
    return hasSummary;
  }
};
return AotSummaryResolver;
})();
/**
 * @fileoverview added by tsickle
 * @suppress {checkTypes}
checked by tsc
 * @license
 * Copyright Google Inc. All Rights Reserved.
 * Use of this source
code is governed by an MIT-style license that can be
 * found in the LICENSE file at https://angular.io/license
 *
 * @param {?} host
 * @return {?}
 */
function createAotUrlResolver(host) {
  return {
    resolve: function (basePath, url) {
      var /** @type {?} */ filePath = host.resourceNameToFileName(url,
basePath);
      if (!filePath) {
        throw syntaxError("Couldn't resolve resource " + url + " from " +
basePath);
      }
      return filePath;
    }
  };
}
/**
 * Creates a new AotCompiler based on
options and a host.
 * @param {?} compilerHost
 * @param {?} options
 * @param {=} errorCollector
 * @return {?}
 */
function createAotCompiler(compilerHost, options, errorCollector) {
  var /** @type {?} */
translations = options.translations || "";
  var /** @type {?} */ urlResolver =
createAotUrlResolver(compilerHost);
  var /** @type {?} */ symbolCache = new StaticSymbolCache();
  var /** @type {?} */ summaryResolver = new AotSummaryResolver(compilerHost, symbolCache);
  var /** @type {?} */ symbolResolver = new StaticSymbolResolver(compilerHost, symbolCache, summaryResolver);
  var /** @type {?} */ staticReflector = new StaticReflector(summaryResolver, symbolResolver, [], [], errorCollector);
  var /** @type {?} */ htmlParser = new I18NHtmlParser(new HtmlParser(), translations, options.i18nFormat,
options.missingTranslation, console);
  var /** @type {?} */ config = new CompilerConfig({
defaultEncapsulation: ViewEncapsulation.Emulated,
useJit: false,
enableLegacyTemplate:
options.enableLegacyTemplate === true,
missingTranslation: options.missingTranslation,
preserveWhitespaces: options.preserveWhitespaces,
strictInjectionParameters:
options.strictInjectionParameters,
});
  var /** @type {?} */ normalizer = new DirectiveNormalizer({
get: function (url) {
return compilerHost.loadResource(url);
},
urlResolver,
htmlParser,
config});
  var /** @type {?} */ expressionParser = new Parser(new Lexer());
  var /** @type {?} */ elementSchemaRegistry = new
DomElementSchemaRegistry();
  var /** @type {?} */ tmplParser = new TemplateParser(config, staticReflector,
expressionParser, elementSchemaRegistry, htmlParser, console, []);
  var /** @type {?} */ resolver = new
CompileMetadataResolver(config, htmlParser, new NgModuleResolver(staticReflector), new
DirectiveResolver(staticReflector), new PipeResolver(staticReflector), summaryResolver, elementSchemaRegistry,
normalizer, console, symbolCache, staticReflector, errorCollector);
  // TODO(vicb): do not pass
options.i18nFormat here
  var /** @type {?} */ viewCompiler = new ViewCompiler(staticReflector);
  var /** @type {?} */ typeCheckCompiler = new TypeCheckCompiler(options, staticReflector);
  var /** @type {?} */
compiler = new AotCompiler(config, options, compilerHost, staticReflector, resolver, tmplParser, new
StyleCompiler(urlResolver), viewCompiler, typeCheckCompiler, new NgModuleCompiler(staticReflector), new
TypeScriptEmitter(), summaryResolver, symbolResolver);
  return {
    compiler: compiler,
    reflector: staticReflector
  };
}
/**
 * @fileoverview added by tsickle
 * @suppress {checkTypes}
checked by tsc
 *
 * @record
 * @abstract
 */
var SummaryResolver = /** @class */ (function () {
  function

```

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SummaryResolver() {\n  }\n  return SummaryResolver;\n})();\nvar JitSummaryResolver = /** @class */
(function () {\n  function JitSummaryResolver() {\n    this._summaries = new Map();\n  }\n  /**\n   *
  @return {?}\n   *\n   *\n   * JitSummaryResolver.prototype.isLibraryFile = /**\n   * @return {?}\n   *\n   *\n   * function ()
  { return false; };\n  /**\n   * @param {?} fileName\n   * @return {?}\n   *\n   *\n   * JitSummaryResolver.prototype.toSummaryFileName = /**\n   * @param {?} fileName\n   * @return {?}\n   *\n   *\n   * function (fileName) { return fileName; };\n  /**\n   * @param {?} fileName\n   * @return {?}\n   *\n   *\n   * JitSummaryResolver.prototype.fromSummaryFileName = /**\n   * @param {?} fileName\n   * @return {?}\n   *\n   *\n   * function (fileName) { return fileName; };\n  /**\n   * @param {?} reference\n   * @return {?}\n   *\n   *\n   * JitSummaryResolver.prototype.resolveSummary = /**\n   * @param {?} reference\n   * @return {?}\n   *\n   *\n   * function (reference) {\n    return this._summaries.get(reference) || null;\n  };\n  /**\n   * @return {?}\n   *\n   *\n   * JitSummaryResolver.prototype.getSymbolsOf = /**\n   * @return {?}\n   *\n   *\n   * function () { return []; };\n  /**\n   * @param {?} reference\n   * @return {?}\n   *\n   *\n   * JitSummaryResolver.prototype.getImportAs = /**\n   * @param {?} reference\n   * @return {?}\n   *\n   *\n   * function (reference) { return reference; };\n  /**\n   *
  @param {?} fileName\n   * @return {?}\n   *\n   *\n   * JitSummaryResolver.prototype.getKnownModuleName =
  /**\n   * @param {?} fileName\n   * @return {?}\n   *\n   *\n   * function (fileName) { return null; };\n  /**\n   *
  @param {?} summary\n   * @return {?}\n   *\n   *\n   * JitSummaryResolver.prototype.addSummary = /**\n   *
  @param {?} summary\n   * @return {?}\n   *\n   *\n   * function (summary) { this._summaries.set(summary.symbol,
  summary); };\n  return JitSummaryResolver;\n})();\n\n/**\n * @fileoverview added by tsickle\n * @suppress
  {checkTypes} checked by tsc\n */\n\n/**\n * @license\n * Copyright Google Inc. All Rights Reserved.\n *\n * Use of
  this source code is governed by an MIT-style license that can be\n * found in the LICENSE file at
  https://angular.io/license\n */\n\n/**\n * @param {?} statements\n * @param {?} reflector\n * @return {?}\n */\n
function interpretStatements(statements, reflector) {\n  var /** @type {?} */ ctx = new
  _ExecutionContext(null, null, null, new Map());\n  var /** @type {?} */ visitor = new
  StatementInterpreter(reflector);\n  visitor.visitAllStatements(statements, ctx);\n  var /** @type {?} */ result =
  {};\n  ctx.exports.forEach(function (exportName) { result[exportName] = ctx.vars.get(exportName); });\n  return
  result;\n}\n\n/**\n * @param {?} varNames\n * @param {?} varValues\n * @param {?} statements\n * @param {?}
  ctx\n * @param {?} visitor\n * @return {?}\n */\n
function _executeFunctionStatements(varNames, varValues,
  statements, ctx, visitor) {\n  var /** @type {?} */ childCtx = ctx.createChildWithLocalVars();\n  for (var /**
  @type {?} */ i = 0; i < varNames.length; i++) {\n    childCtx.vars.set(varNames[i], varValues[i]);\n  }\n  var
  /** @type {?} */ result = visitor.visitAllStatements(statements, childCtx);\n  return result ? result.value :
  null;\n}\n\nvar _ExecutionContext = /** @class */ (function () {\n  function _ExecutionContext(parent, instance,
  className, vars) {\n    this.parent = parent;\n    this.instance = instance;\n    this.className = className;\n    this.vars = vars;\n    this.exports = [];\n  }\n  /**\n   * @return {?}\n   *\n   *\n   *\n   * _ExecutionContext.prototype.createChildWithLocalVars = /**\n   * @return {?}\n   *\n   *\n   *\n   * function () {\n  return new _ExecutionContext(this, this.instance, this.className, new Map());\n  };\n  return
  _ExecutionContext;\n})();\n\nvar ReturnValue = /** @class */ (function () {\n  function ReturnValue(value) {\n    this.value = value;\n  }\n  return ReturnValue;\n})();\n\n/**\n * @param {?} _classStmt\n * @param {?} _ctx\n *
  @param {?} _visitor\n * @return {?}\n */\n
function createDynamicClass(_classStmt, _ctx, _visitor) {\n  var /**
  @type {?} */ propertyDescriptors = {};\n  _classStmt.getters.forEach(function (getter) {\n    // Note: use
  `function` instead of arrow function to capture `this`\n    propertyDescriptors[getter.name] = {\n
  configurable: false,\n    get: function () {\n      var /** @type {?} */ instanceCtx = new
  _ExecutionContext(_ctx, this, _classStmt.name, _ctx.vars);\n      return _executeFunctionStatements([], [],
  getter.body, instanceCtx, _visitor);\n    }\n  };\n  });\n  _classStmt.methods.forEach(function (method) {\n
  var /** @type {?} */ paramNames = method.params.map(function (param) { return param.name; });\n  // Note: use `function` instead of arrow function to capture `this`\n  propertyDescriptors[/** @type {?} */
  ((method.name))] = {\n    writable: false,\n    configurable: false,\n    value: function () {\n
  var args = [];\n    for (var _i = 0; _i < arguments.length; _i++) {\n      args[_i] = arguments[_i];\n
    }\n    var /** @type {?} */ instanceCtx = new _ExecutionContext(_ctx, this, _classStmt.name,

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_ctx.vars);\n        return _executeFunctionStatements(paramNames, args, method.body, instanceCtx,\n        _visitor);\n    }\n    });\n    var /** @type {?} */ ctorParamNames =\n    _classStmt.constructorMethod.params.map(function (param) { return param.name; });\n    // Note: use `function` instead of arrow function to capture `this`\n    var /** @type {?} */ ctor = function () {\n        var _this = this;\n        var args = [];\n        for (var _i = 0; _i < arguments.length; _i++) {\n            args[_i] = arguments[_i];\n        }\n        var /** @type {?} */ instanceCtx = new _ExecutionContext(_ctx, this, _classStmt.name, _ctx.vars);\n        _classStmt.fields.forEach(function (field) { _this[field.name] = undefined; });\n        _executeFunctionStatements(ctorParamNames, args, _classStmt.constructorMethod.body, instanceCtx, _visitor);\n    };\n    var /** @type {?} */ superClass = _classStmt.parent ? _classStmt.parent.visitExpression(_visitor, _ctx) :\n    Object;\n    ctor.prototype = Object.create(superClass.prototype, propertyDescriptors);\n    return ctor;\n}\n\nvar\nStatementInterpreter = /** @class */ (function () {\n    function StatementInterpreter(reflector) {\n        this.reflector = reflector;\n    }\n    /**\n     * @param {?} ast\n     * @return {?} *\n     */\n    StatementInterpreter.prototype.debugAst = /**\n     * @param {?} ast\n     * @return {?} *\n     */ function (ast) {\n        return debugOutputAstAsTypeScript(ast);\n    };\n    /**\n     * @param {?} stmt\n     * @param {?} ctx\n     * @return {?} *\n     */\n    StatementInterpreter.prototype.visitDeclareVarStmt = /**\n     * @param {?} stmt\n     * @param {?} ctx\n     * @return {?} *\n     */ function (stmt, ctx) {\n        ctx.vars.set(stmt.name, stmt.value.visitExpression(this, ctx));\n        if (stmt.hasModifier(StmtModifier.Exported)) {\n            ctx.exports.push(stmt.name);\n        }\n        return null;\n    };\n    /**\n     * @param {?} expr\n     * @param {?} ctx\n     * @return {?} *\n     */\n    StatementInterpreter.prototype.visitWriteVarExpr = /**\n     * @param {?} expr\n     * @param {?} ctx\n     * @return {?} *\n     */ function (expr, ctx) {\n        var /** @type {?} */ value = expr.value.visitExpression(this, ctx);\n        var /** @type {?} */ currCtx = ctx;\n        while (currCtx != null) {\n            if (currCtx.vars.has(expr.name)) {\n                currCtx.vars.set(expr.name, value);\n                return value;\n            }\n            currCtx = /** @type {?} */ ((currCtx.parent));\n        }\n        throw new Error("Not declared variable \" + expr.name);\n    };\n    /**\n     * @param {?} ast\n     * @param {?} ctx\n     * @return {?} *\n     */\n    StatementInterpreter.prototype.visitReadVarExpr = /**\n     * @param {?} ast\n     * @param {?} ctx\n     * @return {?} *\n     */ function (ast, ctx) {\n        var /** @type {?} */ varName = /** @type {?} */ ((ast.name));\n        if (ast.builtin != null) {\n            switch (ast.builtin) {\n                case BuiltinVar.Super:\n                    return ctx.instance.__proto__;\n                case BuiltinVar.This:\n                    return ctx.instance;\n                case BuiltinVar.CatchError:\n                    varName = CATCH_ERROR_VAR$2;\n                    break;\n                case BuiltinVar.CatchStack:\n                    varName = CATCH_STACK_VAR$2;\n                    break;\n                default:\n                    throw new Error("Unknown builtin variable \" + ast.builtin);\n            }\n        }\n        var /** @type {?} */ currCtx = ctx;\n        while (currCtx != null) {\n            if (currCtx.vars.has(varName)) {\n                return currCtx.vars.get(varName);\n            }\n            currCtx = /** @type {?} */ ((currCtx.parent));\n        }\n        throw new Error("Not declared variable \" + varName);\n    };\n    /**\n     * @param {?} expr\n     * @param {?} ctx\n     * @return {?} *\n     */\n    StatementInterpreter.prototype.visitWriteKeyExpr = /**\n     * @param {?} expr\n     * @param {?} ctx\n     * @return {?} *\n     */ function (expr, ctx) {\n        var /** @type {?} */ receiver = expr.receiver.visitExpression(this, ctx);\n        var /** @type {?} */ index = expr.index.visitExpression(this, ctx);\n        var /** @type {?} */ value = expr.value.visitExpression(this, ctx);\n        receiver[index] = value;\n        return value;\n    };\n    /**\n     * @param {?} expr\n     * @param {?} ctx\n     * @return {?} *\n     */\n    StatementInterpreter.prototype.visitWritePropExpr = /**\n     * @param {?} expr\n     * @param {?} ctx\n     * @return {?} *\n     */ function (expr, ctx) {\n        var /** @type {?} */ receiver = expr.receiver.visitExpression(this, ctx);\n        var /** @type {?} */ value = expr.value.visitExpression(this, ctx);\n        receiver[expr.name] = value;\n        return value;\n    };\n    /**\n     * @param {?} expr\n     * @param {?} ctx\n     * @return {?} *\n     */\n    StatementInterpreter.prototype.visitInvokeMethodExpr = /**\n     * @param {?} expr\n     * @param {?} ctx\n     * @return {?} *\n     */ function (expr, ctx) {\n        var /** @type {?} */ receiver = expr.receiver.visitExpression(this, ctx);\n        var /** @type {?} */ args = this.visitAllExpressions(expr.args, ctx);\n        var /** @type {?} */ result;\n        if (expr.builtin != null) {\n            switch (expr.builtin) {\n                case BuiltinMethod.ConcatArray:\n                    result = receiver.concat.apply(receiver, args);\n                    break;\n            }\n        }\n    }\n}

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    case BuiltinMethod.SubscribeObservable:\n                result = receiver.subscribe({ next: args[0] });\n
    break;\n        case BuiltinMethod.Bind:\n                result = receiver.bind.apply(receiver, args);\n
    break;\n        default:\n                throw new Error("Unknown builtin method \" + expr.builtin);\n                }\n
    }\n    else {\n        result = receiver[/** @type {?} */ ((expr.name)).apply(receiver, args);\n    }\n
    return result;\n    };\n    /**\n     * @param {?} stmt\n     * @param {?} ctx\n     * @return {?} \n     */\n
    StatementInterpreter.prototype.visitInvokeFunctionExpr = /**\n     * @param {?} stmt\n     * @param {?} ctx\n     * @return {?} \n     */\n
    function (stmt, ctx) {\n        var /** @type {?} */ args = this.visitAllExpressions(stmt.args,\n        ctx);\n        var /** @type {?} */ fnExpr = stmt.fn;\n        if (fnExpr instanceof ReadVarExpr && fnExpr.builtin ===\n        BuiltinVar.Super) {\n            ctx.instance.constructor.prototype.constructor.apply(ctx.instance, args);\n            return\n            null;\n        }\n        else {\n            var /** @type {?} */ fn$$1 = stmt.fn.visitExpression(this, ctx);\n            return\n            fn$$1.apply(null, args);\n        }\n    };\n    /**\n     * @param {?} stmt\n     * @param {?} ctx\n     * @return {?} \n     */\n
    StatementInterpreter.prototype.visitReturnStmt = /**\n     * @param {?} stmt\n     * @param {?} ctx\n     * @return {?} \n     */\n
    function (stmt, ctx) {\n        return new ReturnValue(stmt.value.visitExpression(this, ctx));\n    };\n    /**\n     * @param {?} stmt\n     * @param {?} ctx\n     * @return {?} \n     */\n
    StatementInterpreter.prototype.visitDeclareClassStmt = /**\n     * @param {?} stmt\n     * @param {?} ctx\n     * @return {?} \n     */\n
    function (stmt, ctx) {\n        var /** @type {?} */ clazz = createDynamicClass(stmt, ctx,\n        this);\n        ctx.vars.set(stmt.name, clazz);\n        if (stmt.hasModifier(StmtModifier.Exported)) {\n            ctx.exports.push(stmt.name);\n        }\n        return null;\n    };\n    /**\n     * @param {?} stmt\n     * @param {?} ctx\n     * @return {?} \n     */\n
    StatementInterpreter.prototype.visitExpressionStmt = /**\n     * @param {?} stmt\n     * @param {?} ctx\n     * @return {?} \n     */\n
    function (stmt, ctx) {\n        return\n        stmt.expr.visitExpression(this, ctx);\n    };\n    /**\n     * @param {?} stmt\n     * @param {?} ctx\n     * @return {?} \n     */\n
    StatementInterpreter.prototype.visitIfStmt = /**\n     * @param {?} stmt\n     * @param {?} ctx\n     * @return {?} \n     */\n
    function (stmt, ctx) {\n        var /** @type {?} */ condition =\n        stmt.condition.visitExpression(this, ctx);\n        if (condition) {\n            return this.visitAllStatements(stmt.trueCase,\n            ctx);\n        }\n        else if (stmt.falseCase != null) {\n            return this.visitAllStatements(stmt.falseCase, ctx);\n        }\n        return null;\n    };\n    /**\n     * @param {?} stmt\n     * @param {?} ctx\n     * @return {?} \n     */\n
    StatementInterpreter.prototype.visitTryCatchStmt = /**\n     * @param {?} stmt\n     * @param {?} ctx\n     * @return {?} \n     */\n
    function (stmt, ctx) {\n        try {\n            return this.visitAllStatements(stmt.bodyStmts,\n            ctx);\n        }\n        catch (** @type {?} */ e) {\n            var /** @type {?} */ childCtx =\n            ctx.createChildWithLocalVars();\n            childCtx.vars.set(CATCH_ERROR_VAR$2, e);\n            childCtx.vars.set(CATCH_STACK_VAR$2, e.stack);\n            return this.visitAllStatements(stmt.catchStmts,\n            childCtx);\n        }\n    };\n    /**\n     * @param {?} stmt\n     * @param {?} ctx\n     * @return {?} \n     */\n
    StatementInterpreter.prototype.visitThrowStmt = /**\n     * @param {?} stmt\n     * @param {?} ctx\n     * @return {?} \n     */\n
    function (stmt, ctx) {\n        throw stmt.error.visitExpression(this, ctx);\n    };\n    /**\n     * @param\n     * {?=} context\n     * @return {?} \n     */\n
    StatementInterpreter.prototype.visitCommentStmt = /**\n     * @param {?} stmt\n     * @param {?=} context\n     * @return {?} \n     */\n
    function (stmt, context) {\n        return null;\n    };\n    /**\n     * @param {?} ast\n     * @param {?} ctx\n     * @return {?} \n     */\n
    StatementInterpreter.prototype.visitInstantiateExpr = /**\n     * @param {?} ast\n     * @param {?} ctx\n     * @return {?} \n     */\n
    function (ast, ctx) {\n        var /** @type {?} */ args =\n        this.visitAllExpressions(ast.args, ctx);\n        var /** @type {?} */ clazz = ast.classExpr.visitExpression(this, ctx);\n        return new (clazz.bind.apply(clazz, [void 0].concat(args)));\n    };\n    /**\n     * @param {?} ast\n     * @param\n     * {?=} context\n     * @return {?} \n     */\n
    StatementInterpreter.prototype.visitLiteralExpr = /**\n     * @param {?} ast\n     * @param\n     * {?=} context\n     * @return {?} \n     */\n
    function (ast, ctx) {\n        return ast.value;\n    };\n    /**\n     * @param\n     * {?} ast\n     * @param\n     * {?} ctx\n     * @return\n     * {?} \n     */\n
    StatementInterpreter.prototype.visitExternalExpr = /**\n     * @param\n     * {?} ast\n     * @param\n     * {?} ctx\n     * @return\n     * {?} \n     */\n
    function (ast, ctx) {\n        return\n        this.reflector.resolveExternalReference(ast.value);\n    };\n    /**\n     * @param\n     * {?} ast\n     * @param\n     * {?} ctx\n     * @return\n     * {?} \n     */\n
    StatementInterpreter.prototype.visitConditionalExpr = /**\n     * @param\n     * {?} ast\n     * @param\n     * {?} ctx\n     * @return\n     * {?} \n     */\n
    function (ast, ctx) {\n        if (ast.condition.visitExpression(this, ctx))

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{\n      return ast.trueCase.visitExpression(this, ctx);\n    }\n    else if (ast.falseCase != null) {\n      return
ast.falseCase.visitExpression(this, ctx);\n    }\n    return null;\n  };\n  /**\n   * @param {?} ast\n   * @param {?} ctx\n   * @return {?}\n   */\n  *^ StatementInterpreter.prototype.visitNotExpr = /**\n   * @param {?}
ast\n   * @param {?} ctx\n   * @return {?}\n   */\n  *^ function (ast, ctx) {\n    return
!ast.condition.visitExpression(this, ctx);\n  };\n  /**\n   * @param {?} ast\n   * @param {?} ctx\n   * @return
{?}\n   */\n  *^ StatementInterpreter.prototype.visitAssertNotNullExpr = /**\n   * @param {?} ast\n   * @param
{?} ctx\n   * @return {?}\n   */\n  *^ function (ast, ctx) {\n    return ast.condition.visitExpression(this, ctx);\n
};\n  /**\n   * @param {?} ast\n   * @param {?} ctx\n   * @return {?}\n   */\n  *^
StatementInterpreter.prototype.visitCastExpr = /**\n   * @param {?} ast\n   * @param {?} ctx\n   * @return
{?}\n   */\n  *^ function (ast, ctx) {\n    return ast.value.visitExpression(this, ctx);\n  };\n  /**\n   * @param {?}
ast\n   * @param {?} ctx\n   * @return {?}\n   */\n  *^ StatementInterpreter.prototype.visitFunctionExpr = /**\n
   * @param {?} ast\n   * @param {?} ctx\n   * @return {?}\n   */\n  *^ function (ast, ctx) {\n    var /** @type {?}
*/ paramNames = ast.params.map(function (param) { return param.name; });\n    return _declareFn(paramNames,
ast.statements, ctx, this);\n  };\n  /**\n   * @param {?} stmt\n   * @param {?} ctx\n   * @return {?}\n   */\n  *^
StatementInterpreter.prototype.visitDeclareFunctionStmt = /**\n   * @param {?} stmt\n   * @param {?} ctx\n
   * @return {?}\n   */\n  *^ function (stmt, ctx) {\n    var /** @type {?} */ paramNames =
stmt.params.map(function (param) { return param.name; });\n    ctx.vars.set(stmt.name, _declareFn(paramNames,
stmt.statements, ctx, this));\n    if (stmt.hasModifier(StmtModifier.Exported)) {\n
ctx.exports.push(stmt.name);\n    }\n    return null;\n  };\n  /**\n   * @param {?} ast\n   * @param {?}
ctx\n   * @return {?}\n   */\n  *^ StatementInterpreter.prototype.visitBinaryOperatorExpr = /**\n   * @param {?}
ast\n   * @param {?} ctx\n   * @return {?}\n   */\n  *^ function (ast, ctx) {\n    var _this = this;\n    var /**
@type {?} */ lhs = function () { return ast.lhs.visitExpression(_this, ctx); };\n    var /** @type {?} */ rhs =
function () { return ast.rhs.visitExpression(_this, ctx); };\n    switch (ast.operator) {\n      case
BinaryOperator.Equals:\n        return lhs() == rhs();\n      case BinaryOperator.Idential:\n        return
lhs() === rhs();\n      case BinaryOperator.NotEquals:\n        return lhs() != rhs();\n      case
BinaryOperator.NotIdentical:\n        return lhs() !== rhs();\n      case BinaryOperator.And:\n        return
lhs() && rhs();\n      case BinaryOperator.Or:\n        return lhs() || rhs();\n      case
BinaryOperator.Plus:\n        return lhs() + rhs();\n      case BinaryOperator.Minus:\n        return lhs() -
rhs();\n      case BinaryOperator.Divide:\n        return lhs() / rhs();\n      case BinaryOperator.Multiply:\n
        return lhs() * rhs();\n      case BinaryOperator.Modulo:\n        return lhs() % rhs();\n      case
BinaryOperator.Lower:\n        return lhs() < rhs();\n      case BinaryOperator.LowerEquals:\n        return
lhs() <= rhs();\n      case BinaryOperator.Bigger:\n        return lhs() > rhs();\n      case
BinaryOperator.BiggerEquals:\n        return lhs() >= rhs();\n      default:\n        throw new
Error("Unknown operator " + ast.operator);\n    }\n  };\n  /**\n   * @param {?} ast\n   * @param {?} ctx\n
   * @return {?}\n   */\n  *^ StatementInterpreter.prototype.visitReadPropExpr = /**\n   * @param {?} ast\n   *
@param {?} ctx\n   * @return {?}\n   */\n  *^ function (ast, ctx) {\n    var /** @type {?} */ result;\n    var /**
@type {?} */ receiver = ast.receiver.visitExpression(this, ctx);\n    result = receiver[ast.name];\n    return
result;\n  };\n  /**\n   * @param {?} ast\n   * @param {?} ctx\n   * @return {?}\n   */\n  *^
StatementInterpreter.prototype.visitReadKeyExpr = /**\n   * @param {?} ast\n   * @param {?} ctx\n   *
@return {?}\n   */\n  *^ function (ast, ctx) {\n    var /** @type {?} */ receiver = ast.receiver.visitExpression(this,
ctx);\n    var /** @type {?} */ prop = ast.index.visitExpression(this, ctx);\n    return receiver[prop];\n  };\n
/**\n   * @param {?} ast\n   * @param {?} ctx\n   * @return {?}\n   */\n  *^
StatementInterpreter.prototype.visitLiteralArrayExpr = /**\n   * @param {?} ast\n   * @param {?} ctx\n   *
@return {?}\n   */\n  *^ function (ast, ctx) {\n    return this.visitAllExpressions(ast.entries, ctx);\n  };\n  /**\n
   * @param {?} ast\n   * @param {?} ctx\n   * @return {?}\n   */\n  *^
StatementInterpreter.prototype.visitLiteralMapExpr = /**\n   * @param {?} ast\n   * @param {?} ctx\n   *
@return {?}\n   */\n  *^ function (ast, ctx) {\n    var _this = this;\n    var /** @type {?} */ result = {};\n
ast.entries.forEach(function (entry) { return result[entry.key] = entry.value.visitExpression(_this, ctx); });\n
}

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return result;\n  });\n  /**\n   * @param {?} ast\n   * @param {?} context\n   * @return {?}\n   */\n  StatementInterpreter.prototype.visitCommaExpr = /**\n   * @param {?} ast\n   * @param {?} context\n   * @return {?}\n   */\n   function (ast, context) {\n    var /** @type {?} */ values =\n    this.visitAllExpressions(ast.parts, context);\n    return values[values.length - 1];\n  });\n  /**\n   * @param {?} expressions\n   * @param {?} ctx\n   * @return {?}\n   */\n  StatementInterpreter.prototype.visitAllExpressions = /**\n   * @param {?} expressions\n   * @param {?} ctx\n   * @return {?}\n   */\n   function (expressions, ctx) {\n    var _this = this;\n    return expressions.map(function (expr) { return expr.visitExpression(_this, ctx); });\n  });\n  /**\n   * @param {?} statements\n   * @param {?} ctx\n   * @return {?}\n   */\n  StatementInterpreter.prototype.visitAllStatements = /**\n   * @param {?} statements\n   * @param {?} ctx\n   * @return {?}\n   */\n   function (statements, ctx) {\n    for (var /** @type {?} */ i = 0; i < statements.length; i++) {\n      var /** @type {?} */ stmt = statements[i];\n      var /** @type {?} */ val = stmt.visitStatement(this, ctx);\n      if (val instanceof ReturnValue) {\n        return val;\n      }\n      return null;\n    }\n  });\n  return StatementInterpreter;\n})();\n\n/**\n * @param {?} varNames\n * @param {?} statements\n * @param {?} ctx\n * @param {?} visitor\n * @return {?}\n */\nfunction _declareFn(varNames, statements, ctx, visitor) {\n  return function () {\n    var args = [];\n    for (var _i = 0; _i < arguments.length; _i++) {\n      args[_i] = arguments[_i];\n    }\n    return _executeFunctionStatements(varNames, args, statements, ctx, visitor);\n  };\n}\n\nvar CATCH_ERROR_VAR$2 = 'error';\nvar CATCH_STACK_VAR$2 = 'stack';\n\n/**\n * @fileoverview\n * added by tsickle\n * @suppress {checkTypes} checked by tsc\n */\n\n/**\n * @license\n * Copyright Google Inc. All Rights Reserved.\n * Use of this source code is governed by an MIT-style license that can be found in the LICENSE file at https://angular.io/license\n */\n\n/**\n * @abstract\n */\nvar AbstractJsEmitterVisitor = /** @class */\n(function (_super) {\n  __extends(AbstractJsEmitterVisitor, _super);\n  function AbstractJsEmitterVisitor() {\n    return _super.call(this, false) || this;\n  }\n  /**\n   * @param {?} stmt\n   * @param {?} ctx\n   * @return {?}\n   */\n  AbstractJsEmitterVisitor.prototype.visitDeclareClassStmt = /**\n   * @param {?} stmt\n   * @param {?} ctx\n   * @return {?}\n   */\n   function (stmt, ctx) {\n    var _this = this;\n    ctx.pushClass(stmt);\n    this._visitClassConstructor(stmt, ctx);\n    if (stmt.parent != null) {\n      ctx.print(stmt, stmt.name + \".prototype = Object.create(\\");\n      stmt.parent.visitExpression(this, ctx);\n      ctx.println(stmt, \".prototype);\\");\n    }\n    stmt.getters.forEach(function (getter) { return _this._visitClassGetter(stmt, getter, ctx); });\n    stmt.methods.forEach(function (method) { return _this._visitClassMethod(stmt, method, ctx); });\n    ctx.popClass();\n    return null;\n  });\n  /**\n   * @param {?} stmt\n   * @param {?} ctx\n   * @return {?}\n   */\n  AbstractJsEmitterVisitor.prototype._visitClassConstructor = /**\n   * @param {?} stmt\n   * @param {?} ctx\n   * @return {?}\n   */\n   function (stmt, ctx) {\n    ctx.print(stmt, \"function \" + stmt.name + \"(\\");\n    if (stmt.constructorMethod != null) {\n      this._visitParams(stmt.constructorMethod.params, ctx);\n    }\n    ctx.println(stmt, \") {\\");\n    ctx.incIndent();\n    if (stmt.constructorMethod != null) {\n      if (stmt.constructorMethod.body.length > 0) {\n        ctx.println(stmt, \"var self = this;\\");\n        this.visitAllStatements(stmt.constructorMethod.body, ctx);\n      }\n    }\n    ctx.decIndent();\n    ctx.println(stmt, \")};\\");\n  });\n  /**\n   * @param {?} stmt\n   * @param {?} getter\n   * @param {?} ctx\n   * @return {?}\n   */\n  AbstractJsEmitterVisitor.prototype._visitClassGetter = /**\n   * @param {?} stmt\n   * @param {?} getter\n   * @param {?} ctx\n   * @return {?}\n   */\n   function (stmt, getter, ctx) {\n    ctx.println(stmt, \"Object.defineProperty(\\\" + stmt.name + \".prototype, \" + getter.name + \", { get: function() {\\");\n    ctx.incIndent();\n    if (getter.body.length > 0) {\n      ctx.println(stmt, \"var self = this;\\");\n      this.visitAllStatements(getter.body, ctx);\n    }\n    ctx.decIndent();\n    ctx.println(stmt, \"};\\");\n  });\n  /**\n   * @param {?} stmt\n   * @param {?} method\n   * @param {?} ctx\n   * @return {?}\n   */\n  AbstractJsEmitterVisitor.prototype._visitClassMethod = /**\n   * @param {?} stmt\n   * @param {?} method\n   * @param {?} ctx\n   * @return {?}\n   */\n   function (stmt, method, ctx) {\n    ctx.print(stmt, stmt.name + \".prototype.\" + method.name + \" = function(\\");\n    this._visitParams(method.params, ctx);\n    ctx.println(stmt, \") {\\");\n    ctx.incIndent();\n    if (method.body.length > 0) {\n      ctx.println(stmt, \"var self = this;\\");\n      this.visitAllStatements(method.body, ctx);\n    }\n    ctx.decIndent();\n  });\n
```



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JitEmitterVisitor;\n}(AbstractJsEmitterVisitor));\n\n/**\n * @fileoverview added by tsickle\n * @suppress
{checkTypes} checked by tsc\n */\n\n * @license\n * Copyright Google Inc. All Rights Reserved.\n *\n * Use of
this source code is governed by an MIT-style license that can be\n * found in the LICENSE file at
https://angular.io/license\n */\n\n * @record\n */\n\n * An internal module of the Angular compiler that
begins with component types,\n * extracts templates, and eventually produces a compiled version of the
component\n * ready for linking into an application.\n *\n * \\@security When compiling templates at runtime, you
must ensure that the entire template comes\n * from a trusted source. Attacker-controlled data introduced by a
template could expose your\n * application to XSS risks. For more detail, see the [Security
Guide](http://g.co/ng/security).\n */\n\nvar JitCompiler = /** @class */ (function () {\n  function
JitCompiler(_metadataResolver, _templateParser, _styleCompiler, _viewCompiler, _ngModuleCompiler,
_summaryResolver, _reflector, _compilerConfig, _console, getExtraNgModuleProviders) {\n
this._metadataResolver = _metadataResolver;\n    this._templateParser = _templateParser;\n
this._styleCompiler = _styleCompiler;\n    this._viewCompiler = _viewCompiler;\n    this._ngModuleCompiler
= _ngModuleCompiler;\n    this._summaryResolver = _summaryResolver;\n    this._reflector = _reflector;\n
this._compilerConfig = _compilerConfig;\n    this._console = _console;\n    this.getExtraNgModuleProviders =
getExtraNgModuleProviders;\n    this._compiledTemplateCache = new Map();\n
this._compiledHostTemplateCache = new Map();\n    this._compiledDirectiveWrapperCache = new Map();\n
this._compiledNgModuleCache = new Map();\n    this._sharedStylesheetCount = 0;\n
this._addedAotSummaries = new Set();\n  }\n  /**\n   * @param {?} moduleType\n   * @return {?} \n   */\n
JitCompiler.prototype.compileModuleSync = /**\n   * @param {?} moduleType\n   * @return {?} \n   */\n
function (moduleType) {\n    return SyncAsync.assertSync(this._compileModuleAndComponents(moduleType,
true));\n  }; \n  /**\n   * @param {?} moduleType\n   * @return {?} \n   */\n
JitCompiler.prototype.compileModuleAsync = /**\n   * @param {?} moduleType\n   * @return {?} \n   */\n
function (moduleType) {\n    return Promise.resolve(this._compileModuleAndComponents(moduleType,
false));\n  }; \n  /**\n   * @param {?} moduleType\n   * @return {?} \n   */\n
JitCompiler.prototype.compileModuleAndAllComponentsSync = /**\n   * @param {?} moduleType\n   *
@return {?} \n   */\n   function (moduleType) {\n    return
SyncAsync.assertSync(this._compileModuleAndAllComponents(moduleType, true));\n  }; \n  /**\n   * @param
{?} moduleType\n   * @return {?} \n   */\n   JitCompiler.prototype.compileModuleAndAllComponentsAsync =
/**\n   * @param {?} moduleType\n   * @return {?} \n   */\n   function (moduleType) {\n    return
Promise.resolve(this._compileModuleAndAllComponents(moduleType, false));\n  }; \n  /**\n   * @param {?}
component\n   * @return {?} \n   */\n   JitCompiler.prototype.getComponentFactory = /**\n   * @param {?}
component\n   * @return {?} \n   */\n   function (component) {\n    var /** @type {?} */ summary =
this._metadataResolver.getDirectiveSummary(component);\n    return /** @type {?} */
(summary.componentFactory);\n  }; \n  /**\n   * @param {?} summaries\n   * @return {?} \n   */\n
JitCompiler.prototype.loadAotSummaries = /**\n   * @param {?} summaries\n   * @return {?} \n   */\n
function (summaries) {\n    this.clearCache();\n    this._addAotSummaries(summaries);\n  }; \n  /**\n   *
@param {?} fn\n   * @return {?} \n   */\n   JitCompiler.prototype._addAotSummaries = /**\n   * @param {?}
fn\n   * @return {?} \n   */\n   function (fn) {\n    if (this._addedAotSummaries.has(fn)) {\n
return;\n    }\n    this._addedAotSummaries.add(fn);\n    var /** @type {?} */ summaries = fn();\n
for (var /** @type {?} */ i = 0; i < summaries.length; i++) {\n    var /** @type {?} */ entry =
summaries[i];\n    if (typeof entry === 'function') {\n    this._addAotSummaries(entry);\n    }\n    else {\n
var /** @type {?} */ summary = /** @type {?} */ (entry);\n    this._summaryResolver.addSummary({\n
symbol: summary.type.reference, metadata: null, type: summary });\n    }\n  }\n  }; \n  /**\n   * @param
{?} ref\n   * @return {?} \n   */\n   JitCompiler.prototype.hasAotSummary = /**\n   * @param {?} ref\n   *
@return {?} \n   */\n   function (ref) {\n    return !!this._summaryResolver.resolveSummary(ref); \n  }; \n
/**\n   * @param {?} ids\n   * @return {?} \n   */\n   JitCompiler.prototype._filterJitIdentifiers = /**\n   * @param {?}
ids\n   * @return {?} \n   */\n   function (ids) {\n    var _this = this;\n    return ids.map(function (mod) {\n

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return mod.reference; }).filter(function (ref) { return !_this.hasAotSummary(ref); });\n  });\n  /**\n   * @param
  {? } moduleType\n   * @param {? } isSync\n   * @return {? }\n   */\n  JitCompiler.prototype._compileModuleAndComponents = /**\n   * @param {? } moduleType\n   * @param {? }
  isSync\n   * @return {? }\n   */\n   function (moduleType, isSync) {\n    var _this = this;\n    return
  SyncAsync.then(this._loadModules(moduleType, isSync), function () {\n
  _this._compileComponents(moduleType, null);\n    return _this._compileModule(moduleType);\n  });\n
  });\n  /**\n   * @param {? } moduleType\n   * @param {? } isSync\n   * @return {? }\n   */\n  JitCompiler.prototype._compileModuleAndAllComponents = /**\n   * @param {? } moduleType\n   * @param
  {? } isSync\n   * @return {? }\n   */\n   function (moduleType, isSync) {\n    var _this = this;\n    return
  SyncAsync.then(this._loadModules(moduleType, isSync), function () {\n    var /** @type {?} */
  componentFactories = [];\n    _this._compileComponents(moduleType, componentFactories);\n    return
  {\n    ngModuleFactory: _this._compileModule(moduleType),\n    componentFactories:
  componentFactories\n    });\n  });\n  /**\n   * @param {? } mainModule\n   * @param {? }
  isSync\n   * @return {? }\n   */\n   JitCompiler.prototype._loadModules = /**\n   * @param {? } mainModule\n
  * @param {? } isSync\n   * @return {? }\n   */\n   function (mainModule, isSync) {\n    var _this = this;\n
  var /** @type {?} */ loading = [];\n    var /** @type {?} */ mainNgModule = /** @type {?} */
  ((this._metadataResolver.getNgModuleMetadata(mainModule));\n    // Note: for runtime compilation, we want to
  transitively compile all modules,\n    // so we also need to load the declared directives / pipes for all nested
  modules.\n    this._filterJitIdentifiers(mainNgModule.transitiveModule.modules).forEach(function
  (nestedNgModule) {\n    // getNgModuleMetadata only returns null if the value passed in is not an NgModule\n
  var /** @type {?} */ moduleMeta = /** @type {?} */
  ((_this._metadataResolver.getNgModuleMetadata(nestedNgModule));\n
  _this._filterJitIdentifiers(moduleMeta.declaredDirectives).forEach(function (ref) {\n    var /** @type {?} */
  promise = _this._metadataResolver.loadDirectiveMetadata(moduleMeta.type.reference, ref, isSync);\n    if
  (promise) {\n    loading.push(promise);\n    });\n
  _this._filterJitIdentifiers(moduleMeta.declaredPipes)\n    .forEach(function (ref) { return
  _this._metadataResolver.getOrLoadPipeMetadata(ref); });\n    });\n    return SyncAsync.all(loading);\n  });\n
  /**\n   * @param {? } moduleType\n   * @return {? }\n   */\n   JitCompiler.prototype._compileModule = /**\n
  * @param {? } moduleType\n   * @return {? }\n   */\n   function (moduleType) {\n    var /** @type {?} */
  ngModuleFactory = /** @type {?} */ ((this._compiledNgModuleCache.get(moduleType));\n    if
  (!ngModuleFactory) {\n    var /** @type {?} */ moduleMeta = /** @type {?} */
  ((this._metadataResolver.getNgModuleMetadata(moduleType));\n    // Always provide a bound Compiler\n
  var /** @type {?} */ extraProviders = this.getExtraNgModuleProviders(moduleMeta.type.reference);\n
  var /** @type {?} */ outputCtx = createOutputContext();\n    var /** @type {?} */ compileResult =
  this._ngModuleCompiler.compile(outputCtx, moduleMeta, extraProviders);\n    ngModuleFactory =
  this._interpretOrJit(ngModuleJitUrl(moduleMeta), outputCtx.statements)[compileResult.ngModuleFactoryVar];\n
  this._compiledNgModuleCache.set(moduleMeta.type.reference, ngModuleFactory);\n    });\n    return
  ngModuleFactory;\n  });\n  /**\n   * @internal\n   */\n  /**\n   * @internal\n   * @param {? }
  mainModule\n   * @param {? } allComponentFactories\n   * @return {? }\n   */\n  JitCompiler.prototype._compileComponents = /**\n   * @internal\n   * @param {? } mainModule\n   *
  @param {? } allComponentFactories\n   * @return {? }\n   */\n   function (mainModule, allComponentFactories)
  {\n    var _this = this;\n    var /** @type {?} */ ngModule = /** @type {?} */
  ((this._metadataResolver.getNgModuleMetadata(mainModule));\n    var /** @type {?} */ moduleByJitDirective
  = new Map();\n    var /** @type {?} */ templates = new Set();\n    var /** @type {?} */ transJitModules =
  this._filterJitIdentifiers(ngModule.transitiveModule.modules);\n    transJitModules.forEach(function (localMod)
  {\n    var /** @type {?} */ localModuleMeta = /** @type {?} */
  ((_this._metadataResolver.getNgModuleMetadata(localMod));\n
  _this._filterJitIdentifiers(localModuleMeta.declaredDirectives).forEach(function (dirRef) {\n

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```

moduleByJitDirective.set(dirRef, localModuleMeta);\n          var /** @type {?} */ dirMeta =
_this._metadataResolver.getDirectiveMetadata(dirRef);\n          if (dirMeta.isComponent) {\n
templates.add(_this._createCompiledTemplate(dirMeta, localModuleMeta);\n          if
(allComponentFactories) {\n          var /** @type {?} */ template =
_this._createCompiledHostTemplate(dirMeta.type.reference, localModuleMeta);\n
templates.add(template);\n          allComponentFactories.push(/** @type {?} */
(dirMeta.componentFactory));\n          }\n          }\n          });\n
transJitModules.forEach(function (localMod) {\n          var /** @type {?} */ localModuleMeta = /** @type {?} */
((_this._metadataResolver.getNgModuleMetadata(localMod));\n
_this._filterJitIdentifiers(localModuleMeta.declaredDirectives).forEach(function (dirRef) {\n          var /**
@type {?} */ dirMeta = _this._metadataResolver.getDirectiveMetadata(dirRef);\n          if
(dirMeta.isComponent) {\n          dirMeta.entryComponents.forEach(function (entryComponentType) {\n
var /** @type {?} */ moduleMeta = /** @type {?} */
((moduleByJitDirective.get(entryComponentType.componentType));\n
templates.add(_this._createCompiledHostTemplate(entryComponentType.componentType, moduleMeta));\n
});\n          }\n          });\n          localModuleMeta.entryComponents.forEach(function
(entryComponentType) {\n          if (!this.hasAotSummary(entryComponentType.componentType.reference))
{\n          var /** @type {?} */ moduleMeta = /** @type {?} */
((moduleByJitDirective.get(entryComponentType.componentType));\n
templates.add(_this._createCompiledHostTemplate(entryComponentType.componentType, moduleMeta));\n
});\n          });\n          });\n          templates.forEach(function (template) { return _this._compileTemplate(template);
});\n          });\n          /**\n          * @param {?} type\n          * @return {?}\n          */\n          JitCompiler.prototype.clearCacheFor =
/**\n          * @param {?} type\n          * @return {?}\n          */\n          function (type) {\n
this._compiledNgModuleCache.delete(type);\n          this._metadataResolver.clearCacheFor(type);\n
this._compiledHostTemplateCache.delete(type);\n          var /** @type {?} */ compiledTemplate =
this._compiledTemplateCache.get(type);\n          if (compiledTemplate) {\n
this._compiledTemplateCache.delete(type);\n          }\n          });\n          /**\n          * @return {?}\n          */\n          JitCompiler.prototype.clearCache = /**\n          * @return {?}\n          */\n          function () {\n          // Note: don't clear the
_addedAotSummaries, as they don't change!\n          this._metadataResolver.clearCache();\n
this._compiledTemplateCache.clear();\n          this._compiledHostTemplateCache.clear();\n
this._compiledNgModuleCache.clear();\n          });\n          /**\n          * @param {?} compType\n          * @param {?}
ngModule\n          * @return {?}\n          */\n          JitCompiler.prototype._createCompiledHostTemplate = /**\n          * @param
{?} compType\n          * @param {?} ngModule\n          * @return {?}\n          */\n          function (compType, ngModule) {\n
if (!ngModule) {\n          throw new Error("\Component \" + stringify(compType) + \" is not part of any NgModule
or the module has not been imported into your module.");\n          }\n          var /** @type {?} */ compiledTemplate =
this._compiledHostTemplateCache.get(compType);\n          if (!compiledTemplate) {\n          var /** @type {?} */
compMeta = this._metadataResolver.getDirectiveMetadata(compType);\n          assertComponent(compMeta);\n
var /** @type {?} */ hostMeta = this._metadataResolver.getHostComponentMetadata(compMeta, (/** @type
{?} */ (compMeta.componentFactory)).viewDefFactory);\n          compiledTemplate =\n          new
CompiledTemplate(true, compMeta.type, hostMeta, ngModule, [compMeta.type]);\n
this._compiledHostTemplateCache.set(compType, compiledTemplate);\n          }\n          return compiledTemplate;\n
});\n          /**\n          * @param {?} compMeta\n          * @param {?} ngModule\n          * @return {?}\n          */\n          JitCompiler.prototype._createCompiledTemplate = /**\n          * @param {?} compMeta\n          * @param {?}
ngModule\n          * @return {?}\n          */\n          function (compMeta, ngModule) {\n          var /** @type {?} */
compiledTemplate = this._compiledTemplateCache.get(compMeta.type.reference);\n          if (!compiledTemplate)
{\n          assertComponent(compMeta);\n          compiledTemplate = new CompiledTemplate(false,
compMeta.type, compMeta, ngModule, ngModule.transitiveModule.directives);\n
this._compiledTemplateCache.set(compMeta.type.reference, compiledTemplate);\n          }\n          return

```

```

compiledTemplate;\n  });\n  /**\n   * @param {?} template\n   * @return {?}\n   */\n  JitCompiler.prototype._compileTemplate = /**\n   * @param {?} template\n   * @return {?}\n   */\n  function (template) {\n    var _this = this;\n    if (template.isCompiled) {\n      return;\n    }\n    var /** @type {?} */ compMeta = template.compMeta;\n    var /** @type {?} */ externalStylesheetsByModuleUrl = new Map();\n    var /** @type {?} */ outputContext = createOutputContext();\n    var /** @type {?} */ componentStylesheet = this._styleCompiler.compileComponent(outputContext, compMeta); /** @type {?} */\n    ((compMeta.template)).externalStylesheets.forEach(function (stylesheetMeta) {\n      var /** @type {?} */ compiledStylesheet = _this._styleCompiler.compileStyles(createOutputContext(), compMeta, stylesheetMeta);\n      externalStylesheetsByModuleUrl.set(/** @type {?} */ ((stylesheetMeta.moduleUrl)), compiledStylesheet);\n    });\n    this._resolveStylesCompileResult(componentStylesheet, externalStylesheetsByModuleUrl);\n    var /** @type {?} */ pipes = template.ngModule.transitiveModule.pipes.map(function (pipe) { return _this._metadataResolver.getPipeSummary(pipe.reference); });\n    var _a = this._parseTemplate(compMeta, template.ngModule, template.directives), parsedTemplate = _a.template, usedPipes = _a.pipes;\n    var /** @type {?} */ compileResult = this._viewCompiler.compileComponent(outputContext, compMeta, parsedTemplate, variable(componentStylesheet.stylesVar), usedPipes);\n    var /** @type {?} */ evalResult = this._interpretOrJit(templateJitUrl(template.ngModule.type, template.compMeta), outputContext.statements);\n    var /** @type {?} */ viewClass = evalResult[compileResult.viewClassVar];\n    var /** @type {?} */ rendererType = evalResult[compileResult.rendererTypeVar];\n    template.compiled(viewClass, rendererType);\n  });\n  /**\n   * @param {?} compMeta\n   * @param {?} ngModule\n   * @param {?} directiveIdentifiers\n   * @return {?}\n   */\n  JitCompiler.prototype._parseTemplate = /**\n   * @param {?} compMeta\n   * @param {?} ngModule\n   * @param {?} directiveIdentifiers\n   * @return {?}\n   */\n  function (compMeta, ngModule, directiveIdentifiers) {\n    var _this = this;\n    // Note: ! is ok here as components always have a template.\n    var /** @type {?} */ preserveWhitespaces = /** @type {?} */ ((compMeta.template)).preserveWhitespaces;\n    var /** @type {?} */ directives = directiveIdentifiers.map(function (dir) { return _this._metadataResolver.getDirectiveSummary(dir.reference); });\n    var /** @type {?} */ pipes = ngModule.transitiveModule.pipes.map(function (pipe) { return _this._metadataResolver.getPipeSummary(pipe.reference); });\n    return this._templateParser.parse(compMeta, /** @type {?} */ ((/** @type {?} */ ((compMeta.template)).htmlAst)), directives, pipes, ngModule.schemas, templateSourceUrl(ngModule.type, compMeta, /** @type {?} */ ((compMeta.template))), preserveWhitespaces);\n  });\n  /**\n   * @param {?} result\n   * @param {?} externalStylesheetsByModuleUrl\n   * @return {?}\n   */\n  JitCompiler.prototype._resolveStylesCompileResult = /**\n   * @param {?} result\n   * @param {?} externalStylesheetsByModuleUrl\n   * @return {?}\n   */\n  function (result, externalStylesheetsByModuleUrl) {\n    var _this = this;\n    result.dependencies.forEach(function (dep, i) {\n      var /** @type {?} */ nestedCompileResult = /** @type {?} */ ((externalStylesheetsByModuleUrl.get(dep.moduleUrl)));\n      var /** @type {?} */ nestedStylesArr = _this._resolveAndEvalStylesCompileResult(nestedCompileResult, externalStylesheetsByModuleUrl);\n      dep.setValue(nestedStylesArr);\n    });\n  });\n  /**\n   * @param {?} result\n   * @param {?} externalStylesheetsByModuleUrl\n   * @return {?}\n   */\n  JitCompiler.prototype._resolveAndEvalStylesCompileResult = /**\n   * @param {?} result\n   * @param {?} externalStylesheetsByModuleUrl\n   * @return {?}\n   */\n  function (result, externalStylesheetsByModuleUrl) {\n    this._resolveStylesCompileResult(result, externalStylesheetsByModuleUrl);\n    return this._interpretOrJit(sharedStylesheetJitUrl(result.meta, this._sharedStylesheetCount++), result.outputCtx.statements[result.stylesVar]);\n  });\n  /**\n   * @param {?} sourceUrl\n   * @param {?} statements\n   * @return {?}\n   */\n  JitCompiler.prototype._interpretOrJit = /**\n   * @param {?} sourceUrl\n   * @param {?} statements\n   * @return {?}\n   */\n  function (sourceUrl, statements) {\n    if (!this._compilerConfig.useJit) {\n      return interpretStatements(statements, this._reflector);\n    } else {\n      return jitStatements(sourceUrl, statements, this._reflector, this._compilerConfig.jitDevMode);\n    }\n  });\n  return JitCompiler;\n})();\nvar CompiledTemplate = /** @class */ (function () {\n  function CompiledTemplate(isHost, compType, compMeta, ngModule, directives) {\n    this.isHost = isHost;\n  }

```


The port number.
 @param {=} opt_path The path, already URI-encoded. If it is not empty, it must begin with a slash.
 @param {=} opt_queryData The URI-encoded query data.
 @param {=} opt_fragment The URI-encoded fragment identifier.
 @return {?} The fully combined URI.

```

function
_buildFromEncodedParts(opt_scheme, opt_userInfo, opt_domain, opt_port, opt_path, opt_queryData, opt_fragment)
{
  var /** @type {?} */ out = [];
  if (opt_scheme != null) {
    out.push(opt_scheme + ':');
  }
  if (opt_domain != null) {
    out.push('//');
    if (opt_userInfo != null) {
      out.push(opt_userInfo + '@');
    }
    out.push(opt_domain);
  }
  if (opt_port != null) {
    out.push(': ' + opt_port);
  }
  if (opt_path != null) {
    out.push(opt_path);
  }
  if (opt_queryData != null) {
    out.push('? ' + opt_queryData);
  }
  if (opt_fragment != null) {
    out.push('# ' + opt_fragment);
  }
  return out.join('');
}

```

A regular expression for breaking a URI into its component parts.

```

@@link
http://www.gbiv.com/protocols/uri/rfc/rfc3986.html#RFC2234

```

As the "first-match-wins" algorithm is identical to the "greedy" disambiguation method used by POSIX regular expressions, it is natural and commonplace to use a regular expression for parsing the potential five components of a URI reference. The following line is the regular expression for breaking-down a well-formed URI reference into its components.

```

^((?:[^\s:/#\?]+)?(?:/[^\s#]*)?(?:[^\s#]*)(\?([^\s#]*)?(\#[^\s]*)?)?)$

```

The numbers in the second line above are only to assist readability; they indicate the reference points for each subexpression (i.e., each paired parenthesis). We refer to the value matched for subexpression <n> as \$<n>.

For example, matching the above expression to `http://www.ics.uci.edu/pub/ietf/uri/#Related` results in the following subexpression matches:

```

$1 = http
$2 = http
$3 = //www.ics.uci.edu
$4 = www.ics.uci.edu
$5 = /pub/ietf/uri
$6 = <undefined>
$7 = <undefined>
$8 = #Related
$9 = Related

```

where <undefined> indicates that the component is not present, as is the case for the query component in the above example. Therefore, we can determine the value of the five components as

```

scheme = $2
authority = $4
path = $5
query = $7
fragment = $9

```

The regular expression has been modified slightly to expose the userInfo, domain, and port separately from the authority. The modified version yields

```

$1 = http
scheme
$2 = <undefined>
userInfo
$3 = www.ics.uci.edu
domain | authority
$4 = <undefined>
port
$5 = /pub/ietf/uri/
path
$6 = <undefined>
query without ?
$7 = Related
fragment without #

```

```

@internal
* \nvar _splitRe = new RegExp('^ + (?:' + ([^\s:/#.]+) + // scheme - ignore special characters
'?:/' + ([^\s#]*) + // userInfo
'([\\w\\d\\-\\.\\u0100-\\uffff.%]*)' + // domain - restrict to letters,
'?:([0-9]+)' + // port
'?' + ([^\s#]+)' + // path
'?:\\?([^\s#]*)' + // query
'?:#[^\s]*)' + // fragment
'$');
@enum {number} * \nvar _ComponentIndex = {
  Scheme: 1,
  UserInfo: 2,
  Domain: 3,
  Port: 4,
  Path: 5,
  QueryData: 6,
  Fragment: 7,
};
_n_ComponentIndex[_ComponentIndex.Scheme] =
"Scheme";
_n_ComponentIndex[_ComponentIndex.UserInfo] =
"UserInfo";
_n_ComponentIndex[_ComponentIndex.Domain] =
"Domain";
_n_ComponentIndex[_ComponentIndex.Port] = "Port";
_n_ComponentIndex[_ComponentIndex.Path] =
"Path";
_n_ComponentIndex[_ComponentIndex.QueryData] =
"QueryData";
_n_ComponentIndex[_ComponentIndex.Fragment] = "Fragment";

```

Splits a URI into its component parts. Each component can be accessed via the component indices; for example:

```

goog.uri.utils.split(someStr)[goog.uri.utils.ComponentIndex.QUERY_DATA];

```

The URI string to examine.

@return {?} Each component still URI-encoded. Each component that is present will contain the encoded value, whereas components that are not present will be undefined or empty, depending on the browser's regular expression implementation. Never null, since arbitrary strings may still look like path names.

```

function _split(uri) {
  return /** @type {?} */ ((uri.match(_splitRe)));
}

```

Removes dot segments in given path component, as described in RFC 3986, section 5.2.4.

@param {?} path A non-empty path component.

@return {?} Path component with removed dot segments.

```

function _removeDotSegments(path) {
  if (path == '/')
    return '/';
  var /** @type {?} */ leadingSlash = path[0] ==

```



```

'__prop__metadata__';\n/**\n * @suppress {globalThis}\n * @param {?} name\n * @param {?=} props\n * @param {?=} parentClass\n * @param {?=} chainFn\n * @return {?}\n */\nfunction makeDecorator(name, props, parentClass, chainFn) {\n  var /** @type {?} */ metaCtor = makeMetadataCtor(props);\n  /**\n   * @param {?} objOrType\n   * @return {?}\n   */\n  function DecoratorFactory(objOrType) {\n    if (this instanceof DecoratorFactory) {\n      metaCtor.call(this, objOrType);\n      return this;\n    }\n    var /** @type {?} */ annotationInstance = new (** @type {?} */ (DecoratorFactory))(objOrType);\n    var /** @type {?} */ TypeDecorator = /** @type {?} */ (function TypeDecorator(cls) {\n      // Use of Object.defineProperty is important since it creates non-enumerable property which\n      // prevents the property is copied during subclassing.\n      var /** @type {?} */ annotations = cls.hasOwnProperty(ANNOTATIONS) ?\n        (** @type {?} */ (cls))[ANNOTATIONS] :\n        Object.defineProperty(cls, ANNOTATIONS, { value: [] })[ANNOTATIONS];\n      annotations.push(annotationInstance);\n      return cls;\n    });\n    if (chainFn)\n      chainFn(TypeDecorator);\n    return TypeDecorator;\n  }\n  if (parentClass) {\n    DecoratorFactory.prototype = Object.create(parentClass.prototype);\n  }\n  DecoratorFactory.prototype.ngMetadataName = name;\n  (** @type {?} */ (DecoratorFactory)).annotationCls = DecoratorFactory;\n  return /** @type {?} */ (DecoratorFactory);\n}\n/**\n * @param {?=} props\n * @return {?}\n */\nfunction makeMetadataCtor(props) {\n  return function ctor() {\n    var args = [];\n    for (var _i = 0; _i < arguments.length; _i++) {\n      args[_i] = arguments[_i];\n    }\n    if (props) {\n      var /** @type {?} */ values = props.apply(void 0, args);\n      for (var /** @type {?} */ propName in values) {\n        this[propName] = values[propName];\n      }\n    }\n  };\n}\n/**\n * @param {?} name\n * @param {?=} parentClass\n * @return {?}\n */\nfunction makeParamDecorator(name, props, parentClass) {\n  var /** @type {?} */ metaCtor = makeMetadataCtor(props);\n  /**\n   * @param {...?} args\n   * @return {?}\n   */\n  function ParamDecoratorFactory() {\n    var args = [];\n    for (var _i = 0; _i < arguments.length; _i++) {\n      args[_i] = arguments[_i];\n    }\n    if (this instanceof ParamDecoratorFactory) {\n      metaCtor.apply(this, args);\n      return this;\n    }\n    var /** @type {?} */ annotationInstance = new ((_a = (** @type {?} */ (ParamDecoratorFactory))).bind.apply(_a, [void 0].concat(args)));\n    (** @type {?} */ (ParamDecorator)).annotation = annotationInstance;\n    return ParamDecorator;\n  }\n  /**\n   * @param {?} cls\n   * @param {?} unusedKey\n   * @param {?} index\n   * @return {?}\n   */\n  function ParamDecorator(cls, unusedKey, index) {\n    // Use of Object.defineProperty is important since it creates non-enumerable property which\n    // prevents the property is copied during subclassing.\n    var /** @type {?} */ parameters = cls.hasOwnProperty(PARAMETERS) ?\n      (** @type {?} */ (cls))[PARAMETERS] :\n      Object.defineProperty(cls, PARAMETERS, { value: [] })[PARAMETERS];\n    // there might be gaps if some in between parameters do not have annotations.\n    // we pad with nulls.\n    while (parameters.length <= index) {\n      parameters.push(null);\n    }\n    (parameters[index] = parameters[index] || []).push(annotationInstance);\n    return cls;\n  }\n  var _a;\n  }\n  if (parentClass) {\n    ParamDecoratorFactory.prototype = Object.create(parentClass.prototype);\n  }\n  ParamDecoratorFactory.prototype.ngMetadataName = name;\n  (** @type {?} */ (ParamDecoratorFactory)).annotationCls = ParamDecoratorFactory;\n  return ParamDecoratorFactory;\n}\n/**\n * @param {?} name\n * @param {?=} props\n * @param {?=} parentClass\n * @return {?}\n */\nfunction makePropDecorator(name, props, parentClass) {\n  var /** @type {?} */ metaCtor = makeMetadataCtor(props);\n  /**\n   * @param {...?} args\n   * @return {?}\n   */\n  function PropDecoratorFactory() {\n    var args = [];\n    for (var _i = 0; _i < arguments.length; _i++) {\n      args[_i] = arguments[_i];\n    }\n    if (this instanceof PropDecoratorFactory) {\n      metaCtor.apply(this, args);\n      return this;\n    }\n    var /** @type {?} */ decoratorInstance = new ((_a = (** @type {?} */ (PropDecoratorFactory))).bind.apply(_a, [void 0].concat(args)));\n    return function PropDecorator(target, name) {\n      var /** @type {?} */ constructor = target.constructor;\n      // Use of Object.defineProperty is important since it creates non-enumerable property which\n      // prevents the property is copied during subclassing.\n      var /** @type {?} */ meta = constructor.hasOwnProperty(PROP_METADATA) ?\n        (** @type {?} */ (constructor))[PROP_METADATA] :\n        Object.defineProperty(constructor, PROP_METADATA, { value:

```



```

*^nvar ChangeDetectorStatus = {^n  /**^n    * `CheckOnce` means that after calling detectChanges the mode of
the change detector^n    * will become `Checked`.^n    *^n    CheckOnce: 0,^n  /**^n    * `Checked` means that
the change detector should be skipped until its mode changes to^n    * `CheckOnce`.^n    *^n    Checked: 1,^n
/**^n    * `CheckAlways` means that after calling detectChanges the mode of the change detector^n    * will
remain `CheckAlways`.^n    *^n    CheckAlways: 2,^n  /**^n    * `Detached` means that the change detector sub
tree is not a part of the main tree and^n    * should be skipped.^n    *^n    Detached: 3,^n  /**^n    * `Errored`
means that the change detector encountered an error checking a binding^n    * or calling a directive lifecycle
method and is now in an inconsistent state. Change^n    * detectors in this state will no longer detect changes.^n
*^n    Errored: 4,^n  /**^n    * `Destroyed` means that the change detector is destroyed.^n    *^n    Destroyed:
5,^n};^nChangeDetectorStatus[ChangeDetectorStatus.CheckOnce] =
`CheckOnce`;^nChangeDetectorStatus[ChangeDetectorStatus.Checked] =
`Checked`;^nChangeDetectorStatus[ChangeDetectorStatus.CheckAlways] =
`CheckAlways`;^nChangeDetectorStatus[ChangeDetectorStatus.Detached] =
`Detached`;^nChangeDetectorStatus[ChangeDetectorStatus.Errored] =
`Errored`;^nChangeDetectorStatus[ChangeDetectorStatus.Destroyed] = `Destroyed`;^n/**^n * @param {?}
changeDetectionStrategy^n * @return {?}^n *^nfunction
isDefaultChangeDetectionStrategy(changeDetectionStrategy) {^n  return changeDetectionStrategy === null ||^n
changeDetectionStrategy === ChangeDetectionStrategy.Default;^n}^n/**^n * @fileoverview added by tsickle^n *
@suppress {checkTypes} checked by tsc^n *^n/**^n * @license^n * Copyright Google Inc. All Rights Reserved.^n
*^n * Use of this source code is governed by an MIT-style license that can be^n * found in the LICENSE file at
https://angular.io/license^n *^n/**^n * Type of the Directive decorator / constructor function.^n *^n * ||@stable^n *
@record^n *^n/**^n * Directive decorator and metadata.^n *^n * ||@stable^n * ||@Annotation^n *^nvar Directive
= makeDecorator('Directive', function (dir) {^n  if (dir === void 0) { dir = {}; }^n  return dir;^n});^n/**^n * Type
of the Component decorator / constructor function.^n *^n * ||@stable^n * @record^n *^n/**^n * Component
decorator and metadata.^n *^n * ||@stable^n * ||@Annotation^n *^nvar Component = makeDecorator('Component',
function (c) {^n  if (c === void 0) { c = {}; }^n  return (__assign({ changeDetection:
ChangeDetectionStrategy.Default }, c));^n}), Directive);^n/**^n * Type of the Pipe decorator / constructor function.^n
*^n * ||@stable^n * @record^n *^n/**^n * Pipe decorator and metadata.^n *^n * ||@stable^n * ||@Annotation^n
*^nvar Pipe = makeDecorator('Pipe', function (p) { return (__assign({ pure: true }, p)); });^n/**^n * Type of the
Input decorator / constructor function.^n *^n * ||@stable^n * @record^n *^n/**^n * Input decorator and metadata.^n
*^n * ||@stable^n * ||@Annotation^n *^nvar Input = makePropDecorator('Input', function (bindingPropertyName) {
return ({ bindingPropertyName: bindingPropertyName }); });^n/**^n * Type of the Output decorator / constructor
function.^n *^n * ||@stable^n * @record^n *^n/**^n * Output decorator and metadata.^n *^n * ||@stable^n *
||@Annotation^n *^nvar Output = makePropDecorator('Output', function (bindingPropertyName) { return ({
bindingPropertyName: bindingPropertyName }); });^n/**^n * Type of the HostBinding decorator / constructor
function.^n *^n * ||@stable^n * @record^n *^n/**^n * HostBinding decorator and metadata.^n *^n * ||@stable^n *
||@Annotation^n *^nvar HostBinding = makePropDecorator('HostBinding', function (hostPropertyName) { return
({ hostPropertyName: hostPropertyName }); });^n/**^n * Type of the HostListener decorator / constructor
function.^n *^n * ||@stable^n * @record^n *^n/**^n * HostListener decorator and metadata.^n *^n * ||@stable^n *
||@Annotation^n *^nvar HostListener = makePropDecorator('HostListener', function (eventName, args) { return ({
eventName: eventName, args: args }); });^n/**^n * @fileoverview added by tsickle^n * @suppress {checkTypes}
checked by tsc^n *^n/**^n * @license^n * Copyright Google Inc. All Rights Reserved.^n *^n * Use of this source
code is governed by an MIT-style license that can be^n * found in the LICENSE file at https://angular.io/license^n
*^n/**^n * A wrapper around a module that also includes the providers.^n *^n * ||@stable^n * @record^n *^n/**^n
* Interface for schema definitions in ||@NgModules.^n *^n * ||@experimental^n * @record^n *^n/**^n * Defines a
schema that will allow:^n * - any non-Angular elements with a `^` in their name,^n * - any properties on elements
with a `^` in their name which is the common rule for custom^n * elements.^n *^n * ||@stable^n *^nvar
CUSTOM_ELEMENTS_SCHEMA = {^n  name: 'custom-elements'^n};^n/**^n * Defines a schema that will allow

```

```

any property on any element.\n *\n * \\@experimental\n *\nvar NO_ERRORS_SCHEMA = {\n  name: 'no-errors-
schema'\n};\n/**\n * Type of the NgModule decorator / constructor function.\n *\n * \\@stable\n * @record\n
*\n\n/**\n * NgModule decorator and metadata.\n *\n * \\@stable\n * \\@Annotation\n *\nvar NgModule =
makeDecorator('NgModule', function (ngModule) { return ngModule; });\n\n/**\n * @fileoverview added by
tsickle\n * @suppress {checkTypes} checked by tsc\n *\n\n/**\n * @license\n * Copyright Google Inc. All Rights
Reserved.\n *\n * Use of this source code is governed by an MIT-style license that can be\n * found in the
LICENSE file at https://angular.io/license\n *\n\n/**\n * @enum {number} *\nvar ViewEncapsulation = {\n  /**\n
* Emulate `Native` scoping of styles by adding an attribute containing surrogate id to the Host\n  * Element and
pre-processing the style rules provided via { @link Component#styles styles } or\n  * { @link
Component#styleUrls styleUrls }, and adding the new Host Element attribute to all\n  * selectors.\n  *\n  *
This is the default option.\n  *\n  * Emulated: 0,\n  /**\n  * Use the native encapsulation mechanism of the
renderer.\n  *\n  * For the DOM this means using [Shadow
DOM](https://w3c.github.io/webcomponents/spec/shadow/) and\n  * creating a ShadowRoot for Component's
Host Element.\n  *\n  * Native: 1,\n  /**\n  * Don't provide any template or style encapsulation.\n  *\n
None: 2,\n};\nViewEncapsulation[ViewEncapsulation.Emulated] =
'Emulated';\nViewEncapsulation[ViewEncapsulation.Native] =
'Native';\nViewEncapsulation[ViewEncapsulation.None] = 'None';\n\n/**\n * @fileoverview added by
tsickle\n * @suppress {checkTypes} checked by tsc\n *\n\n/**\n * @license\n * Copyright Google Inc. All Rights
Reserved.\n *\n * Use of this source code is governed by an MIT-style license that can be\n * found in the
LICENSE file at https://angular.io/license\n *\n\n/**\n * @fileoverview added by tsickle\n * @suppress
{checkTypes} checked by tsc\n *\n\n/**\n * @license\n * Copyright Google Inc. All Rights Reserved.\n *\n * Use
of this source code is governed by an MIT-style license that can be\n * found in the LICENSE file at
https://angular.io/license\n *\n\n/**\n * \\@whatItDoes Represents the version of Angular\n *\n * \\@stable\n *\nvar
Version = /** @class */ (function () {\n  function Version(full) {\n    this.full = full;\n    this.major =
full.split('.')[0];\n    this.minor = full.split('.')[1];\n    this.patch = full.split('.')[2].slice(2).join('.');\n  }\n  return
Version;\n})();\n\n/**\n * \\@stable\n *\nvar VERSION = new Version('5.2.1');\n\n/**\n * @fileoverview added by
tsickle\n * @suppress {checkTypes} checked by tsc\n *\n\n/**\n * @license\n * Copyright Google Inc. All Rights
Reserved.\n *\n * Use of this source code is governed by an MIT-style license that can be\n * found in the
LICENSE file at https://angular.io/license\n *\n\n/**\n * Type of the Inject decorator / constructor function.\n *\n *
\\@stable\n * @record\n *\n\n/**\n * Inject decorator and metadata.\n *\n * \\@stable\n * \\@Annotation\n *\nvar
Inject = makeParamDecorator('Inject', function (token) { return ({ token: token }); });\n\n/**\n * Type of the Optional
decorator / constructor function.\n *\n * \\@stable\n * @record\n *\n\n/**\n * Optional decorator and metadata.\n
*\n * \\@stable\n * \\@Annotation\n *\nvar Optional = makeParamDecorator('Optional');\n\n/**\n * Type of the
Injectable decorator / constructor function.\n *\n * \\@stable\n * @record\n *\n\n/**\n * Injectable decorator and
metadata.\n *\n * \\@stable\n * \\@Annotation\n *\nvar Injectable = makeDecorator('Injectable');\n\n/**\n * Type of
the Self decorator / constructor function.\n *\n * \\@stable\n * @record\n *\n\n/**\n * Self decorator and
metadata.\n *\n * \\@stable\n * \\@Annotation\n *\nvar Self = makeParamDecorator('Self');\n\n/**\n * Type of the
SkipSelf decorator / constructor function.\n *\n * \\@stable\n * @record\n *\n\n/**\n * SkipSelf decorator and
metadata.\n *\n * \\@stable\n * \\@Annotation\n *\nvar SkipSelf = makeParamDecorator('SkipSelf');\n\n/**\n * Type
of the Host decorator / constructor function.\n *\n * \\@stable\n * @record\n *\n\n/**\n * Host decorator and
metadata.\n *\n * \\@stable\n * \\@Annotation\n *\nvar Host = makeParamDecorator('Host');\n\n/**\n *
@fileoverview added by tsickle\n * @suppress {checkTypes} checked by tsc\n *\n\n/**\n * @license\n * Copyright
Google Inc. All Rights Reserved.\n *\n * Use of this source code is governed by an MIT-style license that can be\n *
found in the LICENSE file at https://angular.io/license\n *\n\nvar __window = typeof window !== 'undefined' &&
window;\nvar __self = typeof self !== 'undefined' && typeof WorkerGlobalScope !== 'undefined' &&\n self
instanceof WorkerGlobalScope && self;\nvar __global = typeof global !== 'undefined' && global;\nvar __global =
__window || __global || __self;\nvar __symbolIterator = null;\n\n/**\n * @return {?}\n *\nfunction getSymbolIterator()\n{\n  if (!__symbolIterator) {\n    var /** @type {?} */ Symbol_1 = __global['Symbol'];\n    if (Symbol_1 &&

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Symbol_1.iterator) {\n      _symbolIterator = Symbol_1.iterator;\n    }\n    else {\n      // es6-shim
specific logic\n      var /** @type {?} */ keys = Object.getOwnPropertyNames(Map.prototype);\n      for (var
/** @type {?} */ i = 0; i < keys.length; ++i) {\n        var /** @type {?} */ key = keys[i];\n        if (key !==
'entries' && key !== 'size' &&\n          (** @type {?} */ (Map)).prototype[key] === Map.prototype['entries'])
{\n          _symbolIterator = key;\n        }\n      }\n    }\n    return _symbolIterator;\n  }\n}
@param {?} fn\n * @return ?\n *
function scheduleMicroTask(fn) {\n
Zone.current.scheduleMicroTask('scheduleMicrotask', fn);\n}
\n * @param {?} a\n * @param {?} b\n *
@return ?\n *
function looseIdentical(a, b) {\n  return a === b || typeof a === 'number' && typeof b ===
'number' && isNaN(a) && isNaN(b);\n}
\n * @param {?} token\n * @return ?\n *
function
stringify(token) {\n  if (typeof token === 'string') {\n    return token;\n  }\n  if (token instanceof Array) {\n
return '[' + token.map(stringify).join(', ') + ']';\n  }\n  if (token == null) {\n    return " + token;\n  }\n  if
(token.OverriddenName) {\n    return "\"" + token.OverriddenName;\n  }\n  if (token.name) {\n    return "\"" +
token.name;\n  }\n  var /** @type {?} */ res = token.toString();\n  if (res == null) {\n    return " + res;\n  }\n
var /** @type {?} */ newLineIndex = res.indexOf("\\n");\n  return newLineIndex === -1 ? res : res.substring(0,
newLineIndex);\n}
\n * @fileoverview added by tsickle\n * @suppress {checkTypes} checked by tsc\n
*\n * @license\n * Copyright Google Inc. All Rights Reserved.\n * Use of this source code is governed by
an MIT-style license that can be\n * found in the LICENSE file at https://angular.io/license\n *
\n * An
interface that a function passed into {@link forwardRef} has to implement.\n *
\n * ### Example\n *
\n *
{\\@example core/di/ts/forward_ref/forward_ref_spec.ts region='forward_ref_fn'}\n *
{\\@experimental\n *
@record\n *
\n * Allows to refer to references which are not yet defined.\n * For instance, `forwardRef`
is used when the `token` which we need to refer to for the purposes of\n * DI is declared,\n * but not yet defined. It
is also used when the `token` which we use when creating a query is not\n * yet defined.\n *
\n * ### Example\n *
\n *
{\\@example core/di/ts/forward_ref/forward_ref_spec.ts region='forward_ref'}\n *
{\\@experimental\n *
@param
?} forwardRefFn\n * @return ?\n *
function forwardRef(forwardRefFn) {\n  (** @type {?} */
(forwardRefFn)).__forward_ref__ = forwardRef;\n  (** @type {?} */ (forwardRefFn)).toString = function () {\n
return stringify(this());\n  };
\n  return (** @type {?} */ (** @type {?} */ (forwardRefFn)));\n}
\n * Lazily
retrieves the reference value from a forwardRef.\n * Acts as the identity function when given a non-forward-ref
value.\n *
\n * ### Example ([live demo](http://plnr.co/edit/GU72mJrk1fiodChcmiDR?p=preview))\n *
\n *
{\\@example core/di/ts/forward_ref/forward_ref_spec.ts region='resolve_forward_ref'}\n *
\n * See: {\\@link
forwardRef}\n *
{\\@experimental\n *
@param {?} type\n * @return ?\n *
function resolveForwardRef(type)
{\n  if (typeof type === 'function' && type.hasOwnProperty('__forward_ref__') &&\n    type.__forward_ref__
=== forwardRef) {\n    return (** @type {?} */ (type));\n  }\n  else {\n    return type;\n  }\n}
\n}
\n * @fileoverview added by tsickle\n * @suppress {checkTypes} checked by tsc\n *
\n * @license\n * Copyright
Google Inc. All Rights Reserved.\n * Use of this source code is governed by an MIT-style license that can be\n *
found in the LICENSE file at https://angular.io/license\n *
\nvar SOURCE = '__source';\nvar
_THROW_IF_NOT_FOUND = new Object();\nvar THROW_IF_NOT_FOUND =
_THROW_IF_NOT_FOUND;\nvar _NullInjector = /** @class */ (function () {\n  function _NullInjector() {\n
}\n  /**\n   * @param {?} token\n   * @param {?=} notFoundValue\n   * @return ?\n   *
\n   * _NullInjector.prototype.get = /**\n   * @param {?} token\n   * @param {?=} notFoundValue\n   * @return
?}\n   *
\n   * function (token, notFoundValue) {\n     if (notFoundValue === void 0) {\n       notFoundValue =
_THROW_IF_NOT_FOUND;\n     }\n     if (notFoundValue === _THROW_IF_NOT_FOUND) {\n       throw new
Error("NullInjectorError: No provider for '" + stringify(token) + "'");\n     }\n     return notFoundValue;\n
  };\n  return _NullInjector();\n});
\n *
{\\@whatItDoes Injector interface\n *
{\\@howToUse\n *
```\n *
const
injector: Injector = ...;\n *
injector.get(...);\n *
```\n *
\n *
{\\@description\n *
For more details, see the {\\@linkDocs
guide/dependency-injection \"Dependency Injection Guide\"}.\n *
\n *
### Example\n *
\n *
{\\@example
core/di/ts/injector_spec.ts region='Injector'}\n *
\n *
`Injector` returns itself when given `Injector` as a token:\n *
\n *
{\\@example core/di/ts/injector_spec.ts region='injectInjector'}\n *
\n *
{\\@stable\n *
@abstract\n *
\nvar Injector =
/** @class */ (function () {\n  function Injector() {\n  }\n  /**\n   * Create a new Injector which is configure

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using `StaticProvider`s.\n * \n * ### Example\n * \n * {@example core/di/ts/provider_spec.ts
region='ConstructorProvider'}\n * \n /**\n * Create a new Injector which is configure using
`StaticProvider`s.\n * \n * ### Example\n * \n * {\n @example core/di/ts/provider_spec.ts
region='ConstructorProvider'}\n * @param {?} options\n * @param {?=} parent\n * @return {?}\n * \n
Injector.create = /**\n * Create a new Injector which is configure using `StaticProvider`s.\n * \n * ###
Example\n * \n * {\n @example core/di/ts/provider_spec.ts region='ConstructorProvider'}\n * @param {?}
options\n * @param {?=} parent\n * @return {?}\n * \n function (options, parent) {\n if
(Array.isArray(options)) {\n return new StaticInjector(options, parent);\n } \n else {\n return
new StaticInjector(options.providers, options.parent, options.name || null);\n } \n };\n
Injector.THROW_IF_NOT_FOUND = _THROW_IF_NOT_FOUND;\n Injector.NULL = new _NullInjector();\n
return Injector;\n})();\nvar IDENT = function (value) {\n return value;\n};\nvar EMPTY = /** @type {?} */
([]);\nvar CIRCULAR = IDENT;\nvar MULTI_PROVIDER_FN = function () {\n return
Array.prototype.slice.call(arguments);\n};\nvar GET_PROPERTY_NAME = /** @type {?} */ ({});\nvar 2 =
GET_PROPERTY_NAME;\nvar USE_VALUE = getClosureSafeProperty({ provide: String, useValue: 2 });\nvar
NG_TOKEN_PATH = 'ngTokenPath';\nvar NG_TEMP_TOKEN_PATH = 'ngTempTokenPath';\nvar
NULL_INJECTOR = Injector.NULL;\nvar NEW_LINE = /\n/gm;\nvar NO_NEW_LINE = "";\nvar StaticInjector =
/** @class */ (function () {\n function StaticInjector(providers, parent, source) {\n if (parent === void 0) {\n
parent = NULL_INJECTOR; }\n if (source === void 0) {\n source = null; }\n this.parent = parent;\n
this.source = source;\n var /** @type {?} */ records = this._records = new Map();\n records.set(Injector,
/** @type {?} */ ({ token: Injector, fn: IDENT, deps: EMPTY, value: this, useNew: false }));\n
recursivelyProcessProviders(records, providers);\n } \n /**\n * @param {?} token\n * @param {?=}
notFoundValue\n * @return {?}\n * \n StaticInjector.prototype.get = /**\n * @param {?} token\n *
@param {?=} notFoundValue\n * @return {?}\n * \n function (token, notFoundValue) {\n var /**
@type {?} */ record = this._records.get(token);\n try {\n return tryResolveToken(token, record,
this._records, this.parent, notFoundValue);\n } \n catch (/** @type {?} */ e) {\n var /** @type {?} */
tokenPath = e[NG_TEMP_TOKEN_PATH];\n if (token[SOURCE]) {\n
tokenPath.unshift(token[SOURCE]);\n } \n e.message = formatError("\n' + e.message, tokenPath,
this.source);\n e[NG_TOKEN_PATH] = tokenPath;\n e[NG_TEMP_TOKEN_PATH] = null;\n
throw e;\n } \n };\n /**\n * @return {?}\n * \n StaticInjector.prototype.toString = /**\n * @return
{?}\n * \n function () {\n var /** @type {?} */ tokens = /** @type {?} */ ({}), /** @type {?} */ records =
this._records;\n records.forEach(function (v, token) {\n return tokens.push(stringify(token));\n });\n
return
`StaticInjector[\n + tokens.join(', ') + "\n"]`;\n };\n return StaticInjector;\n})();\n/**\n * @param {?} provider\n *
@return {?}\n * \n function resolveProvider(provider) {\n var /** @type {?} */ deps = computeDeps(provider);\n
var /** @type {?} */ fn = IDENT;\n var /** @type {?} */ value = EMPTY;\n var /** @type {?} */ useNew =
false;\n var /** @type {?} */ provide = resolveForwardRef(provider.provide);\n if (USE_VALUE in provider)
{\n // We need to use USE_VALUE in provider since provider.useValue could be defined as undefined.\n
value = /** @type {?} */ (provider).useValue;\n } \n else if ((/** @type {?} */ (provider)).useFactory) {\n
fn = /** @type {?} */ (provider).useFactory;\n } \n else if ((/** @type {?} */ (provider)).useExisting) {\n
// Just use IDENT\n } \n else if ((/** @type {?} */ (provider)).useClass) {\n useNew = true;\n fn =
resolveForwardRef((/** @type {?} */ (provider)).useClass);\n } \n else if (typeof provide === 'function') {\n
useNew = true;\n fn = provide;\n } \n else {\n throw staticError('StaticProvider does not have
[useValue|useFactory|useExisting|useClass] or [provide] is not newable', provider);\n } \n return { deps: deps, fn:
fn, useNew: useNew, value: value }; \n } \n };\n /**\n * @param {?} token\n * @return {?}\n * \n function
multiProviderMixError(token) {\n return staticError('Cannot mix multi providers and regular providers',
token);\n } \n };\n /**\n * @param {?} records\n * @param {?} provider\n * @return {?}\n * \n function
recursivelyProcessProviders(records, provider) {\n if (provider) {\n provider =
resolveForwardRef(provider);\n if (provider instanceof Array) {\n // if we have an array recurse into the
array\n for (var /** @type {?} */ i = 0; i < provider.length; i++) {\n

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recursivelyProcessProviders(records, provider[i]);\n        }\n        }\n        else if (typeof provider === 'function')\n        {\n            // Functions were supported in ReflectiveInjector, but are not here. For safety give useful\n            // error\n            // messages\n            throw staticError('Function/Class not supported', provider);\n        }\n        else if (provider &&\n        typeof provider === 'object' && provider.provide) {\n            // At this point we have what looks like a provider:\n            {provide: ?, ...}\n            var /** @type {?} */ token = resolveForwardRef(provider.provide);\n            var /**\n            @type {?} */ resolvedProvider = resolveProvider(provider);\n            if (provider.multi === true) {\n                //\n                This is a multi provider.\n                var /** @type {?} */ multiProvider = records.get(token);\n                if\n                (multiProvider) {\n                    if (multiProvider.fn !== MULTI_PROVIDER_FN) {\n                        throw\n                        multiProviderMixError(token);\n                    }\n                }\n                else {\n                    // Create a placeholder\n                    factory which will look up the constituents of the multi provider.\n                    records.set(token, multiProvider =\n                    /** @type {?} */ ({\n                        token: provider.provide,\n                        deps: [],\n                        useNew:\n                        false,\n                        fn: MULTI_PROVIDER_FN,\n                        value: EMPTY\n                    }));\n                }\n                // Treat the provider as the token.\n                token = provider;\n                multiProvider.deps.push({\n                token: token, options: 6 /* Default */ });\n            }\n            var /** @type {?} */ record = records.get(token);\n            if (record && record.fn === MULTI_PROVIDER_FN) {\n                throw multiProviderMixError(token);\n            }\n            records.set(token, resolvedProvider);\n        }\n        else {\n            throw staticError('Unexpected\n            provider', provider);\n        }\n    }\n}\n\n/** @type {?} */ token\n * @param {?} record\n * @param {?} records\n * @param {?} parent\n * @param {?} notFoundValue\n * @return {?} */\n * \\nfunction tryResolveToken(token,\nrecord, records, parent, notFoundValue) {\n    try {\n        return resolveToken(token, record, records, parent,\n        notFoundValue);\n    } catch (** @type {?} */ e) {\n        // ensure that 'e' is of type Error.\n        if (!(e\n        instanceof Error)) {\n            e = new Error(e);\n        }\n        var /** @type {?} */ path =\n        e[NG_TEMP_TOKEN_PATH] = e[NG_TEMP_TOKEN_PATH] || [];\n        path.unshift(token);\n        if (record\n        && record.value === CIRCULAR) {\n            // Reset the Circular flag.\n            record.value = EMPTY;\n        }\n        throw e;\n    }\n}\n\n/** @type {?} */ token\n * @param {?} record\n * @param {?} records\n * @param {?} parent\n * @param {?} notFoundValue\n * @return {?} */\n * \\nfunction resolveToken(token, record, records, parent,\nnotFoundValue) {\n    var /** @type {?} */ value;\n    if (record) {\n        // If we don't have a record, this implies\n        that we don't own the provider hence don't know how\n        // to resolve it.\n        value = record.value;\n        if\n        (value === CIRCULAR) {\n            throw Error(NO_NEW_LINE + 'Circular dependency');\n        }\n        else if\n        (value === EMPTY) {\n            record.value = CIRCULAR;\n            var /** @type {?} */ obj = undefined;\n            var /** @type {?} */ useNew = record.useNew;\n            var /** @type {?} */ fn = record.fn;\n            var /**\n            @type {?} */ depRecords = record.deps;\n            var /** @type {?} */ deps = EMPTY;\n            if\n            (depRecords.length) {\n                deps = [];\n                for (var /** @type {?} */ i = 0; i < depRecords.length; i++)\n                {\n                    var /** @type {?} */ depRecord = depRecords[i];\n                    var /** @type {?} */ options =\n                    depRecord.options;\n                    var /** @type {?} */ childRecord = options & 2 /* CheckSelf */\n                    records.get(depRecord.token) : undefined;\n                    deps.push(tryResolveToken(\n                    // Current Token\n                    to resolve\n                    depRecord.token, childRecord, records, \n                    // If we don't know how to resolve\n                    dependency and we should not check parent for it,\n                    // than pass in Null injector.\n                    !childRecord && !(options & 4 /* CheckParent */) ? NULL_INJECTOR : parent, options & 1 /* Optional */ ? null :\n                    Injector.THROW_IF_NOT_FOUND));\n                }\n                record.value = value = useNew ? new ((_a\n                = (** @type {?} */ (fn)).bind.apply(_a, [void 0].concat(deps)))() : fn.apply(obj, deps));\n            }\n        }\n        else {\n            value = parent.get(token, notFoundValue);\n        }\n        return value;\n    }\n}\n\n/** @type {?} */ token\n * @param {?} provider\n * @return {?} */\n * \\nfunction computeDeps(provider) {\n    var /** @type {?} */ deps = EMPTY;\n    var /** @type\n    {?} */ providerDeps = (** @type {?} */ (provider)).deps;\n    if (providerDeps && providerDeps.length) {\n        deps = [];\n        for (var /** @type {?} */ i = 0; i < providerDeps.length; i++) {\n            var /** @type {?} */\n            options = 6;\n            var /** @type {?} */ token = resolveForwardRef(providerDeps[i]);\n            if (token\n            instanceof Array) {\n                for (var /** @type {?} */ j = 0, /** @type {?} */ annotations = token; j <\n                annotations.length; j++) {\n                    var /** @type {?} */ annotation = annotations[j];\n                    if\n                    (annotation instanceof Optional || annotation === Optional) {\n                        options = options | 1 /* Optional */;\n                    }\n                }\n            }\n        }\n    }\n}\n
```



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additional information about the error.\n    var /** @type {?} */ errorLogger = getErrorLogger(error);\n    errorLogger(this._console, "ERROR", error);\n    if (originalError) {\n        errorLogger(this._console,\n        "ORIGINAL ERROR", originalError);\n    }\n    if (context) {\n        errorLogger(this._console, 'ERROR\n    CONTEXT', context);\n    }\n};\n/** @internal */\n/**\n * \\@internal\n * @param {?} error\n * @return {?}\n */\nError.prototype._findContext = /**\n * \\@internal\n * @param {?} error\n * @return {?}\n */\nfunction (error) {\n    if (error) {\n        return getDebugContext(error) ?\n        getDebugContext(error) : this._findContext(getOriginalError(error));\n    }\n    return null;\n};\n/** @internal */\n/**\n * \\@internal\n * @param {?} error\n * @return {?}\n */\nError.prototype._findOriginalError = /**\n * \\@internal\n * @param {?} error\n * @return {?}\n */\nfunction (error) {\n    var /** @type {?} */ e = getOriginalError(error);\n    while (e &&\n    getOriginalError(e)) {\n        e = getOriginalError(e);\n    }\n    return e;\n};\nreturn\n    ErrorHandler;\n})();\n/**\n * @param {?} message\n * @param {?} originalError\n * @return {?}\n */\nfunction\n    wrappedError(message, originalError) {\n    var /** @type {?} */ msg = message + " caused by: " + (originalError\n    instanceof Error ? originalError.message : originalError);\n    var /** @type {?} */ error = Error(msg);\n    (/**\n    @type {?} */ (error))[ERROR_ORIGINAL_ERROR] = originalError;\n    return error;\n}\n\n/**\n * @fileoverview\n    added by tsickle\n * @suppress {checkTypes} checked by tsc\n */\n\n * @license\n * Copyright Google Inc. All\n    Rights Reserved.\n * Use of this source code is governed by an MIT-style license that can be\n * found in the\n    LICENSE file at https://angular.io/license\n */\n\n * @param {?} keys\n * @return {?}\n */\nfunction\n    findFirstClosedCycle(keys) {\n    var /** @type {?} */ res = [];\n    for (var /** @type {?} */ i = 0; i < keys.length;\n    ++i) {\n        if (res.indexOf(keys[i]) > -1) {\n            res.push(keys[i]);\n            return res;\n        }\n        res.push(keys[i]);\n    }\n    return res;\n}\n\n * @param {?} keys\n * @return {?}\n */\nfunction\n    constructResolvingPath(keys) {\n    if (keys.length > 1) {\n        var /** @type {?} */ reversed =\n        findFirstClosedCycle(keys.slice().reverse());\n        var /** @type {?} */ tokenStrs = reversed.map(function (k) {\n        return stringify(k.token); });\n        return '(' + tokenStrs.join(' -> ') + ');\n    }\n    return ";\n}\n\n * @record\n * \\n\n * @param {?} injector\n * @param {?} key\n * @param {?} constructResolvingMessage\n * @param\n    {?}= originalError\n * @return {?}\n */\nfunction\n    injectionError(injector, key, constructResolvingMessage,\n    originalError) {\n    var /** @type {?} */ keys = [key];\n    var /** @type {?} */ errMsg =\n    constructResolvingMessage(keys);\n    var /** @type {?} */ error = /** @type {?} */ ((originalError ?\n    wrappedError(errMsg, originalError) : Error(errMsg));\n    error.addKey = addKey;\n    error.keys = keys;\n    error.injectors = [injector];\n    error.constructResolvingMessage = constructResolvingMessage;\n    (/** @type {?} */\n    (error))[ERROR_ORIGINAL_ERROR] = originalError;\n    return error;\n}\n\n * @this {?}\n * @param {?} injector\n * @param {?} key\n * @return {?}\n */\nfunction\n    addKey(injector, key) {\n    this.injectors.push(injector);\n    this.keys.push(key);\n    // Note: This updated message won't be reflected in the\n    `stack` property\n    this.message = this.constructResolvingMessage(this.keys);\n}\n\n * Thrown when trying to\n    retrieve a dependency by key from {\\@link Injector}, but the\n * {\\@link Injector} does not have a {\\@link\n    Provider} for the given key.\n */\n\n * ### Example ([live\n    demo](http://plnkr.co/edit/vq8D3FRB9aGbnWJqtEPE?p=preview))\n */\n\n * ``typescript\n * class A {\n *   constructor(b:B) {\n *     expect(() => Injector.resolveAndCreate([A])).toThrowError();\n *   }\n * }\n * @param\n    {?} injector\n * @param {?} key\n * @return {?}\n */\nfunction\n    noProviderError(injector, key) {\n    return\n    injectionError(injector, key, function (keys) {\n        var /** @type {?} */ first = stringify(keys[0].token);\n        return "No provider for " + first + "! " + constructResolvingPath(keys);\n    });\n}\n\n * Thrown when\n    dependencies form a cycle.\n */\n\n * ### Example ([live\n    demo](http://plnkr.co/edit/wYQdNos0Tzql3ei1EV9j?p=info))\n */\n\n * ``typescript\n * var injector =\n    Injector.resolveAndCreate([\n *   { provide: "one", useFactory: (two) => "two", deps: [[new Inject("two")]] },\n *   { provide: "two", useFactory: (one) => "one", deps: [[new Inject("one")]] }\n * ]);\n * expect(() =>\n    injector.get("one")).toThrowError();\n * Retrieving `A` or `B` throws a `CyclicDependencyError` as the\n    graph above cannot be constructed.\n * @param {?} injector\n * @param {?} key\n * @return {?}\n */\nfunction\n    cyclicDependencyError(injector, key) {\n    return\n    injectionError(injector, key, function (keys) {\n        return

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No replacement\n *\nvar ReflectiveKey = /** @class */ (function () {\n  /**\n   * Private\n   *\n   function\n   ReflectiveKey(token, id) {\n     this.token = token;\n     this.id = id;\n     if (!token) {\n       throw new\n       Error('Token must be defined!');\n     }\n     this.displayName = stringify(this.token);\n   }\n  /**\n   *  
Retrieves a `Key` for a token.\n   *\n   /**\n   * Retrieves a `Key` for a token.\n   * @param {?} token\n   *  
@return {?} \n   *\n   ReflectiveKey.get = /**\n   * Retrieves a `Key` for a token.\n   * @param {?} token\n   *  
@return {?} \n   *\n   function (token) {\n     return _globalKeyRegistry.get(resolveForwardRef(token));\n   }; \n   Object.defineProperty(ReflectiveKey, 'numberOfKeys', {\n     /**\n      * @returns the number of keys  
registered in the system.\n     *\n     get: /**\n      * @return {?} the number of keys registered in the system.\n     *\n     *\n     function () { return _globalKeyRegistry.numberOfKeys; },\n     enumerable: true,\n     configurable:  
true\n   });\n   return ReflectiveKey;\n });\n\nvar KeyRegistry = /** @class */ (function () {\n  function\n  KeyRegistry() {\n    this._allKeys = new Map();\n  }\n  /**\n   * @param {?} token\n   * @return {?} \n   *\n   KeyRegistry.prototype.get = /**\n   * @param {?} token\n   * @return {?} \n   *\n   function (token) {\n     if (token instanceof ReflectiveKey)\n       return token;\n     if (this._allKeys.has(token)) {\n       return /**  
@type {?} */ ((this._allKeys.get(token))); \n     }\n     var /** @type {?} */ newKey = new ReflectiveKey(token,  
ReflectiveKey.numberOfKeys);\n     this._allKeys.set(token, newKey);\n     return newKey;\n   }; \n   Object.defineProperty(KeyRegistry.prototype, 'numberOfKeys', {\n     get: /**\n      * @return {?} \n     *\n     *\n     function () { return this._allKeys.size; },\n     enumerable: true,\n     configurable: true\n   });\n   return  
KeyRegistry;\n });\n\nvar _globalKeyRegistry = new KeyRegistry();\n\n/**\n * @fileoverview added by tsickle\n * @suppress {checkTypes} checked by tsc\n *\n/**\n * @license\n * Copyright Google Inc. All Rights Reserved.\n *\n * Use of this source code is governed by an MIT-style license that can be\n * found in the LICENSE file at  
https://angular.io/license\n *\n/**\n * @@whatItDoes Represents a type that a Component or other object is  
instances of.\n *\n/**\n * @@description\n *\n * An example of a `Type` is `MyCustomComponent` class, which in  
JavaScript is be represented by\n *\n * the `MyCustomComponent` constructor function.\n *\n * @@stable\n *\nvar  
Type = Function;\n\n/**\n * @param {?} v\n * @return {?} \n *\nfunction isType(v) {\n  return typeof v ===  
'function';\n}\n\n/**\n * @fileoverview added by tsickle\n * @suppress {checkTypes} checked by tsc\n *\n/**\n * @license\n * Copyright Google Inc. All Rights Reserved.\n *\n * Use of this source code is governed by an MIT-  
style license that can be\n * found in the LICENSE file at https://angular.io/license\n *\n/**\n * Attention: This  
regex has to hold even if the code is minified!\n *\nvar DELEGATE_CTOR =  
/^function\s+\|S+\|(\|)\|s*\{[\|s\|S]+\|.apply\|(this,\|s*arguments\|)\|;\nvar ReflectionCapabilities = /** @class */  
(function () {\n  function ReflectionCapabilities(reflect) {\n    this._reflect = reflect || _global['Reflect'];\n  }\n  /**\n   * @return {?} \n   *\n   ReflectionCapabilities.prototype.isReflectionEnabled = /**\n   * @return {?} \n   *\n   function () { return true; }; \n   /**\n   * @template T\n   * @param {?} t\n   * @return {?} \n   *\n   ReflectionCapabilities.prototype.factory = /**\n   * @template T\n   * @param {?} t\n   * @return {?} \n   *\n   function (t) {\n     return function () {\n       var args = [];\n       for (var _i = 0; _i < arguments.length; _i++) {\n         args[_i] = arguments[_i];\n       }\n       return new (t.bind.apply(t, [void 0].concat(args)))();\n     }; \n   }; \n   /**  
@internal\n   *\n   /**\n   * @@internal\n   * @param {?} paramTypes\n   * @param {?} paramAnnotations\n   * @return {?} \n   *\n   ReflectionCapabilities.prototype._zipTypesAndAnnotations = /**\n   * @@internal\n   *  
@param {?} paramTypes\n   * @param {?} paramAnnotations\n   * @return {?} \n   *\n   function  
(paramTypes, paramAnnotations) {\n     var /** @type {?} */ result;\n     if (typeof paramTypes === 'undefined')  
{\n       result = new Array(paramAnnotations.length);\n     }\n     else {\n       result = new  
Array(paramTypes.length);\n     }\n     for (var /** @type {?} */ i = 0; i < result.length; i++) {\n       // TS  
outputs Object for parameters without types, while Traceur omits\n       // the annotations. For now we preserve  
the Traceur behavior to aid\n       // migration, but this can be revisited.\n       if (typeof paramTypes ===  
'undefined') {\n         result[i] = [];\n       }\n       else if (paramTypes[i] != Object) {\n         result[i] =  
[paramTypes[i];\n       ]\n       }\n       else {\n         result[i] = [];\n       }\n       if (paramAnnotations &&  
paramAnnotations[i] != null) {\n         result[i] = result[i].concat(paramAnnotations[i]);\n       }\n     }\n     return result;\n   }; \n   /**\n   * @param {?} type\n   * @param {?} parentCtor\n   * @return {?} \n   *\n   ReflectionCapabilities.prototype._ownParameters = /**\n   * @param {?} type\n   * @param {?} parentCtor\n
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* @return {?} \n * \n function (type, parentCtor) { \n // If we have no decorators, we only have
function.length as metadata. \n // In that case, to detect whether a child class declared an own constructor or
not, \n // we need to look inside of that constructor to check whether it is \n // just calling the parent. \n //
This also helps to work around for https://github.com/Microsoft/TypeScript/issues/12439 \n // that sets
'design:paramtypes' to [] \n // if a class inherits from another class but has no ctor declared itself. \n if
(DELEGATE_CTOR.exec(type.toString())) { \n return null; \n } \n // Prefer the direct API. \n if
((/** @type {?} */ (type)).parameters && (/** @type {?} */ (type)).parameters !== parentCtor.parameters) { \n
return (/** @type {?} */ (type)).parameters; \n } \n // API of tsickle for lowering decorators to properties on
the class. \n var /** @type {?} */ tsickleCtorParams = (/** @type {?} */ (type)).ctorParameters; \n if
(tsickleCtorParams && tsickleCtorParams !== parentCtor.ctorParameters) { \n // Newer tsickle uses a
function closure \n // Retain the non-function case for compatibility with older tsickle \n var /** @type
{?} */ ctorParameters = typeof tsickleCtorParams === 'function' ? tsickleCtorParams() : tsickleCtorParams; \n
var /** @type {?} */ paramTypes_1 = ctorParameters.map(function (ctorParam) { return ctorParam &&
ctorParam.type; }); \n var /** @type {?} */ paramAnnotations_1 = ctorParameters.map(function (ctorParam)
{ \n return ctorParam && convertTsickleDecoratorIntoMetadata(ctorParam.decorators); \n }); \n
return this._zipTypesAndAnnotations(paramTypes_1, paramAnnotations_1); \n } \n // API for metadata
created by invoking the decorators. \n var /** @type {?} */ paramAnnotations =
type.hasOwnProperty(PARAMETERS) && (/** @type {?} */ (type))[PARAMETERS]; \n var /** @type {?}
*/ paramTypes = this._reflect && this._reflect.getOwnMetadata && \n
this._reflect.getOwnMetadata('design:paramtypes', type); \n if (paramTypes || paramAnnotations) { \n
return this._zipTypesAndAnnotations(paramTypes, paramAnnotations); \n } \n // If a class has no decorators,
at least create metadata \n // based on function.length. \n // Note: We know that this is a real constructor as
we checked \n // the content of the constructor above. \n return new Array((/** @type {?} */
(type.length))).fill(undefined); \n }; \n /** \n * @param {?} type \n * @return {?} \n * \n
ReflectionCapabilities.prototype.parameters = /** \n * @param {?} type \n * @return {?} \n * \n function
(type) { \n // Note: only report metadata if we have at least one class decorator \n // to stay in sync with the
static reflector. \n if (!isType(type)) { \n return []; \n } \n var /** @type {?} */ parentCtor =
getParentCtor(type); \n var /** @type {?} */ parameters = this._ownParameters(type, parentCtor); \n if
(!parameters && parentCtor !== Object) { \n parameters = this.parameters(parentCtor); \n } \n return
parameters || []; \n }; \n /** \n * @param {?} typeOrFunc \n * @param {?} parentCtor \n * @return {?} \n
* \n ReflectionCapabilities.prototype._ownAnnotations = /** \n * @param {?} typeOrFunc \n * @param {?}
parentCtor \n * @return {?} \n * \n function (typeOrFunc, parentCtor) { \n // Prefer the direct API. \n if
((/** @type {?} */ (typeOrFunc)).annotations && (/** @type {?} */ (typeOrFunc)).annotations !==
parentCtor.annotations) { \n var /** @type {?} */ annotations = (/** @type {?} */
(typeOrFunc)).annotations; \n if (typeof annotations === 'function' && annotations.annotations) { \n
annotations = annotations.annotations; \n } \n return annotations; \n } \n // API of tsickle for
lowering decorators to properties on the class. \n if ((/** @type {?} */ (typeOrFunc)).decorators && (/** @type
{?} */ (typeOrFunc)).decorators !== parentCtor.decorators) { \n return
convertTsickleDecoratorIntoMetadata((/** @type {?} */ (typeOrFunc)).decorators); \n } \n // API for
metadata created by invoking the decorators. \n if (typeOrFunc.hasOwnProperty(ANNOTATIONS)) { \n
return (/** @type {?} */ (typeOrFunc))[ANNOTATIONS]; \n } \n return null; \n }; \n /** \n * @param
{?} typeOrFunc \n * @return {?} \n * \n ReflectionCapabilities.prototype.annotations = /** \n * @param
{?} typeOrFunc \n * @return {?} \n * \n function (typeOrFunc) { \n if (!isType(typeOrFunc)) { \n
return []; \n } \n var /** @type {?} */ parentCtor = getParentCtor(typeOrFunc); \n var /** @type {?} */
ownAnnotations = this._ownAnnotations(typeOrFunc, parentCtor) || []; \n var /** @type {?} */
parentAnnotations = parentCtor !== Object ? this.annotations(parentCtor) : []; \n return
parentAnnotations.concat(ownAnnotations); \n }; \n /** \n * @param {?} typeOrFunc \n * @param {?}
parentCtor \n * @return {?} \n * \n ReflectionCapabilities.prototype._ownPropMetadata = /** \n * @param

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{?} typeOrFunc\n    * @param {?} parentCtor\n    * @return {?}\n    *^\n    function (typeOrFunc, parentCtor) {\n
      // Prefer the direct API.\n      if ((/** @type {?} */ (typeOrFunc)).propMetadata &&\n        /** @type {?} */ (typeOrFunc)).propMetadata !== parentCtor.propMetadata) {\n        var /** @type {?} */ propMetadata = /** @type {?} */ (typeOrFunc).propMetadata;\n        if (typeof propMetadata === 'function' && propMetadata.propMetadata) {\n          propMetadata = propMetadata.propMetadata;\n        }\n        return propMetadata;\n      }\n      // API of tsickle for lowering decorators to properties on the class.\n      if ((/** @type {?} */ (typeOrFunc)).propDecorators &&\n        /** @type {?} */ (typeOrFunc)).propDecorators !== parentCtor.propDecorators) {\n        var /** @type {?} */ propDecorators_1 = /** @type {?} */ (typeOrFunc).propDecorators;\n        var /** @type {?} */ propMetadata_1 = /** @type {?} */ ({});\n        Object.keys(propDecorators_1).forEach(function (prop) {\n          propMetadata_1[prop] = convertTsickleDecoratorIntoMetadata(propDecorators_1[prop]);\n        });\n        return propMetadata_1;\n      }\n      // API for metadata created by invoking the decorators.\n      if (typeOrFunc.hasOwnProperty(PROP_METADATA)) {\n        return /** @type {?} */ (typeOrFunc)[PROP_METADATA];\n      }\n      return null;\n    };\n    /**\n    * @param {?} typeOrFunc\n    * @return {?}\n    *^\n    ReflectionCapabilities.prototype.propMetadata = /**\n    * @param {?} typeOrFunc\n    * @return {?}\n    *^\n    function (typeOrFunc) {\n      if (isType(typeOrFunc)) {\n        return {};\n      }\n      var /** @type {?} */ parentCtor = getParentCtor(typeOrFunc);\n      var /** @type {?} */ propMetadata = {};\n      if (parentCtor !== Object) {\n        var /** @type {?} */ parentPropMetadata_1 = this.propMetadata(parentCtor);\n        Object.keys(parentPropMetadata_1).forEach(function (propName) {\n          propMetadata[propName] = parentPropMetadata_1[propName];\n        });\n        var /** @type {?} */ ownPropMetadata = this._ownPropMetadata(typeOrFunc, parentCtor);\n        if (ownPropMetadata) {\n          Object.keys(ownPropMetadata).forEach(function (propName) {\n            var /** @type {?} */ decorators = [];\n            if (propMetadata.hasOwnProperty(propName)) {\n              decorators.push.apply(decorators, propMetadata[propName]);\n            }\n            decorators.push.apply(decorators, ownPropMetadata[propName]);\n            propMetadata[propName] = decorators;\n          });\n        }\n        return propMetadata;\n      };\n      /**\n      * @param {?} type\n      * @param {?} lcProperty\n      * @return {?}\n      *^\n      ReflectionCapabilities.prototype.hasLifecycleHook = /**\n      * @param {?} type\n      * @param {?} lcProperty\n      * @return {?}\n      *^\n      function (type, lcProperty) {\n        return type instanceof Type && lcProperty in type.prototype;\n      };\n      /**\n      * @param {?} type\n      * @return {?}\n      *^\n      ReflectionCapabilities.prototype.guards = /**\n      * @param {?} type\n      * @return {?}\n      *^\n      function (type) {\n        return {};;\n      };\n      /**\n      * @param {?} name\n      * @return {?}\n      *^\n      ReflectionCapabilities.prototype.getter = /**\n      * @param {?} name\n      * @return {?}\n      *^\n      function (name) {\n        return /** @type {?} */ (new Function('o', 'return o.' + name + ';'));\n      };\n      /**\n      * @param {?} name\n      * @return {?}\n      *^\n      ReflectionCapabilities.prototype.setter = /**\n      * @param {?} name\n      * @return {?}\n      *^\n      function (name) {\n        return /** @type {?} */ (new Function('o', 'v', 'return o.' + name + ' = v;'));\n      };\n      /**\n      * @param {?} name\n      * @return {?}\n      *^\n      ReflectionCapabilities.prototype.method = /**\n      * @param {?} name\n      * @return {?}\n      *^\n      function (name) {\n        var /** @type {?} */ functionBody = \"if (!o.\" + name + \") throw new Error(\"\\\"\\\" + name + '\\\"\\\" is undefined');\n        return o.\" + name + \".apply(o, args);\";\n        return /** @type {?} */ (new Function('o', 'args', functionBody));\n      };\n      // There is not a concept of import uri in Js, but this is useful in developing Dart applications.\n      /**\n      * @param {?} type\n      * @return {?}\n      *^\n      ReflectionCapabilities.prototype.importUri = /**\n      * @param {?} type\n      * @return {?}\n      *^\n      function (type) {\n        // StaticSymbol\n        if (typeof type === 'object' && type['filePath']) {\n          return type['filePath'];\n        }\n        // Runtime type\n        return \"\\.\" + stringify(type);\n      };\n      /**\n      * @param {?} type\n      * @return {?}\n      *^\n      ReflectionCapabilities.prototype.resourceUri = /**\n      * @param {?} type\n      * @return {?}\n      *^\n      function (type) {\n        return \"\\.\" + stringify(type);\n      };\n      /**\n      * @param {?} name\n      * @param {?} moduleUrl\n      * @param {?} members\n      * @param {?} runtime\n      * @return {?}\n      *^\n      ReflectionCapabilities.prototype.resolveIdentifier = /**\n      * @param {?} name\n      * @param {?} moduleUrl\n      * @param {?} members\n      * @param {?} runtime\n      * @return {?}\n      *^\n      function (name, moduleUrl,

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members, runtime) {\n    return runtime;\n    };\n    /**\n     * @param {?} enumIdentifier\n     * @param {?} name\n     * @return {?} \n     */\n    ReflectionCapabilities.prototype.resolveEnum = /**\n     * @param {?} enumIdentifier\n     * @param {?} name\n     * @return {?} \n     */\n    function (enumIdentifier, name) { return enumIdentifier[name]; }; \n    return ReflectionCapabilities;\n  }());\n  /**\n   * @param {?} decoratorInvocations\n   * @return {?} \n   */\n  function convertTsickleDecoratorIntoMetadata(decoratorInvocations) {\n    if (!decoratorInvocations) {\n      return [];\n    }\n    return decoratorInvocations.map(function (decoratorInvocation) {\n      var /** @type {?} */ decoratorType = decoratorInvocation.type;\n      var /** @type {?} */ annotationCls = decoratorType.annotationCls;\n      var /** @type {?} */ annotationArgs = decoratorInvocation.args ? decoratorInvocation.args : [];\n      return new (annotationCls.bind.apply(annotationCls, [void 0].concat(annotationArgs)));\n    });\n  }\n  /**\n   * @param {?} ctor\n   * @return {?} \n   */\n  function getParentCtor(ctor) {\n    var /** @type {?} */ parentProto = Object.getPrototypeOf(ctor.prototype);\n    var /** @type {?} */ parentCtor = parentProto ? parentProto.constructor : null;\n    // Note: We always use `Object` as the null value\n    // to simplify checking later on.\n    return parentCtor || Object;\n  }\n  /**\n   * @fileoverview added by tsickle\n   * @suppress {checkTypes} checked by tsc\n   * \n   * \n   * \n   * @license\n   * Copyright Google Inc. All Rights Reserved.\n   * \n   * Use of this source code is governed by an MIT-style license that can be\n   * found in the LICENSE file at https://angular.io/license\n   * \n   * Provides access to reflection data about symbols. Used internally by Angular\n   * to power dependency injection and compilation.\n   * \n   * \n   * \n   * @class *\n   * (function () {\n   *   function Reflector(reflectionCapabilities) {\n   *     this.reflectionCapabilities = reflectionCapabilities;\n   *   }\n   *   /**\n   *    * @param {?} caps\n   *    * @return {?} \n   */\n   *   Reflector.prototype.updateCapabilities = /**\n   *    * @param {?} caps\n   *    * @return {?} \n   */\n   *   function (caps) {\n   *     this.reflectionCapabilities = caps; \n   *   }; \n   *   /**\n   *    * @param {?} type\n   *    * @return {?} \n   */\n   *   Reflector.prototype.factory = /**\n   *    * @param {?} type\n   *    * @return {?} \n   */\n   *   function (type) {\n   *     return this.reflectionCapabilities.factory(type); \n   *   }; \n   *   /**\n   *    * @param {?} typeOrFunc\n   *    * @return {?} \n   */\n   *   Reflector.prototype.parameters = /**\n   *    * @param {?} typeOrFunc\n   *    * @return {?} \n   */\n   *   function (typeOrFunc) {\n   *     return this.reflectionCapabilities.parameters(typeOrFunc); \n   *   }; \n   *   /**\n   *    * @param {?} typeOrFunc\n   *    * @return {?} \n   */\n   *   Reflector.prototype.annotations = /**\n   *    * @param {?} typeOrFunc\n   *    * @return {?} \n   */\n   *   function (typeOrFunc) {\n   *     return this.reflectionCapabilities.annotations(typeOrFunc); \n   *   }; \n   *   /**\n   *    * @param {?} typeOrFunc\n   *    * @return {?} \n   */\n   *   Reflector.prototype.propMetadata = /**\n   *    * @param {?} typeOrFunc\n   *    * @return {?} \n   */\n   *   function (typeOrFunc) {\n   *     return this.reflectionCapabilities.propMetadata(typeOrFunc); \n   *   }; \n   *   /**\n   *    * @param {?} type\n   *    * @param {?} lcProperty\n   *    * @return {?} \n   */\n   *   Reflector.prototype.hasLifecycleHook = /**\n   *    * @param {?} type\n   *    * @param {?} lcProperty\n   *    * @return {?} \n   */\n   *   function (type, lcProperty) {\n   *     return this.reflectionCapabilities.hasLifecycleHook(type, lcProperty); \n   *   }; \n   *   /**\n   *    * @param {?} name\n   *    * @return {?} \n   */\n   *   Reflector.prototype.getter = /**\n   *    * @param {?} name\n   *    * @return {?} \n   */\n   *   function (name) {\n   *     return this.reflectionCapabilities.getter(name); \n   *   }; \n   *   /**\n   *    * @param {?} name\n   *    * @return {?} \n   */\n   *   Reflector.prototype.setter = /**\n   *    * @param {?} name\n   *    * @return {?} \n   */\n   *   function (name) {\n   *     return this.reflectionCapabilities.setter(name); \n   *   }; \n   *   /**\n   *    * @param {?} name\n   *    * @return {?} \n   */\n   *   Reflector.prototype.method = /**\n   *    * @param {?} name\n   *    * @return {?} \n   */\n   *   function (name) {\n   *     return this.reflectionCapabilities.method(name); \n   *   }; \n   *   /**\n   *    * @param {?} type\n   *    * @return {?} \n   */\n   *   Reflector.prototype.importUri = /**\n   *    * @param {?} type\n   *    * @return {?} \n   */\n   *   function (type) {\n   *     return this.reflectionCapabilities.importUri(type); \n   *   }; \n   *   /**\n   *    * @param {?} type\n   *    * @return {?} \n   */\n   *   Reflector.prototype.resourceUri = /**\n   *    * @param {?} type\n   *    * @return {?} \n   */\n   *   function (type) {\n   *     return this.reflectionCapabilities.resourceUri(type); \n   *   }; \n   *   /**\n   *    * @param {?} name\n   *    * @param {?} moduleUrl\n   *    * @param {?} members\n   *    * @param {?} runtime\n   *    * @return {?} \n   */\n   *   Reflector.prototype.resolveIdentifier = /**\n   *    * @param {?} name\n   *    * @param {?} moduleUrl\n   *    * @param {?} members\n   *    * @param {?} runtime\n   *    * @return {?} \n   */\n   *   function (name, moduleUrl, members, runtime) {\n   *     return this.reflectionCapabilities.resolveIdentifier(name, moduleUrl, members, runtime); \n   *   }; \n  }

```

```

/**\n * @param {?} identifier\n * @param {?} name\n * @return {?}\n */\n
Reflector.prototype.resolveEnum = /**\n * @param {?} identifier\n * @param {?} name\n * @return {?}\n */\n function (identifier, name) {\n return this.reflectionCapabilities.resolveEnum(identifier, name);\n }\n
return Reflector;\n})();\n\n/**\n * @fileoverview added by tsickle\n * @suppress {checkTypes} checked by tsc\n */\n\n/**\n * @license\n * Copyright Google Inc. All Rights Reserved.\n * Use of this source code is governed by an MIT-style license that can be\n * found in the LICENSE file at https://angular.io/license\n */\n\n/**\n * The {@link Reflector} used internally in Angular to access metadata\n * about symbols.\n */\nvar reflector = new Reflector(new ReflectionCapabilities());\n\n/**\n * @fileoverview added by tsickle\n * @suppress {checkTypes} checked by tsc\n */\n\n/**\n * @license\n * Copyright Google Inc. All Rights Reserved.\n * Use of this source code is governed by an MIT-style license that can be\n * found in the LICENSE file at https://angular.io/license\n */\n\n/**\n * `Dependency` is used by the framework to extend DI.\n * This is internal to Angular and should not be used directly.\n */\nvar ReflectiveDependency = /** @class */ (function () {\n function ReflectiveDependency(key, optional, visibility) {\n this.key = key;\n this.optional = optional;\n this.visibility = visibility;\n }\n /**\n * @param {?} key\n * @return {?}\n */\n ReflectiveDependency.fromKey = /**\n * @param {?} key\n * @return {?}\n */\n function (key) {\n return new ReflectiveDependency(key, false, null);\n }; \n return ReflectiveDependency;\n})();\nvar _EMPTY_LIST = [];\n\n/**\n * An internal resolved representation of a {@link Provider} used by the {@link Injector}.\n * It is usually created automatically by `Injector.resolveAndCreate`.\n * It can be created manually, as follows:\n * ### Example ([live demo](http://plnkr.co/edit/RfEnh8kUEI0G3qsnIeT?p%3Dpreview&p=preview))\n */\nvar resolvedProviders = Injector.resolve([ { provide: 'message', useValue: 'Hello' }]);\nvar injector = Injector.fromResolvedProviders(resolvedProviders);\nexpect(injector.get('message')).toEqual('Hello');\n\n/**\n * @experimental\n * @record\n */\nvar ResolvedReflectiveProvider = /** @class */ (function () {\n function ResolvedReflectiveProvider_(key, resolvedFactories, multiProvider) {\n this.key = key;\n this.resolvedFactories = resolvedFactories;\n this.multiProvider = multiProvider;\n this.resolvedFactory = this.resolvedFactories[0];\n }\n return ResolvedReflectiveProvider_;\n})();\n\n/**\n * An internal resolved representation of a factory function created by resolving {@link Provider}.\n * @experimental\n */\nvar ResolvedReflectiveFactory = /** @class */ (function () {\n function ResolvedReflectiveFactory(factory, dependencies) {\n this.factory = factory;\n this.dependencies = dependencies;\n }\n return ResolvedReflectiveFactory;\n})();\n\n/**\n * Resolve a single provider.\n * @param {?} provider\n * @return {?}\n */\nfunction resolveReflectiveFactory(provider) {\n var /** @type {?} */ factoryFn;\n var /** @type {?} */ resolvedDeps;\n if (provider.useClass) {\n var /** @type {?} */ useClass = resolveForwardRef(provider.useClass);\n factoryFn = reflector.factory(useClass);\n resolvedDeps = _dependenciesFor(useClass);\n }\n else if (provider.useExisting) {\n factoryFn = function (aliasInstance) {\n return aliasInstance; }; \n resolvedDeps = [ReflectiveDependency.fromKey(ReflectiveKey.get(provider.useExisting))];\n }\n else if (provider.useFactory) {\n factoryFn = provider.useFactory;\n resolvedDeps = constructDependencies(provider.useFactory, provider.deps);\n }\n else {\n factoryFn = function () { return provider.useValue; }; \n resolvedDeps = _EMPTY_LIST;\n }\n return new ResolvedReflectiveFactory(factoryFn, resolvedDeps);\n}\n\n/**\n * Converts the {@link Provider} into {@link ResolvedProvider}.\n * {@link Injector} internally only uses {@link ResolvedProvider}, {@link Provider} contains\n * convenience provider syntax.\n * @param {?} provider\n * @return {?}\n */\nfunction resolveReflectiveProvider(provider) {\n return new ResolvedReflectiveProvider_(ReflectiveKey.get(provider.provide), [resolveReflectiveFactory(provider)], provider.multi || false);\n}\n\n/**\n * Resolve a list of Providers.\n * @param {?} providers\n * @return {?}\n */\nfunction resolveReflectiveProviders(providers) {\n var /** @type {?} */ normalized = _normalizeProviders(providers, []);\n var /** @type {?} */ resolved = normalized.map(resolveReflectiveProvider);\n var /** @type {?} */ resolvedProviderMap = mergeResolvedReflectiveProviders(resolved, new Map());\n return

```

```

Array.from(resolvedProviderMap.values());\n\n/**\n * Merges a list of ResolvedProviders into a list where\n * each key is contained exactly once and multi providers\n * have been merged.\n * @param {?} providers\n * @param {?} normalizedProvidersMap\n * @return {?}\n */\nfunction\nmergeResolvedReflectiveProviders(providers, normalizedProvidersMap) {\n  for (var /** @type {?} */ i = 0; i <\n    providers.length; i++) {\n    var /** @type {?} */ provider = providers[i];\n    var /** @type {?} */ existing =\n      normalizedProvidersMap.get(provider.key.id);\n    if (existing) {\n      if (provider.multiProvider !==\n        existing.multiProvider) {\n        throw mixingMultiProvidersWithRegularProvidersError(existing, provider);\n      }\n      if (provider.multiProvider) {\n        for (var /** @type {?} */ j = 0; j <\n          provider.resolvedFactories.length; j++) {\n            existing.resolvedFactories.push(provider.resolvedFactories[j]);\n          }\n        } else {\n          normalizedProvidersMap.set(provider.key.id, provider);\n        }\n      } else {\n        var /** @type {?} */\n        /** resolvedProvider = void 0;\n        if (provider.multiProvider) {\n          resolvedProvider = new\n          ResolvedReflectiveProvider_(provider.key, provider.resolvedFactories.slice(), provider.multiProvider);\n        }\n        else {\n          resolvedProvider = provider;\n        }\n        normalizedProvidersMap.set(provider.key.id, resolvedProvider);\n      }\n    }\n  }\n  return\n  normalizedProvidersMap;\n}\n\n/**\n * @param {?} providers\n * @param {?} res\n * @return {?}\n */\nfunction\n_normalizeProviders(providers, res) {\n  providers.forEach(function (b) {\n    if (b instanceof Type) {\n      res.push({ provide: b, useClass: b });\n    } else if (b && typeof b == 'object' && (** @type {?} */\n      (b)).provide !== undefined) {\n      res.push(** @type {?} */ (b));\n    } else if (b instanceof Array) {\n      _normalizeProviders(b, res);\n    } else {\n      throw invalidProviderError(b);\n    }\n  });\n  return res;\n}\n\n/**\n * @param {?} typeOrFunc\n * @param {?=} dependencies\n * @return {?}\n */\nfunction\nconstructDependencies(typeOrFunc, dependencies) {\n  if (!dependencies) {\n    return\n    _dependenciesFor(typeOrFunc);\n  } else {\n    var /** @type {?} */ params_1 = dependencies.map(function\n      (t) { return [t]; });\n    return dependencies.map(function (t) { return _extractToken(typeOrFunc, t, params_1);\n      });\n  }\n}\n\n/**\n * @param {?} typeOrFunc\n * @return {?}\n */\nfunction\n_dependenciesFor(typeOrFunc) {\n  var /** @type {?} */ params = reflector.parameters(typeOrFunc);\n  if (!params)\n    return [];\n  if\n  (params.some(function (p) { return p == null; })) {\n    throw noAnnotationError(typeOrFunc, params);\n  }\n  return params.map(function (p) { return _extractToken(typeOrFunc, p, params);\n    });\n}\n\n/**\n * @param {?} typeOrFunc\n * @param {?} metadata\n * @param {?} params\n * @return {?}\n */\nfunction\n_extractToken(typeOrFunc, metadata, params) {\n  var /** @type {?} */ token = null;\n  var /** @type {?} */\n  optional = false;\n  if (!Array.isArray(metadata)) {\n    if (metadata instanceof Inject) {\n      return\n      _createDependency(metadata.token, optional, null);\n    } else {\n      return\n      _createDependency(metadata, optional, null);\n    }\n  }\n  var /** @type {?} */ visibility = null;\n  for (var\n    /** @type {?} */ i = 0; i < metadata.length; ++i) {\n    var /** @type {?} */ paramMetadata = metadata[i];\n    if (paramMetadata instanceof Type) {\n      token = paramMetadata;\n    } else if (paramMetadata\n      instanceof Inject) {\n      token = paramMetadata.token;\n    } else if (paramMetadata instanceof\n      Optional) {\n      optional = true;\n    } else if (paramMetadata instanceof\n      Self || paramMetadata\n      instanceof SkipSelf) {\n      visibility = paramMetadata;\n    } else if (paramMetadata instanceof\n      InjectionToken) {\n      token = paramMetadata;\n    }\n  }\n  token = resolveForwardRef(token);\n  if\n  (token != null) {\n    return _createDependency(token, optional, visibility);\n  } else {\n    throw\n    noAnnotationError(typeOrFunc, params);\n  }\n}\n\n/**\n * @param {?} token\n * @param {?} optional\n * @param {?} visibility\n * @return {?}\n */\nfunction\n_createDependency(token, optional, visibility) {\n  return\n  new ReflectiveDependency(ReflectiveKey.get(token), optional, visibility);\n}\n\n/**\n * @fileoverview added by\n * tsickle\n * @suppress {checkTypes} checked by tsc\n */\n\n/**\n * @license\n * Copyright Google Inc. All Rights\n * Reserved.\n * Use of this source code is governed by an MIT-style license that can be\n * found in the\n * LICENSE file at https://angular.io/license\n */\n\n// Threshold for the dynamic version\nvar UNDEFINED = new\nObject();\n\n/**\n * A ReflectiveDependency injection container used for instantiating objects and resolving\n * dependencies.\n * An `Injector` is a replacement for a `new` operator, which can automatically resolve the\n *

```

constructor dependencies.
 In typical use, application code asks for the dependencies in the constructor and they are resolved by the `Injector`.
 Example (live demo)(<http://plnr.co/edit/jzjec0?p=preview>)
 The following example creates an `Injector` configured to create `Engine` and `Car`.
 typescript

```

  @Injectable()
  class Engine {}
  @Injectable()
  class Car {
    constructor(public engine: Engine) {}
  }
  var injector = ReflectiveInjector.resolveAndCreate([Car, Engine]);
  var car = injector.get(Car);
  expect(car instanceof Car).toBe(true);
  expect(car.engine instanceof Engine).toBe(true);
  
```

 Notice, we don't use the `new` operator because we explicitly want to have the `Injector` resolve all of the object's dependencies automatically.
 @deprecated from v5 - slow and brings in a lot of code, Use `Injector.create` instead.
 @abstract
 nvar ReflectiveInjector = /** @class */ (function () {
 function ReflectiveInjector() {}
 /**
 * Turns an array of provider definitions into an array of resolved providers.
 * A resolution is a process of flattening multiple nested arrays and converting individual providers into an array of [ResolvedReflectiveProvider](#)s.
 * Example (live demo)(<http://plnr.co/edit/AiXTHi?p=preview>)
 * typescript
 * @Injectable()
 * class Engine {}
 * @Injectable()
 * class Car {
 * constructor(public engine: Engine) {}
 * }
 * var providers = ReflectiveInjector.resolve([Car, [[Engine]]]);
 * expect(providers.length).toEqual(2);
 * expect(providers[0] instanceof ResolvedReflectiveProvider).toBe(true);
 * expect(providers[0].key.displayName).toBe('Car');
 * expect(providers[0].dependencies.length).toEqual(1);
 * expect(providers[0].factory).toBeDefined();
 * expect(providers[1].key.displayName).toBe('Engine');
 * }
 * See [@link ReflectiveInjector#fromResolvedProviders fromResolvedProviders](#) for more info.
 * Turns an array of provider definitions into an array of resolved providers.
 * A resolution is a process of flattening multiple nested arrays and converting individual providers into an array of [@link ResolvedReflectiveProvider](#)s.
 * Example (live demo)(<http://plnr.co/edit/AiXTHi?p=preview>)
 * typescript
 * @Injectable()
 * class Engine {}
 * @Injectable()
 * class Car {
 * constructor(public engine: Engine) {}
 * }
 * var providers = ReflectiveInjector.resolve([Car, [[Engine]]]);
 * expect(providers.length).toEqual(2);
 * expect(providers[0] instanceof ResolvedReflectiveProvider).toBe(true);
 * expect(providers[0].key.displayName).toBe('Car');
 * expect(providers[0].dependencies.length).toEqual(1);
 * expect(providers[0].factory).toBeDefined();
 * expect(providers[1].key.displayName).toBe('Engine');
 * }
 * See [@link ReflectiveInjector#fromResolvedProviders fromResolvedProviders](#) for more info.
 * @param {?} providers
 * @return {?}
 * ReflectiveInjector.resolve = /**
 * Turns an array of provider definitions into an array of resolved providers.
 * A resolution is a process of flattening multiple nested arrays and converting individual providers into an array of [@link ResolvedReflectiveProvider](#)s.
 * Example (live demo)(<http://plnr.co/edit/AiXTHi?p=preview>)
 * typescript
 * @Injectable()
 * class Engine {}
 * @Injectable()
 * class Car {
 * constructor(public engine: Engine) {}
 * }
 * var providers = ReflectiveInjector.resolve([Car, [[Engine]]]);
 * expect(providers.length).toEqual(2);
 * expect(providers[0] instanceof ResolvedReflectiveProvider).toBe(true);
 * expect(providers[0].key.displayName).toBe('Car');
 * expect(providers[0].dependencies.length).toEqual(1);
 * expect(providers[0].factory).toBeDefined();
 * expect(providers[1].key.displayName).toBe('Engine');
 * }
 * See [@link ReflectiveInjector#fromResolvedProviders fromResolvedProviders](#) for more info.
 * @param {?} providers
 * @return {?}
 * function (providers) {
 * return resolveReflectiveProviders(providers);
 * };
 * Resolves an array of providers and creates an injector from those providers.
 * The passed-in providers can be an array of `Type`, [@link Provider](#), or a recursive array of more providers.
 * Example (live demo)(<http://plnr.co/edit/ePOccA?p=preview>)
 * typescript
 * @Injectable()
 * class Engine {}
 * @Injectable()
 * class Car {
 * constructor(public engine: Engine) {}
 * }
 * var injector = ReflectiveInjector.resolveAndCreate([Car, Engine]);
 * expect(injector.get(Car) instanceof Car).toBe(true);
 * This function is slower than the corresponding


```

`fromResolvedProviders`\n * because it needs to resolve the passed-in providers first.\n * See {@link
ReflectiveInjector#resolve resolve} and\n * {@link ReflectiveInjector#fromResolvedProviders
fromResolvedProviders}.\n * ^\n /**\n * Resolves an array of providers and creates an injector from those
providers.\n *\n * The passed-in providers can be an array of `Type`, {@link Provider},\n * or a recursive
array of more providers.\n *\n * ### Example ([live demo](http://plnkr.co/edit/ePOccA?p=preview))\n *\n * ```typescript\n * @@Injectable()\n * class Engine {\n * }\n * @@Injectable()\n * class Car {\n
* constructor(public engine:Engine) {\n * }\n * }\n * var injector =
ReflectiveInjector.resolveAndCreate([Car, Engine]);\n * expect(injector.get(Car) instanceof Car).toBe(true);\n
* ```\n *\n * This function is slower than the corresponding `fromResolvedProviders`\n * because it needs to
resolve the passed-in providers first.\n * See {@link ReflectiveInjector#resolve resolve} and\n * {@link
ReflectiveInjector#fromResolvedProviders fromResolvedProviders}.\n * @param {?} providers\n * @param
{?=} parent\n * @return {?}\n * ^\n ReflectiveInjector.resolveAndCreate = /**\n * Resolves an array of
providers and creates an injector from those providers.\n *\n * The passed-in providers can be an array of
`Type`, {@link Provider},\n * or a recursive array of more providers.\n *\n * ### Example ([live
demo](http://plnkr.co/edit/ePOccA?p=preview))\n *\n * ```typescript\n * @@Injectable()\n * class Engine
{\n * }\n * @@Injectable()\n * class Car {\n * constructor(public engine:Engine) {\n * }\n * }\n
*\n * var injector = ReflectiveInjector.resolveAndCreate([Car, Engine]);\n * expect(injector.get(Car) instanceof
Car).toBe(true);\n * ```\n *\n * This function is slower than the corresponding `fromResolvedProviders`\n
* because it needs to resolve the passed-in providers first.\n * See {@link ReflectiveInjector#resolve resolve}
and\n * {@link ReflectiveInjector#fromResolvedProviders fromResolvedProviders}.\n * @param {?}
providers\n * @param {?=} parent\n * @return {?}\n * ^\n function (providers, parent) {\n var /**
@type {?} */ ResolvedReflectiveProviders = ReflectiveInjector.resolve(providers);\n return
ReflectiveInjector.fromResolvedProviders(ResolvedReflectiveProviders, parent);\n }; \n /**\n * Creates an
injector from previously resolved providers.\n *\n * This API is the recommended way to construct injectors in
performance-sensitive parts.\n *\n * ### Example ([live demo](http://plnkr.co/edit/KrSMci?p=preview))\n
*\n * ```typescript\n * @Injectable()\n * class Engine {\n * }\n * @Injectable()\n * class Car
{\n * constructor(public engine:Engine) {\n * }\n * }\n * var providers = ReflectiveInjector.resolve([Car,
Engine]);\n * var injector = ReflectiveInjector.fromResolvedProviders(providers);\n * expect(injector.get(Car)
instanceof Car).toBe(true);\n * ```\n *\n * @experimental\n * ^\n /**\n * Creates an injector from previously
resolved providers.\n *\n * This API is the recommended way to construct injectors in performance-sensitive
parts.\n *\n * ### Example ([live demo](http://plnkr.co/edit/KrSMci?p=preview))\n *\n * ```typescript\n
* @@Injectable()\n * class Engine {\n * }\n * @@Injectable()\n * class Car {\n *
constructor(public engine:Engine) {\n * }\n * }\n * var providers = ReflectiveInjector.resolve([Car,
Engine]);\n * var injector = ReflectiveInjector.fromResolvedProviders(providers);\n * expect(injector.get(Car)
instanceof Car).toBe(true);\n * ```\n *\n * @experimental\n * @param {?} providers\n * @param {?=}
parent\n * @return {?}\n * ^\n ReflectiveInjector.fromResolvedProviders = /**\n * Creates an injector from
previously resolved providers.\n *\n * This API is the recommended way to construct injectors in performance-
sensitive parts.\n *\n * ### Example ([live demo](http://plnkr.co/edit/KrSMci?p=preview))\n *\n *
```typescript\n * @@Injectable()\n * class Engine {\n * }\n * @@Injectable()\n * class Car {\n *
constructor(public engine:Engine) {\n * }\n * }\n * var providers = ReflectiveInjector.resolve([Car,
Engine]);\n * var injector = ReflectiveInjector.fromResolvedProviders(providers);\n * expect(injector.get(Car)
instanceof Car).toBe(true);\n * ```\n *\n * @experimental\n * @param {?} providers\n * @param {?=}
parent\n * @return {?}\n * ^\n function (providers, parent) {\n return new ReflectiveInjector_(providers,
parent);\n }; \n return ReflectiveInjector._(this); \n } \n nvar ReflectiveInjector_ = /** @class */ (function () {\n /**\n
* Private\n * ^\n function ReflectiveInjector_(providers, parent) {\n /**\n * @internal\n * ^\n
this._constructionCounter = 0;\n this._providers = providers;\n this.parent = parent || null;\n var /**
@type {?} */ len = providers.length;\n this.keyIds = new Array(len);\n this.objs = new Array(len);\n
for (var /** @type {?} */ i = 0; i < len; i++) {\n this.keyIds[i] = providers[i].key.id;\n this.objs[i] =

```



```

else {\n return this._getByKeyDefault(key, notFoundValue, visibility);\n }\n };\n /**\n * @param\n {?}\n keyId\n * @return {?}\n */\n ReflectiveInjector_.prototype._getObjByKeyId = /**\n * @param {?}\n keyId\n * @return {?}\n */\n function (keyId) {\n for (var /** @type {?} */ i = 0; i < this.keyIds.length;\n i++) {\n if (this.keyIds[i] === keyId) {\n if (this.objs[i] === UNDEFINED) {\n this.objs[i] = this._new(this._providers[i]);\n }\n return this.objs[i];\n }\n }\n return UNDEFINED;\n };\n /** @internal */\n /**\n * @param {?}\n key\n * @param\n {?}\n notFoundValue\n * @return {?}\n */\n ReflectiveInjector_.prototype._throwOrNull = /**\n * @internal\n * @param {?}\n key\n * @param {?}\n notFoundValue\n * @return {?}\n */\n function (key,\n notFoundValue) {\n if (notFoundValue !== THROW_IF_NOT_FOUND) {\n return notFoundValue;\n }\n else {\n throw noProviderError(this, key);\n }\n };\n /** @internal */\n /**\n * @param {?}\n key\n * @param {?}\n notFoundValue\n * @return {?}\n */\n ReflectiveInjector_.prototype._getByKeySelf = /**\n * @internal\n * @param {?}\n key\n * @param {?}\n notFoundValue\n * @return {?}\n */\n function (key, notFoundValue) {\n var /** @type {?} */ obj =\n this._getObjByKeyId(key.id);\n return (obj !== UNDEFINED) ? obj : this._throwOrNull(key,\n notFoundValue);\n };\n /** @internal */\n /**\n * @param {?}\n key\n * @param {?}\n notFoundValue\n * @param {?}\n visibility\n * @return {?}\n */\n ReflectiveInjector_.prototype._getByKeyDefault = /**\n * @internal\n * @param {?}\n key\n * @param {?}\n notFoundValue\n * @param {?}\n visibility\n * @return {?}\n */\n function (key, notFoundValue, visibility)\n {\n var /** @type {?} */ inj;\n if (visibility instanceof SkipSelf) {\n inj = this.parent;\n }\n else {\n inj = this;\n }\n while (inj instanceof ReflectiveInjector_) {\n var /** @type {?} */\n inj_ = /** @type {?} */ (inj);\n var /** @type {?} */ obj = inj_._getObjByKeyId(key.id);\n if (obj !==\n UNDEFINED)\n return obj;\n inj = inj_.parent;\n }\n if (inj !== null) {\n return\n inj.get(key.token, notFoundValue);\n }\n else {\n return this._throwOrNull(key, notFoundValue);\n }\n };\n Object.defineProperty(ReflectiveInjector_.prototype, 'displayName', {\n get: /**\n * @return {?}\n */\n function () {\n var /** @type {?} */ providers = _mapProviders(this, function\n (b) {\n return ' ' + b.key.displayName + ' ';\n })\n .join(', ');\n return "ReflectiveInjector(providers:\n [" + providers + "])";\n },\n enumerable: true,\n configurable: true\n });\n /**\n * @return\n {?}\n */\n ReflectiveInjector_.prototype.toString = /**\n * @return {?}\n */\n function () {\n return\n this.displayName;\n };\n ReflectiveInjector_.INJECTOR_KEY = ReflectiveKey.get(Injector);\n return\n ReflectiveInjector_;\n }();\n /**\n * @param {?}\n injector\n * @param {?}\n fn\n * @return {?}\n */\n function\n _mapProviders(injector, fn) {\n var /** @type {?} */ res = new Array(injector._providers.length);\n for (var /**\n @type {?} */ i = 0; i < injector._providers.length; ++i) {\n res[i] = fn(injector.getProviderAtIndex(i));\n }\n return res;\n }\n \n /**\n * @fileoverview added by tsickle\n * @suppress {checkTypes} checked by tsc\n */\n /**\n * @license\n * Copyright Google Inc. All Rights Reserved.\n * Use of this source code is governed by an MIT-\n style\n license that can be\n * found in the LICENSE file at https://angular.io/license\n */\n /**\n * @module\n * @description\n * The `di` module provides dependency injection container services.\n */\n /**\n * @fileoverview\n added by tsickle\n * @suppress {checkTypes} checked by tsc\n */\n /**\n * @license\n * Copyright Google Inc. All\n Rights\n Reserved.\n * Use of this source code is governed by an MIT-style license that can be\n * found in the\n LICENSE\n file at https://angular.io/license\n */\n /**\n * Determine if the argument is shaped like a Promise\n */\n /**\n * @param {?}\n obj\n * @return {?}\n */\n function isPromise(obj) {\n // allow any Promise/A+ compliant thenable.\n \n // It's up to the caller to ensure that obj.then conforms to the spec\n return !!obj && typeof obj.then ===\n 'function';\n }\n /**\n * Determine if the argument is an Observable\n */\n /**\n * @param {?}\n obj\n * @return {?}\n */\n function isObservable(obj) {\n // TODO use Symbol.observable when\n \n https://github.com/ReactiveX/rxjs/issues/2415 will be resolved\n return !!obj && typeof obj.subscribe ===\n 'function';\n }\n \n /**\n * @fileoverview added by tsickle\n * @suppress {checkTypes} checked by tsc\n */\n /**\n * @license\n * Copyright Google Inc. All Rights Reserved.\n * Use of this source code is governed by an MIT-\n style\n license that can be\n * found in the LICENSE file at https://angular.io/license\n */\n /**\n * A function that will\n be\n executed when an application is initialized.\n */\n /** @experimental */\n var APP_INITIALIZER = new

```

```

InjectionToken('Application_INITIALIZER');\n/**\n * A class that reflects the state of running {\@link
APP_INITIALIZER}s.\n *\n * \{@experimental\n *\nvar ApplicationInitStatus = /** @class */ (function () {\n
function ApplicationInitStatus(appInits) {\n var _this = this;\n this.appInits = appInits;\n this.initialized
= false;\n this.done = false;\n this.donePromise = new Promise(function (res, rej) {\n _this.resolve =
res;\n _this.reject = rej;\n });\n }\n /** @internal *\n /**\n * \{@internal\n * @return {?}\n
*\n * \ ApplicationInitStatus.prototype.runInitializers = /**\n * \{@internal\n * @return {?}\n * \n function
() {\n var _this = this;\n if (this.initialized) {\n return;\n }\n var /** @type {?} */
asyncInitPromises = [];\n var /** @type {?} */ complete = function () {\n (** @type {?} */
(_this)).done = true;\n _this.resolve();\n }; \n if (this.appInits) {\n for (var /** @type {?} */ i =
0; i < this.appInits.length; i++) {\n var /** @type {?} */ initResult = this.appInits[i]();\n if
(isPromise(initResult)) {\n asyncInitPromises.push(initResult);\n }\n }\n }\n Promise.all(asyncInitPromises).then(function () { complete(); }).catch(function (e) { _this.reject(e); });\n if
(asyncInitPromises.length === 0) {\n complete();\n }\n this.initialized = true;\n };\n
ApplicationInitStatus.decorators = [\n { type: Injectable },\n];\n /** @nocollapse *\n
ApplicationInitStatus.ctorParameters = function () { return [\n { type: Array, decorators: [{ type: Inject, args:
[APP_INITIALIZER,] }, { type: Optional,] },\n];\n }; \n return ApplicationInitStatus;\n})();\n\n/**\n *
@fileoverview added by tsickle\n * @suppress {checkTypes} checked by tsc\n *\n/**\n * @license\n * Copyright
Google Inc. All Rights Reserved.\n *\n * Use of this source code is governed by an MIT-style license that can be\n *
found in the LICENSE file at https://angular.io/license\n *\n/**\n * A DI Token representing a unique string id
assigned to the application by Angular and used\n * primarily for prefixing application attributes and CSS styles
when\n * {\@link ViewEncapsulation#Emulated ViewEncapsulation.Emulated} is being used.\n *\n * If you need
to avoid randomly generated value to be used as an application id, you can provide\n * a custom value via a DI
provider <!-- TODO: provider --> configuring the root {\@link Injector}\n * using this token.\n *
\{\@experimental\n *\nvar APP_ID = new InjectionToken('AppId');\n/**\n * @return {?}\n *\nfunction
_appIdRandomProviderFactory() {\n return \"\" + _randomChar() + _randomChar() + _randomChar();\n}\n\n/**\n *
Providers that will generate a random APP_ID_TOKEN.\n *\n\{\@experimental\n *\nvar
APP_ID_RANDOM_PROVIDER = {\n provide: APP_ID,\n useFactory: _appIdRandomProviderFactory,\n
deps: /** @type {?} */ ([],\n);\n\n/**\n * @return {?}\n *\nfunction _randomChar() {\n return
String.fromCharCode(97 + Math.floor(Math.random() * 25));\n}\n\n/**\n * A function that will be executed when a
platform is initialized.\n *\n\{\@experimental\n *\nvar PLATFORM_INITIALIZER = new InjectionToken('Platform
Initializer');\n/**\n * A token that indicates an opaque platform id.\n *\n\{\@experimental\n *\nvar PLATFORM_ID
= new InjectionToken('Platform ID');\n/**\n * All callbacks provided via this token will be called for every
component that is bootstrapped.\n * Signature of the callback:\n *\n * `(componentRef: ComponentRef) => void`.\n
*\n *\n\{\@experimental\n *\nvar APP_BOOTSTRAP_LISTENER = new
InjectionToken('appBootstrapListener');\n/**\n * A token which indicates the root directory of the application\n *
\{\@experimental\n *\nvar PACKAGE_ROOT_URL = new InjectionToken('Application Packages Root
URL');\n\n/**\n * @fileoverview added by tsickle\n * @suppress {checkTypes} checked by tsc\n *\n/**\n * @license\n * Copyright Google Inc. All Rights Reserved.\n *\n * Use of this source code is governed by an MIT-
style license that can be\n * found in the LICENSE file at https://angular.io/license\n *\nvar Console = /** @class
*/ (function () {\n function Console() {\n }\n /**\n * @param {?} message\n * @return {?}\n * \n
Console.prototype.log = /**\n * @param {?} message\n * @return {?}\n * \n function (message) {\n //
tslint:disable-next-line:no-console\n console.log(message);\n };\n // Note: for reporting errors use
`DOM.logError()` as it is platform specific\n /**\n * @param {?} message\n * @return {?}\n * \n
Console.prototype.warn = /**\n * @param {?} message\n * @return {?}\n * \n function (message) {\n
// tslint:disable-next-line:no-console\n console.warn(message);\n };\n Console.decorators = [\n { type:
Injectable },\n];\n /** @nocollapse *\n Console.ctorParameters = function () { return [] }; \n return
Console;\n})();\n\n/**\n * @fileoverview added by tsickle\n * @suppress {checkTypes} checked by tsc\n *\n/**\n *
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```

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```
 * Combination of
NgModuleFactory and ComponentFactories.
 * \\@experimental
 * \\nvar ModuleWithComponentFactories =
/** @class */ (function () {
 function ModuleWithComponentFactories(ngModuleFactory, componentFactories)
 {
 this.ngModuleFactory = ngModuleFactory;
 this.componentFactories = componentFactories;
 }
 return ModuleWithComponentFactories;
})();
 * @return {?}
 * \\nfunction _throwError() {
 throw new
 Error("Runtime compiler is not loaded");
}
 * Low-level service for running the angular compiler during
runtime
 * to create {@link ComponentFactory}s, which can later be used to create and render a Component
instance.
 * Each `@NgModule` provides an own `Compiler` to its injector, that will use the
directives/pipes of the ng module for compilation of components.
 * \\@stable
 * \\nvar Compiler = /** @class
 */ (function () {
 function Compiler() {}
 /**
 * Compiles the given NgModule and all of its
components. All templates of the components listed in `entryComponents` have to be inlined.
 * \\n
 * \\n
 * Compiles the given NgModule and all of its components. All templates of the components listed in
`entryComponents` have to be inlined.
 * @template T
 * @param {?} moduleType
 * @return {?}
 * \\n
 * \\n
 * Compiler.prototype.compileModuleSync = /**
 * Compiles the given NgModule and all of its
components. All templates of the components listed in `entryComponents` have to be inlined.
 * @template T
 * @param {?} moduleType
 * @return {?}
 * \\n
 * \\n
 * function (moduleType) {
 throw
 _throwError();
};
 * Compiles the given NgModule and all of its components
 * \\n
 * \\n
 * Compiles the given NgModule and all of its components
 * @template T
 * @param {?} moduleType
 * @return {?}
 * \\n
 * \\n
 * Compiler.prototype.compileModuleAsync = /**
 * Compiles the given NgModule and
all of its components
 * @template T
 * @param {?} moduleType
 * @return {?}
 * \\n
 * \\n
 * function
 (moduleType) {
 throw _throwError();
};
 * Same as {@link #compileModuleSync} but also creates
ComponentFactories for all components.
 * \\n
 * \\n
 * Same as {@link #compileModuleSync} but also
creates ComponentFactories for all components.
 * @template T
 * @param {?} moduleType
 * @return
 {?}
 * \\n
 * \\n
 * Compiler.prototype.compileModuleAndAllComponentsSync = /**
 * Same as {@link
#compileModuleSync} but also creates ComponentFactories for all components.
 * @template T
 * @param
 {?} moduleType
 * @return
 {?}
 * \\n
 * \\n
 * function (moduleType) {
 throw _throwError();
};
 * Same as {@link #compileModuleAsync} but also creates ComponentFactories for all components.
 * \\n
 * \\n
 * Same as {@link #compileModuleAsync} but also creates ComponentFactories for all components.
 * @template T
 * @param {?} moduleType
 * @return
 {?}
 * \\n
 * \\n
 * Compiler.prototype.compileModuleAndAllComponentsAsync = /**
 * Same as {@link
#compileModuleAsync} but also creates ComponentFactories for all components.
 * @template T
 *
 @param {?} moduleType
 * @return
 {?}
 * \\n
 * \\n
 * function (moduleType) {
 throw _throwError();
};
 * Clears all caches.
 * \\n
 * \\n
 * Clears all caches.
 * @return {?}
 * \\n
 * \\n
 * Compiler.prototype.clearCache = /**
 * Clears all caches.
 * @return {?}
 * \\n
 * \\n
 * function () {
};
 * Clears the cache for the given component/ngModule.
 * \\n
 * \\n
 * Clears the cache for the given
component/ngModule.
 * @param {?} type
 * @return
 {?}
 * \\n
 * \\n
 * Compiler.prototype.clearCacheFor =
/**
 * Clears the cache for the given component/ngModule.
 * @param {?} type
 * @return
 {?}
 * \\n
 * \\n
 * function (type) {
};
 * Compiler.decorators = [
 { type: Injectable },
];
 * @nocollapse
 * \\n
 * Compiler.ctorParameters = function () {
 return [];
};
 return Compiler;
})();
 * Token to provide
CompilerOptions in the platform injector.
 * \\n
 * \\n
 * \\@experimental
 * \\nvar COMPILER_OPTIONS = new
InjectionToken('compilerOptions');
 * \\n
 * \\n
 * A factory for creating a Compiler
 * \\n
 * \\n
 * \\@experimental
 *
 @abstract
 * \\nvar CompilerFactory = /** @class */ (function () {
 function CompilerFactory() {}
 }
 return CompilerFactory;
})();
 * \\n
 * \\n
 * @fileoverview added by tsickle
 * @suppress {checkTypes} checked by
ts
 * \\n
 * \\n
 * @license
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 * \\n
 * Use of this source code is
governed by an MIT-style license that can be found in the LICENSE file at https://angular.io/license
 * \\n
 * \\n
 * Represents an instance of a Component created via a {@link ComponentFactory}.
 * \\n
 * \\n
 * `ComponentRef`
provides access to the Component Instance as well other objects related to this Component Instance and allows
you to destroy the Component Instance via the {@link #destroy} method.
 * \\n
 * \\n
 * \\@stable
 * @abstract
```

```

*^nvar ComponentRef = /** @class */ (function () {
 function ComponentRef() {}
 return ComponentRef;
})();
n/**n * \\@stablen * @abstractn */
nvar ComponentFactory = /** @class */ (function () {
 function ComponentFactory() {}
 return ComponentFactory;
})();
n/**n * @fileoverview added by tsickle
n * @suppress {checkTypes} checked by tsc
n */
n/**n * @license
n * Copyright Google Inc. All Rights Reserved.
n */
n * Use of this source code is governed by an MIT-style license that can be
n * found in the LICENSE file at https://angular.io/license
n */
n/**n * @param {?} component
n * @return {?} */
nfunction noComponentFactoryError(component) {
 var /** @type {?} */ error = Error("No component factory found for '" +
 stringify(component) + "'. Did you add it to @NgModule.entryComponents?");
 (/** @type {?} */ (error))[ERROR_COMPONENT] = component;
 return error;
}
nvar ERROR_COMPONENT = 'ngComponent';
n/**n * @param {?} error
n * @return {?} */
nfunction _NullComponentFactoryResolver = /** @class */ (function () {
 function _NullComponentFactoryResolver() {}
 /**n * @template T
n * @param {?} component
n * @return {?} */
 _NullComponentFactoryResolver.prototype.resolveComponentFactory = /**n * @template T
n * @param {?} component
n * @return {?} */
 function (component) {
 throw noComponentFactoryError(component);
 };
 return _NullComponentFactoryResolver;
})();
n/**n * \\@stablen * @abstractn */
nvar ComponentFactoryResolver = /** @class */ (function () {
 function ComponentFactoryResolver() {}
 ComponentFactoryResolver.NULL = new _NullComponentFactoryResolver();
 return ComponentFactoryResolver;
})();
nvar CodegenComponentFactoryResolver = /** @class */ (function () {
 function CodegenComponentFactoryResolver(factories, _parent, _ngModule) {
 this._parent = _parent;
 this._ngModule = _ngModule;
 this._factories = new Map();
 for (var /** @type {?} */ i = 0; i < factories.length; i++) {
 var /** @type {?} */ factory = factories[i];
 this._factories.set(factory.componentType, factory);
 }
 }
 /**n * @template T
n * @param {?} component
n * @return {?} */
 CodegenComponentFactoryResolver.prototype.resolveComponentFactory = /**n * @template T
n * @param {?} component
n * @return {?} */
 function (component) {
 var /** @type {?} */ factory = this._factories.get(component);
 if (!factory && this._parent) {
 factory = this._parent.resolveComponentFactory(component);
 }
 if (!factory) {
 throw noComponentFactoryError(component);
 }
 return new ComponentFactoryBoundToModule(factory, this._ngModule);
 };
 return CodegenComponentFactoryResolver;
})();
nvar ComponentFactoryBoundToModule = /** @class */ (function (_super) {
 __extends(ComponentFactoryBoundToModule, _super);
 function ComponentFactoryBoundToModule(factory, ngModule) {
 var _this = _super.call(this) || this;
 _this.factory = factory;
 _this.ngModule = ngModule;
 _this.selector = factory.selector;
 _this.componentType = factory.componentType;
 _this.ngContentSelectors = factory.ngContentSelectors;
 _this.inputs = factory.inputs;
 _this.outputs = factory.outputs;
 return _this;
 }
 /**n * @param {?} injector
n * @param {?}=? projectableNodes
n * @param {?}=? rootSelectorOrNode
n * @param {?}=? ngModule
n * @return {?} */
 ComponentFactoryBoundToModule.prototype.create = /**n * @param {?} injector
n * @param {?}=? projectableNodes
n * @param {?}=? rootSelectorOrNode
n * @param {?}=? ngModule
n * @return {?} */
 function (injector, projectableNodes, rootSelectorOrNode, ngModule) {
 return this.factory.create(injector, projectableNodes, rootSelectorOrNode, ngModule || this.ngModule);
 };
 return ComponentFactoryBoundToModule;
})(ComponentFactory);
n/**n * @fileoverview added by tsickle
n * @suppress {checkTypes} checked by tsc
n */
n/**n * @license
n * Copyright Google Inc. All Rights Reserved.
n */
n * Use of this source code is governed by an MIT-style license that can be
n * found in the LICENSE file at https://angular.io/license
n */
n * Represents an instance of an NgModule created via a {\\@link NgModuleFactory}.
n * `NgModuleRef` provides access to the NgModule Instance as well other objects related to this
n * NgModule Instance.
n */
n/**n * \\@stablen * @abstractn */
nvar NgModuleRef = /** @class */ (function () {
 function NgModuleRef() {}
 return NgModuleRef;
})();
n/**n * @record
n */
n/**n * \\@experimentaln * @abstractn */
nvar NgModuleFactory = /** @class */ (function () {
 function

```

```

NgModuleFactory() {\n }\n return NgModuleFactory;\n})();\n\n/**\n * @fileoverview added by tsickle\n * @suppress {checkTypes} checked by tsc\n */\n\n/**\n * @license\n * Copyright Google Inc. All Rights Reserved.\n *\n * Use of this source code is governed by an MIT-style license that can be\n * found in the LICENSE file at\n * https://angular.io/license\n */\n\n/**\n * A scope function for the Web Tracing Framework (WTF).\n *\n * @experimental\n * @record\n *\n * @record\n *\n * @record\n *\n * @record\n *\n * @record\n *\n * @return {?}\n */\nfunction detectWTF() {\n var /** @type {?} */ wtf = (/** @type {?} */\n (_global /** TODO #9100 */) /** TODO #9100 */)[wtf];\n if (wtf) {\n trace = wtf['trace'];\n if (trace) {\n events = trace['events'];\n return true;\n }\n }\n return false;\n}\n\n/**\n * @param {?}\n * @param {=?} flags\n * @return {?}\n */\nfunction createScope(signature, flags) {\n if (flags ===\n void 0) {\n flags = null;\n }\n return events.createScope(signature, flags);\n}\n\n/**\n * @template T\n * @param {?}\n * @param {=?} returnValue\n * @return {?}\n */\nfunction leave(scope, returnValue) {\n trace.leaveScope(scope, returnValue);\n return returnValue;\n}\n\n/**\n * @param {?} rangeType\n * @param {?}\n * @return {?}\n */\nfunction startTimeRange(rangeType, action) {\n return\n trace.beginTimeRange(rangeType, action);\n}\n\n/**\n * @param {?} range\n * @return {?}\n */\nfunction\n endTimeRange(range) {\n trace.endTimeRange(range);\n }\n}\n\n/**\n * @fileoverview added by tsickle\n * @suppress {checkTypes} checked by tsc\n */\n\n/**\n * @license\n * Copyright Google Inc. All Rights Reserved.\n *\n * Use of this source code is governed by an MIT-style license that can be\n * found in the LICENSE file at\n * https://angular.io/license\n */\n\n/**\n * True if WTF is enabled.\n *\n * @param {=?} arg0\n * @param {=?} arg1\n * @return {?}\n */\nfunction noopScope(arg0, arg1) {\n return\n null;\n}\n\n/**\n * Create trace scope.\n *\n * Scopes must be strictly nested and are analogous to stack frames, but\n * do not have to follow the stack frames. Instead it is recommended that they follow logical\n * nesting. You may want to use\n * [Event\n * Signatures](http://google.github.io/tracing-framework/instrumenting-code.html#custom-\n * events)\n * as they are defined in WTF.\n *\n * Used to mark scope entry. The return value is used to leave the\n * scope.\n *\n * var myScope = wtfCreateScope('MyClass#myMethod(ascii someVal));\n *\n * someMethod()\n *\n * var s = myScope('Foo'); // 'Foo' gets stored in tracing UI\n * // DO SOME WORK HERE\n *\n * return wtfLeave(s, 123); // Return value 123\n *\n * Note, adding try-finally block around the work to\n * ensure that `wtfLeave` gets called can\n * negatively impact the performance of your application. For this reason we\n * recommend that\n * you don't add them to ensure that `wtfLeave` gets called. In production `wtfLeave` is a noop\n * and\n * so try-finally block has no value. When debugging perf issues, skipping `wtfLeave`, do\n * exception,\n * will produce incorrect trace, but presence of exception signifies logic error which\n * needs to be fixed before the\n * app should be profiled. Add try-finally only when you expect that\n * an exception is expected during normal\n * execution while profiling.\n *\n * @experimental\n *\n * @param {=?} signature, flags\n * @return {?}\n */\nfunction\n createScope(signature, flags) {\n return\n noopScope;\n }\n}\n\n/**\n * Used to mark end of Scope.\n *\n * - `scope` to end.\n * -\n * `returnValue` (optional) to be passed to the WTF.\n *\n * Returns the `returnValue` for easy chaining.\n *\n * @experimental\n *\n * @param {=?} s, r\n * @return r;\n */\nfunction\n leave(s, r) {\n return\n r;\n }\n}\n\n/**\n * Used to mark Async start. Async are similar to scope but they don't have to be strictly nested.\n * The return value is used in the\n * call to [endAsync]. Async ranges only work if WTF has been\n * enabled.\n *\n * someMethod() {\n * var s\n * = wtfStartTimeRange('HTTP:GET', 'some.url');\n * var future = new Future.delay(5).then(()) {\n * wtfEndTimeRange(s);\n * }\n * }\n *\n * @experimental\n *\n * @param {=?} rangeType, action\n * @return null;\n */\nfunction\n startTimeRange(rangeType, action) {\n return\n null;\n }\n}\n\n/**\n * Ends a async time range operation.\n *\n * [range] is the return value from [wtfStartTimeRange] Async ranges only work if WTF has been\n * enabled.\n *\n * @experimental\n *\n * @param {=?} r\n * @return null;\n */\nfunction\n endTimeRange(r) {\n return\n null;\n }\n}\n\n/**\n * @fileoverview added by tsickle\n * @suppress {checkTypes} checked by tsc\n */\n\n/**\n * @license\n * Copyright Google Inc. All Rights Reserved.\n *\n * Use of this source code is governed by an MIT-style license that\n * can be\n * found in the LICENSE file at https://angular.io/license\n */\n\n/**\n * Use by directives and components to\n * emit custom Events.\n *\n * ### Examples\n *\n * In the following example, `Zippy` alternatively emits `open` and\n * `close` events when its\n * title gets clicked:\n *\n * @Component({\n * selector: 'zippy',\n * template:\n * `<div class="zippy">\n * <div (click)="toggle()">Toggle</div>\n * <div [hidden]="!visible">\n
```





```

processWithinAngularZone() {\n * this.label = 'inside';\n * this.progress = 0;\n * this._increaseProgress()
=> console.log('Inside Done!');\n * } \n * // Loop outside of the Angular zone\n * // so the UI DOES NOT
refresh after each setTimeout cycle\n * processOutsideOfAngularZone() {\n * this.label = 'outside';\n *
this.progress = 0;\n * this._ngZone.runOutsideAngular() => {\n * this._increaseProgress() => {\n * //
reenter the Angular zone and display done\n * this._ngZone.run() => { console.log('Outside Done!'); }\n *
});\n * });\n * } \n * _increaseProgress(doneCallback: () => void) {\n * this.progress += 1;\n *
console.log(`Current progress: ${this.progress}%`);\n * if (this.progress < 100) {\n *
window.setTimeout(() => this._increaseProgress(doneCallback), 10);\n * } else {\n * doneCallback();\n *
}\n * } \n * } \n * ``\n * \n * @experimental\n * \n * nvar NgZone = /** @class */ (function () {\n * function
NgZone(_a) {\n * var _b = _a.enableLongStackTrace, enableLongStackTrace = _b === void 0 ? false : _b;\n *
this.hasPendingMicrotasks = false;\n * this.hasPendingMacrotasks = false;\n * /**\n * * Whether there are
no outstanding microtasks or macrotasks.\n * *\n * this.isStable = true;\n * /**\n * * Notifies when code
enters Angular Zone. This gets fired first on VM Turn.\n * *\n * this.onUnstable = new EventEmitter(false);\n *
 /**\n * * Notifies when there is no more microtasks enqueued in the current VM Turn.\n * * This is a hint
for Angular to do change detection, which may enqueue more microtasks.\n * * For this reason this event can fire
multiple times per VM Turn.\n * *\n * this.onMicrotaskEmpty = new EventEmitter(false);\n * /**\n * *
Notifies when the last `onMicrotaskEmpty` has run and there are no more microtasks, which\n * * implies we are
about to relinquish VM turn.\n * * This event gets called just once.\n * *\n * this.onStable = new
EventEmitter(false);\n * /**\n * * Notifies that an error has been delivered.\n * *\n * this.onError = new
EventEmitter(false);\n * if (typeof Zone === 'undefined') {\n * throw new Error("In this configuration
Angular requires Zone.js");\n * }\n * Zone.assertZonePatched();\n * var /** @type {?} */ self = /** @type
{?} */ ((this));\n * self._nesting = 0;\n * self._outer = self._inner = Zone.current;\n * if ((/** @type {?} */
(Zone))['wtfZoneSpec']) {\n * self._inner = self._inner.fork((/** @type {?} */ (Zone))['wtfZoneSpec']);\n *
}\n * if (enableLongStackTrace && (/** @type {?} */ (Zone))['longStackTraceZoneSpec']) {\n * self._inner
= self._inner.fork((/** @type {?} */ (Zone))['longStackTraceZoneSpec']);\n * }\n * forkInnerZoneWithAngularBehavior(self);\n * }\n * /**\n * * @return {?} \n * *\n * NgZone.isInAngularZone =
/**\n * * @return {?} \n * *\n * function () { return Zone.current.get('isAngularZone') === true; }; \n * /**\n *
 * @return {?} \n * *\n * NgZone.assertInAngularZone = /**\n * * @return {?} \n * *\n * function () {\n * if
(!NgZone.isInAngularZone()) {\n * throw new Error('Expected to be in Angular Zone, but it is not!');\n * }\n *
}; \n * /**\n * * @return {?} \n * *\n * NgZone.assertNotInAngularZone = /**\n * * @return {?} \n * *\n *
function () {\n * if (NgZone.isInAngularZone()) {\n * throw new Error('Expected to not be in Angular Zone,
but it is!');\n * }\n * }; \n * /**\n * * Executes the `fn` function synchronously within the Angular zone and
returns value returned by\n * * the function.\n * *\n * * Running functions via `run` allows you to reenter Angular
zone from a task that was executed\n * * outside of the Angular zone (typically started via {@link
#runOutsideAngular}).\n * *\n * * Any future tasks or microtasks scheduled from within this function will
continue executing from\n * * within the Angular zone.\n * *\n * * If a synchronous error happens it will be
rethrown and not reported via `onError`.\n * *\n * /**\n * * Executes the `fn` function synchronously within the
Angular zone and returns value returned by\n * * the function.\n * *\n * * Running functions via `run` allows you
to reenter Angular zone from a task that was executed\n * * outside of the Angular zone (typically started via
{@@link #runOutsideAngular}).\n * *\n * * Any future tasks or microtasks scheduled from within this function
will continue executing from\n * * within the Angular zone.\n * *\n * * If a synchronous error happens it will be
rethrown and not reported via `onError`.\n * * @template T\n * * @param {?} fn\n * * @param {?=} applyThis\n *
 * @param {?=} applyArgs\n * * @return {?} \n * *\n * NgZone.prototype.run = /**\n * * Executes the `fn`
function synchronously within the Angular zone and returns value returned by\n * * the function.\n * *\n * *
Running functions via `run` allows you to reenter Angular zone from a task that was executed\n * * outside of the
Angular zone (typically started via {@@link #runOutsideAngular}).\n * *\n * * Any future tasks or microtasks
scheduled from within this function will continue executing from\n * * within the Angular zone.\n * *\n * * If a
synchronous error happens it will be rethrown and not reported via `onError`.\n * * @template T\n * * @param

```

```

{?} fn\n * @param {?=} applyThis\n * @param {?=} applyArgs\n * @return {?}\n *\n function (fn,
applyThis, applyArgs) {\n return /** @type {?} */ ((/** @type {?} */ ((this)))._inner.run(fn, applyThis,
applyArgs));\n };\n /**\n * Executes the `fn` function synchronously within the Angular zone as a task and
returns value\n * returned by the function.\n *\n * Running functions via `run` allows you to reenter Angular
zone from a task that was executed\n * outside of the Angular zone (typically started via {@link
#runOutsideAngular}).\n *\n * Any future tasks or microtasks scheduled from within this function will
continue executing from\n * within the Angular zone.\n *\n * If a synchronous error happens it will be
rethrown and not reported via `onError`.\n *\n */\n * Executes the `fn` function synchronously within the
Angular zone as a task and returns value\n * returned by the function.\n *\n * Running functions via `run`
allows you to reenter Angular zone from a task that was executed\n * outside of the Angular zone (typically
started via {@link #runOutsideAngular}).\n *\n * Any future tasks or microtasks scheduled from within this
function will continue executing from\n * within the Angular zone.\n *\n * If a synchronous error happens it
will be rethrown and not reported via `onError`.\n * @template T\n * @param {?} fn\n * @param {?=}
applyThis\n * @param {?=} applyArgs\n * @param {?=} name\n * @return {?}\n *\n NgZone.prototype.runTask = /**\n * Executes the `fn` function synchronously within the Angular zone as a task
and returns value\n * returned by the function.\n *\n * Running functions via `run` allows you to reenter
Angular zone from a task that was executed\n * outside of the Angular zone (typically started via {@link
#runOutsideAngular}).\n *\n * Any future tasks or microtasks scheduled from within this function will
continue executing from\n * within the Angular zone.\n *\n * If a synchronous error happens it will be
rethrown and not reported via `onError`.\n * @template T\n * @param {?} fn\n * @param {?=} applyThis\n
* @param {?=} applyArgs\n * @param {?=} name\n * @return {?}\n *\n function (fn, applyThis,
applyArgs, name) {\n var /** @type {?} */ zone = (/** @type {?} */ ((this)))._inner;\n var /** @type {?}
*/ task = zone.scheduleEventTask('NgZoneEvent: ' + name, fn, EMPTY_PAYLOAD, noop, noop);\n try {\n
return /** @type {?} */ (zone.runTask(task, applyThis, applyArgs));\n }\n finally {\n
zone.cancelTask(task);\n }\n };\n /**\n * Same as `run`, except that synchronous errors are caught and
forwarded via `onError` and not\n * rethrown.\n *\n */\n * Same as `run`, except that synchronous errors
are caught and forwarded via `onError` and not\n * rethrown.\n * @template T\n * @param {?} fn\n *
@param {?=} applyThis\n * @param {?=} applyArgs\n * @return {?}\n *\n NgZone.prototype.runGuarded = /**\n * Same as `run`, except that synchronous errors are caught and forwarded
via `onError` and not\n * rethrown.\n * @template T\n * @param {?} fn\n * @param {?=} applyThis\n
* @param {?=} applyArgs\n * @return {?}\n *\n function (fn, applyThis, applyArgs) {\n return /**
@type {?} */ ((/** @type {?} */ ((this)))._inner.runGuarded(fn, applyThis, applyArgs));\n };\n /**\n *
Executes the `fn` function synchronously in Angular's parent zone and returns value returned by\n * the
function.\n *\n * Running functions via {@link #runOutsideAngular} allows you to escape Angular's zone and
do\n * work that\n * doesn't trigger Angular change-detection or is subject to Angular's error handling.\n *\n
* Any future tasks or microtasks scheduled from within this function will continue executing from\n * outside of
the Angular zone.\n *\n * Use {@link #run} to reenter the Angular zone and do work that updates the
application model.\n *\n */\n * Executes the `fn` function synchronously in Angular's parent zone and
returns value returned by\n * the function.\n *\n * Running functions via {@link #runOutsideAngular}
allows you to escape Angular's zone and do\n * work that\n * doesn't trigger Angular change-detection or is
subject to Angular's error handling.\n *\n * Any future tasks or microtasks scheduled from within this function
will continue executing from\n * outside of the Angular zone.\n *\n * Use {@link #run} to reenter the
Angular zone and do work that updates the application model.\n * @template T\n * @param {?} fn\n *
@return {?}\n *\n NgZone.prototype.runOutsideAngular = /**\n * Executes the `fn` function synchronously
in Angular's parent zone and returns value returned by\n * the function.\n *\n * Running functions via
{@link #runOutsideAngular} allows you to escape Angular's zone and do\n * work that\n * doesn't trigger
Angular change-detection or is subject to Angular's error handling.\n *\n * Any future tasks or microtasks
scheduled from within this function will continue executing from\n * outside of the Angular zone.\n *\n *

```

```

Use {@link #run} to reenter the Angular zone and do work that updates the application model.
 * @template
T
 * @param {?} fn
 * @return {?}
 * ^n function (fn) {
 return /** @type {?} */ (/** @type {?} */
 * ((this))._outer.run(fn));
 };
 return NgZone();
n/**
 * @return {?}
 * ^nfunction noop() {
 nvar
 EMPTY_PAYLOAD = {};
n/**
 * @param {?} zone
 * @return {?}
 * ^nfunction checkStable(zone) {
 if
 (zone._nesting == 0 && !zone.hasPendingMicrotasks && !zone.isStable) {
 try {
 zone._nesting++;
 zone.onMicrotaskEmpty.emit(null);
 }
 finally {
 zone._nesting--;
 if
 (!zone.hasPendingMicrotasks) {
 try {
 zone.runOutsideAngular(function () {
 return
 zone.onStable.emit(null);
 });
 }
 finally {
 zone.isStable = true;
 }
 }
 }
 }
n/**
 * @param {?} zone
 * @return {?}
 * ^nfunction
 forkInnerZoneWithAngularBehavior(zone) {
 zone._inner = zone._inner.fork({
 name: 'angular',
 properties: /** @type {?} */ ({ 'isAngularZone': true }),
 onInvokeTask: function (delegate, current, target,
 task, applyThis, applyArgs) {
 try {
 onEnter(zone);
 return delegate.invokeTask(target,
 task, applyThis, applyArgs);
 }
 finally {
 onLeave(zone);
 }
 },
 onInvoke: function (delegate, current, target, callback, applyThis, applyArgs, source) {
 try {
 onEnter(zone);
 return delegate.invoke(target, callback, applyThis, applyArgs, source);
 }
 finally {
 onLeave(zone);
 }
 },
 onHasTask: function (delegate, current, target,
 hasTaskState) {
 delegate.hasTask(target, hasTaskState);
 if (current === target) {
 // We
 are only interested in hasTask events which originate from our zone
 // (A child hasTask event is not
 interesting to us)
 if (hasTaskState.change == 'microTask') {
 zone.hasPendingMicrotasks =
 hasTaskState.microTask;
 }
 else if (hasTaskState.change ==
 'macroTask') {
 zone.hasPendingMacrotasks = hasTaskState.macroTask;
 }
 }
 },
 onHandleError: function (delegate, current, target, error) {
 delegate.handleError(target, error);
 zone.runOutsideAngular(function () {
 return zone.onError.emit(error);
 });
 return false;
 }
 });
 }
n/**
 * @param {?} zone
 * @return {?}
 * ^nfunction onEnter(zone) {
 zone._nesting++;
 if
 (zone.isStable) {
 zone.isStable = false;
 zone.onUnstable.emit(null);
 }
n/**
 * @param {?}
 zone
 * @return {?}
 * ^nfunction onLeave(zone) {
 zone._nesting--;
 checkStable(zone);
n/**
 * Provides a noop implementation of `NgZone` which does nothing. This zone requires explicit calls
 * to framework
 * to perform rendering.
 * ^nvar NoopNgZone = /** @class */ (function () {
 function NoopNgZone() {
 this.hasPendingMicrotasks = false;
 this.hasPendingMacrotasks = false;
 this.isStable = true;
 this.onUnstable = new EventEmitter();
 this.onMicrotaskEmpty = new EventEmitter();
 this.onStable =
 new EventEmitter();
 this.onError = new EventEmitter();
 }
 /**
 * @param {?} fn
 * @return
 {?}
 * ^n NoopNgZone.prototype.run = /**
 * @param {?} fn
 * @return {?}
 * ^n function (fn) {
 return fn();
 };
 /**
 * @param {?} fn
 * @return {?}
 * ^n NoopNgZone.prototype.runGuarded =
 /**
 * @param {?} fn
 * @return {?}
 * ^n function (fn) {
 return fn();
 };
 /**
 * @param {?} fn
 * @return
 {?}
 * ^n NoopNgZone.prototype.runOutsideAngular = /**
 * @param {?} fn
 * @return
 {?}
 * ^n function (fn) {
 return fn();
 };
 /**
 * @template T
 * @param {?} fn
 * @return
 {?}
 * ^n NoopNgZone.prototype.runTask = /**
 * @template T
 * @param {?} fn
 * @return
 {?}
 * ^n function (fn) {
 return fn();
 };
 return NoopNgZone();
n/**
 * @fileoverview added by tsickle
 *
 * @suppress {checkTypes} checked by tsc
 * ^n/**
 * @license
 * Copyright Google Inc. All Rights Reserved.
 *
 * Use of this source code is governed by an MIT-style license that can be
 * found in the LICENSE file at
 * https://angular.io/license
 * ^n/**
 * The Testability service provides testing hooks that can be accessed from
 * the
 * browser and by services such as Protractor. Each bootstrapped Angular
 * application on the page will have an
 * instance of Testability.
 * @@experimental
 * ^nvar Testability = /** @class */ (function () {
 function
 Testability(_ngZone) {
 this._ngZone = _ngZone;
 /**
 * @@internal
 * ^n
 this._pendingCount = 0;
 /**
 * @@internal
 * ^n
 this._isZoneStable = true;
 /**
 *
 Whether any work was done since the last 'whenStable' callback. This is
 * useful to detect if this could have
 potentially destabilized another
 * component while it is stabilizing.
 @@internal
 * ^n
 this._didWork = false;
 /**
 * @@internal
 * ^n
 this._callbacks = [];
 }

```

```

this._watchAngularEvents();\n }\n /** @internal */\n * \\@internal\n * @return {?}\n */\n Testability.prototype._watchAngularEvents = /**\n * \\@internal\n * @return {?}\n */\n function () {\n var _this = this;\n this._ngZone.onUnstable.subscribe({\n next: function () {\n _this._didWork =\n true;\n _this._isZoneStable = false;\n }\n });\n this._ngZone.runOutsideAngular(function ()\n {\n _this._ngZone.onStable.subscribe({\n next: function () {\n NgZone.assertNotInAngularZone();\n scheduleMicroTask(function () {\n _this._isZoneStable = true;\n _this._runCallbacksIfReady();\n });\n }\n });\n });\n /**\n * Increases the number of pending request\n */\n /**\n * Increases the number\n of pending request\n * @return {?}\n */\n Testability.prototype.increasePendingRequestCount = /**\n *\n Increases the number of pending request\n * @return {?}\n */\n function () {\n this._pendingCount +=\n 1;\n this._didWork = true;\n return this._pendingCount;\n }; \n /**\n * Decreases the number of\n pending request\n */\n /**\n * Decreases the number of pending request\n * @return {?}\n */\n Testability.prototype.decreasePendingRequestCount = /**\n * Decreases the number of pending request\n *\n @return {?}\n */\n function () {\n this._pendingCount -= 1;\n if (this._pendingCount < 0) {\n throw new Error('pending async requests below zero');\n }\n this._runCallbacksIfReady();\n return\n this._pendingCount;\n }; \n /**\n * Whether an associated application is stable\n */\n /**\n * Whether\n an associated application is stable\n * @return {?}\n */\n Testability.prototype.isStable = /**\n * Whether\n an associated application is stable\n * @return {?}\n */\n function () {\n return this._isZoneStable &&\n this._pendingCount == 0 && !this._ngZone.hasPendingMacrotasks;\n }; \n /** @internal */\n /**\n *\n \\@internal\n * @return {?}\n */\n Testability.prototype._runCallbacksIfReady = /**\n * \\@internal\n *\n @return {?}\n */\n function () {\n var _this = this;\n if (this.isStable()) {\n if\n (this._callbacks.length !== 0) {\n // Schedules the call backs after a macro task run outside of the angular\n zone to make sure\n // no new task are added\n this._ngZone.runOutsideAngular(function () {\n setTimeout(function () {\n if (_this.isStable()) {\n while\n (_this._callbacks.length !== 0) {\n (** @type {?} */\n ((_this._callbacks.pop())))(_this._didWork);\n }\n }\n });\n });\n _this._didWork = false;\n }\n } else {\n this._didWork = false;\n }\n }\n else {\n // Not Ready\n this._didWork = true;\n }\n }; \n /**\n * Run callback when\n the application is stable\n * @param callback function to be called after the application is stable\n */\n /**\n *\n * Run callback when the application is stable\n * @param {?} callback function to be called after the application\n is stable\n * @return {?}\n */\n Testability.prototype.whenStable = /**\n * Run callback when the\n application is stable\n * @param {?} callback function to be called after the application is stable\n * @return\n {?}\n */\n function (callback) {\n this._callbacks.push(callback);\n this._runCallbacksIfReady();\n };\n /**\n * Get the number of pending requests\n */\n /**\n * Get the number of pending requests\n *\n @return {?}\n */\n Testability.prototype.getPendingRequestCount = /**\n * Get the number of pending\n requests\n * @return {?}\n */\n function () {\n return this._pendingCount;\n }; \n /**\n * Find providers by\n name\n * @param using The root element to search from\n * @param provider The name of binding variable\n *\n * @param exactMatch Whether using exactMatch\n */\n /**\n *\n * Find providers by name\n * @param\n {?} using The root element to search from\n * @param {?} provider The name of binding variable\n * @param\n {?} exactMatch Whether using exactMatch\n * @return {?}\n */\n Testability.prototype.findProviders =\n /**\n * Find providers by name\n * @param {?} using The root element to search from\n * @param {?}\n provider The name of binding variable\n * @param {?} exactMatch Whether using exactMatch\n * @return\n {?}\n */\n function (using, provider, exactMatch) {\n // TODO(juliemr): implement.\n return [];\n };\n Testability.decorators = [\n { type: Injectable },\n]; \n /** @nocollapse */\n Testability.ctorParameters = function () {\n return [\n { type: NgZone },\n];\n }; \n return\n Testability;\n})();\n/**\n * A global registry of {\\@link Testability} instances for specific elements.\n */\n\\@experimental\n * \\nvar TestabilityRegistry = /** @class */ (function () {\n function TestabilityRegistry() {\n /**\n *\n \\@internal\n */\n this._applications = new Map();\n }\n}

```

```

_testabilityGetter.addToWindow(this);\n }\n /**\n * Registers an application with a testability hook so that it
can be tracked\n * @param token token of application, root element\n * @param testability Testability hook\n
*/\n /**\n * Registers an application with a testability hook so that it can be tracked\n * @param {?} token
token of application, root element\n * @param {?} testability Testability hook\n * @return {?}\n */\n
TestabilityRegistry.prototype.registerApplication = /**\n * Registers an application with a testability hook so that
it can be tracked\n * @param {?} token token of application, root element\n * @param {?} testability
Testability hook\n * @return {?}\n */\n function (token, testability) {\n this._applications.set(token,
testability);\n };\n /**\n * Unregisters an application.\n * @param token token of application, root
element\n */\n /**\n * Unregisters an application.\n * @param {?} token token of application, root
element\n * @return {?}\n */\n TestabilityRegistry.prototype.unregisterApplication = /**\n * Unregisters
an application.\n * @param {?} token token of application, root element\n * @return {?}\n */\n function
(token) {\n this._applications.delete(token);\n };\n /**\n * Unregisters all applications\n */\n /**\n *
Unregisters all applications\n * @return {?}\n */\n TestabilityRegistry.prototype.unregisterAllApplications =
/**\n * Unregisters all applications\n * @return {?}\n */\n function () {\n this._applications.clear();\n };\n
/**\n * Get a testability hook associated with the application\n * @param elem root element\n */\n /**\n *
Get a testability hook associated with the application\n * @param {?} elem root element\n * @return {?}\n
*/\n TestabilityRegistry.prototype.getTestability = /**\n * Get a testability hook associated with the
application\n * @param {?} elem root element\n * @return {?}\n */\n function (elem) {\n return
this._applications.get(elem) || null;\n };\n /**\n * Get all registered testabilities\n */\n /**\n * Get all
registered testabilities\n * @return {?}\n */\n TestabilityRegistry.prototype.getAllTestabilities = /**\n *
Get all registered testabilities\n * @return {?}\n */\n function () {\n return
Array.from(this._applications.values());\n };\n /**\n * Get all registered applications(root elements)\n */\n
/**\n * Get all registered applications(root elements)\n * @return {?}\n */\n TestabilityRegistry.prototype.getAllRootElement = /**\n * Get all registered applications(root elements)\n *
@return {?}\n */\n function () {\n return Array.from(this._applications.keys());\n };\n /**\n * Find testability of
a node in the Tree\n * @param elem node\n * @param findInAncestors whether finding testability in ancestors
if testability was not found in\n * current node\n */\n /**\n * Find testability of a node in the Tree\n *
@param {?} elem node\n * @param {?=} findInAncestors whether finding testability in ancestors if testability
was not found in\n * current node\n * @return {?}\n */\n TestabilityRegistry.prototype.findTestabilityInTree = /**\n * Find testability of a node in the Tree\n * @param
{?} elem node\n * @param {?=} findInAncestors whether finding testability in ancestors if testability was not
found in\n * current node\n * @return {?}\n */\n function (elem, findInAncestors) {\n if
(findInAncestors === void 0) {\n findInAncestors = true;\n }\n return _testabilityGetter.findTestabilityInTree(this,
elem, findInAncestors);\n };\n TestabilityRegistry.decorators = [\n { type: Injectable },\n];\n /**
@nocollapse */\n TestabilityRegistry.ctorParameters = function () {\n return [];\n };
return\n TestabilityRegistry;\n})();\n/**\n * Adapter interface for retrieving the `Testability` service associated for a\n *
particular context.\n * \n * \\@experimental Testability apis are primarily intended to be used by e2e test tool
vendors like\n * the Protractor team.\n * @record\n */\n nvar _NoopGetTestability = /** @class */ (function () {\n
function _NoopGetTestability() {\n }\n /**\n * @param {?} registry\n * @return {?}\n */\n _NoopGetTestability.prototype.addToWindow = /**\n * @param {?} registry\n * @return {?}\n */\n function (registry) {\n };\n /**\n * @param {?} registry\n * @param {?} elem\n * @param {?}
findInAncestors\n * @return {?}\n */\n _NoopGetTestability.prototype.findTestabilityInTree = /**\n *
@param {?} registry\n * @param {?} elem\n * @param {?} findInAncestors\n * @return {?}\n */\n function (registry, elem, findInAncestors) {\n return null;\n };\n return _NoopGetTestability;\n})();\n/**\n * Set the \\@link GetTestability } implementation used by the Angular testing framework.\n * \\@experimental\n *
@param {?} getter\n * @return {?}\n */\n function setTestabilityGetter(getter) {\n _testabilityGetter =
getter;\n }\n nvar _testabilityGetter = new _NoopGetTestability();\n\n/**\n * @fileoverview added by tsickle\n *
@suppress {checkTypes} checked by tsc\n */\n\n/**\n * @license\n * Copyright Google Inc. All Rights Reserved.\n

```

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*\n * Use of this source code is governed by an MIT-style license that can be\n * found in the LICENSE file at
https://angular.io/license\n *\nvar _devMode = true;\nvar _runModeLocked = false;\nvar _platform;\nvar
ALLOW_MULTIPLE_PLATFORMS = new InjectionToken('AllowMultipleToken');\n/**\n * Disable Angular's
development mode, which turns off assertions and other\n * checks within the framework.\n *\n * One important
assertion this disables verifies that a change detection pass\n * does not result in additional changes to any bindings
(also known as\n * unidirectional data flow).\n *\n * \n * @return {?} \n *\nfunction enableProdMode()
{\n if (_runModeLocked) {\n throw new Error('Cannot enable prod mode after platform setup.);\n }\n _devMode = false;\n}\n/**\n * Returns whether Angular is in development mode. After called once,\n * the value is
locked and won't change any more.\n *\n * By default, this is true, unless a user calls `enableProdMode` before
calling this.\n *\n * \n * @experimental APIs related to application bootstrap are currently under review.\n * @return
{?} \n *\nfunction isDevMode() {\n _runModeLocked = true;\n return _devMode;\n}\n/**\n * A token for third-
party components that can register themselves with NgProbe.\n *\n * \n * @experimental\n *\nvar NgProbeToken =
/** @class */ (function () {\n function NgProbeToken(name, token) {\n this.name = name;\n this.token =
token;\n }\n return NgProbeToken;\n})();\n/**\n * Creates a platform.\n * Platforms have to be eagerly created
via this function.\n *\n * \n * @experimental APIs related to application bootstrap are currently under review.\n *
@param {?} injector\n * @return {?} \n *\nfunction createPlatform(injector) {\n if (_platform &&
!_platform.destroyed &&\n !_platform.injector.get(ALLOW_MULTIPLE_PLATFORMS, false)) {\n throw
new Error('There can be only one platform. Destroy the previous one to create a new one.);\n }\n _platform =
injector.get(PlatformRef);\n var /** @type {?} */ inits = injector.get(PLATFORM_INITIALIZER, null);\n if
(inits)\n inits.forEach(function (init) { return init(); });\n return _platform;\n}\n/**\n * Creates a factory for a
platform\n *\n * \n * @experimental APIs related to application bootstrap are currently under review.\n * @param {?}
parentPlatformFactory\n * @param {?} name\n * @param {?=} providers\n * @return {?} \n *\nfunction
createPlatformFactory(parentPlatformFactory, name, providers) {\n if (providers === void 0) { providers = []; }\n var /** @type {?} */ desc = "Platform: " + name;\n var /** @type {?} */ marker = new InjectionToken(desc);\n return function (extraProviders) {\n if (extraProviders === void 0) { extraProviders = []; }\n var /** @type
{?} */ platform = getPlatform();\n if (!platform || platform.injector.get(ALLOW_MULTIPLE_PLATFORMS,
false)) {\n if (parentPlatformFactory) {\n parentPlatformFactory(providers.concat(extraProviders).concat({ provide: marker, useValue: true }));\n }\n else {\n var /** @type {?} */ injectedProviders = providers.concat(extraProviders).concat({ provide:
marker, useValue: true });\n createPlatform(Injector.create({ providers: injectedProviders, name: desc
}));\n }\n }\n return assertPlatform(marker);\n }; \n}\n/**\n * Checks that there currently is a
platform which contains the given token as a provider.\n *\n * \n * @experimental APIs related to application bootstrap
are currently under review.\n * @param {?} requiredToken\n * @return {?} \n *\nfunction
assertPlatform(requiredToken) {\n var /** @type {?} */ platform = getPlatform();\n if (!platform) {\n throw
new Error('No platform exists!);\n }\n if (!platform.injector.get(requiredToken, null)) {\n throw new
Error('A platform with a different configuration has been created. Please destroy it first.);\n }\n return
platform;\n}\n/**\n * Destroy the existing platform.\n *\n * \n * @experimental APIs related to application bootstrap
are currently under review.\n * @return {?} \n *\nfunction destroyPlatform() {\n if (_platform &&
!_platform.destroyed) {\n _platform.destroy();\n }\n}\n/**\n * Returns the current platform.\n *\n *
\n * \n * @experimental APIs related to application bootstrap are currently under review.\n * @return {?} \n *\nfunction
getPlatform() {\n return _platform && !_platform.destroyed ? _platform : null;\n}\n/**\n * Provides additional
options to the bootstrapping process.\n *\n * \n * @stable\n * @record\n *\nfunction PlatformRef\n *\n * The Angular platform is the entry
point for Angular on a web page. Each page\n * has exactly one platform, and services (such as reflection) which are
common\n * to every Angular application running on the page are bound in its scope.\n *\n * A page's platform is
initialized implicitly when a platform is created via a platform factory\n * (e.g. {@link platformBrowser}), or
explicitly by calling the {@link createPlatform} function.\n *\n * \n * @stable\n *\nvar PlatformRef = /** @class */
(function () {\n /** @internal *\n function PlatformRef(_injector) {\n this._injector = _injector;\n this._modules = [];\n this._destroyListeners = [];\n this._destroyed = false;\n }\n /**\n * Creates an

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instance of an `@NgModule` for the given platform\n * for offline compilation.\n * \n * ## Simple
Example\n * \n * ``typescript\n * my_module.ts:\n * \n * @NgModule({\n * imports:
[BrowserModule]\n * })\n * class MyModule {\n * \n * main.ts:\n * import {MyModuleNgFactory}
from './my_module.ngfactory';\n * import {platformBrowser} from '@angular/platform-browser';\n * \n * let
moduleRef = platformBrowser().bootstrapModuleFactory(MyModuleNgFactory);\n * ``\n * \n *
@experimental APIs related to application bootstrap are currently under review.\n * \n * /**\n * Creates an
instance of an `@NgModule` for the given platform\n * for offline compilation.\n * \n * ## Simple
Example\n * \n * ``typescript\n * my_module.ts:\n * \n * @NgModule({\n * imports:
[BrowserModule]\n * })\n * class MyModule {\n * \n * main.ts:\n * import {MyModuleNgFactory}
from './my_module.ngfactory';\n * import {platformBrowser} from '@angular/platform-browser';\n * \n *
let moduleRef = platformBrowser().bootstrapModuleFactory(MyModuleNgFactory);\n * ``\n * \n *
@@experimental APIs related to application bootstrap are currently under review.\n * @template M\n *
@param {?} moduleFactory\n * @param {?=} options\n * @return {?} \n * \n *
PlatformRef.prototype.bootstrapModuleFactory = /**\n * Creates an instance of an `@NgModule` for the given
platform\n * for offline compilation.\n * \n * ## Simple Example\n * \n * ``typescript\n *
my_module.ts:\n * \n * @NgModule({\n * imports: [BrowserModule]\n * })\n * class MyModule
{\n * \n * main.ts:\n * import {MyModuleNgFactory} from './my_module.ngfactory';\n * import
{platformBrowser} from '@angular/platform-browser';\n * \n * let moduleRef =
platformBrowser().bootstrapModuleFactory(MyModuleNgFactory);\n * ``\n * \n *
@@experimental APIs related to application bootstrap are currently under review.\n * @template M\n *
@param {?} moduleFactory\n * @param {?=} options\n * @return {?} \n * \n *
function (moduleFactory, options) {\n * var _this =
this;\n * // Note: We need to create the NgZone _before_ we instantiate the module,\n * // as instantiating the
module creates some providers eagerly.\n * // So we create a mini parent injector that just contains the new
NgZone and\n * // pass that as parent to the NgModuleFactory.\n * var /** @type {?} */ ngZoneOption =
options ? options.ngZone : undefined;\n * var /** @type {?} */ ngZone = getNgZone(ngZoneOption);\n * var
/** @type {?} */ providers = [{ provide: NgZone, useValue: ngZone }];\n * // Attention: Don't use
ApplicationRef.run here,\n * // as we want to be sure that all possible constructor calls are inside `ngZone.run`!\n *
return ngZone.run(function () {\n * var /** @type {?} */ ngZoneInjector = Injector.create({ providers:
providers, parent: _this.injector, name: moduleFactory.moduleType.name });\n * var /** @type {?} */
moduleRef = /** @type {?} */ (moduleFactory.create(ngZoneInjector));\n * var /** @type {?} */
exceptionHandler = moduleRef.injector.get(ErrorHandler, null);\n * if (!exceptionHandler) {\n * throw
new Error("No ErrorHandler. Is platform module (BrowserModule) included?");\n * }\n *
moduleRef.onDestroy(function () { return remove(_this._modules, moduleRef); });\n * /** @type {?} */ \n *
((ngZone)).runOutsideAngular(function () { return ((ngZone)).onError.subscribe({ next: function (error) {
exceptionHandler.handleError(error); } }); });\n * return _callAndReportToErrorHandler(exceptionHandler,
/** @type {?} */ ((ngZone)), function () {\n * var /** @type {?} */ initStatus =
moduleRef.injector.get(ApplicationInitStatus);\n * initStatus.runInitializers();\n * return
initStatus.donePromise.then(function () {\n * _this._moduleDoBootstrap(moduleRef);\n * return
moduleRef;\n * });\n * });\n * });\n * });\n * });\n * });\n * /**\n * Creates an instance of an `@NgModule` for a
given platform using the given runtime compiler.\n * \n * ## Simple Example\n * \n * ``typescript\n *
@NgModule({\n * imports: [BrowserModule]\n * })\n * class MyModule {\n * \n * let moduleRef =
platformBrowser().bootstrapModule(MyModule);\n * ``\n * \n *
@stable\n * \n * /**\n * Creates an instance
of an `@NgModule` for a given platform using the given runtime compiler.\n * \n * ## Simple Example\n *
\n * ``typescript\n * @NgModule({\n * imports: [BrowserModule]\n * })\n * class MyModule {\n *
\n * let moduleRef = platformBrowser().bootstrapModule(MyModule);\n * ``\n * \n *
@@stable\n *
@template M\n * @param {?} moduleType\n * @param {?=} compilerOptions\n * @return {?} \n * \n *
PlatformRef.prototype.bootstrapModule = /**\n * Creates an instance of an `@NgModule` for a given platform
using the given runtime compiler.\n * \n * ## Simple Example\n * \n * ``typescript\n *

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@@NgModule({\n * imports: [BrowserModule]\n * })\n * class MyModule {\n * \n * let moduleRef =
platformBrowser().bootstrapModule(MyModule);\n * ``\n * @@stable\n * @template M\n * @param {?}
moduleType\n * @param {?=} compilerOptions\n * @return {?}\n * ^\n * function (moduleType,
compilerOptions) {\n * var _this = this;\n * if (compilerOptions === void 0) { compilerOptions = []; }\n
var /** @type {?} */ compilerFactory = this.injector.get(CompilerFactory);\n * var /** @type {?} */ options =
optionsReducer({}, compilerOptions);\n * var /** @type {?} */ compiler =
compilerFactory.createCompiler([options]);\n * return compiler.compileModuleAsync(moduleType)\n
.then(function (moduleFactory) { return _this.bootstrapModuleFactory(moduleFactory, options); });\n * });\n * /**\n
* @param {?} moduleRef\n * @return {?}\n * ^\n * PlatformRef.prototype._moduleDoBootstrap = /**\n
* @param {?} moduleRef\n * @return {?}\n * ^\n * function (moduleRef) {\n * var /** @type {?} */ appRef =
/** @type {?} */ (moduleRef.injector.get(ApplicationRef));\n * if (moduleRef._bootstrapComponents.length > 0)
{\n * moduleRef._bootstrapComponents.forEach(function (f) { return appRef.bootstrap(f); });\n * }\n
else if (moduleRef.instance.ngDoBootstrap) {\n * moduleRef.instance.ngDoBootstrap(appRef);\n * }\n
else {\n * throw new Error(`The module ` + stringify(moduleRef.instance.constructor) + ` was bootstrapped,
but it does not declare ` + `@@NgModule.bootstrap` + ` components nor a ` + `ngDoBootstrap` + ` method. ` + \n
`Please define one of these.`);\n * }\n * this._modules.push(moduleRef);\n * });\n * /**\n
* Register a listener to be called when the platform is disposed.\n * ^\n * /**\n
* Register a listener to be called when the platform is disposed.\n * @param {?} callback\n * @return {?}\n
* ^\n * PlatformRef.prototype.onDestroy = /**\n
* Register a listener to be called when the platform is disposed.\n * @param {?} callback\n * @return
{?}\n * ^\n * function (callback) { this._destroyListeners.push(callback); }\n
Object.defineProperty(PlatformRef.prototype, `injector`, {\n * /**\n
* Retrieve the platform { @link
Injector}, which is the parent injector for\n * every Angular application on the page and provides singleton
providers.\n * ^\n * get: /**\n
* Retrieve the platform { @link Injector}, which is the parent injector
for\n * every Angular application on the page and provides singleton providers.\n * @return {?}\n
* ^\n * function () { return this._injector; },\n * enumerable: true,\n * configurable: true\n * });\n * /**\n
* Destroy the Angular platform and all Angular applications on the page.\n * ^\n * /**\n
* Destroy the Angular platform and all Angular applications on the page.\n * @return {?}\n
* ^\n * PlatformRef.prototype.destroy = /**\n
* Destroy the Angular platform and all Angular applications on the page.\n * @return {?}\n
* ^\n * function () {\n * if (this._destroyed) {\n * throw new Error(`The platform has already been destroyed!`);\n
}\n * this._modules.slice().forEach(function (module) { return module.destroy(); });\n
this._destroyListeners.forEach(function (listener) { return listener(); });\n * this._destroyed = true;\n * });\n
Object.defineProperty(PlatformRef.prototype, `destroyed`, {\n * get: /**\n
* @return {?}\n * ^\n
function () { return this._destroyed; },\n * enumerable: true,\n * configurable: true\n * });\n
PlatformRef.decorators = [\n * { type: Injectable },\n *];\n * /** @nocollapse *\n
PlatformRef.ctorParameters
= function () { return [\n * { type: Injector, },\n *];\n * }; return PlatformRef;\n * });\n * /**\n
* @param {?=}
ngZoneOption\n * @return {?}\n * ^\n * function getNgZone(ngZoneOption) {\n * var /** @type {?} */ ngZone;\n
if (ngZoneOption === `noop`) {\n * ngZone = new NoopNgZone();\n * }\n * else {\n * ngZone = (ngZoneOption
=== `zone.js` ? undefined : ngZoneOption) ||\n * new NgZone({ enableLongStackTrace: isDevMode() });\n
}\n * return ngZone;\n * }\n * /**\n
* @param {?} errorHandler\n * @param {?} ngZone\n * @param {?} callback\n
* @return {?}\n * ^\n * function _callAndReportToErrorHandler(errorHandler, ngZone, callback) {\n * try {\n * var
/** @type {?} */ result = callback();\n * if (isPromise(result)) {\n * return result.catch(function (e) {\n
ngZone.runOutsideAngular(function () { return errorHandler.handleError(e); });\n * // rethrow as the
exception handler might not do it\n * throw e;\n * });\n * }\n * return result;\n * }\n * catch (**
@type {?} */ e) {\n * ngZone.runOutsideAngular(function () { return errorHandler.handleError(e); });\n * //
rethrow as the exception handler might not do it\n * throw e;\n * }\n * }\n * /**\n
* @template T\n * @param {?}
dst\n * @param {?} objs\n * @return {?}\n * ^\n * function optionsReducer(dst, objs) {\n * if (Array.isArray(objs)) {\n
dst = objs.reduce(optionsReducer, dst);\n * }\n * else {\n * dst = __assign({}, dst, (** @type {?} */
(objs)));\n * }\n * return dst;\n * }\n * /**\n
* A reference to an Angular application running on a page.\n * *\n

```



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\\@stable\n *\\nvar ApplicationRef = /** @class */ (function () {\\n /** @internal */\\n function
ApplicationRef(_zone, _console, _injector, _exceptionHandler, _componentFactoryResolver, _initStatus) {\\n
var _this = this;\\n this._zone = _zone;\\n this._console = _console;\\n this._injector = _injector;\\n
this._exceptionHandler = _exceptionHandler;\\n this._componentFactoryResolver =
_componentFactoryResolver;\\n this._initStatus = _initStatus;\\n this._bootstrapListeners = [];\\n
this._views = [];\\n this._runningTick = false;\\n this._enforceNoNewChanges = false;\\n this._stable =
true;\\n /**\\n * Get a list of component types registered to this application.\\n * This list is populated
even before the component is created.\\n */\\n this.componentTypes = [];\\n /**\\n * Get a list of
components registered to this application.\\n */\\n this.components = [];\\n this._enforceNoNewChanges
= isDevMode();\\n this._zone.onMicrotaskEmpty.subscribe({ next: function () { _this._zone.run(function () {
_this.tick(); }); } });\\n var /** @type {?} */ isCurrentlyStable = new Observable(function (observer) {\\n
_this._stable = _this._zone.isStable && !_this._zone.hasPendingMacrotasks &&\\n
!_this._zone.hasPendingMicrotasks;\\n _this._zone.runOutsideAngular(function () {\\n
observer.next(_this._stable);\\n observer.complete();\\n });\\n });\\n var /** @type {?} */
isStable = new Observable(function (observer) {\\n // Create the subscription to onStable outside the Angular
Zone so that\\n // the callback is run outside the Angular Zone.\\n var /** @type {?} */ stableSub;\\n
_this._zone.runOutsideAngular(function () {\\n stableSub = _this._zone.onStable.subscribe(function () {\\n
NgZone.assertNotInAngularZone();\\n // Check whether there are no pending macro/micro
tasks in the next tick\\n // to allow for NgZone to update the state.\\n
scheduleMicroTask(function () {\\n if (!_this._stable && !_this._zone.hasPendingMacrotasks &&\\n
!_this._zone.hasPendingMicrotasks) {\\n _this._stable = true;\\n
observer.next(true);\\n }\\n });\\n });\\n });\\n var /** @type {?} */
unstableSub = _this._zone.onUnstable.subscribe(function () {\\n NgZone.assertInAngularZone();\\n
if (!_this._stable) {\\n _this._stable = false;\\n _this._zone.runOutsideAngular(function () {
observer.next(false); });\\n }\\n });\\n return function () {\\n stableSub.unsubscribe();\\n
unstableSub.unsubscribe();\\n };\\n });\\n (/** @type {?} */ (this)).isStable =\\n
merge(isCurrentlyStable, share.call(isStable));\\n }\\n /**\\n * Bootstrap a new component at the root level of
the application.\\n *\\n * ### Bootstrap process\\n *\\n * When bootstrapping a new root component into an
application, Angular mounts the\\n * specified application component onto DOM elements identified by the
[componentType]'s\\n * selector and kicks off automatic change detection to finish initializing the component.\\n
*\\n * Optionally, a component can be mounted onto a DOM element that does not match the\\n *
[componentType]'s selector.\\n *\\n * ### Example\\n * {\\n * @example core/ts/platform/platform.ts
region='longform'}\\n */\\n /**\\n * Bootstrap a new component at the root level of the application.\\n *\\n *
Bootstrap process\\n *\\n * When bootstrapping a new root component into an application, Angular mounts
the\\n * specified application component onto DOM elements identified by the [componentType]'s\\n * selector
and kicks off automatic change detection to finish initializing the component.\\n *\\n * Optionally, a
component can be mounted onto a DOM element that does not match the\\n * [componentType]'s selector.\\n *\\n * ###
Example\\n * {\\n * @example core/ts/platform/platform.ts region='longform'}\\n * @template C\\n * @param {?}
componentOrFactory\\n * @param {?=} rootSelectorOrNode\\n * @return {?}\\n */\\n
ApplicationRef.prototype.bootstrap = /**\\n * Bootstrap a new component at the root level of the application.\\n
*\\n * ### Bootstrap process\\n *\\n * When bootstrapping a new root component into an application, Angular
mounts the\\n * specified application component onto DOM elements identified by the [componentType]'s\\n *
selector and kicks off automatic change detection to finish initializing the component.\\n *\\n * Optionally, a
component can be mounted onto a DOM element that does not match the\\n * [componentType]'s selector.\\n *\\n
* ### Example\\n * {\\n * @example core/ts/platform/platform.ts region='longform'}\\n * @template C\\n *
@param {?} componentOrFactory\\n * @param {?=} rootSelectorOrNode\\n * @return {?}\\n */\\n
function
(componentOrFactory, rootSelectorOrNode) {\\n var _this = this;\\n if (!this._initStatus.done) {\\n
throw new Error('Cannot bootstrap as there are still asynchronous initializers running. Bootstrap components in the

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`ngDoBootstrap` method of the root module.);\n }\n var /** @type {?} */ componentFactory;\n if\n (componentOrFactory instanceof ComponentFactory) {\n componentFactory = componentOrFactory;\n }\n else {\n componentFactory =\n /** @type {?} */\n ((this._componentFactoryResolver.resolveComponentFactory(componentOrFactory));\n }\n this.componentTypes.push(componentFactory.componentType);\n // Create a factory associated with the\n current module if it's not bound to some other\n var /** @type {?} */ NgModule = componentFactory instanceof\n ComponentFactoryBoundToModule ?\n null :\n this._injector.get(NgModuleRef);\n var /**\n @type {?} */ selectorOrNode = rootSelectorOrNode || componentFactory.selector;\n var /** @type {?} */\n compRef = componentFactory.create(Injector.NULL, [], selectorOrNode, NgModule);\n compRef.onDestroy(function () { _this._unloadComponent(compRef); });\n var /** @type {?} */ testability =\n compRef.injector.get(Testability, null);\n if (testability) {\n compRef.injector.get(TestabilityRegistry)\n .registerApplication(compRef.location.nativeElement, testability);\n }\n this._loadComponent(compRef);\n if (isDevMode()) {\n this._console.log(`Angular is running in the\n development mode. Call enableProdMode() to enable the production mode.`);\n }\n return compRef;\n};\n/**\n * Invoke this method to explicitly process change detection and its side-effects.\n * In\n development mode, `tick()` also performs a second change detection cycle to ensure that no\n * further changes\n are detected. If additional changes are picked up during this second cycle,\n * bindings in the app have side-\n effects that cannot be resolved in a single change detection\n * pass.\n * In this case, Angular throws an error,\n since an Angular application can only have one change\n * detection pass during which all change detection must\n complete.\n */\n /**\n * Invoke this method to explicitly process change detection and its side-effects.\n *\n * In development mode, `tick()` also performs a second change detection cycle to ensure that no\n * further\n changes are detected. If additional changes are picked up during this second cycle,\n * bindings in the app have\n side-effects that cannot be resolved in a single change detection\n * pass.\n * In this case, Angular throws an\n error, since an Angular application can only have one change\n * detection pass during which all change detection\n must complete.\n */\n @return {?}\n */\n ApplicationRef.prototype.tick = /**\n * Invoke this method to\n explicitly process change detection and its side-effects.\n *\n * In development mode, `tick()` also performs a\n second change detection cycle to ensure that no\n * further changes are detected. If additional changes are picked\n up during this second cycle,\n * bindings in the app have side-effects that cannot be resolved in a single change\n detection\n * pass.\n * In this case, Angular throws an error, since an Angular application can only have one\n change\n * detection pass during which all change detection must complete.\n */\n @return {?}\n */\n function () {\n var _this = this;\n if (this._runningTick) {\n throw new Error('ApplicationRef.tick is\n called recursively');\n }\n var /** @type {?} */ scope = ApplicationRef._tickScope();\n try {\n this._runningTick = true;\n this._views.forEach(function (view) { return view.detectChanges(); });\n if\n (this._enforceNoNewChanges) {\n this._views.forEach(function (view) { return view.checkNoChanges();\n });\n }\n }\n catch (** @type {?} */ e) {\n // Attention: Don't rethrow as it could cancel\n subscriptions to Observables!\n this._zone.runOutsideAngular(function () { return\n _this._exceptionHandler.handleError(e); });\n }\n finally {\n this._runningTick = false;\n wtfLeave(scope);\n }\n};\n/**\n * Attaches a view so that it will be dirty checked.\n * The view will\n be automatically detached when it is destroyed.\n * This will throw if the view is already attached to a\n ViewContainer.\n */\n /**\n * Attaches a view so that it will be dirty checked.\n * The view will be\n automatically detached when it is destroyed.\n * This will throw if the view is already attached to a\n ViewContainer.\n */\n @param {?} viewRef\n @return {?}\n */\n ApplicationRef.prototype.attachView =\n /**\n * Attaches a view so that it will be dirty checked.\n * The view will be automatically detached when it is\n destroyed.\n * This will throw if the view is already attached to a ViewContainer.\n */\n @param {?} viewRef\n * @return {?}\n */\n function (viewRef) {\n var /** @type {?} */ view = (** @type {?} */ (viewRef));\n this._views.push(view);\n view.attachToAppRef(this);\n};\n/**\n * Detaches a view from dirty\n checking again.\n */\n /**\n * Detaches a view from dirty checking again.\n */\n @param {?} viewRef\n * @return {?}\n */\n ApplicationRef.prototype.detachView = /**\n * Detaches a view from dirty checking

```



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RendererFactory2;\n}());\n\n/** @enum {number} */\nvar RendererStyleFlags2 = {\n Important: 1,\n DashCase: 2,\n};\nRendererStyleFlags2[RendererStyleFlags2.Important] =\n\n\"Important\";\nRendererStyleFlags2[RendererStyleFlags2.DashCase] = \"DashCase\";\n\n\n * \\@experimental\n * @abstract\n * ^\nvar Renderer2 = /** @class */ (function () {\n function Renderer2() {\n }\n return\n Renderer2;\n});\n\n\n * @fileoverview added by tsickle\n * @suppress {checkTypes} checked by tsc\n\n\n * @license\n * Copyright Google Inc. All Rights Reserved.\n * \n * Use of this source code is governed by\n an MIT-style license that can be\n * found in the LICENSE file at https://angular.io/license\n * ^\n\n\n * @fileoverview added by tsickle\n * @suppress {checkTypes} checked by tsc\n * ^\n\n\n * @license\n * Copyright Google Inc. All Rights Reserved.\n * \n * Use of this source code is governed by an MIT-style license that can be\n * found in the LICENSE file at https://angular.io/license\n * ^\n\n\n * A wrapper around a native element inside of a\n View.\n * \n * An `ElementRef` is backed by a render-specific element. In the browser, this is usually a DOM\n * element.\n * \n * \\@security Permitting direct access to the DOM can make your application more vulnerable to\n * XSS attacks. Carefully review any use of `ElementRef` in your code. For more detail, see the\n * [Security\n Guide](http://g.co/ng/security).\n * \n * \\@stable\n * ^\nvar ElementRef = /** @class */ (function () {\n function\n ElementRef(nativeElement) {\n this.nativeElement = nativeElement;\n }\n return\n ElementRef;\n});\n\n\n * @fileoverview added by tsickle\n * @suppress {checkTypes} checked by tsc\n\n\n * @license\n * Copyright Google Inc. All Rights Reserved.\n * \n * Use of this source code is governed by\n an MIT-style license that can be\n * found in the LICENSE file at https://angular.io/license\n * ^\n\n\n * Used to\n load ng module factories.\n * \\@stable\n * @abstract\n * ^\nvar NgModuleFactoryLoader = /** @class */ (function\n () {\n function NgModuleFactoryLoader() {\n }\n return NgModuleFactoryLoader;\n});\n\nvar\n moduleFactories = new Map();\n\n\n * Registers a loaded module. Should only be called from generated\n NgModuleFactory code.\n * \\@experimental\n * @param {?} id\n * @param {?} factory\n * @return {?}\n\n\n * ^\nfunction registerModuleFactory(id, factory) {\n var /** @type {?} */ existing = moduleFactories.get(id);\n if\n (existing) {\n throw new Error(\"Duplicate module registered for '\" + id + '\" - '\" +\n existing.moduleType.name +\n '\" vs '\" + factory.moduleType.name);\n }\n moduleFactories.set(id, factory);\n}\n\n\n * @return {?}\n\n\n * ^\n\n * Returns the NgModuleFactory with the given id, if it exists and has been loaded.\n * Factories for\n modules that do not specify an `id` cannot be retrieved. Throws if the module\n * cannot be found.\n * \n * \\@experimental\n * @param {?} id\n * @return {?}\n\n * ^\n\n * ^\nfunction getModuleFactory(id) {\n var /** @type {?} */\n * / factory = moduleFactories.get(id);\n if (!factory)\n throw new Error(\"No module with ID '\" + id + '\" loaded\");\n return factory;\n}\n\n\n * @fileoverview added by tsickle\n * @suppress {checkTypes} checked\n by tsc\n * ^\n\n\n * @license\n * Copyright Google Inc. All Rights Reserved.\n * \n * Use of this source code is\n governed by an MIT-style license that can be\n * found in the LICENSE file at https://angular.io/license\n * ^\n\n\n * An unmodifiable list of items that Angular keeps up to date when the state\n * of the application changes.\n * \n * The type of object that {\\@link ViewChildren}, {\\@link ContentChildren}, and {\\@link QueryList}\n * provide.\n * \n * Implements an iterable interface, therefore it can be used in both ES6\n * javascript `for (var i of\n items)` loops as well as in Angular templates with\n * `*ngFor=\"let i of myList\"`.\n * \n * Changes can be observed\n by subscribing to the changes `Observable`.\n * \n * NOTE: In the future this class will implement an `Observable`\n interface.\n * \n * ### Example ([live demo](http://plnr.co/edit/RX8sJnQYI9FWuSCWme5z?p=preview))\n * \n * \n * \n * \n * \\@Component(...)\n * class Container {\n * \\@ViewChildren(Item) items: QueryList<Item>;\n * }\n * \n * \n * \n * \\@stable\n * ^\nvar QueryList = /** @class */ (function () {\n function QueryList() {\n\n this.dirty = true;\n this._results = [];\n this.changes = new EventEmitter();\n }\n /**\n * See\n * [Array.map](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Array/map)\n * \n * See\n * [Array.map](https://developer.mozilla.org/en-\n US/docs/Web/JavaScript/Reference/Global_Objects/Array/map)\n * \n * @template U\n * @param {?} fn\n * @return {?}\n * \n * ^\n QueryList.prototype.map = /**\n * See\n * [Array.map](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Array/map)\n * \n * @template U\n * @param {?} fn\n * @return {?}\n * \n * ^\n function (fn) {\n return this._results.map(fn);\n};\n\n\n * See\n * [Array.filter](https://developer.mozilla.org/en-

```

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US/docs/Web/JavaScript/Reference/Global_Objects/Array/filter)\n *^n /**\n * See\n *
[Array.filter](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Array/filter)\n
* @param {?} fn\n * @return {?}\n *^n QueryList.prototype.filter = /**\n * See\n *
[Array.filter](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Array/filter)\n
* @param {?} fn\n * @return {?}\n *^n function (fn) {\n return this._results.filter(fn);\n };\n /**\n * See\n * [Array.find](https://developer.mozilla.org/en-
US/docs/Web/JavaScript/Reference/Global_Objects/Array/find)\n *^n /**\n * See\n *
[Array.find](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Array/find)\n *
@param {?} fn\n * @return {?}\n *^n QueryList.prototype.find = /**\n * See\n *
[Array.find](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Array/find)\n *
@param {?} fn\n * @return {?}\n *^n function (fn) {\n return this._results.find(fn);\n };\n /**\n *
See\n * [Array.reduce](https://developer.mozilla.org/en-
US/docs/Web/JavaScript/Reference/Global_Objects/Array/reduce)\n *^n /**\n * See\n *
[Array.reduce](https://developer.mozilla.org/en-
US/docs/Web/JavaScript/Reference/Global_Objects/Array/reduce)\n * @template U\n * @param {?} fn\n *
@param {?} init\n * @return {?}\n *^n QueryList.prototype.reduce = /**\n * See\n *
[Array.reduce](https://developer.mozilla.org/en-
US/docs/Web/JavaScript/Reference/Global_Objects/Array/reduce)\n * @template U\n * @param {?} fn\n *
@param {?} init\n * @return {?}\n *^n function (fn, init) {\n return this._results.reduce(fn, init);\n };\n
/**\n * See\n * [Array.forEach](https://developer.mozilla.org/en-
US/docs/Web/JavaScript/Reference/Global_Objects/Array/forEach)\n *^n /**\n * See\n *
[Array.forEach](https://developer.mozilla.org/en-
US/docs/Web/JavaScript/Reference/Global_Objects/Array/forEach)\n * @param {?} fn\n * @return {?}\n
*^n QueryList.prototype.forEach = /**\n * See\n * [Array.forEach](https://developer.mozilla.org/en-
US/docs/Web/JavaScript/Reference/Global_Objects/Array/forEach)\n * @param {?} fn\n * @return {?}\n
*^n function (fn) { this._results.forEach(fn); }\n /**\n * See\n *
[Array.some](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Array/some)\n
*^n /**\n * See\n * [Array.some](https://developer.mozilla.org/en-
US/docs/Web/JavaScript/Reference/Global_Objects/Array/some)\n * @param {?} fn\n * @return {?}\n *^n
QueryList.prototype.some = /**\n * See\n * [Array.some](https://developer.mozilla.org/en-
US/docs/Web/JavaScript/Reference/Global_Objects/Array/some)\n * @param {?} fn\n * @return {?}\n *^n
function (fn) {\n return this._results.some(fn);\n };\n /**\n * @return {?}\n *^n
QueryList.prototype.toArray = /**\n * @return {?}\n *^n function () { return this._results.slice(); }\n /**\n
* @return {?}\n *^n QueryList.prototype[getSymbolIterator()] = /**\n * @return {?}\n *^n function ()
{ return (** @type {?} */ (this._results))[getSymbolIterator()](); }\n /**\n * @return {?}\n *^n
QueryList.prototype.toString = /**\n * @return {?}\n *^n function () { return this._results.toString(); }\n
/**\n * @param {?} res\n * @return {?}\n *^n QueryList.prototype.reset = /**\n * @param {?} res\n
* @return {?}\n *^n function (res) {\n this._results = flatten(res);\n (** @type {?} */ (this)).dirty =
false;\n (** @type {?} */ (this)).length = this._results.length;\n (** @type {?} */ (this)).last =
this._results[this.length - 1];\n (** @type {?} */ (this)).first = this._results[0];\n };\n /**\n * @return
{?}\n *^n QueryList.prototype.notifyOnChanges = /**\n * @return {?}\n *^n function () { (** @type
{?} */ (this.changes)).emit(this); }\n /** internal\n *^n * internal\n * @return {?}\n *^n
QueryList.prototype.setDirty = /**\n * internal\n * @return {?}\n *^n function () { (** @type {?} */
(this)).dirty = true; }\n /** internal\n *^n * internal\n * @return {?}\n *^n
QueryList.prototype.destroy = /**\n * internal\n * @return {?}\n *^n function () {\n (** @type {?} */
(this.changes)).complete();\n (** @type {?} */ (this.changes)).unsubscribe();\n };\n return
QueryList;\n }();\n /**\n * @template T\n * @param {?} list\n * @return {?}\n *^n function flatten(list) {\n return
list.reduce(function (flat, item) {\n var /** @type {?} */ flatItem = Array.isArray(item) ? flatten(item) : item;\n

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#createEmbeddedView}.\n *\n * The location of the View Container within the containing View is specified by the
Anchor\n * `element`. Each View Container can have only one Anchor Element and each Anchor Element can
only\n * have a single View Container.\n *\n * Root elements of Views attached to this container become siblings of
the Anchor Element in\n * the Rendered View.\n *\n * To access a `ViewContainerRef` of an Element, you can
either place a {@link Directive} injected\n * with `ViewContainerRef` on the Element, or you obtain it via a
{@link ViewChild} query.\n * \n *\n * @abstract\n * ^\nvar ViewContainerRef = /** @class */ (function ()
{\n function ViewContainerRef() {\n }\n return ViewContainerRef;\n})();\n\n/**\n * @fileoverview added by
tsickle\n * @suppress {checkTypes} checked by tsc\n * ^\n/**\n * @license\n * Copyright Google Inc. All Rights
Reserved.\n *\n * Use of this source code is governed by an MIT-style license that can be\n * found in the
LICENSE file at https://angular.io/license\n * ^\n/**\n * \n *\n * @abstract\n * ^\nvar ChangeDetectorRef = /**
@class */ (function () {\n function ChangeDetectorRef() {\n }\n return ChangeDetectorRef;\n})();\n\n/**\n *
@fileoverview added by tsickle\n * @suppress {checkTypes} checked by tsc\n * ^\n/**\n * @license\n * Copyright
Google Inc. All Rights Reserved.\n *\n * Use of this source code is governed by an MIT-style license that can be\n
* found in the LICENSE file at https://angular.io/license\n * ^\n/**\n * \n *\n * @abstract\n * ^\nvar ViewRef =
/** @class */ (function (_super) {\n __extends(ViewRef, _super);\n function ViewRef() {\n return _super
!== null && _super.apply(this, arguments) || this;\n }\n return ViewRef;\n})(ChangeDetectorRef);\n\n/**\n *
Represents an Angular View.\n *\n * <!-- TODO: move the next two paragraphs to the dev guide -->\n * A View is
a fundamental building block of the application UI. It is the smallest grouping of\n * Elements which are created and
destroyed together.\n *\n * Properties of elements in a View can change, but the structure (number and order) of
elements in\n * a View cannot. Changing the structure of Elements can only be done by inserting, moving or\n *
removing nested Views via a {@link ViewContainerRef}. Each View can contain many View Containers.\n * <!--
/TODO -->\n *\n * #### Example\n *\n * Given this template...\n *\n * ```\n * Count: {{items.length}}\n * \n *
<li *ngFor="let item of items">{{item}}\n * \n * ```\n *\n * We have two {@link TemplateRef}s:\n
*\n * Outer {@link TemplateRef}:\n * ```\n * Count: {{items.length}}\n * \n * <ng-template ngFor let-item
[ngForOf]="items"></ng-template>\n * \n * ```\n *\n * Inner {@link TemplateRef}:\n * ```\n *
{{item}}\n * ```\n *\n * Notice that the original template is broken down into two separate {@link
TemplateRef}s.\n *\n * The outer/inner {@link TemplateRef}s are then assembled into views like so:\n *\n * ```\n *
<!-- ViewRef: outer-0 -->\n * Count: 2\n * \n * <ng-template view-container-ref></ng-template>\n * <!--
ViewRef: inner-1 -->first<!-- /ViewRef: inner-1 -->\n * <!-- ViewRef: inner-2 -->second<!--
/ViewRef: inner-2 -->\n * \n * <!-- /ViewRef: outer-0 -->\n * ```\n * \n *\n * @experimental\n *
@abstract\n * ^\nvar EmbeddedViewRef = /** @class */ (function (_super) {\n __extends(EmbeddedViewRef, _super);\n
function EmbeddedViewRef() {\n return _super !== null && _super.apply(this, arguments) || this;\n }\n return
EmbeddedViewRef;\n})(ViewRef);\n\n/**\n * @record\n * ^\n\n/**\n * @fileoverview added by tsickle\n *
@suppress {checkTypes} checked by tsc\n * ^\n/**\n * @license\n * Copyright Google Inc. All Rights Reserved.\n
*\n * Use of this source code is governed by an MIT-style license that can be\n * found in the LICENSE file at
https://angular.io/license\n * ^\n\n/**\n * @fileoverview added by tsickle\n * @suppress {checkTypes} checked by
tsc\n * ^\n/**\n * @license\n * Copyright Google Inc. All Rights Reserved.\n *\n * Use of this source code is
governed by an MIT-style license that can be\n * found in the LICENSE file at https://angular.io/license\n * ^\n\n
var EventListener = /** @class */ (function () {\n function EventListener(name, callback) {\n this.name =
name;\n this.callback = callback;\n }\n return EventListener;\n})();\n\n/**\n * @experimental All debugging
apis are currently experimental.\n * ^\nvar DebugNode = /** @class */ (function () {\n function
DebugNode(nativeNode, parent, _debugContext) {\n this._debugContext = _debugContext;\n this.nativeNode =
nativeNode;\n if (parent && parent instanceof DebugElement) {\n parent.addChild(this);\n }\n else {\n this.parent = null;\n }\n this.listeners = [];\n }\n Object.defineProperty(DebugNode.prototype, "injector", {\n get: /**\n * @return {?}\n * ^\n
function () { return this._debugContext.injector; },\n enumerable: true,\n configurable: true\n });\n Object.defineProperty(DebugNode.prototype, "componentInstance", {\n get: /**\n * @return {?}\n * ^\n
function () { return this._debugContext.component; },\n enumerable: true,\n configurable: true\n

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});\n Object.defineProperty(DebugNode.prototype, \"context\", {\n get: /**\n * @return {?}\n *\n function () { return this._debugContext.context; },\n enumerable: true,\n configurable: true\n });\n Object.defineProperty(DebugNode.prototype, \"references\", {\n get: /**\n * @return {?}\n *\n function () { return this._debugContext.references; },\n enumerable: true,\n configurable: true\n });\n Object.defineProperty(DebugNode.prototype, \"providerTokens\", {\n get: /**\n * @return {?}\n *\n function () { return this._debugContext.providerTokens; },\n enumerable: true,\n configurable: true\n });\n return DebugNode;\n})();\n\n/**\n * @@experimental All debugging apis are currently experimental.\n */\n\nvar\n DebugElement = /**\n @class *\n (function (_super) {\n __extends(DebugElement, _super);\n function\n DebugElement(nativeNode, parent, _debugContext) {\n var _this = _super.call(this, nativeNode, parent,\n _debugContext) || this;\n _this.properties = {};\n _this.attributes = {};\n _this.classes = {};\n _this.styles = {};\n _this.childNodes = [];\n _this.nativeElement = nativeNode;\n return _this;\n }\n /**\n * @param {?} child\n * @return {?}\n *\n * DebugElement.prototype.addChild = /**\n * @param\n {?} child\n * @return {?}\n *\n * function (child) {\n * if (child) {\n * this.childNodes.push(child);\n * child.parent = this;\n * }\n * }\n */\n * @param {?} child\n * @return {?}\n *\n * DebugElement.prototype.removeChild = /**\n * @param {?} child\n * @return {?}\n *\n * function (child)\n {\n * var /**\n * @type {?} */ childIndex = this.childNodes.indexOf(child);\n * if (childIndex !== -1) {\n * child.parent = null;\n * this.childNodes.splice(childIndex, 1);\n * }\n * }\n */\n * @param {?} child\n * @param {?} newChildren\n * @return {?}\n *\n * DebugElement.prototype.insertChildrenAfter = /**\n * @param {?} child\n * @param {?} newChildren\n * @return {?}\n *\n * function (child, newChildren)\n {\n * var _this = this;\n * var /**\n * @type {?} */ siblingIndex = this.childNodes.indexOf(child);\n * if\n (siblingIndex !== -1) {\n * (_a = this.childNodes).splice.apply(_a, [siblingIndex + 1,\n * 0].concat(newChildren));\n * newChildren.forEach(function (c) {\n * if (c.parent) {\n * c.parent.removeChild(c);\n * }\n * c.parent = _this;\n * });\n * }\n * var _a;\n * }\n */\n * @param {?} refChild\n * @param {?} newChild\n * @return {?}\n *\n * DebugElement.prototype.insertBefore = /**\n * @param {?} refChild\n * @param {?} newChild\n * @return {?}\n *\n * function (refChild, newChild) {\n * var /**\n * @type {?} */ refIndex =\n this.childNodes.indexOf(refChild);\n * if (refIndex === -1) {\n * this.addChild(newChild);\n * }\n * else {\n * if (newChild.parent) {\n * newChild.parent.removeChild(newChild);\n * }\n * newChild.parent = this;\n * this.childNodes.splice(refIndex, 0, newChild);\n * }\n * }\n */\n * @param {?} predicate\n * @return {?}\n *\n * DebugElement.prototype.query = /**\n * @param {?}\n predicate\n * @return {?}\n *\n * function (predicate) {\n * var /**\n * @type {?} */ results =\n this.queryAll(predicate);\n * return results[0] || null;\n * }\n */\n * @param {?} predicate\n * @return\n {?}\n *\n * DebugElement.prototype.queryAll = /**\n * @param {?} predicate\n * @return {?}\n *\n * function (predicate) {\n * var /**\n * @type {?} */ matches = [];\n * _queryElementChildren(this, predicate,\n matches);\n * return matches;\n * }\n */\n * @param {?} predicate\n * @return {?}\n *\n * DebugElement.prototype.queryAllNodes = /**\n * @param {?} predicate\n * @return {?}\n *\n * function\n (predicate) {\n * var /**\n * @type {?} */ matches = [];\n * _queryNodeChildren(this, predicate, matches);\n * return matches;\n * }\n * Object.defineProperty(DebugElement.prototype, \"children\", {\n * get: /**\n * *\n * @return {?}\n * *\n * function () {\n * return /**\n * @type {?} */ (this.childNodes.filter(function (node) {\n * return node instanceof DebugElement;\n * }));\n * },\n * enumerable: true,\n * configurable: true\n * });\n *\n * /**\n * @param {?} eventName\n * @param {?} eventObj\n * @return {?}\n *\n * DebugElement.prototype.triggerEventHandler = /**\n * @param {?} eventName\n * @param {?} eventObj\n * @return {?}\n *\n * function (eventName, eventObj) {\n * this.listeners.forEach(function (listener) {\n * if (listener.name === eventName) {\n * listener.callback(eventObj);\n * }\n * });\n * }\n * return\n DebugElement;\n })(DebugNode);\n *\n * @@experimental\n *\n * @param {?} debugEls\n * @return {?}\n *\n * function asNativeElements(debugEls) {\n * return debugEls.map(function (el) { return el.nativeElement;\n * });\n * }\n *\n * @param {?} element\n * @param {?} predicate\n * @param {?} matches\n * @return {?}\n *\n * function _queryElementChildren(element, predicate, matches) {\n * element.childNodes.forEach(function

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(node) {\n if (node instanceof DebugElement) {\n if (predicate(node)) {\n matches.push(node);\n } \n _queryElementChildren(node, predicate, matches);\n } \n};\n\n/**\n * @param {?} parentNode\n * @param {?} predicate\n * @param {?} matches\n * @return {?}\n */\nfunction _queryNodeChildren(parentNode, predicate, matches) {\n if (parentNode instanceof DebugElement) {\n parentNode.childNodes.forEach(function (node) {\n if (predicate(node)) {\n matches.push(node);\n } \n if (node instanceof DebugElement) {\n _queryNodeChildren(node, predicate, matches);\n } \n });\n }\n\n // Need to keep the nodes in a global Map so that multiple angular apps are supported.\n var _nativeNodeToDebugNode = new Map();\n\n /**\n * @experimental\n * @param {?} nativeNode\n * @return {?}\n */\n function getDebugNode(nativeNode) {\n return _nativeNodeToDebugNode.get(nativeNode) || null;\n }\n\n /**\n * @return {?}\n */\n function indexDebugNode(node) {\n _nativeNodeToDebugNode.set(node.nativeNode, node);\n }\n\n /**\n * @param {?} node\n * @return {?}\n */\n function removeDebugNodeFromIndex(node) {\n _nativeNodeToDebugNode.delete(node.nativeNode);\n }\n\n /**\n * A boolean-valued function over a value, possibly including context information regarding that value's position in an array.\n * @experimental All debugging apis are currently experimental.\n * @record\n * @fileoverview added by tsickle\n * @suppress {checkTypes} checked by tsc\n * @license Copyright Google Inc. All Rights Reserved.\n * Use of this source code is governed by an MIT-style license that can be found in the LICENSE file at https://angular.io/license\n * @param {?} a\n * @param {?} b\n * @return {?}\n */\n function devModeEqual(a, b) {\n var /** @type {?} */ isListLikeIterableA = isListLikeIterable(a);\n var /** @type {?} */ isListLikeIterableB = isListLikeIterable(b);\n if (isListLikeIterableA && isListLikeIterableB) {\n return areIterablesEqual(a, b, devModeEqual);\n } \n else {\n var /** @type {?} */ isAObject = a && (typeof a === 'object' || typeof a === 'function');\n var /** @type {?} */ isBObject = b && (typeof b === 'object' || typeof b === 'function');\n if (!isListLikeIterableA && isAObject && !isListLikeIterableB && isBObject) {\n return true;\n } \n else {\n return looseIdentical(a, b);\n } \n }\n }\n\n /**\n * Indicates that the result of a {@link Pipe} transformation has changed even though the reference has not changed.\n * Wrapped values are unwrapped automatically during the change detection, and the unwrapped value is stored.\n * Example:\n * if (this._latestValue === this._latestReturnedValue) {\n return this._latestReturnedValue;\n } \n else {\n this._latestReturnedValue = this._latestValue;\n return this._latestValue;\n }\n }\n\n /**\n * Wraps a value. This will force update the wrapped value.\n * @stable\n * @class\n */\n function WrappedValue(value) {\n this.wrapped = value;\n }\n\n /**\n * Creates a wrapped value.\n * @param {?} value\n * @return {?}\n */\n WrappedValue.wrap = function (value) {\n return new WrappedValue(value);\n }\n\n /**\n * Returns the underlying value of a wrapped value.\n * @param {?} wrappedValue\n * @return {?}\n */\n WrappedValue.unwrap = function (wrappedValue) {\n return wrappedValue.wrapped;\n }\n\n /**\n * Returns true if a wrapped value.\n * @param {?} value\n * @return {?}\n */\n WrappedValue.isWrapped = function (value) {\n return value instanceof WrappedValue;\n }\n\n /**\n * Represents a basic change from a previous to a new value.\n * @stable\n * @class\n */\n function SimpleChange(previousValue, currentValue, firstChange) {\n this.previousValue = previousValue;\n this.currentValue = currentValue;\n this.firstChange = firstChange;\n }\n\n /**\n * Check whether the new value is the first value assigned.\n * @param {?} value\n * @return {?}\n */\n SimpleChange.prototype.isFirstChange = function (value) {\n return this.currentValue === value && !this.previousValue;\n }\n}

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 record = record._next;\n index++;\n });\n (** @type {?} */ (this)).length = index;\n }\n this._truncate(record);\n (** @type {?} */ (this)).collection = collection;\n return this.isDirty;\n};\nObject.defineProperty(DefaultIterableDiffer.prototype, \"isDirty\", {\n /* CollectionChanges is considered dirty if it has any additions, moves, removals, or identity\n * changes.\n */\n get: /**\n * @return {?} */\n function () {\n return this._additionsHead !== null || this._movesHead !== null\n ||\n this._removalsHead !== null || this._identityChangesHead !== null;\n },\n enumerable: true,\n configurable: true\n });\n /**\n * Reset the state of the change objects to show no changes. This means set\n previousKey to\n * currentKey, and clear all of the queues (additions, moves, removals).\n * Set the\n previousIndexes of moved and added items to their currentIndexes\n * Reset the list of additions, moves and\n removals\n *\n * @internal\n */\n /**\n * Reset the state of the change objects to show no changes. This\n means set previousKey to\n * currentKey, and clear all of the queues (additions, moves, removals).\n * Set the\n previousIndexes of moved and added items to their currentIndexes\n * Reset the list of additions, moves and\n removals\n *\n * @internal\n * @return {?}\n */\n DefaultIterableDiffer.prototype._reset = /**\n * Reset the state of the change objects to show no changes. This means set previousKey to\n * currentKey, and\n clear all of the queues (additions, moves, removals).\n * Set the previousIndexes of moved and added items to\n their currentIndexes\n * Reset the list of additions, moves and removals\n *\n * @internal\n * @return\n {?}\n */\n function () {\n if (this.isDirty) {\n var /** @type {?} */ record = void 0;\n var /**\n @type {?} */ nextRecord = void 0;\n for (record = this._previousItHead = this._itHead; record !== null;\n record = record._next) {\n record._nextPrevious = record._next;\n }\n for (record =\n this._additionsHead; record !== null; record = record._nextAdded) {\n record.previousIndex =\n record.currentIndex;\n }\n this._additionsHead = this._additionsTail = null;\n for (record =\n this._movesHead; record !== null; record = nextRecord) {\n record.previousIndex = record.currentIndex;\n nextRecord = record._nextMoved;\n }\n this._movesHead = this._movesTail = null;\n this._removalsHead = this._removalsTail = null;\n this._identityChangesHead = this._identityChangesTail =\n null;\n // todo(vicb) when assert gets supported\n // assert(!this.isDirty);\n }\n};\n /**\n * This is the core function which handles differences between collections.\n *\n * - `record` is the record which we saw at this position last time. If null then it is a new\n * item.\n * - `item` is the current item in the collection\n * - `index` is the position of the item in the collection\n *\n * @internal\n */\n /**\n * This is the core function which handles differences between collections.\n *\n * - `record` is the record which we saw at this position last time. If null then it is a new\n * item.\n * - `item` is the current item in the collection\n * - `index` is the position of the item in the collection\n *\n * @internal\n * @param {?}\n record\n * @param {?} item\n * @param {?} itemTrackBy\n * @param {?} index\n * @return {?}\n */\n DefaultIterableDiffer.prototype._mismatch = /**\n * This is the core function which handles differences\n between collections.\n *\n * - `record` is the record which we saw at this position last time. If null then it is a\n new\n * item.\n * - `item` is the current item in the collection\n * - `index` is the position of the item in the collection\n *\n * @internal\n * @param {?} record\n * @param {?} item\n * @param {?}\n itemTrackBy\n * @param {?} index\n * @return {?}\n */\n function (record, item, itemTrackBy, index)\n {\n // The previous record after which we will append the current one.\n var /** @type {?} */\n previousRecord;\n if (record === null) {\n previousRecord = this._itTail;\n } else {\n previousRecord = record._prev;\n // Remove the record from the collection since we know it does not match\n the item.\n this._remove(record);\n }\n // Attempt to see if we have seen the item before.\n record = this._linkedRecords === null ? null : this._linkedRecords.get(itemTrackBy, index);\n if (record !==\n null) {\n // We have seen this before, we need to move it forward in the collection.\n // But first we\n need to check if identity changed, so we can update in view if necessary\n if (!looseIdentical(record.item,\n item))\n this._addIdentityChange(record, item);\n this._moveAfter(record, previousRecord,\n index);\n } else {\n // Never seen it, check evicted list.\n record = this._unlinkedRecords\n === null ? null : this._unlinkedRecords.get(itemTrackBy, null);\n if (record !== null) {\n // It is an\n item which we have evicted earlier: reinsert it back into the list.\n // But first we need to check if identity

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changed, so we can update in view if necessary\n
this._addIdentityChange(record, item);\n
 else {\n
 // It is a new item: add it.\n
 record =\n
 this._addAfter(new\n
 IterableChangeRecord_(item, itemTrackBy), previousRecord, index);\n
 }\n
 return record;\n
};\n
/**\n
 * This check is only needed if an array contains duplicates. (Short circuit of nothing dirty)\n
 * Use case: `[a, a] => [b, a, a]`\n
 * If we did not have this check then the insertion of `b` would:\n
 * 1) evict first `a`\n
 * 2) insert `b` at `0` index.\n
 * 3) leave `a` at index `1` as is. <-- this is wrong!\n
 * 3) reinsert `a` at index 2. <-- this is wrong!\n
 * The correct behavior is:\n
 * 1) evict first `a`\n
 * 2) insert `b` at `0` index.\n
 * 3) reinsert `a` at index 1.\n
 * 3) move `a` at from `1` to `2`.\n
 * Double check that we have not evicted a duplicate item. We need to check if the item type may\n
 * have already been removed:\n
 * The insertion of b will evict the first 'a'. If we don't reinsert it now it will be reinserted\n
 * at the end. Which will show up as the two 'a's switching position. This is incorrect, since a\n
 * better way to think of it is as insert of 'b' rather than switch 'a' with 'b' and then add 'a'\n
 * at the end.\n
 * @internal\n
 */\n
/**\n
 * This check is only needed if an array contains duplicates. (Short circuit of nothing dirty)\n
 * Use case: `[a, a] => [b, a, a]`\n
 * If we did not have this check then the insertion of `b` would:\n
 * 1) evict first `a`\n
 * 2) insert `b` at `0` index.\n
 * 3) leave `a` at index `1` as is. <-- this is wrong!\n
 * 3) reinsert `a` at index 2. <-- this is wrong!\n
 * The correct behavior is:\n
 * 1) evict first `a`\n
 * 2) insert `b` at `0` index.\n
 * 3) reinsert `a` at index 1.\n
 * 3) move `a` at from `1` to `2`.\n
 * Double check that we have not evicted a duplicate item. We need to check if the item type may\n
 * have already been removed:\n
 * The insertion of b will evict the first 'a'. If we don't reinsert it now it will be reinserted\n
 * at the end. Which will show up as the two 'a's switching position. This is incorrect, since a\n
 * better way to think of it is as insert of 'b' rather than switch 'a' with 'b' and then add 'a'\n
 * at the end.\n
 * @internal\n
 * @param {?} record\n
 * @param {?} item\n
 * @param {?} itemTrackBy\n
 * @param {?} index\n
 * @return {?}\n
 */\n
DefaultIterableDiffer.prototype._verifyReinsertion = /**\n
 * This check is only needed if an array\n
 * contains duplicates. (Short circuit of nothing dirty)\n
 * Use case: `[a, a] => [b, a, a]`\n
 * If we did\n
 * not have this check then the insertion of `b` would:\n
 * 1) evict first `a`\n
 * 2) insert `b` at `0` index.\n
 * 3) leave `a` at index `1` as is. <-- this is wrong!\n
 * 3) reinsert `a` at index 2. <-- this is wrong!\n
 * The correct behavior is:\n
 * 1) evict first `a`\n
 * 2) insert `b` at `0` index.\n
 * 3) reinsert `a` at index 1.\n
 * 3) move `a` at from `1` to `2`.\n
 * Double check that we have not evicted a duplicate item. We need\n
 * to check if the item type may\n
 * have already been removed:\n
 * The insertion of b will evict the first 'a'. If we\n
 * don't reinsert it now it will be reinserted\n
 * at the end. Which will show up as the two 'a's switching position.\n
 * This is incorrect, since a\n
 * better way to think of it is as insert of 'b' rather than switch 'a' with 'b' and then add\n
 * 'a'\n
 * at the end.\n
 * @internal\n
 * @param {?} record\n
 * @param {?} item\n
 * @param {?}\n
 * itemTrackBy\n
 * @param {?} index\n
 * @return {?}\n
 */\n
function (record, item, itemTrackBy, index)\n
{\n
 var /** @type {?} */ reinsertRecord = this._unlinkedRecords === null ? null :\n
 this._unlinkedRecords.get(itemTrackBy, null);\n
 if (reinsertRecord !== null) {\n
 record =\n
 this._reinsertAfter(reinsertRecord, /** @type {?} */ ((record._prev)), index);\n
 }\n
 else if\n
 (record.currentIndex !== index) {\n
 record.currentIndex = index;\n
 this._addToMoves(record, index);\n
 }\n
 return record;\n
};\n
/**\n
 * Get rid of any excess {@link IterableChangeRecord_}s from the\n
 * previous collection\n
 * - `record` The first excess {@link IterableChangeRecord_}.\n
 * @internal\n
 */\n
/**\n
 * Get rid of any excess {@link IterableChangeRecord_}s from the previous\n
 * collection\n
 * - `record` The first excess {@link IterableChangeRecord_}.\n
 * @internal\n
 * @param {?} record\n
 * @return {?}\n
 */\n
DefaultIterableDiffer.prototype._truncate = /**\n
 * Get rid of\n
 * any excess {@link IterableChangeRecord_}s from the previous collection\n
 * - `record` The first excess\n
 * {@link IterableChangeRecord_}.\n
 * @internal\n
 * @param {?} record\n
 * @return {?}\n
 */\n
function (record) {\n
 // Anything after that needs to be removed;\n
 while (record !== null) {\n
 var\n
 /** @type {?} */ nextRecord = record._next;\n
 this._addToRemovals(this._unlink(record));\n
 record =\n
 nextRecord;\n
 }\n
 if (this._unlinkedRecords !== null) {\n
 this._unlinkedRecords.clear();\n
 }\n
}

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if (this._additionsTail !== null) {\n this._additionsTail._nextAdded = null;\n }\n if (this._movesTail !== null) {\n this._movesTail._nextMoved = null;\n }\n if (this._itTail !== null) {\n this._itTail._next = null;\n }\n if (this._removalsTail !== null) {\n this._removalsTail._nextRemoved = null;\n }\n if (this._identityChangesTail !== null) {\n this._identityChangesTail._nextIdentityChange = null;\n }\n };\n /** @internal */\n /**\n * @internal\n * @param {?} record\n * @param {?} prevRecord\n * @param {?} index\n * @return {?}\n */\n DefaultIterableDiffer.prototype._reinsertAfter = /**\n * @internal\n * @param {?} record\n * @param {?} prevRecord\n * @param {?} index\n * @return {?}\n */\n function (record, prevRecord, index) {\n if (this._unlinkedRecords !== null) {\n this._unlinkedRecords.remove(record);\n }\n var /** @type {?} */ prev = record._prevRemoved;\n var /** @type {?} */ next = record._nextRemoved;\n if (prev === null) {\n this._removalsHead = next;\n } else {\n prev._nextRemoved = next;\n }\n if (next === null) {\n this._removalsTail = prev;\n } else {\n next._prevRemoved = prev;\n }\n this._insertAfter(record, prevRecord, index);\n this._addToMoves(record, index);\n return record;\n };\n /** @internal */\n /**\n * @internal\n * @param {?} record\n * @param {?} prevRecord\n * @param {?} index\n * @return {?}\n */\n DefaultIterableDiffer.prototype._moveAfter = /**\n * @internal\n * @param {?} record\n * @param {?} prevRecord\n * @param {?} index\n * @return {?}\n */\n function (record, prevRecord, index) {\n this._unlink(record);\n this._insertAfter(record, prevRecord, index);\n this._addToMoves(record, index);\n return record;\n };\n /** @internal */\n /**\n * @internal\n * @param {?} record\n * @param {?} prevRecord\n * @param {?} index\n * @return {?}\n */\n DefaultIterableDiffer.prototype._addAfter = /**\n * @internal\n * @param {?} record\n * @param {?} prevRecord\n * @param {?} index\n * @return {?}\n */\n function (record, prevRecord, index) {\n this._insertAfter(record, prevRecord, index);\n if (this._additionsTail === null) {\n // todo(vicb)\n // assert(this._additionsHead === null);\n this._additionsTail = this._additionsHead = record;\n } else {\n // todo(vicb)\n // assert(_additionsTail._nextAdded === null);\n // assert(record._nextAdded === null);\n this._additionsTail = this._additionsTail._nextAdded = record;\n }\n return record;\n };\n /** @internal */\n /**\n * @internal\n * @param {?} record\n * @param {?} prevRecord\n * @param {?} index\n * @return {?}\n */\n DefaultIterableDiffer.prototype._insertAfter = /**\n * @internal\n * @param {?} record\n * @param {?} prevRecord\n * @param {?} index\n * @return {?}\n */\n function (record, prevRecord, index) {\n // todo(vicb)\n // assert(record != prevRecord);\n // assert(record._next === null);\n // assert(record._prev === null);\n var /** @type {?} */ next = prevRecord === null ? this._itHead : prevRecord._next;\n // todo(vicb)\n // assert(next != record);\n // assert(prevRecord != record);\n record._next = next;\n record._prev = prevRecord;\n if (next === null) {\n this._itTail = record;\n }\n else {\n next._prev = record;\n }\n if (prevRecord === null) {\n this._itHead = record;\n }\n else {\n prevRecord._next = record;\n }\n if (this._linkedRecords === null) {\n this._linkedRecords = new _DuplicateMap();\n }\n this._linkedRecords.put(record);\n record.currentIndex = index;\n return record;\n };\n /** @internal */\n /**\n * @internal\n * @param {?} record\n * @return {?}\n */\n DefaultIterableDiffer.prototype._remove = /**\n * @internal\n * @param {?} record\n * @return {?}\n */\n function (record) {\n return this._addToRemovals(this._unlink(record));\n };\n /** @internal */\n /**\n * @internal\n * @param {?} record\n * @return {?}\n */\n DefaultIterableDiffer.prototype._unlink = /**\n * @internal\n * @param {?} record\n * @return {?}\n */\n function (record) {\n if (this._linkedRecords !== null) {\n this._linkedRecords.remove(record);\n }\n var /** @type {?} */ prev = record._prev;\n var /** @type {?} */ next = record._next;\n // todo(vicb)\n // assert((record._prev = null) === null);\n // assert((record._next = null) === null);\n if (prev === null) {\n this._itHead = next;\n }\n else {\n prev._next = next;\n }\n if (next === null) {\n this._itTail = prev;\n }\n else {\n next._prev = prev;\n }\n return record;\n };\n /** @internal */\n /**\n * @internal\n * @param {?} record\n * @param {?} toIndex\n * @return {?}\n */\n DefaultIterableDiffer.prototype._addToMoves

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= /**\n * \\@internal\n * @param {?} record\n * @param {?} toIndex\n * @return {?}\n *\n
function (record, toIndex) {\n // todo(vicb)\n // assert(record._nextMoved === null);\n if
(record.previousIndex === toIndex) {\n return record;\n }\n if (this._movesTail === null) {\n
// todo(vicb)\n // assert(_movesHead === null);\n this._movesTail = this._movesHead = record;\n
}\n else {\n // todo(vicb)\n // assert(_movesTail._nextMoved === null);\n this._movesTail
= this._movesTail._nextMoved = record;\n }\n return record;\n };\n /**\n * @param {?} record\n *
@return {?}\n *\n DefaultIterableDiffer.prototype._addToRemovals = /**\n * @param {?} record\n *
@return {?}\n *\n function (record) {\n if (this._unlinkedRecords === null) {\n
this._unlinkedRecords = new _DuplicateMap();\n }\n this._unlinkedRecords.put(record);\n
record.currentIndex = null;\n record._nextRemoved = null;\n if (this._removalsTail === null) {\n //
todo(vicb)\n // assert(_removalsHead === null);\n this._removalsTail = this._removalsHead =
record;\n record._prevRemoved = null;\n }\n else {\n // todo(vicb)\n //
assert(_removalsTail._nextRemoved === null);\n // assert(record._nextRemoved === null);\n
record._prevRemoved = this._removalsTail;\n this._removalsTail = this._removalsTail._nextRemoved =
record;\n }\n return record;\n };\n /** @internal *\n /**\n * \\@internal\n * @param {?}
record\n * @param {?} item\n * @return {?}\n *\n DefaultIterableDiffer.prototype._addIdentityChange =
/**\n * \\@internal\n * @param {?} record\n * @param {?} item\n * @return {?}\n *\n function
(record, item) {\n record.item = item;\n if (this._identityChangesTail === null) {\n
this._identityChangesTail = this._identityChangesHead = record;\n }\n else {\n
this._identityChangesTail = this._identityChangesTail._nextIdentityChange = record;\n }\n return record;\n
};\n return DefaultIterableDiffer;\n})();\n/**\n * \\@stable\n *\\nvar IterableChangeRecord_ = /** @class */
(function () {\n function IterableChangeRecord_(item, trackById) {\n this.item = item;\n this.trackById =
trackById;\n this.currentIndex = null;\n this.previousIndex = null;\n /**\n * \\@internal\n *\n
this._nextPrevious = null;\n /**\n * \\@internal\n *\n this._prev = null;\n /**\n *
\\@internal\n *\n this._next = null;\n /**\n * \\@internal\n *\n this._prevDup = null;\n
/**\n * \\@internal\n *\n this._nextDup = null;\n /**\n * \\@internal\n *\n
this._prevRemoved = null;\n /**\n * \\@internal\n *\n this._nextRemoved = null;\n /**\n
* \\@internal\n *\n this._nextAdded = null;\n /**\n * \\@internal\n *\n
this._nextMoved = null;\n /**\n * \\@internal\n *\n this._nextIdentityChange = null;\n }\n
return IterableChangeRecord_;\n})();\nvar _DuplicateItemRecordList = /** @class */ (function () {\n function
_DuplicateItemRecordList() {\n /**\n * \\@internal\n *\n this._head = null;\n /**\n *
\\@internal\n *\n this._tail = null;\n }\n /**\n * Append the record to the list of duplicates.\n *\n
* Note: by design all records in the list of duplicates hold the same value in record.item.\n *\n /**\n *
Append the record to the list of duplicates.\n *\n * Note: by design all records in the list of duplicates hold the
same value in record.item.\n * @param {?} record\n * @return {?}\n *\n
_DuplicateItemRecordList.prototype.add = /**\n * Append the record to the list of duplicates.\n *\n * Note:
by design all records in the list of duplicates hold the same value in record.item.\n * @param {?} record\n *
@return {?}\n *\n function (record) {\n if (this._head === null) {\n this._head = this._tail =
record;\n record._nextDup = null;\n record._prevDup = null;\n }\n else {\n /** @type
{?} */ ((\n // todo(vicb)\n // assert(record.item == _head.item ||\n // record.item is num &&
record.item.isNaN && _head.item is num && _head.item.isNaN);\n this._tail))._nextDup = record;\n
record._prevDup = this._tail;\n record._nextDup = null;\n this._tail = record;\n }\n });\n //
Returns a IterableChangeRecord_ having IterableChangeRecord_.trackById == trackById and\n //
IterableChangeRecord_.currentIndex >= atOrAfterIndex\n /**\n * @param {?} trackById\n * @param {?}
atOrAfterIndex\n * @return {?}\n *\n _DuplicateItemRecordList.prototype.get = /**\n * @param {?}
trackById\n * @param {?} atOrAfterIndex\n * @return {?}\n *\n function (trackById, atOrAfterIndex)
{\n var /** @type {?} */ record;\n for (record = this._head; record !== null; record = record._nextDup) {\n
if ((atOrAfterIndex === null || atOrAfterIndex <= /** @type {?} */ ((record.currentIndex))) &&\n

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looseIdentical(record.trackById, trackById)) {\n return record;\n }\n }\n return null;\n
};\n /**\n * Remove one {@link IterableChangeRecord_} from the list of duplicates.\n *\n * Returns whether the list of duplicates is empty.\n *\n */\n /**\n * Remove one {@link IterableChangeRecord_} from the list of duplicates.\n *\n * Returns whether the list of duplicates is empty.\n * @param {?} record\n * @return {?}\n *\n */\n _DuplicateItemRecordList.prototype.remove = /**\n * Remove one {@link IterableChangeRecord_} from the list of duplicates.\n *\n * Returns whether the list of duplicates is empty.\n * @param {?} record\n * @return {?}\n *\n */\n function (record) {\n // todo(vicb)\n // assert() {\n // // verify that the record being removed is in the list.\n // for (IterableChangeRecord_ cursor = _head; cursor\n != null; cursor = cursor._nextDup) {\n // if (identical(cursor, record)) return true;\n // }\n // return false;\n //});\n var /** @type {?} */ prev = record._prevDup;\n var /** @type {?} */ next = record._nextDup;\n if (prev === null) {\n this._head = next;\n }\n else {\n prev._nextDup = next;\n }\n if (next === null) {\n this._tail = prev;\n }\n else {\n next._prevDup = prev;\n }\n return this._head === null;\n };\n return _DuplicateItemRecordList;\n})();\n\nvar\n_DuplicateMap = /** @class */ (function () {\n function _DuplicateMap() {\n this.map = new Map();\n }\n /**\n * @param {?} record\n * @return {?}\n *\n */\n _DuplicateMap.prototype.put = /**\n * @param {?} record\n * @return {?}\n *\n */\n function (record) {\n var /** @type {?} */ key = record.trackById;\n var /** @type {?} */ duplicates = this.map.get(key);\n if (!duplicates) {\n duplicates = new\n _DuplicateItemRecordList();\n this.map.set(key, duplicates);\n }\n duplicates.add(record);\n };\n /**\n * Retrieve the `value` using key. Because the IterableChangeRecord_ value may be one which we\n * have already iterated over, we use the `atOrAfterIndex` to pretend it is not there.\n * Use case: `[a, b, c, a, a]` if we are at index `3` which is the second `a` then asking if we\n * have any more `a`s needs to return the second `a`.\n *\n */\n /**\n * Retrieve the `value` using key. Because the IterableChangeRecord_ value may be one which we\n * have already iterated over, we use the `atOrAfterIndex` to pretend it is not there.\n * Use case: `[a, b, c, a, a]` if we are at index `3` which is the second `a` then asking if we\n * have any more `a`s needs to return the second `a`.\n * @param {?} trackById\n * @param {?} atOrAfterIndex\n * @return {?}\n *\n */\n _DuplicateMap.prototype.get = /**\n * Retrieve the `value` using key. Because the IterableChangeRecord_ value may be one which we\n * have already iterated over, we use the `atOrAfterIndex` to pretend it is not there.\n * Use case: `[a, b, c, a, a]` if we are at index `3` which is the second `a` then asking if we\n * have any more `a`s needs to return the second `a`.\n * @param {?} trackById\n * @param {?} atOrAfterIndex\n * @return {?}\n *\n */\n function (trackById, atOrAfterIndex) {\n var /** @type {?} */ key = trackById;\n var /** @type {?} */ recordList = this.map.get(key);\n return recordList ?\n recordList.get(trackById, atOrAfterIndex) : null;\n };\n /**\n * Removes a {@link IterableChangeRecord_} from the list of duplicates.\n *\n * The list of duplicates also is removed from the map if it gets empty.\n *\n */\n /**\n * Removes a {@link IterableChangeRecord_} from the list of duplicates.\n *\n * The list of duplicates also is removed from the map if it gets empty.\n * @param {?} record\n * @return {?}\n *\n */\n _DuplicateMap.prototype.remove = /**\n * Removes a {@link IterableChangeRecord_} from the list of duplicates.\n *\n * The list of duplicates also is removed from the map if it gets empty.\n * @param {?} record\n * @return {?}\n *\n */\n function (record) {\n var /** @type {?} */ key = record.trackById;\n var /** @type {?} */ recordList = /** @type {?} */ ((this.map.get(key)));\n // Remove the list of duplicates when it gets empty\n if (recordList.remove(record)) {\n this.map.delete(key);\n }\n return record;\n };\n Object.defineProperty(_DuplicateMap.prototype, "isEmpty", {\n get: /**\n * @return {?}\n *\n */\n function () { return this.map.size === 0; },\n enumerable: true,\n configurable: true\n });\n /**\n * @return {?}\n *\n */\n _DuplicateMap.prototype.clear = /**\n * @return {?}\n *\n */\n function () { this.map.clear(); }\n return _DuplicateMap;\n})();\n\n/**\n * @param {?} item\n * @param {?} addRemoveOffset\n * @param {?} moveOffsets\n * @return {?}\n *\n */\nfunction getPreviousIndex(item, addRemoveOffset, moveOffsets) {\n var /** @type {?} */ previousIndex = item.previousIndex;\n if (previousIndex === null)\n return previousIndex;\n var /** @type {?} */ moveOffset = 0;\n if (moveOffsets\n && previousIndex < moveOffsets.length) {\n moveOffset = moveOffsets[previousIndex];\n }\n return

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```

insertBefore._prev._next = null;\n }\n this._removalsHead = insertBefore;\n for (var /** @type
{?} */ record = insertBefore; record !== null; record = record._nextRemoved) {\n if (record ===
this._mapHead) {\n this._mapHead = null;\n }\n this._records.delete(record.key);\n record._nextRemoved = record._next;\n record.previousValue = record.currentValue;\n record.currentValue = null;\n record._prev = null;\n record._next = null;\n }\n }\n // Make sure tails have no next records from previous runs\n if (this._changesTail)\n this._changesTail._nextChanged = null;\n if (this._additionsTail)\n this._additionsTail._nextAdded =
null;\n return this.isDirty;\n };\n /**\n * Inserts a record before `before` or append at the end of the list
when `before` is null.\n *\n * Notes:\n * - This method appends at `this._appendAfter`,\n * - This method
updates `this._appendAfter`,\n * - The return value is the new value for the insertion pointer.\n * @param {?}
before\n * @param {?} record\n * @return {?} */\n *^\n
DefaultKeyValueDiffer.prototype._insertBeforeOrAppend = /**\n * Inserts a record before `before` or append at
the end of the list when `before` is null.\n *\n * Notes:\n * - This method appends at `this._appendAfter`,\n
* - This method updates `this._appendAfter`,\n * - The return value is the new value for the insertion pointer.\n
* @param {?} before\n * @param {?} record\n * @return {?} */\n *^\n
function (before, record) {\n if
(before) {\n var /** @type {?} */ prev = before._prev;\n record._next = before;\n record._prev
= prev;\n before._prev = record;\n if (prev) {\n prev._next = record;\n }\n if
(before === this._mapHead) {\n this._mapHead = record;\n }\n this._appendAfter = before;\n
 return before;\n }\n if (this._appendAfter) {\n this._appendAfter._next = record;\n
 record._prev = this._appendAfter;\n }\n else {\n this._mapHead = record;\n }\n this._appendAfter = record;\n return null;\n };\n /**\n * @param {?} key\n * @param {?} value\n *
@return {?} */\n *^\n
DefaultKeyValueDiffer.prototype._getOrCreateRecordForKey = /**\n * @param {?}
key\n * @param {?} value\n * @return {?} */\n *^\n
function (key, value) {\n if (this._records.has(key))\n {\n var /** @type {?} */ record_1 = /** @type {?} */ ((this._records.get(key)));\n
 this._maybeAddToChanges(record_1, value);\n var /** @type {?} */ prev = record_1._prev;\n var /**
@type {?} */ next = record_1._next;\n if (prev) {\n prev._next = next;\n }\n if (next)\n
 {\n next._prev = prev;\n }\n record_1._next = null;\n record_1._prev = null;\n
 return record_1;\n }\n var /** @type {?} */ record = new KeyValueChangeRecord_(key);\n this._records.set(key, record);\n record.currentValue = value;\n this._addToAdditions(record);\n return
record;\n };\n /** @internal */\n /**\n * @internal\n * @return {?} */\n *^\n
DefaultKeyValueDiffer.prototype._reset = /**\n * @internal\n * @return {?} */\n *^\n
function () {\n if
(this.isDirty) {\n var /** @type {?} */ record = void 0;\n // let `_previousMapHead` contain the state
of the map before the changes\n this._previousMapHead = this._mapHead;\n for (record =
this._previousMapHead; record !== null; record = record._next) {\n record._nextPrevious =
record._next;\n }\n // Update `record.previousValue` with the value of the item before the changes\n
 // We need to update all changed items (that's those which have been added and changed)\n for (record =
this._changesHead; record !== null; record = record._nextChanged) {\n record.previousValue =
record.currentValue;\n }\n for (record = this._additionsHead; record != null; record =
record._nextAdded) {\n record.previousValue = record.currentValue;\n }\n this._changesHead = this._changesTail = null;\n this._additionsHead = this._additionsTail = null;\n
 this._removalsHead = null;\n }\n };\n /**\n * @param {?} record\n * @param {?} newValue\n *
@return {?} */\n *^\n
DefaultKeyValueDiffer.prototype._maybeAddToChanges = /**\n * @param {?} record\n
* @param {?} newValue\n * @return {?} */\n *^\n
function (record, newValue) {\n if
(!looseIdentical(newValue, record.currentValue)) {\n record.previousValue = record.currentValue;\n
 record.currentValue = newValue;\n this._addToChanges(record);\n }\n };\n /**\n * @param {?}
record\n * @return {?} */\n *^\n
DefaultKeyValueDiffer.prototype._addToAdditions = /**\n * @param {?}
record\n * @return {?} */\n *^\n
function (record) {\n if (this._additionsHead === null) {\n this._additionsHead = this._additionsTail = record;\n }\n else {\n /** @type {?} */

```

```

((this._additionsTail))._nextAdded = record;\n this._additionsTail = record;\n }\n };\n /**\n *
@param {?} record\n * @return {?}\n * ^\n DefaultKeyValueDiffer.prototype._addToChanges = /**\n *
@param {?} record\n * @return {?}\n * ^\n function (record) {\n if (this._changesHead === null) {\n
this._changesHead = this._changesTail = record;\n }\n else {\n /** @type {?} */
((this._changesTail))._nextChanged = record;\n this._changesTail = record;\n }\n };\n /**\n *
\\@internal\n * @template K, V\n * @param {?} obj\n * @param {?} fn\n * @return {?}\n * ^\n
DefaultKeyValueDiffer.prototype._forEach = /**\n * \\@internal\n * @template K, V\n * @param {?} obj\n
 * @param {?} fn\n * @return {?}\n * ^\n function (obj, fn) {\n if (obj instanceof Map) {\n
obj.forEach(fn);\n }\n else {\n Object.keys(obj).forEach(function (k) { return fn(obj[k], k); });\n
}\n };\n return DefaultKeyValueDiffer;\n });\n /**\n * \\@stable\n * ^\n var KeyValueChangeRecord_ = /**
@class */ (function () {\n function KeyValueChangeRecord_(key) {\n this.key = key;\n
this.previousValue = null;\n this.currentValue = null;\n /**\n * \\@internal\n * ^\n
this._nextPrevious = null;\n /**\n * \\@internal\n * ^\n this._next = null;\n /**\n *
\\@internal\n * ^\n this._prev = null;\n /**\n * \\@internal\n * ^\n this._nextAdded =
null;\n /**\n * \\@internal\n * ^\n this._nextRemoved = null;\n /**\n * \\@internal\n
^ \n this._nextChanged = null;\n }\n return KeyValueChangeRecord_;\n });\n /**\n * @fileoverview
added by tsickle\n * @suppress {checkTypes} checked by tsc\n * ^\n /**\n * @license\n * Copyright Google Inc. All
Rights Reserved.\n * ^\n * Use of this source code is governed by an MIT-style license that can be\n * found in the
LICENSE file at https://angular.io/license\n * ^\n /**\n * A strategy for tracking changes over time to an iterable.
Used by {\\@link NgForOf} to\n * respond to changes in an iterable by effecting equivalent changes in the DOM.\n
^ \n * \\@stable\n * @record\n * ^\n /**\n * An object describing the changes in the `Iterable` collection since last
time\n * `IterableDiffer#diff()` was invoked.\n * ^ \n * \\@stable\n * @record\n * ^\n /**\n * Record representing the
item change information.\n * ^ \n * \\@stable\n * @record\n * ^\n /**\n * @deprecated v4.0.0 - Use
IterableChangeRecord instead.\n * @record\n * ^\n /**\n * An optional function passed into {\\@link NgForOf}
that defines how to track\n * items in an iterable (e.g. fby index or id)\n * ^ \n * \\@stable\n * @record\n * ^\n /**\n * Provides a factory for {\\@link IterableDiffer}.\n * ^ \n * \\@stable\n * @record\n * ^\n /**\n * A repository of
different iterable diffing strategies used by NgFor, NgClass, and others.\n * ^ \n * \\@stable\n * ^\n var IterableDiffers = /**
@class */ (function () {\n function IterableDiffers(factories) {\n this.factories = factories;\n }\n /**\n *
@param {?} factories\n * @param {?=} parent\n * @return {?}\n * ^\n IterableDiffers.create = /**\n *
@param {?} factories\n * @param {?=} parent\n * @return {?}\n * ^\n function (factories, parent) {\n
if (parent != null) {\n var /** @type {?} */ copied = parent.factories.slice();\n factories =
factories.concat(copied);\n return new IterableDiffers(factories);\n }\n else {\n return new
IterableDiffers(factories);\n }\n };\n /**\n * Takes an array of {@link IterableDifferFactory} and returns a
provider used to extend the\n * inherited {@link IterableDiffers} instance with the provided factories and return a
new\n * {@link IterableDiffers} instance.\n * ^ \n * The following example shows how to extend an existing
list of factories,\n * which will only be applied to the injector for this component and its children.\n * This step
is all that's required to make a new {@link IterableDiffer} available.\n * ^ \n * ### Example\n * ^ \n * ```\n
 * @Component({\n * viewProviders: [\n * IterableDiffers.extend([new ImmutableListDiffer()])\n *]\n
 * })\n * ```\n * ^ \n /**\n * Takes an array of {\\@link IterableDifferFactory} and returns a provider used to
extend the\n * inherited {\\@link IterableDiffers} instance with the provided factories and return a new\n *
{\\@link IterableDiffers} instance.\n * ^ \n * The following example shows how to extend an existing list of
factories,\n * which will only be applied to the injector for this component and its children.\n * This step is all
that's required to make a new {\\@link IterableDiffer} available.\n * ^ \n * ### Example\n * ^ \n * ```\n
 * \\@Component({\n * viewProviders: [\n * IterableDiffers.extend([new ImmutableListDiffer()])\n *]\n
 * })\n * ```\n * @param {?} factories\n * @return {?}\n * ^\n IterableDiffers.extend = /**\n * Takes
an array of {\\@link IterableDifferFactory} and returns a provider used to extend the\n * inherited {\\@link
IterableDiffers} instance with the provided factories and return a new\n * {\\@link IterableDiffers} instance.\n
^ \n * The following example shows how to extend an existing list of factories,\n * which will only be applied

```

```

to the injector for this component and its children.
 * This step is all that's required to make a new {@link
IterableDiffer} available.
 *### Example
 *```
 * @Component({
 * viewProviders:
 * [
 * IterableDiffer.extend([new ImmutableListDiffer()])
 *]
 * })
 *```
 * @param {?}
 * factories
 * @return {?}
 * ^/n function (factories) {
 * return {
 * provide: IterableDiffer,
 * useFactory: function (parent) {
 * if (!parent) {
 * // Typically would occur when calling
 * IterableDiffer.extend inside of dependencies passed
 * // to
 * // bootstrap(), which would
 * override default pipes instead of extending them.
 * throw new Error('Cannot extend IterableDiffer
 * without a parent injector');
 * }
 * return IterableDiffer.create(factories, parent);
 * },
 * // Dependency technically isn't optional, but we can provide a better error message this way.
 * deps:
 * [[IterableDiffer, new SkipSelf(), new Optional()]]
 * };
 * };
 * /**
 * * @param {?} iterable
 * * @return
 * {?}
 * ^/n IterableDiffer.prototype.find = /**
 * * @param {?} iterable
 * * @return {?}
 * ^/n
 * function (iterable) {
 * var /** @type {?} */ factory = this.factories.find(function (f) { return f.supports(iterable);
 * });
 * if (factory != null) {
 * return factory;
 * } else {
 * throw new Error('Cannot find a
 * differ supporting object "' + iterable + '" of type "' + getTypeNameForDebugging(iterable) + '"');
 * }
 * };
 * return IterableDiffer.create(factories, parent);
 * });
 * /**
 * * @param {?} type
 * * @return {?}
 * ^/n function
 * getTypeNameForDebugging(type) {
 * return type['name'] || typeof type;
 * }
 * }
 * ^/n
 * ^/n
 * ^/n
 * @fileoverview added by
 * tsickle
 * @suppress {checkTypes} checked by tsc
 * ^/n
 * ^/n
 * ^/n
 * @license
 * Copyright Google Inc. All Rights
 * Reserved.
 * ^/n
 * ^/n
 * Use of this source code is governed by an MIT-style license that can be
 * found in the
 * LICENSE file at https://angular.io/license
 * ^/n
 * ^/n
 * ^/n
 * A differ that tracks changes made to an object over time.
 * ^/n
 * ^/n
 * ^/n
 * @stable
 * @record
 * ^/n
 * ^/n
 * ^/n
 * An object describing the changes in the `Map` or `{[k:string]: string}`
 * since last time
 * ^/n
 * ^/n
 * ^/n
 * @stable
 * @record
 * ^/n
 * ^/n
 * ^/n
 * Record
 * representing the item change information.
 * ^/n
 * ^/n
 * ^/n
 * @stable
 * @record
 * ^/n
 * ^/n
 * ^/n
 * Provides a factory for
 * {@link KeyValueDiffer}.
 * ^/n
 * ^/n
 * ^/n
 * @stable
 * @record
 * ^/n
 * ^/n
 * ^/n
 * A repository of different Map diffing
 * strategies used by NgClass, NgStyle, and others.
 * ^/n
 * ^/n
 * ^/n
 * @stable
 * ^/n
 * nvar KeyValueDiffer = /** @class */ (function
 * () {
 * function KeyValueDiffer(factories) {
 * this.factories = factories;
 * }
 * /**
 * * @template S
 * * @param {?} factories
 * * @param {=} parent
 * * @return {?}
 * ^/n
 * KeyValueDiffer.create = /**
 * * @template S
 * * @param {?} factories
 * * @param {=} parent
 * * @return {?}
 * ^/n
 * function
 * (factories, parent) {
 * if (parent) {
 * var /** @type {?} */ copied = parent.factories.slice();
 * factories = factories.concat(copied);
 * }
 * return new KeyValueDiffer(factories);
 * };
 * /**
 * *
 * Takes an array of {@link KeyValueDifferFactory} and returns a provider used to extend the
 * inherited {@link
 * KeyValueDiffer} instance with the provided factories and return a new
 * {@link
 * KeyValueDiffer} instance.
 * ^/n
 * *
 * The following example shows how to extend an existing list of factories,
 * which will only be applied
 * to the injector for this component and its children.
 * * This step is all that's required to make a new {@link
 * KeyValueDiffer} available.
 * *### Example
 * *```
 * * @Component({
 * viewProviders:
 * [
 * KeyValueDiffer.extend([new ImmutableMapDiffer()])
 *]
 * })
 * *```
 * * ^/n
 * Takes an array of {@link KeyValueDifferFactory} and returns a provider used to extend the
 * inherited
 * {@link
 * KeyValueDiffer} instance with the provided factories and return a new
 * {@link
 * KeyValueDiffer} instance.
 * ^/n
 * *
 * The following example shows how to extend an existing list of factories,
 * which will
 * only be applied to the injector for this component and its children.
 * * This step is all that's required to make a
 * new {@link
 * KeyValueDiffer} available.
 * *### Example
 * *```
 * * @Component({
 * viewProviders:
 * [
 * KeyValueDiffer.extend([new ImmutableMapDiffer()])
 *]
 * })
 * *```
 * *

```

```

@template S\n * @param {?} factories\n * @return {?}\n *^\n function (factories) {\n return {\n
provide: KeyValueDifferers,\n useFactory: function (parent) {\n if (!parent) {\n //
Typically would occur when calling KeyValueDifferers.extend inside of dependencies passed\n // to
bootstrap(), which would override default pipes instead of extending them.\n throw new Error('Cannot
extend KeyValueDifferers without a parent injector');\n }\n return
KeyValueDifferers.create(factories, parent);\n },\n // Dependency technically isn't optional, but we can
provide a better error message this way.\n deps: [[KeyValueDifferers, new SkipSelf(), new Optional()]]\n
};\n };\n /**\n * @param {?} kv\n * @return {?}\n *^\n KeyValueDifferers.prototype.find = /**\n *
@param {?} kv\n * @return {?}\n *^\n function (kv) {\n var /** @type {?} */ factory =
this.factories.find(function (f) { return f.supports(kv); });\n if (factory) {\n return factory;\n }\n
throw new Error("Cannot find a differ supporting object '" + kv + "'");\n };\n return
KeyValueDifferers;\n });\n /**\n * @fileoverview added by tsickle\n * @suppress {checkTypes} checked by tsc\n
*/\n /**\n * @license\n * Copyright Google Inc. All Rights Reserved.\n *\n * Use of this source code is governed by
an MIT-style license that can be\n * found in the LICENSE file at https://angular.io/license\n */\n /**\n * Structural
diffing for `Object`s and `Map`s.\n */\n var keyValDiff = [new DefaultKeyValueDifferFactory()];\n /**\n * Structural
diffing for `Iterable` types such as `Array`s.\n */\n var iterableDiff = [new DefaultIterableDifferFactory()];\n var
defaultIterableDifferers = new IterableDifferers(iterableDiff);\n var defaultKeyValueDifferers = new
KeyValueDifferers(keyValDiff);\n /**\n * @fileoverview added by tsickle\n * @suppress {checkTypes} checked by
tsc\n */\n /**\n * @license\n * Copyright Google Inc. All Rights Reserved.\n *\n * Use of this source code is
governed by an MIT-style license that can be\n * found in the LICENSE file at https://angular.io/license\n
*/\n /**\n * @fileoverview added by tsickle\n * @suppress {checkTypes} checked by tsc\n */\n /**\n * @license\n
* Copyright Google Inc. All Rights Reserved.\n *\n * Use of this source code is governed by an MIT-style license
that can be\n * found in the LICENSE file at https://angular.io/license\n */\n var
_CORE_PLATFORM_PROVIDERS = [\n // Set a default platform name for platforms that don't set it
explicitly.\n { provide: PLATFORM_ID, useValue: 'unknown' },\n { provide: PlatformRef, deps: [Injector] },\n
{ provide: TestabilityRegistry, deps: [] },\n { provide: Console, deps: [] },\n];\n /**\n * This platform has to be
included in any other platform\n *\n * @@experimental\n */\n var platformCore = createPlatformFactory(null, 'core',
_CORE_PLATFORM_PROVIDERS);\n /**\n * @fileoverview added by tsickle\n * @suppress {checkTypes}
checked by tsc\n */\n /**\n * @license\n * Copyright Google Inc. All Rights Reserved.\n *\n * Use of this source
code is governed by an MIT-style license that can be\n * found in the LICENSE file at https://angular.io/license\n
*/\n /**\n * Provide this token to set the locale of your application.\n * It is used for i18n extraction, by i18n pipes
(DatePipe, I18nPluralPipe, CurrencyPipe,\n * DecimalPipe and PercentPipe) and by ICU expressions.\n *\n * See
the {@linkDocs guide/i18n#setting-up-locale i18n guide} for more information.\n *\n * ### Example\n *\n *
```typescript\n * import { LOCALE_ID } from '@angular/core';\n * import { platformBrowserDynamic } from
'@angular/platform-browser-dynamic';\n * import { AppModule } from './app/app.module';\n *\n *
platformBrowserDynamic().bootstrapModule(AppModule, {\n * providers: [{provide: LOCALE_ID, useValue:
'en-US' }]\n * });\n * ```\n *\n * @@experimental i18n support is experimental.\n *\n * var LOCALE_ID = new
InjectionToken('LocaleId');\n *\n * Use this token at bootstrap to provide the content of your translation file
(`xtb`,\n * `xlf` or `xlf2`) when you want to translate your application in another language.\n *\n * See the
{@linkDocs guide/i18n#merge i18n guide} for more information.\n *\n * ### Example\n *\n *
```typescript\n * import { TRANSLATIONS } from '@angular/core';\n * import { platformBrowserDynamic } from
'@angular/platform-browser-dynamic';\n * import { AppModule } from './app/app.module';\n *\n * // content of
your translation file\n * const translations = '...';\n *\n * platformBrowserDynamic().bootstrapModule(AppModule,
{\n * providers: [{provide: TRANSLATIONS, useValue: translations }]\n * });\n * ```\n *\n * @@experimental
i18n support is experimental.\n *\n * var TRANSLATIONS = new InjectionToken('Translations');\n *\n * Provide
this token at bootstrap to set the format of your {@link TRANSLATIONS}: `xtb`,\n * `xlf` or `xlf2`.\n *\n * See
the {@linkDocs guide/i18n#merge i18n guide} for more information.\n *\n * ### Example\n *\n *
```typescript\n * import { TRANSLATIONS_FORMAT } from '@angular/core';\n * import { platformBrowserDynamic } from

```

```

\\@angular/platform-browser-dynamic';\n * import { AppModule } from './app/app.module';\n *\n platformBrowserDynamic().bootstrapModule(AppModule, {\n * providers: [{provide:
 TRANSLATIONS_FORMAT, useValue: 'xlf' }]\n * });\n * ``\n *\n * \\@experimental i18n support is
 experimental.\n *\n * \nvar TRANSLATIONS_FORMAT = new InjectionToken('TranslationsFormat');\n ** @enum
 {number} *\n * \nvar MissingTranslationStrategy = {\n * Error: 0,\n * Warning: 1,\n * Ignore:
 2,\n *};\n * \nMissingTranslationStrategy[MissingTranslationStrategy.Error] =
 \"Error\";\n * \nMissingTranslationStrategy[MissingTranslationStrategy.Warning] =
 \"Warning\";\n * \nMissingTranslationStrategy[MissingTranslationStrategy.Ignore] = \"Ignore\";\n **\n *\n *
 @fileoverview added by tsickle\n * @suppress {checkTypes} checked by tsc\n *\n **\n *\n * @license\n * Copyright
 Google Inc. All Rights Reserved.\n *\n * Use of this source code is governed by an MIT-style license that can be\n *
 found in the LICENSE file at https://angular.io/license\n *\n **\n *\n * @return {?}\n *\n *\n function
 _iterableDiffersFactory() {\n * return defaultIterableDiffers;\n *}\n *\n **\n *\n * @return {?}\n *\n *\n function
 _keyValueDiffersFactory() {\n * return defaultKeyValueDiffers;\n *}\n *\n **\n *\n * @param {?=} locale\n * @return
 {?}\n *\n *\n function _localeFactory(locale) {\n * return locale || 'en-US';\n *}\n *\n **\n *\n * This module includes the
 providers of \\@angular/core that are needed\n * to bootstrap components via `ApplicationRef`.\n *\n *\n *
 \\@experimental\n * \nvar ApplicationModule = /** @class */ (function () {\n * // Inject ApplicationRef to make it
 eager...\n * function ApplicationModule(appRef) {\n * }\n * ApplicationModule.decorators = [\n * { type:
 NgModule, args: [{\n * providers: [\n * ApplicationRef,\n *
 ApplicationInitStatus,\n * Compiler,\n * APP_ID_RANDOM_PROVIDER,\n *
 { provide: IterableDiffers, useFactory: _iterableDiffersFactory },\n *
 { provide: KeyValueDiffers,
 useFactory: _keyValueDiffersFactory },\n *
 {\n * provide: LOCALE_ID,\n *
 useFactory: _localeFactory,\n *
 deps: [[new Inject(LOCALE_ID), new Optional(), new
 SkipSelf()]]\n * },\n * ],\n * },\n * ],\n * }];\n * /** @nocollapse *\n *
 ApplicationModule.ctorParameters = function () { return [\n * { type: ApplicationRef, },\n * ]; };
\n * return ApplicationModule;\n *})();\n *\n **\n *\n * @fileoverview added by tsickle\n * @suppress {checkTypes} checked by
 tsc\n *\n **\n *\n * @license\n * Copyright Google Inc. All Rights Reserved.\n *\n * Use of this source code is
 governed by an MIT-style license that can be\n * found in the LICENSE file at https://angular.io/license\n *\n **\n *
 @enum {number} *\n * \nvar SecurityContext = {\n * NONE: 0,\n * HTML: 1,\n * STYLE: 2,\n * SCRIPT: 3,\n *
 URL: 4,\n * RESOURCE_URL: 5,\n *};\n * \nSecurityContext[SecurityContext.NONE] =
 \"NONE\";\n * \nSecurityContext[SecurityContext.HTML] = \"HTML\";\n * \nSecurityContext[SecurityContext.STYLE] =
 \"STYLE\";\n * \nSecurityContext[SecurityContext.SCRIPT] = \"SCRIPT\";\n * \nSecurityContext[SecurityContext.URL] =
 \"URL\";\n * \nSecurityContext[SecurityContext.RESOURCE_URL] = \"RESOURCE_URL\";\n *\n **\n *\n * Sanitizer is
 used by the views to sanitize potentially dangerous values.\n *\n *\n * \\@stable\n * @abstract\n *\n * \nvar Sanitizer = /**
 @class */ (function () {\n * function Sanitizer() {\n * }\n * return Sanitizer;\n *})();\n *\n **\n *\n * @fileoverview added
 by tsickle\n * @suppress {checkTypes} checked by tsc\n *\n **\n *\n * @license\n * Copyright Google Inc. All Rights
 Reserved.\n *\n * Use of this source code is governed by an MIT-style license that can be\n * found in the
 LICENSE file at https://angular.io/license\n *\n **\n *\n * Factory for ViewDefinitions/NgModuleDefinitions.\n *\n * We
 use a function so we can reexecute it in case an error happens and use the given logger\n * function to log the error
 from the definition of the node, which is shown in all browser\n * logs.\n * @record\n *\n **\n *\n * Function to call
 console.error at the right source location. This is an indirection\n * via another function as browser will log the
 location that actually called\n * `console.error`.\n * @record\n *\n **\n *\n * @record\n *\n **\n *\n * @record\n
*\n **\n *\n * @record\n *\n **\n *\n * @record\n *\n **\n *\n * @record\n *\n **\n *\n * @record\n *\n **\n *
A node definition in the view.\n *\n *\n * Note: We use one type for all nodes so that loops that loop over all nodes\n *
of a ViewDefinition stay monomorphic!\n * @record\n *\n **\n *\n * @record\n *\n **\n *\n * @record\n *\n **\n *
@record\n *\n **\n *\n * @record\n *\n **\n *\n * @record\n *\n **\n *\n * @record\n *\n **\n *\n * @record\n
*\n **\n *\n * @record\n *\n **\n *\n * @record\n *\n **\n *\n * @record\n *\n **\n *\n * @record\n *\n **\n *
View instance data.\n *\n * Attention: Adding fields to this is performance sensitive!\n * @record\n *\n **\n *\n * @param {?} view\n *

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@param {?} priorInitState\n * @param {?} newInitState\n * @return {?} \n *\nfunction shiftInitState(view,
priorInitState, newInitState) {\n // Only update the InitState if we are currently in the prior state.\n // For
example, only move into CallingInit if we are in BeforeInit. Only\n // move into CallingContentInit if we are in
CallingInit. Normally this will\n // always be true because of how checkCycle is called in
checkAndUpdateView.\n // However, if checkAndUpdateView is called recursively or if an exception is\n //
thrown while checkAndUpdateView is running, checkAndUpdateView starts over\n // from the beginning. This
ensures the state is monotonically increasing,\n // terminating in the AfterInit state, which ensures the Init methods
are called\n // at least once and only once.\n var /** @type {?} */ state = view.state;\n var /** @type {?} */
initState = state & 1792;\n if (initState === priorInitState) {\n view.state = (state & ~1792 /* InitState_Mask
*/) | newInitState;\n view.initState = -1;\n return true;\n }\n return initState === newInitState;\n}\n/**\n * @param {?} view\n * @param {?} initState\n * @param {?} index\n * @return {?} \n *\nfunction
shouldCallLifecycleInitHook(view, initState, index) {\n if ((view.state & 1792 /* InitState_Mask */) === initState
&& view.initState <= index) {\n view.initState = index + 1;\n return true;\n }\n return false;\n}\n/**\n * @record\n *\n *\n * Data for an instantiated NodeType.Text.\n *\n * Attention: Adding fields to this is
performance sensitive!\n * @record\n *\n *\n * Accessor for view.nodes, enforcing that every usage site stays
monomorphic.\n * @param {?} view\n * @param {?} index\n * @return {?} \n *\nfunction asTextData(view,
index) {\n return /** @type {?} */ (view.nodes[index]);\n}\n/**\n * Data for an instantiated NodeType.Element.\n
*\n * Attention: Adding fields to this is performance sensitive!\n * @record\n *\n *\n * @record\n *\n *\n * Accessor for view.nodes, enforcing that every usage site stays monomorphic.\n * @param
{?} view\n * @param {?} index\n * @return {?} \n *\nfunction asElementData(view, index) {\n return /** @type
{?} */ (view.nodes[index]);\n}\n/**\n * Data for an instantiated NodeType.Provider.\n *\n * Attention: Adding
fields to this is performance sensitive!\n * @record\n *\n *\n * Accessor for view.nodes, enforcing that every
usage site stays monomorphic.\n * @param {?} view\n * @param {?} index\n * @return {?} \n *\nfunction
asProviderData(view, index) {\n return /** @type {?} */ (view.nodes[index]);\n}\n/**\n * Data for an instantiated
NodeType.PureExpression.\n *\n * Attention: Adding fields to this is performance sensitive!\n * @record\n
*\n *\n * Accessor for view.nodes, enforcing that every usage site stays monomorphic.\n * @param {?} view\n
*\n * @param {?} index\n * @return {?} \n *\nfunction asPureExpressionData(view, index) {\n return /** @type {?}
*/ (view.nodes[index]);\n}\n/**\n * Accessor for view.nodes, enforcing that every usage site stays monomorphic.\n
*\n * @param {?} view\n * @param {?} index\n * @return {?} \n *\nfunction asQueryList(view, index) {\n return
/** @type {?} */ (view.nodes[index]);\n}\n/**\n * @record\n *\n *\n * @abstract\n *\n *nvar DebugContext = /**
*/\n * @class */ (function () {\n function DebugContext() {\n }\n return DebugContext;\n})();\n/**\n * @record\n
*\n *\n * This object is used to prevent cycles in the source files and to have a place where\n * debug mode can
hook it. It is lazily filled when `isDevMode` is known.\n *\n *nvar Services = {\n setCurrentNode: /** @type {?} */
*((undefined)),\n createRootView: /** @type {?} */ ((undefined)),\n createEmbeddedView: /** @type {?} */
*((undefined)),\n createComponentView: /** @type {?} */ ((undefined)),\n createNgModuleRef: /** @type {?} */
*((undefined)),\n overrideProvider: /** @type {?} */ ((undefined)),\n overrideComponentView: /** @type {?} */
*((undefined)),\n clearOverrides: /** @type {?} */ ((undefined)),\n checkAndUpdateView: /** @type {?} */
*((undefined)),\n checkNoChangesView: /** @type {?} */ ((undefined)),\n destroyView: /** @type {?} */
*((undefined)),\n resolveDep: /** @type {?} */ ((undefined)),\n createDebugContext: /** @type {?} */
*((undefined)),\n handleEvent: /** @type {?} */ ((undefined)),\n updateDirectives: /** @type {?} */
*((undefined)),\n updateRenderer: /** @type {?} */ ((undefined)),\n dirtyParentQueries: /** @type {?} */
*((undefined)),\n};\n/**\n * @fileoverview added by tsickle\n * @suppress {checkTypes} checked by tsc\n
*\n *\n * @license\n * Copyright Google Inc. All Rights Reserved.\n *\n * Use of this source code is governed by
an MIT-style license that can be\n * found in the LICENSE file at https://angular.io/license\n *\n *\n * @param
{?} context\n * @param {?} oldValue\n * @param {?} currValue\n * @param {?} isFirstCheck\n * @return {?} \n
*\nfunction expressionChangedAfterItHasBeenCheckedError(context, oldValue, currValue, isFirstCheck) {\n var
/** @type {?} */ msg = `ExpressionChangedAfterItHasBeenCheckedError: Expression has changed after it was
checked. Previous value: ` + oldValue + ``. Current value: ` + currValue + ``.`; \n if (isFirstCheck) {\n

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msg +=\n      \ " It seems like the view has been created after its parent and its children have been dirty checked.\n
+\n      \ " Has it been created in a change detection hook ?";\n  }\n  return viewDebugError(msg,
context);\n}\n/**\n * @param {?} err\n * @param {?} context\n * @return {?}\n */\nfunction
viewWrappedDebugError(err, context) {\n  if (!(err instanceof Error)) {\n    // errors that are not Error instances
don't have a stack,\n    // so it is ok to wrap them into a new Error object...\n    err = new Error(err.toString());\n  }\n  _addDebugContext(err, context);\n  return err;\n}\n/**\n * @param {?} msg\n * @param {?} context\n *
@return {?}\n */\nfunction viewDebugError(msg, context) {\n  var /** @type {?} */ err = new Error(msg);\n  _addDebugContext(err, context);\n  return err;\n}\n/**\n * @param {?} err\n * @param {?} context\n * @return
{?}\n */\nfunction _addDebugContext(err, context) {\n  (/** @type {?} */ (err))[ERROR_DEBUG_CONTEXT] =
context;\n  (/** @type {?} */ (err))[ERROR_LOGGER] = context.logError.bind(context);\n}\n/**\n * @param
{?} err\n * @return {?}\n */\nfunction isViewDebugError(err) {\n  return !!getDebugContext(err);\n}\n/**\n *
@param {?} action\n * @return {?}\n */\nfunction viewDestroyedError(action) {\n  return new
Error(\ "ViewDestroyedError: Attempt to use a destroyed view: \ " + action);\n}\n\n/**\n * @fileoverview added by
tsickle\n * @suppress {checkTypes} checked by tsc\n */\n\n/**\n * @license\n * Copyright Google Inc. All Rights
Reserved.\n * Use of this source code is governed by an MIT-style license that can be\n * found in the
LICENSE file at https://angular.io/license\n */\n\nvar NOOP = function () {};\nvar _tokenKeyCache = new
Map();\n/**\n * @param {?} token\n * @return {?}\n */\nfunction tokenKey(token) {\n  var /** @type {?} */ key
= _tokenKeyCache.get(token);\n  if (!key) {\n    key = stringify(token) + '_' + _tokenKeyCache.size;\n    _tokenKeyCache.set(token, key);\n  }\n  return key;\n}\n/**\n * @param {?} view\n * @param {?} nodeId\n *
@param {?} bindingIdx\n * @param {?} value\n * @return {?}\n */\nfunction unwrapValue(view, nodeId,
bindingIdx, value) {\n  if (WrappedValue.isWrapped(value)) {\n    value = WrappedValue.unwrap(value);\n  }\n  var /** @type {?} */ globalBindingIdx = view.def.nodes[nodeId].bindingIndex + bindingIdx;\n  var /** @type
{?} */ oldValue = WrappedValue.unwrap(view.oldValues[globalBindingIdx]);\n  view.oldValues[globalBindingIdx] = new WrappedValue(oldValue);\n  }\n  return value;\n}\n\nvar
UNDEFINED_RENDERER_TYPE_ID = '$$undefined';\nvar EMPTY_RENDERER_TYPE_ID =
'$empty';\n/**\n * @param {?} values\n * @return {?}\n */\nfunction createRendererType2(values) {\n  return
{\n    id: UNDEFINED_RENDERER_TYPE_ID,\n    styles: values.styles,\n    encapsulation:
values.encapsulation,\n    data: values.data\n  };\n}\n\nvar _renderCompCount = 0;\n/**\n * @param {=} type\n *
@return {?}\n */\nfunction resolveRendererType2(type) {\n  if (type && type.id ===
UNDEFINED_RENDERER_TYPE_ID) {\n    // first time we see this RendererType2. Initialize it...\n    var /**
@type {?} */ isFilled = ((type.encapsulation != null && type.encapsulation !== ViewEncapsulation.None) ||\n
type.styles.length || Object.keys(type.data).length);\n    if (isFilled) {\n      type.id = \"c\" +
_renderCompCount++;\n    } else {\n      type.id = EMPTY_RENDERER_TYPE_ID;\n    }\n  }\n  if (type && type.id === EMPTY_RENDERER_TYPE_ID) {\n    type = null;\n  }\n  return type ||
null;\n}\n\n/**\n * @param {?} view\n * @param {?} def\n * @param {?} bindingIdx\n * @param {?} value\n *
@return {?}\n */\nfunction checkBinding(view, def, bindingIdx, value) {\n  var /** @type {?} */ oldValues =
view.oldValues;\n  if ((view.state & 2 /* FirstCheck */) ||\n    !looseIdentical(oldValues[def.bindingIndex +
bindingIdx], value)) {\n    return true;\n  }\n  return false;\n}\n\n/**\n * @param {?} view\n * @param {?} def\n *
@param {?} bindingIdx\n * @param {?} value\n * @return {?}\n */\nfunction checkAndUpdateBinding(view,
def, bindingIdx, value) {\n  if (checkBinding(view, def, bindingIdx, value)) {\n    view.oldValues[def.bindingIndex + bindingIdx] = value;\n    return true;\n  }\n  return false;\n}\n\n/**\n *
@param {?} view\n * @param {?} def\n * @param {?} bindingIdx\n * @param {?} value\n * @return {?}\n */\nfunction checkBindingNoChanges(view, def, bindingIdx, value) {\n  var /** @type {?} */ oldValue =
view.oldValues[def.bindingIndex + bindingIdx];\n  if ((view.state & 1 /* BeforeFirstCheck */) ||\n    !devModeEqual(oldValue, value)) {\n    var /** @type {?} */ bindingName =
def.bindings[def.bindingIndex].name;\n    throw
expressionChangedAfterItHasBeenCheckedError(Services.createDebugContext(view, def.nodeIndex), bindingName
+ \": \" + oldValue, bindingName + \": \" + value, (view.state & 1 /* BeforeFirstCheck */) !== 0);\n  }\n}\n\n/**\n *

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@param {?} view\n * @return {?} \n *\nfunction markParentViewsForCheck(view) {\n  var /** @type {?} */\n  currView = view;\n  while (currView) {\n    if (currView.def.flags & 2 /* OnPush */) {\n      currView.state\n      |= 8 /* ChecksEnabled */;\n    }\n    currView = currView.viewContainerParent || currView.parent;\n  }\n}\n\n/**\n * @param {?} view\n * @param {?} endView\n * @return {?} \n *\nfunction\nmarkParentViewsForCheckProjectedViews(view, endView) {\n  var /** @type {?} */ currView = view;\n  while\n  (currView && currView !== endView) {\n    currView.state |= 64 /* CheckProjectedViews */;\n    currView =\n    currView.viewContainerParent || currView.parent;\n  }\n}\n\n/**\n * @param {?} view\n * @param {?} nodeIndex\n * @param {?} eventName\n * @param {?} event\n * @return {?} \n *\nfunction dispatchEvent(view,\nnodeIndex, eventName, event) {\n  try {\n    var /** @type {?} */ nodeDef = view.def.nodes[nodeIndex];\n    var /** @type {?} */ startView = nodeDef.flags & 33554432 /* ComponentView */ ?\n    asElementData(view,\nnodeIndex).componentView :\n    view;\n    markParentViewsForCheck(startView);\n    return\n    Services.handleEvent(view, nodeIndex, eventName, event);\n  }\n  catch (** @type {?} */ e) {\n    //\n    Attention: Don't rethrow, as it would cancel Observable subscriptions!\n    view.root.errorHandler.handleError(e);\n  }\n}\n\n/**\n * @param {?} view\n * @return {?} \n *\nfunction\ndeclaredViewContainer(view) {\n  if (view.parent) {\n    var /** @type {?} */ parentView = view.parent;\n    return asElementData(parentView, /** @type {?} */ ((view.parentNodeDef)).nodeIndex);\n  }\n  return\n  null;\n}\n\n/**\n * for component views, this is the host element.\n * for embedded views, this is the index of the\nparent node\n * that contains the view container.\n * @param {?} view\n * @return {?} \n *\nfunction\nviewParentEl(view) {\n  var /** @type {?} */ parentView = view.parent;\n  if (parentView) {\n    return /**\n    @type {?} */ ((view.parentNodeDef)).parent;\n  }\n  else {\n    return null;\n  }\n}\n\n/**\n * @param {?} view\n * @param {?} def\n * @return {?} \n *\nfunction renderNode(view, def) {\n  switch (def.flags &\n201347067 /* Types */) {\n    case 1 /* TypeElement */:\n      return asElementData(view,\n      def.nodeIndex).renderElement;\n    case 2 /* TypeText */:\n      return asTextData(view,\n      def.nodeIndex).renderText;\n  }\n}\n\n/**\n * @param {?} target\n * @param {?} name\n * @return {?} \n *\nfunction\nelementEventFullName(target, name) {\n  return target ? target + ':' + name : name;\n}\n\n/**\n * @param {?} view\n * @return {?} \n *\nfunction\nisComponentView(view) {\n  return !!view.parent && !(/**\n  @type {?} */ ((view.parentNodeDef)).flags & 32768 /* Component */);\n}\n\n/**\n * @param {?} view\n * @return\n  {?} \n *\nfunction\nisEmbeddedView(view) {\n  return !!view.parent && !(/** @type {?} */\n  ((view.parentNodeDef)).flags & 32768 /* Component */);\n}\n\n/**\n * @param {?} queryId\n * @return {?} \n *\nfunction\nfilterQueryId(queryId) {\n  return 1 << (queryId % 32);\n}\n\n/**\n * @param {?} matchedQueriesDsl\n * @return {?} \n *\nfunction\nsplitMatchedQueriesDsl(matchedQueriesDsl) {\n  var /**\n  @type {?} */ matchedQueries = {};\n  var /** @type {?} */ matchedQueryIds = 0;\n  var /** @type {?} */\n  references = {};\n  if (matchedQueriesDsl) {\n    matchedQueriesDsl.forEach(function (_a) {\n      var\n      queryId = _a[0], valueType = _a[1];\n      if (typeof queryId === 'number') {\n        matchedQueries[queryId] = valueType;\n        matchedQueryIds |= filterQueryId(queryId);\n      }\n      else {\n        references[queryId] = valueType;\n      }\n    });\n  }\n  return { matchedQueries:\n  matchedQueries, references: references, matchedQueryIds: matchedQueryIds };\n}\n\n/**\n * @param {?} deps\n * @param {?=} sourceName\n * @return {?} \n *\nfunction\nsplitDepsDsl(deps, sourceName) {\n  return\n  deps.map(function (value) {\n    var /** @type {?} */ token;\n    var /** @type {?} */ flags;\n    if\n    (Array.isArray(value)) {\n      flags = value[0], token = value[1];\n    }\n    else {\n      flags = 0 /* None\n    */;\n      token = value;\n    }\n    if (token && (typeof token === 'function' || typeof token === 'object') &&\n    sourceName) {\n      Object.defineProperty(token, SOURCE, { value: sourceName, configurable: true });\n    }\n    return { flags: flags, token: token, tokenKey: tokenKey(token) };\n  });\n}\n\n/**\n * @param {?} view\n * @param {?} renderHost\n * @param {?} def\n * @return {?} \n *\nfunction\ngetParentRenderElement(view,\nrenderHost, def) {\n  var /** @type {?} */ renderParent = def.renderParent;\n  if (renderParent) {\n    if\n    ((renderParent.flags & 1 /* TypeElement */) === 0 ||\n    (renderParent.flags & 33554432 /* ComponentView\n    */) === 0 ||\n    (** @type {?} */ ((renderParent.element)).componentRendererType && /** @type {?} */\n    (** @type {?} */ ((renderParent.element)).componentRendererType)).encapsulation ===

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ViewEncapsulation.Native)) {\n      // only children of non components, or children of components with native
encapsulation should\n      // be attached.\n      return asElementData(view, /** @type {?} */
((def.renderParent)).nodeIndex).renderElement;\n    }\n  }\n  else {\n    return renderHost;\n  }\n}\n\nvar
DEFINITION_CACHE = new WeakMap();\n/**\n * @template D\n * @param {?} factory\n * @return {?} */\n
*\nfunction resolveDefinition(factory) {\n  var /** @type {?} */ value = /** @type {?} */
(((DEFINITION_CACHE.get(factory))));\n  if (!value) {\n    value = factory(function () { return NOOP; });\n
  value.factory = factory;\n  DEFINITION_CACHE.set(factory, value);\n  }\n  return value;\n}\n\n/**\n *
@param {?} view\n * @return {?} */\nfunction rootRenderNodes(view) {\n  var /** @type {?} */ renderNodes
= [];\n  visitRootRenderNodes(view, 0 /* Collect */, undefined, undefined, renderNodes);\n  return
renderNodes;\n}\n\n/**\n * @param {?} view\n * @param {?} action\n * @param {?} parentNode\n * @param {?}
nextSibling\n * @param {?=} target\n * @return {?} */\nfunction visitRootRenderNodes(view, action,
parentNode, nextSibling, target) {\n  // We need to re-compute the parent node in case the nodes have been moved
around manually\n  if (action === 3 /* RemoveChild */) {\n    parentNode =
view.renderer.parentNode(renderNode(view, /** @type {?} */ ((view.def.lastRenderRootNode)));\n  }\n
  visitSiblingRenderNodes(view, action, 0, view.def.nodes.length - 1, parentNode, nextSibling, target);\n}\n\n/**\n *
@param {?} view\n * @param {?} action\n * @param {?} startIndex\n * @param {?} endIndex\n * @param {?}
parentNode\n * @param {?} nextSibling\n * @param {?=} target\n * @return {?} */\nfunction
visitSiblingRenderNodes(view, action, startIndex, endIndex, parentNode, nextSibling, target) {\n  for (var /**
@type {?} */ i = startIndex; i <= endIndex; i++) {\n    var /** @type {?} */ nodeDef = view.def.nodes[i];\n    if
(nodeDef.flags & (1 /* TypeElement */ | 2 /* TypeText */ | 8 /* TypeNgContent */)) {\n
      visitRenderNode(view, nodeDef, action, parentNode, nextSibling, target);\n    }\n    // jump to next sibling\n
i += nodeDef.childCount;\n  }\n}\n\n/**\n * @param {?} view\n * @param {?} ngContentIndex\n * @param {?}
action\n * @param {?} parentNode\n * @param {?} nextSibling\n * @param {?=} target\n * @return {?} */\n
function visitProjectedRenderNodes(view, ngContentIndex, action, parentNode, nextSibling, target) {\n  var
/** @type {?} */ compView = view;\n  while (compView && !isComponentView(compView)) {\n
    compView = compView.parent;\n  }\n  var /** @type {?} */ hostView = /** @type {?} */
((compView)).parent;\n  var /** @type {?} */ hostElDef = viewParentEl(/** @type {?} */ ((compView)));\n  var
/** @type {?} */ startIndex = /** @type {?} */ ((hostElDef)).nodeIndex + 1;\n  var /** @type {?} */ endIndex =
/** @type {?} */ ((hostElDef)).nodeIndex + /** @type {?} */ ((hostElDef)).childCount;\n  for (var /** @type {?} */
i = startIndex; i <= endIndex; i++) {\n    var /** @type {?} */ nodeDef = /** @type {?} */
((hostView)).def.nodes[i];\n    if (nodeDef.ngContentIndex === ngContentIndex) {\n      visitRenderNode(/**
@type {?} */ ((hostView)), nodeDef, action, parentNode, nextSibling, target);\n    }\n    // jump to next
sibling\n    i += nodeDef.childCount;\n  }\n  if (!/** @type {?} */ ((hostView)).parent) {\n    // a root view\n
var /** @type {?} */ projectedNodes = view.root.projectableNodes[ngContentIndex];\n    if (projectedNodes)
{\n      for (var /** @type {?} */ i = 0; i < projectedNodes.length; i++) {\n
        execRenderNodeAction(view, projectedNodes[i], action, parentNode, nextSibling, target);\n      }\n    }\n
  }\n}\n\n/**\n * @param {?} view\n * @param {?} nodeDef\n * @param {?} action\n * @param {?} parentNode\n *
@param {?} nextSibling\n * @param {?=} target\n * @return {?} */\nfunction visitRenderNode(view, nodeDef,
action, parentNode, nextSibling, target) {\n  if (nodeDef.flags & 8 /* TypeNgContent */) {\n
    visitProjectedRenderNodes(view, /** @type {?} */ ((nodeDef.ngContent)).index, action, parentNode, nextSibling,
target);\n  }\n  else {\n    var /** @type {?} */ rn = renderNode(view, nodeDef);\n    if (action === 3 /*
RemoveChild */ && (nodeDef.flags & 33554432 /* ComponentView */) && (nodeDef.bindingFlags & 48
/* CatSyntheticProperty */) {\n      // Note: we might need to do both actions.\n      if (nodeDef.bindingFlags
& (16 /* SyntheticProperty */) {\n        execRenderNodeAction(view, rn, action, parentNode, nextSibling,
target);\n      }\n      if (nodeDef.bindingFlags & (32 /* SyntheticHostProperty */) {\n        var /**
@type {?} */ compView = asElementData(view, nodeDef.nodeIndex).componentView;\n        execRenderNodeAction(compView, rn, action, parentNode, nextSibling, target);\n      }\n    }\n  }\n  else {\n
    execRenderNodeAction(view, rn, action, parentNode, nextSibling, target);\n  }\n  if (nodeDef.flags &

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flags\n * @param {?} matchedQueriesDsl\n * @param {?} ngContentIndex\n * @param {?} childCount\n *
@param {?=} handleEvent\n * @param {?=} templateFactory\n * @return {?} }\n *\/\nfunction anchorDef(flags,
matchedQueriesDsl, ngContentIndex, childCount, handleEvent, templateFactory) {\n  flags |= 1 /* TypeElement
*/;\n  var _a = splitMatchedQueriesDsl(matchedQueriesDsl), matchedQueries = _a.matchedQueries, references =
_a.references, matchedQueryIds = _a.matchedQueryIds;\n  var /** @type {?} */ template = templateFactory ?
resolveDefinition(templateFactory) : null;\n  return {\n    // will bet set by the view definition\n    nodeIndex: -
1,\n    parent: null,\n    renderParent: null,\n    bindingIndex: -1,\n    outputIndex: -1,\n    // regular
values\n    flags: flags,\n    checkIndex: -1,\n    childFlags: 0,\n    directChildFlags: 0,\n    childMatchedQueries: 0, matchedQueries: matchedQueries, matchedQueryIds: matchedQueryIds, references:
references, ngContentIndex: ngContentIndex, childCount: childCount,\n    bindings: [],\n    bindingFlags: 0,\n    outputs: [],\n    element: {\n      ns: null,\n      name: null,\n      attrs: null, template: template,\n    componentProvider: null,\n      componentView: null,\n      componentRendererType: null,\n    publicProviders: null,\n      allProviders: null,\n      handleEvent: handleEvent || NOOP\n    },\n    provider: null,\n    text: null,\n    query: null,\n    ngContent: null\n  };}\n}\n *\/\n * @param {?}
checkIndex\n * @param {?} flags\n * @param {?} matchedQueriesDsl\n * @param {?} ngContentIndex\n *
@param {?} childCount\n * @param {?} namespaceAndName\n * @param {?=} fixedAttrs\n * @param {?=}
bindings\n * @param {?=} outputs\n * @param {?=} handleEvent\n * @param {?=} componentView\n * @param
{?=} componentRendererType\n * @return {?} }\n *\/\nfunction elementDef(checkIndex, flags, matchedQueriesDsl,
ngContentIndex, childCount, namespaceAndName, fixedAttrs, bindings, outputs, handleEvent, componentView,
componentRendererType) {\n  if (fixedAttrs === void 0) { fixedAttrs = []; }\n  if (!handleEvent) {\n
handleEvent = NOOP;\n  }\n  var _a = splitMatchedQueriesDsl(matchedQueriesDsl), matchedQueries =
_a.matchedQueries, references = _a.references, matchedQueryIds = _a.matchedQueryIds;\n  var /** @type {?} */
ns = /** @type {?} */ ((null));\n  var /** @type {?} */ name = /** @type {?} */ ((null));\n  if
(namespaceAndName) {\n    _b = splitNamespace(namespaceAndName), ns = _b[0], name = _b[1];\n  }\n  bindings = bindings || [];\n  var /** @type {?} */ bindingDefs = new Array(bindings.length);\n  for (var /**
@type {?} */ i = 0; i < bindings.length; i++) {\n    var _c = bindings[i], bindingFlags = _c[0],
namespaceAndName_1 = _c[1], suffixOrSecurityContext = _c[2];\n    var _d =
splitNamespace(namespaceAndName_1), ns_1 = _d[0], name_1 = _d[1];\n    var /** @type {?} */
securityContext = /** @type {?} */ ((undefined));\n    var /** @type {?} */ suffix = /** @type {?} */
((undefined));\n    switch (bindingFlags & 15 /* Types */) {\n      case 4 /* TypeElementStyle */:\n
suffix = /** @type {?} */ (suffixOrSecurityContext);\n      break;\n      case 1 /* TypeElementAttribute
*/:\n      case 8 /* TypeProperty */:\n        securityContext = /** @type {?} */ (suffixOrSecurityContext);\n
      break;\n    }\n    bindingDefs[i] =\n      { flags: bindingFlags, ns: ns_1, name: name_1,
nonMinifiedName: name_1, securityContext: securityContext, suffix: suffix };\n  }\n  outputs = outputs || [];\n
var /** @type {?} */ outputDefs = new Array(outputs.length);\n  for (var /** @type {?} */ i = 0; i <
outputs.length; i++) {\n    var _e = outputs[i], target = _e[0], eventName = _e[1];\n    outputDefs[i] = {\n
type: 0 /* ElementOutput */,\n    target: /** @type {?} */ (target), eventName: eventName,\n    propName:
null\n  };\n  }\n  fixedAttrs = fixedAttrs || [];\n  var /** @type {?} */ attrs = /** @type {?} */
(fixedAttrs.map(function (_a) {\n    var namespaceAndName = _a[0], value = _a[1];\n    var _b =
splitNamespace(namespaceAndName), ns = _b[0], name = _b[1];\n    return [ns, name, value];\n  }));\n  componentRendererType = resolveRendererType2(componentRendererType);\n  if (componentView) {\n
flags |= 33554432 /* ComponentView */;\n  }\n  flags |= 1 /* TypeElement */;\n  return {\n    // will bet set by
the view definition\n    nodeIndex: -1,\n    parent: null,\n    renderParent: null,\n    bindingIndex: -1,\n
outputIndex: -1,\n    // regular values\n    checkIndex: checkIndex,\n    flags: flags,\n    childFlags: 0,\n
directChildFlags: 0,\n    childMatchedQueries: 0, matchedQueries: matchedQueries, matchedQueryIds:
matchedQueryIds, references: references, ngContentIndex: ngContentIndex, childCount: childCount,\n
bindings: bindingDefs,\n    bindingFlags: calcBindingFlags(bindingDefs),\n    outputs: outputDefs,\n
element: {\n      ns: ns,\n      name: name,\n      attrs: attrs,\n      template: null,\n      // will bet set

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by the view definition\n      componentProvider: null,\n      componentView: componentView || null,\n      componentRendererType: componentRendererType,\n      publicProviders: null,\n      allProviders: null,\n      handleEvent: handleEvent || NOOP,\n      },\n      provider: null,\n      text: null,\n      query: null,\n      ngContent: null\n    });\n    var _b;\n  }\n  /**\n   * @param {?} view\n   * @param {?} renderHost\n   * @param {?} def\n   * @return {?}\n   */\n  function createElement(view, renderHost, def) {\n    var /** @type {?} */ elDef = /** @type\n    {?} */ ((def.element));\n    var /** @type {?} */ rootSelectorOrNode = view.root.selectorOrNode;\n    var /** @type\n    {?} */ renderer = view.renderer;\n    var /** @type {?} */ el;\n    if (view.parent || !rootSelectorOrNode) {\n      if\n      (elDef.name) {\n        el = renderer.createElement(elDef.name, elDef.ns);\n      }\n      else {\n        el =\n        renderer.createComment("");\n      }\n      var /** @type {?} */ parentEl = getParentRenderElement(view,\n      renderHost, def);\n      if (parentEl) {\n        renderer.appendChild(parentEl, el);\n      }\n      else {\n        el =\n        renderer.selectRootElement(rootSelectorOrNode);\n      }\n      if (elDef.attrs) {\n        for (var /** @type {?} */ i = 0;\n        i < elDef.attrs.length; i++) {\n          var _a = elDef.attrs[i], ns = _a[0], name_2 = _a[1], value = _a[2];\n          renderer.setAttribute(el, name_2, value, ns);\n        }\n      }\n      return el;\n    }\n    /**\n     * @param {?} view\n     * @param\n     {?} compView\n     * @param {?} def\n     * @param {?} el\n     * @return {?}\n     */\n    function\n    listenToElementOutputs(view, compView, def, el) {\n      for (var /** @type {?} */ i = 0; i < def.outputs.length; i++)\n      {\n        var /** @type {?} */ output = def.outputs[i];\n        var /** @type {?} */ handleEventClosure =\n        renderEventHandlerClosure(view, def.nodeIndex, elementEventFullName(output.target, output.eventName));\n        var /** @type {?} */ listenTarget = output.target;\n        var /** @type {?} */ listenerView = view;\n        if\n        (output.target === 'component') {\n          listenTarget = null;\n          listenerView = compView;\n        }\n        var /** @type {?} */ disposable = /** @type {?} */ (listenerView.renderer.listen(listenTarget || el,\n        output.eventName, handleEventClosure));\n        /** @type {?} */\n        ((view.disposables))[def.outputIndex + i] =\n        disposable;\n      }\n    }\n    /**\n     * @param {?} view\n     * @param {?} index\n     * @param {?} eventName\n     * @return\n     {?}\n     */\n    function\n    renderEventHandlerClosure(view, index, eventName) {\n      return function (event) {\n        return\n        dispatchEvent(view, index, eventName, event);\n      };\n    }\n    /**\n     * @param {?} view\n     * @param {?} def\n     * @param\n     {?} v0\n     * @param {?} v1\n     * @param {?} v2\n     * @param {?} v3\n     * @param {?} v4\n     * @param {?} v5\n     * @param\n     {?} v6\n     * @param {?} v7\n     * @param {?} v8\n     * @param {?} v9\n     * @return {?}\n     */\n    function\n    checkAndUpdateElementInline(view, def, v0, v1, v2, v3, v4, v5, v6, v7, v8, v9) {\n      var /** @type {?} */ bindLen\n      = def.bindings.length;\n      var /** @type {?} */ changed = false;\n      if (bindLen > 0 &&\n      checkAndUpdateElementValue(view, def, 0, v0))\n        changed = true;\n      if (bindLen > 1 &&\n      checkAndUpdateElementValue(view, def, 1, v1))\n        changed = true;\n      if (bindLen > 2 &&\n      checkAndUpdateElementValue(view, def, 2, v2))\n        changed = true;\n      if (bindLen > 3 &&\n      checkAndUpdateElementValue(view, def, 3, v3))\n        changed = true;\n      if (bindLen > 4 &&\n      checkAndUpdateElementValue(view, def, 4, v4))\n        changed = true;\n      if (bindLen > 5 &&\n      checkAndUpdateElementValue(view, def, 5, v5))\n        changed = true;\n      if (bindLen > 6 &&\n      checkAndUpdateElementValue(view, def, 6, v6))\n        changed = true;\n      if (bindLen > 7 &&\n      checkAndUpdateElementValue(view, def, 7, v7))\n        changed = true;\n      if (bindLen > 8 &&\n      checkAndUpdateElementValue(view, def, 8, v8))\n        changed = true;\n      if (bindLen > 9 &&\n      checkAndUpdateElementValue(view, def, 9, v9))\n        changed = true;\n      return changed;\n    }\n    /**\n     * @param\n     {?} view\n     * @param\n     {?} def\n     * @param\n     {?} values\n     * @return\n     {?}\n     */\n    function\n    checkAndUpdateElementDynamic(view, def, values) {\n      var /** @type {?} */ changed = false;\n      for (var /**\n      @type\n      {?} */ i = 0; i < values.length; i++) {\n        if\n        (checkAndUpdateElementValue(view, def, i, values[i]))\n          changed = true;\n      }\n      return\n      changed;\n    }\n    /**\n     * @param\n     {?} view\n     * @param\n     {?} def\n     * @param\n     {?} bindingIdx\n     * @param\n     {?} value\n     * @return\n     {?}\n     */\n    function\n    checkAndUpdateElementValue(view, def,\n    bindingIdx, value) {\n      if\n      (!checkAndUpdateBinding(view, def, bindingIdx, value))\n        return\n        false;\n    }\n    var /** @type\n    {?} */ binding = def.bindings[bindingIdx];\n    var /** @type\n    {?} */ elData = asElementData(view,\n    def.nodeIndex);\n    var /** @type\n    {?} */ renderNode$$1 = elData.renderElement;\n    var /** @type\n    {?} */ name =\n    /** @type\n    {?} */ ((binding.name));\n    switch (binding.flags & 15 /* Types */) {\n      case 1 /*\n      TypeElementAttribute */:\n        setElementAttribute(view, binding, renderNode$$1, binding.ns, name, value);\n    }

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break;\n      case 2 /* TypeElementClass */:\n          setElementClass(view, renderNode$$1, name, value);\nbreak;\n      case 4 /* TypeElementStyle */:\n          setElementStyle(view, binding, renderNode$$1, name,\nvalue);\n      break;\n      case 8 /* TypeProperty */:\n          var /** @type {?} */ bindView = (def.flags &\n33554432 /* ComponentView */ &&\n          binding.flags & 32 /* SyntheticHostProperty */) ?\n          elData.componentView : view;\n          setElementProperty(bindView, binding, renderNode$$1, name,\nvalue);\n      break;\n    }\n    return true;\n  }\n  /**\n   * @param {?} view\n   * @param {?} binding\n   * @param {?} renderNode\n   * @param {?} ns\n   * @param {?} name\n   * @param {?} value\n   * @return {?}\n   */\n  function\n  setElementAttribute(view, binding, renderNode$$1, ns, name, value) {\n    var /** @type {?} */ securityContext =\nbinding.securityContext;\n    var /** @type {?} */ renderValue = securityContext ?\nview.root.sanitizer.sanitize(securityContext, value) : value;\n    renderValue = renderValue != null ?\nrenderValue.toString() : null;\n    var /** @type {?} */ renderer = view.renderer;\n    if (value != null) {\n      renderer.setAttribute(renderNode$$1, name, renderValue, ns);\n    }\n    else {\n      renderer.removeAttribute(renderNode$$1, name, ns);\n    }\n  }\n  /**\n   * @param {?} view\n   * @param {?} binding\n   * @param {?} renderNode\n   * @param {?} name\n   * @param {?} value\n   * @return {?}\n   */\n  function setElementClass(view,\nrenderNode$$1, name, value) {\n    var /** @type {?} */ renderer = view.renderer;\n    if (value) {\n      renderer.addClass(renderNode$$1, name);\n    }\n    else {\n      renderer.removeClass(renderNode$$1, name);\n    }\n  }\n  /**\n   * @param {?} view\n   * @param {?} binding\n   * @param {?} renderNode\n   * @param {?} name\n   * @param {?} value\n   * @return {?}\n   */\n  function setElementStyle(view, binding, renderNode$$1, name, value) {\n    var /** @type {?} */ renderValue = view.root.sanitizer.sanitize(SecurityContext.STYLE, /** @type {?} */\n(value));\n    if (renderValue != null) {\n      renderValue = renderValue.toString();\n      var /** @type {?} */ unit\n= binding.suffix;\n      if (unit != null) {\n        renderValue = renderValue + unit;\n      }\n    }\n    else {\n      renderValue = null;\n    }\n    var /** @type {?} */ renderer = view.renderer;\n    if (renderValue != null) {\n      renderer.setStyle(renderNode$$1, name, renderValue);\n    }\n    else {\n      renderer.removeStyle(renderNode$$1,\nname);\n    }\n  }\n  /**\n   * @param {?} view\n   * @param {?} binding\n   * @param {?} renderNode\n   * @param {?} name\n   * @param {?} value\n   * @return {?}\n   */\n  function setElementProperty(view, binding, renderNode$$1,\nname, value) {\n    var /** @type {?} */ securityContext = binding.securityContext;\n    var /** @type {?} */\nrenderValue = securityContext ? view.root.sanitizer.sanitize(securityContext, value) : value;\n    view.renderer.setProperty(renderNode$$1, name, renderValue);\n  }\n}\n\n/**\n * @fileoverview added by tsickle\n * @suppress {checkTypes} checked by tsc\n */\n\n * @license\n * Copyright Google Inc. All Rights Reserved.\n * Use of this source code is governed by an MIT-style license that can be\n * found in the LICENSE file at\n * https://angular.io/license\n */\nvar UNDEFINED_VALUE = new Object();\nvar InjectorRefTokenKey$1 =\ntokenKey(Injector);\nvar NgModuleRefTokenKey = tokenKey(NgModuleRef);\n/**\n * @param {?} flags\n * @param {?} token\n * @param {?} value\n * @param {?} deps\n * @return {?}\n */\nfunction\nmoduleProvideDef(flags, token, value, deps) {\n  // Need to resolve forwardRefs as e.g. for `useValue` we\n  // lowered the expression and then stopped evaluating it,\n  // i.e. also didn't unwrap it.\n  value =\nresolveForwardRef(value);\n  var /** @type {?} */ depDefs = splitDepsDsl(deps, stringify(token));\n  return {\n    // will be set by the module definition\n    index: -1,\n    deps: depDefs, flags: flags, token: token, value:\nvalue\n  };\n}\n/**\n * @param {?} providers\n * @return {?}\n */\nfunction moduleDef(providers) {\n  var /**\n   * @type {?} */ providersByKey = {};\n  for (var /** @type {?} */ i = 0; i < providers.length; i++) {\n    var /**\n     * @type {?} */ provider = providers[i];\n    provider.index = i;\n    providersByKey[tokenKey(provider.token)] =\nprovider;\n  }\n  return {\n    // Will be filled later...\n    factory: null,\n    providersByKey:\nprovidersByKey,\n    providers: providers\n  };\n}\n/**\n * @param {?} data\n * @return {?}\n */\nfunction\ninitNgModule(data) {\n  var /** @type {?} */ def = data._def;\n  var /** @type {?} */ providers =\ndata._providers = new Array(def.providers.length);\n  for (var /** @type {?} */ i = 0; i < def.providers.length; i++)\n  {\n    var /** @type {?} */ provDef = def.providers[i];\n    if (!(provDef.flags & 4096 /* LazyProvider */) {\n      providers[i] = _createProviderInstance$1(data, provDef);\n    }\n  }\n}\n/**\n * @param {?} data\n * @param {?} depDef\n * @param {?} notFoundValue\n * @return {?}\n */\nfunction resolveNgModuleDep(data,\ndepDef, notFoundValue) {\n  if (notFoundValue === void 0) {\n    notFoundValue =

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Injector.THROW_IF_NOT_FOUND; } \n  if (depDef.flags & 8 /* Value */) { \n    return depDef.token; \n  } \n
if (depDef.flags & 2 /* Optional */) { \n    notFoundValue = null; \n  } \n  if (depDef.flags & 1 /* SkipSelf */) { \n
  return data._parent.get(depDef.token, notFoundValue); \n  } \n  var /** @type {?} */ tokenKey$$1 =
depDef.tokenKey; \n  switch (tokenKey$$1) { \n    case InjectorRefTokenKey$1: \n      case
NgModuleRefTokenKey: \n        return data; \n      } \n    var /** @type {?} */ providerDef =
data._def.providersByKey[tokenKey$$1]; \n    if (providerDef) { \n      var /** @type {?} */ providerInstance =
data._providers[providerDef.index]; \n      if (providerInstance === undefined) { \n        providerInstance =
data._providers[providerDef.index] = \n          _createProviderInstance$1(data, providerDef); \n      } \n
return providerInstance === UNDEFINED_VALUE ? undefined : providerInstance; \n    } \n    return
data._parent.get(depDef.token, notFoundValue); \n  } \n } \n /** \n * @param {?} ngModule \n * @param {?} providerDef \n
* @return {?} \n */ \n function _createProviderInstance$1(ngModule, providerDef) { \n  var /** @type {?} */
injectable; \n  switch (providerDef.flags & 201347067 /* Types */) { \n    case 512 /* TypeClassProvider */: \n
injectable = _createClass(ngModule, providerDef.value, providerDef.deps); \n    break; \n    case 1024 /*
TypeFactoryProvider */: \n      injectable = _callFactory(ngModule, providerDef.value, providerDef.deps); \n
break; \n    case 2048 /* TypeUseExistingProvider */: \n      injectable = resolveNgModuleDep(ngModule,
providerDef.deps[0]); \n      break; \n    case 256 /* TypeValueProvider */: \n      injectable =
providerDef.value; \n      break; \n    } \n    return injectable === undefined ? UNDEFINED_VALUE :
injectable; \n  } \n } \n /** \n * @param {?} ngModule \n * @param {?} ctor \n * @param {?} deps \n * @return {?} \n
*/ \n function _createClass(ngModule, ctor, deps) { \n  var /** @type {?} */ len = deps.length; \n  switch (len) { \n
case 0: \n    return new ctor(); \n    case 1: \n      return new ctor(resolveNgModuleDep(ngModule,
deps[0])); \n    case 2: \n      return new ctor(resolveNgModuleDep(ngModule, deps[0]),
resolveNgModuleDep(ngModule, deps[1])); \n    case 3: \n      return new
ctor(resolveNgModuleDep(ngModule, deps[0]), resolveNgModuleDep(ngModule, deps[1]),
resolveNgModuleDep(ngModule, deps[2])); \n    default: \n      var /** @type {?} */ depValues = new
Array(len); \n      for (var /** @type {?} */ i = 0; i < len; i++) { \n        depValues[i] =
resolveNgModuleDep(ngModule, deps[i]); \n      } \n      return new (ctor.bind.apply(ctor, [void
0].concat(depValues)))(); \n    } \n  } \n } \n /** \n * @param {?} ngModule \n * @param {?} factory \n * @param {?}
deps \n * @return {?} \n */ \n function _callFactory(ngModule, factory, deps) { \n  var /** @type {?} */ len =
deps.length; \n  switch (len) { \n    case 0: \n      return factory(); \n    case 1: \n      return
factory(resolveNgModuleDep(ngModule, deps[0])); \n    case 2: \n      return
factory(resolveNgModuleDep(ngModule, deps[0]), resolveNgModuleDep(ngModule, deps[1])); \n    case 3: \n
return factory(resolveNgModuleDep(ngModule, deps[0]), resolveNgModuleDep(ngModule, deps[1]),
resolveNgModuleDep(ngModule, deps[2])); \n    default: \n      var /** @type {?} */ depValues = Array(len); \n
for (var /** @type {?} */ i = 0; i < len; i++) { \n        depValues[i] = resolveNgModuleDep(ngModule,
deps[i]); \n      } \n      return factory.apply(void 0, depValues); \n    } \n  } \n } \n /** \n * @param {?}
ngModule \n * @param {?} lifecycles \n * @return {?} \n */ \n function callNgModuleLifecycle(ngModule, lifecycles) { \n
var /** @type {?} */ def = ngModule._def; \n  for (var /** @type {?} */ i = 0; i < def.providers.length; i++) { \n
var /** @type {?} */ provDef = def.providers[i]; \n    if (provDef.flags & 131072 /* OnDestroy */) { \n      var /**
@type {?} */ instance = ngModule._providers[i]; \n      if (instance && instance !== UNDEFINED_VALUE) { \n
instance.ngOnDestroy(); \n      } \n    } \n  } \n } \n } \n } \n } \n /** \n * @fileoverview added by tsickle \n *
@suppress {checkTypes} checked by tsc \n */ \n /** \n * @license \n * Copyright Google Inc. All Rights Reserved. \n
*/ \n * Use of this source code is governed by an MIT-style license that can be \n * found in the LICENSE file at
https://angular.io/license \n */ \n /** \n * @param {?} parentView \n * @param {?} elementData \n * @param {?}
viewIndex \n * @param {?} view \n * @return {?} \n */ \n function attachEmbeddedView(parentView, elementData,
viewIndex, view) { \n  var /** @type {?} */ embeddedViews = /** @type {?} */
((elementData.viewContainer)._embeddedViews; \n  if (viewIndex === null || viewIndex === undefined) { \n
viewIndex = embeddedViews.length; \n  } \n  view.viewContainerParent = parentView; \n  addToArray(embeddedViews, /** @type {?} */ ((viewIndex)), view); \n  attachProjectedView(elementData,

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view);\n Services.dirtyParentQueries(view);\n var /** @type {?} */ prevView = /** @type {?} */ ((viewIndex)
> 0 ? embeddedViews[/** @type {?} */ ((viewIndex)) - 1] : null;\n renderAttachEmbeddedView(elementData,
prevView, view);\n}\n/**\n * @param {?} vcElementData\n * @param {?} view\n * @return {?}\n */\nfunction
attachProjectedView(vcElementData, view) {\n var /** @type {?} */ dvcElementData =
declaredViewContainer(view);\n if (!dvcElementData || dvcElementData === vcElementData ||\n view.state &
16 /* IsProjectedView */) {\n return;\n }\n // Note: For performance reasons, we\n // - add a view to
template._projectedViews only 1x throughout its lifetime,\n // and remove it not until the view is destroyed.\n //
(hard, as when a parent view is attached/detached we would need to attach/detach all\n // nested projected views
as well, even across component boundaries).\n // - don't track the insertion order of views in the projected views
array\n // (hard, as when the views of the same template are inserted different view containers)\n view.state |=
16 /* IsProjectedView */;\n var /** @type {?} */ projectedViews = dvcElementData.template._projectedViews;\n
if (!projectedViews) {\n projectedViews = dvcElementData.template._projectedViews = [];\n }\n
projectedViews.push(view);\n // Note: we are changing the NodeDef here as we cannot calculate\n // the fact
whether a template is used for projection during compilation.\n markNodeAsProjectedTemplate(/** @type {?} */
((view.parent)).def, /** @type {?} */ ((view.parentNodeDef)));\n}\n/**\n * @param {?} viewDef\n * @param {?}
nodeDef\n * @return {?}\n */\nfunction markNodeAsProjectedTemplate(viewDef, nodeDef) {\n if (nodeDef.flags
& 4 /* ProjectedTemplate */) {\n return;\n }\n viewDef.nodeFlags |= 4 /* ProjectedTemplate */;\n
nodeDef.flags |= 4 /* ProjectedTemplate */;\n var /** @type {?} */ parentNodeDef = nodeDef.parent;\n while
(parentNodeDef) {\n parentNodeDef.childFlags |= 4 /* ProjectedTemplate */;\n parentNodeDef =
parentNodeDef.parent;\n }\n}\n/**\n * @param {?} elementData\n * @param {=} viewIndex\n * @return {?}\n
*/\nfunction detachEmbeddedView(elementData, viewIndex) {\n var /** @type {?} */ embeddedViews = /**
@type {?} */ ((elementData.viewContainer))._embeddedViews;\n if (viewIndex == null || viewIndex >=
embeddedViews.length) {\n viewIndex = embeddedViews.length - 1;\n }\n if (viewIndex < 0) {\n
return null;\n }\n var /** @type {?} */ view = embeddedViews[viewIndex];\n view.viewContainerParent =
null;\n removeFromArray(embeddedViews, viewIndex);\n // See attachProjectedView for why we don't update
projectedViews here.\n Services.dirtyParentQueries(view);\n renderDetachView(view);\n return
view;\n}\n/**\n * @param {?} view\n * @return {?}\n */\nfunction detachProjectedView(view) {\n if
(!view.state & 16 /* IsProjectedView */) {\n return;\n }\n var /** @type {?} */ dvcElementData =
declaredViewContainer(view);\n if (dvcElementData) {\n var /** @type {?} */ projectedViews =
dvcElementData.template._projectedViews;\n if (projectedViews) {\n
removeFromArray(projectedViews, projectedViews.indexOf(view));\n Services.dirtyParentQueries(view);\n
}\n }\n}\n/**\n * @param {?} elementData\n * @param {?} oldViewIndex\n * @param {?} newViewIndex\n *
@return {?}\n */\nfunction moveEmbeddedView(elementData, oldViewIndex, newViewIndex) {\n var /** @type
{?} */ embeddedViews = /** @type {?} */ ((elementData.viewContainer))._embeddedViews;\n var /** @type
{?} */ view = embeddedViews[oldViewIndex];\n removeFromArray(embeddedViews, oldViewIndex);\n if
(newViewIndex == null) {\n newViewIndex = embeddedViews.length;\n }\n addToArray(embeddedViews,
newViewIndex, view);\n // Note: Don't need to change projectedViews as the order in there\n // as always
invalid...\n Services.dirtyParentQueries(view);\n renderDetachView(view);\n var /** @type {?} */ prevView =
newViewIndex > 0 ? embeddedViews[newViewIndex - 1] : null;\n renderAttachEmbeddedView(elementData,
prevView, view);\n return view;\n}\n/**\n * @param {?} elementData\n * @param {?} prevView\n * @param
{=} view\n * @return {?}\n */\nfunction renderAttachEmbeddedView(elementData, prevView, view) {\n var /**
@type {?} */ prevRenderNode = prevView ? renderNode(prevView, /** @type {?} */
((prevView.def.lastRenderRootNode))) :\n elementData.renderElement;\n var /** @type {?} */ parentNode =
view.renderer.parentNode(prevRenderNode);\n var /** @type {?} */ nextSibling =
view.renderer.nextSibling(prevRenderNode);\n // Note: We can't check if `nextSibling` is present, as on
WebWorkers it will always be!\n // However, browsers automatically do `appendChild` when there is no
`nextSibling`.\n visitRootRenderNodes(view, 2 /* InsertBefore */, parentNode, nextSibling, undefined);\n}\n/**\n
* @param {?} view\n * @return {?}\n */\nfunction renderDetachView(view) {\n visitRootRenderNodes(view, 3

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/* RemoveChild */, null, null, undefined);\n\n**\n * @param {?} arr\n * @param {?} index\n * @param {?}
value\n * @return {?}\n */\nfunction addToArray(arr, index, value) {\n // perf: array.push is faster than
array.splice!\n if (index >= arr.length) {\n arr.push(value);\n } else {\n arr.splice(index, 0, value);\n
}\n}\n**\n * @param {?} arr\n * @param {?} index\n * @return {?}\n */\nfunction removeFromArray(arr, index)
{\n // perf: array.pop is faster than array.splice!\n if (index >= arr.length - 1) {\n arr.pop();\n } else {\n
arr.splice(index, 1);\n }\n}\n\n**\n * @fileoverview added by tsickle\n * @suppress {checkTypes} checked
by tsc\n */\n**\n * @license\n * Copyright Google Inc. All Rights Reserved.\n * Use of this source code is
governed by an MIT-style license that can be\n * found in the LICENSE file at https://angular.io/license\n */\n
EMPTY_CONTEXT = new Object();\n**\n * @param {?} selector\n * @param {?} componentType\n * @param
{?} viewDefFactory\n * @param {?} inputs\n * @param {?} outputs\n * @param {?} ngContentSelectors\n *
@return {?}\n */\nfunction createComponentFactory(selector, componentType, viewDefFactory, inputs, outputs,
ngContentSelectors) {\n return new ComponentFactory_(selector, componentType, viewDefFactory, inputs,
outputs, ngContentSelectors);\n}\n**\n * @param {?} componentFactory\n * @return {?}\n */\nfunction
getComponentViewDefinitionFactory(componentFactory) {\n return (** @type {?} */\n (componentFactory)).viewDefFactory;\n}\n
nvar ComponentFactory_ = /** @class */ (function (_super) {\n
__extends(ComponentFactory_, _super);\n function ComponentFactory_(selector, componentType,
viewDefFactory, _inputs, _outputs, ngContentSelectors) {\n var _this =\n // Attention: this ctor is called as
top level function.\n // Putting any logic in here will destroy closure tree shaking!\n _super.call(this) ||
this;\n _this.selector = selector;\n _this.componentType = componentType;\n _this._inputs = _inputs;\n
_this._outputs = _outputs;\n _this.ngContentSelectors = ngContentSelectors;\n _this.viewDefFactory =
viewDefFactory;\n return _this;\n }\n Object.defineProperty(ComponentFactory_.prototype, \"inputs\", {\n
get: /**\n * @return {?}\n */\n function () {\n var /** @type {?} */ inputsArr = [];\n
var /** @type {?} */ inputs = /** @type {?} */ ((this._inputs));\n for (var /** @type {?} */ propName in
inputs) {\n var /** @type {?} */ templateName = inputs[propName];\n inputsArr.push({\n
propName: propName, templateName: templateName });\n }\n return inputsArr;\n },\n enumerable: true,\n
configurable: true\n });\n Object.defineProperty(ComponentFactory_.prototype, \"outputs\", {\n
get: /**\n * @return {?}\n */\n function () {\n var /** @type {?} */\n
outputsArr = [];\n for (var /** @type {?} */ propName in this._outputs) {\n var /** @type {?} */\n
templateName = this._outputs[propName];\n outputsArr.push({ propName: propName, templateName:\n
templateName });\n }\n return outputsArr;\n },\n enumerable: true,\n configurable: true\n
});\n /**\n * Creates a new component.\n */\n /**\n * Creates a new component.\n * @param {?}
injector\n * @param {?=} projectableNodes\n * @param {?=} rootSelectorOrNode\n * @param {?=}
ngModule\n * @return {?}\n */\n ComponentFactory_.prototype.create = /**\n * Creates a new
component.\n * @param {?} injector\n * @param {?=} projectableNodes\n * @param {?=}
rootSelectorOrNode\n * @param {?=} ngModule\n * @return {?}\n */\n function (injector,
projectableNodes, rootSelectorOrNode, ngModule) {\n if (!ngModule) {\n throw new Error('ngModule
should be provided');\n }\n var /** @type {?} */ viewDef = resolveDefinition(this.viewDefFactory);\n
var /** @type {?} */ componentNodeIndex = /** @type {?} */ ((/** @type {?} */\n
((viewDef.nodes[0].element)).componentProvider)).nodeIndex;\n var /** @type {?} */ view =
Services.createRootView(injector, projectableNodes || [], rootSelectorOrNode, viewDef, ngModule,
EMPTY_CONTEXT);\n var /** @type {?} */ component = asProviderData(view,
componentNodeIndex).instance;\n if (rootSelectorOrNode) {\n
view.renderer.setAttribute(asElementData(view, 0).renderElement, 'ng-version', VERSION.full);\n }\n
return new ComponentRef_(view, new ViewRef_(view), component);\n };\n return
ComponentFactory_(this)(ComponentFactory_);\n}\n\nvar ComponentRef_ = /** @class */ (function (_super) {\n
__extends(ComponentRef_, _super);\n function ComponentRef_(view, viewRef, component) {\n var _this
= _super.call(this) || this;\n _this._view = view;\n _this._viewRef = viewRef;\n _this._component =
_component;\n _this._elDef = _this._view.def.nodes[0];\n _this.hostView = viewRef;\n

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_this.changeDetectorRef = _viewRef;\n    _this.instance = _component;\n    return _this;\n  }\n  Object.defineProperty(ComponentRef_.prototype, \"location\", {\n    get: /**\n      * @return {?}\n    */\n    function () {\n      return new ElementRef(asElementData(this._view, this._elDef.nodeIndex).renderElement);\n    },\n    enumerable: true,\n    configurable: true\n  });\n  Object.defineProperty(ComponentRef_.prototype, \"injector\", {\n    get: /**\n      * @return {?}\n    */\n    function () {\n      return new Injector_(this._view, this._elDef);\n    },\n    enumerable: true,\n    configurable: true\n  });\n  Object.defineProperty(ComponentRef_.prototype, \"componentType\", {\n    get: /**\n      * @return {?}\n    */\n    function () {\n      return /** @type {?} */ (this._component.constructor);\n    },\n    enumerable: true,\n    configurable: true\n  });\n  /**\n   * @return {?}\n   */\n  ComponentRef_.prototype.destroy = /**\n   * @return {?}\n   */\n  function () {\n    this._viewRef.destroy();\n  }\n  /**\n   * @param {?} callback\n   * @return {?}\n   */\n  ComponentRef_.prototype.onDestroy = /**\n   * @param {?} callback\n   * @return {?}\n   */\n  function (callback) {\n    this._viewRef.onDestroy(callback);\n  }\n  return ComponentRef_;\n})(ComponentRef);\n\n/**\n * @param {?} view\n * @param {?} elDef\n * @param {?} elData\n * @return {?}\n */\nfunction\ncreateViewContainerData(view, elDef, elData) {\n  return new ViewContainerRef_(view, elDef, elData);\n}\n\nvar\nViewContainerRef_ = /** @class */ (function () {\n  function ViewContainerRef_(_view, _elDef, _data) {\n    this._view = _view;\n    this._elDef = _elDef;\n    this._data = _data;\n    /**\n     * @@internal\n     */\n    this._embeddedViews = [];\n  }\n  Object.defineProperty(ViewContainerRef_.prototype, \"element\", {\n    get: /**\n      * @return {?}\n    */\n    function () {\n      return new ElementRef(this._data.renderElement);\n    },\n    enumerable: true,\n    configurable: true\n  });\n  Object.defineProperty(ViewContainerRef_.prototype, \"injector\", {\n    get: /**\n      * @return {?}\n    */\n    function () {\n      return new Injector_(this._view, this._elDef);\n    },\n    enumerable: true,\n    configurable: true\n  });\n  Object.defineProperty(ViewContainerRef_.prototype, \"parentInjector\", {\n    get: /**\n      * @return {?}\n    */\n    function () {\n      var /** @type {?} */ view = this._view;\n      var /** @type {?} */ elDef = this._elDef.parent;\n      while (!elDef && view) {\n        elDef = viewParentEl(view);\n        view = /** @type {?} */ ((view.parent));\n      }\n      return view ? new Injector_(view, elDef) : new Injector_(this._view, null);\n    },\n    enumerable: true,\n    configurable: true\n  });\n  /**\n   * @return {?}\n   */\n  ViewContainerRef_.prototype.clear = /**\n   * @return {?}\n   */\n  function () {\n    var /** @type {?} */ len = this._embeddedViews.length;\n    for (var /** @type {?} */ i = len - 1; i >= 0; i--) {\n      var /** @type {?} */ view = /** @type {?} */ ((detachEmbeddedView(this._data, i)));\n      Services.destroyView(view);\n    }\n  }\n  /**\n   * @param {?} index\n   * @return {?}\n   */\n  ViewContainerRef_.prototype.get = /**\n   * @param {?} index\n   * @return {?}\n   */\n  function (index) {\n    var /** @type {?} */ view = this._embeddedViews[index];\n    if (view) {\n      var /** @type {?} */ ref = new ViewRef_(view);\n      ref.attachToViewContainerRef(this);\n      return ref;\n    }\n    return null;\n  }\n  Object.defineProperty(ViewContainerRef_.prototype, \"length\", {\n    get: /**\n      * @return {?}\n    */\n    function () {\n      return this._embeddedViews.length;\n    },\n    enumerable: true,\n    configurable: true\n  });\n  /**\n   * @template C\n   * @param {?} templateRef\n   * @param {?=} context\n   * @param {?=} index\n   * @return {?}\n   */\n  ViewContainerRef_.prototype.createEmbeddedView = /**\n   * @template C\n   * @param {?} templateRef\n   * @param {?=} context\n   * @param {?=} index\n   * @return {?}\n   */\n  function (templateRef, context, index) {\n    var /** @type {?} */ viewRef = templateRef.createEmbeddedView(context || /** @type {?} */ ({}));\n    this.insert(viewRef, index);\n    return viewRef;\n  }\n  /**\n   * @template C\n   * @param {?} componentFactory\n   * @param {?=} index\n   * @param {?=} injector\n   * @param {?=} projectableNodes\n   * @param {?=} ngModuleRef\n   * @return {?}\n   */\n  ViewContainerRef_.prototype.createComponent = /**\n   * @template C\n   * @param {?} componentFactory\n   * @param {?=} index\n   * @param {?=} injector\n   * @param {?=} projectableNodes\n   * @param {?=} ngModuleRef\n   * @return {?}\n   */\n  function (componentFactory, index, injector, projectableNodes, ngModuleRef) {\n    var /** @type {?} */ contextInjector = injector || this.parentInjector;\n    if (!ngModuleRef && !(componentFactory instanceof ComponentFactoryBoundToModule)) {\n      ngModuleRef = contextInjector.get(NgModuleRef);\n    }\n    var /** @type {?} */ componentRef =

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componentFactory.create(contextInjector, projectableNodes, undefined, ngModuleRef);\n
this.insert(componentRef.hostView, index);\n    return componentRef;\n    };\n    /**\n     * @param {?}
viewRef\n     * @param {?} index\n     * @return {?}\n     */\n    ViewContainerRef.prototype.insert = /**\n     *
@param {?} viewRef\n     * @param {?} index\n     * @return {?}\n     */\n    function (viewRef, index) {\n    if
(viewRef.destroyed) {\n        throw new Error('Cannot insert a destroyed View in a ViewContainer!');\n    }\n    var /**
@param {?} */ viewRef_ = /** @type {?} */ (viewRef);\n    var /** @type {?} */ viewData =
viewRef._view;\n    attachEmbeddedView(this._view, this._data, index, viewData);\n
viewRef._attachToViewContainerRef(this);\n    return viewRef;\n    };\n    /**\n     * @param {?} viewRef\n     *
@param {?} currentIndex\n     * @return {?}\n     */\n    ViewContainerRef.prototype.move = /**\n     * @param
@param {?} viewRef\n     * @param {?} currentIndex\n     * @return {?}\n     */\n    function (viewRef, currentIndex) {\n
if (viewRef.destroyed) {\n        throw new Error('Cannot move a destroyed View in a ViewContainer!');\n    }\n    var /**
@param {?} */ previousIndex = this._embeddedViews.indexOf(viewRef._view);\n
moveEmbeddedView(this._data, previousIndex, currentIndex);\n    return viewRef;\n    };\n    /**\n     * @param
@param {?} viewRef\n     * @return {?}\n     */\n    ViewContainerRef.prototype.indexOf = /**\n     * @param {?}
viewRef\n     * @return {?}\n     */\n    function (viewRef) {\n    return this._embeddedViews.indexOf((/** @type
@param {?} */ (viewRef))._view);\n    };\n    /**\n     * @param {?} index\n     * @return {?}\n     */\n
ViewContainerRef.prototype.remove = /**\n     * @param {?} index\n     * @return {?}\n     */\n    function
(index) {\n    var /** @type {?} */ viewData = detachEmbeddedView(this._data, index);\n    if (viewData) {\n
        Services.destroyView(viewData);\n    }\n    };\n    /**\n     * @param {?} index\n     * @return {?}\n     */\n
ViewContainerRef.prototype.detach = /**\n     * @param {?} index\n     * @return {?}\n     */\n    function
(index) {\n    var /** @type {?} */ view = detachEmbeddedView(this._data, index);\n    return view ? new
ViewRef_(view) : null;\n    };\n    return ViewContainerRef_;\n    };\n    /**\n     * @param {?} view\n     * @return {?}\n     */\n
function createChangeDetectorRef(view) {\n    return new ViewRef_(view);\n    }\n    var ViewRef_ = /** @class */
(function () {\n    function ViewRef_(_view) {\n        this._view = _view;\n        this._viewContainerRef = null;\n
this._appRef = null;\n    }\n    Object.defineProperty(ViewRef_.prototype, 'rootNodes', {\n        get: /**\n         *
@return {?}\n         */\n        function () { return rootRenderNodes(this._view); },\n        enumerable: true,\n
configurable: true\n    });\n    Object.defineProperty(ViewRef_.prototype, 'context', {\n        get: /**\n         *
@return {?}\n         */\n        function () { return this._view.context; },\n        enumerable: true,\n
configurable: true\n    });\n    Object.defineProperty(ViewRef_.prototype, 'destroyed', {\n        get: /**\n         *
@return {?}\n         */\n        function () { return (this._view.state & 128 /* Destroyed */) !== 0; },\n        enumerable: true,\n
configurable: true\n    });\n    /**\n     * @return {?}\n     */\n    ViewRef_.prototype.markForCheck = /**\n     *
@return {?}\n     */\n    function () { markParentViewsForCheck(this._view); }\n    /**\n     * @return {?}\n     */\n
ViewRef_.prototype.detach = /**\n     * @return {?}\n     */\n    function () { this._view.state &= ~4 /* Attached */;\n
};\n    /**\n     * @return {?}\n     */\n    ViewRef_.prototype.detectChanges = /**\n     * @return {?}\n     */\n
function () {\n    var /** @type {?} */ fs = this._view.root.rendererFactory;\n    if (fs.begin) {\n
fs.begin();\n    }\n    try {\n        Services.checkAndUpdateView(this._view);\n    }\n    finally {\n
if (fs.end) {\n        fs.end();\n    }\n    }\n    };\n    /**\n     * @return {?}\n     */\n
ViewRef_.prototype.checkNoChanges = /**\n     * @return {?}\n     */\n    function () {\n
Services.checkNoChangesView(this._view);\n    };\n    /**\n     * @return {?}\n     */\n    ViewRef_.prototype.reattach =
/**\n     * @return {?}\n     */\n    function () { this._view.state |= 4 /* Attached */; }\n    /**\n     * @param {?}
callback\n     * @return {?}\n     */\n    ViewRef_.prototype.onDestroy = /**\n     * @param {?} callback\n     *
@return {?}\n     */\n    function (callback) {\n    if (!this._view.disposables) {\n        this._view.disposables =
[];\n    }\n    this._view.disposables.push(/** @type {?} */ (callback));\n    };\n    /**\n     * @return {?}\n     */\n
ViewRef_.prototype.destroy = /**\n     * @return {?}\n     */\n    function () {\n    if (this._appRef) {\n
this._appRef.detachView(this);\n    }\n    else if (this._viewContainerRef) {\n
this._viewContainerRef.detach(this._viewContainerRef.indexOf(this));\n    }\n
Services.destroyView(this._view);\n    };\n    /**\n     * @return {?}\n     */\n
ViewRef_.prototype.detachFromAppRef = /**\n     * @return {?}\n     */\n    function () {\n    this._appRef =

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null;\n    renderDetachView(this._view);\n    Services.dirtyParentQueries(this._view);\n  };\n  /**\n   *
@param {?} appRef\n   * @return {?}\n   */\n  ViewRef.prototype.attachToAppRef = /**\n   * @param {?}
appRef\n   * @return {?}\n   */\n  function (appRef) {\n    if (this._viewControllerRef) {\n      throw new
Error("This view is already attached to a ViewContainer!");\n    }\n    this._appRef = appRef;\n  };\n  /**\n   *
@param {?} vcRef\n   * @return {?}\n   */\n  ViewRef.prototype.attachToViewContainerRef = /**\n   *
@param {?} vcRef\n   * @return {?}\n   */\n  function (vcRef) {\n    if (this._appRef) {\n      throw new
Error("This view is already attached directly to the ApplicationRef!");\n    }\n    this._viewControllerRef =
vcRef;\n  };\n  return ViewRef_;\n})();\n\n/**\n * @param {?} view\n * @param {?} def\n * @return {?}\n */\nfunction createTemplateData(view, def) {\n  return new TemplateRef_(view, def);\n}\n\nvar TemplateRef_ = /**
@class */ (function (_super) {\n  __extends(TemplateRef_, _super);\n  function TemplateRef_(_parentView,
_def) {\n    var _this = _super.call(this) || this;\n    _this._parentView = _parentView;\n    _this._def = _def;\n    return _this;\n  }\n  /**\n   * @param {?} context\n   * @return {?}\n   */\n  TemplateRef_.prototype.createEmbeddedView = /**\n   * @param {?} context\n   * @return {?}\n   */\n  function (context) {\n    return new ViewRef_(Services.createEmbeddedView(this._parentView, this._def, /**
@type {?} */ ((/** @type {?} */ ((this._def.element)).template)), context));\n  };\n  Object.defineProperty(TemplateRef_.prototype, "elementRef", {\n    get: /**\n     * @return {?}\n     */\n    function () {\n      return new ElementRef(asElementData(this._parentView,
this._def.nodeIndex).renderElement);\n    },\n    enumerable: true,\n    configurable: true\n  });\n  return
TemplateRef_;\n})(TemplateRef);\n\n/**\n * @param {?} view\n * @param {?} elDef\n * @return {?}\n */\nfunction createInjector(view, elDef) {\n  return new Injector_(view, elDef);\n}\n\nvar Injector_ = /** @class */
(function () {\n  function Injector_(view, elDef) {\n    this.view = view;\n    this.elDef = elDef;\n  }\n  /**\n   * @param {?} token\n   * @param {=} notFoundValue\n   * @return {?}\n   */\n  Injector_.prototype.get =
/**\n   * @param {?} token\n   * @param {=} notFoundValue\n   * @return {?}\n   */\n  function (token,
notFoundValue) {\n    if (notFoundValue === void 0) { notFoundValue = Injector.THROW_IF_NOT_FOUND;\n    }\n    var /** @type {?} */ allowPrivateServices = this.elDef ? (this.elDef.flags & 33554432 /* ComponentView
*/) !== 0 : false;\n    return Services.resolveDep(this.view, this.elDef, allowPrivateServices, { flags: 0 /* None */,
token: token, tokenKey: tokenKey(token) }, notFoundValue);\n  };\n  return Injector_;\n})();\n\n/**\n * @param
 {?} view\n * @param {?} index\n * @return {?}\n */\nfunction nodeValue(view, index) {\n  var /** @type {?} */
def = view.def.nodes[index];\n  if (def.flags & 1 /* TypeElement */) {\n    var /** @type {?} */ elData =
asElementData(view, def.nodeIndex);\n    return /** @type {?} */ ((def.element)).template ? elData.template :
elData.renderElement;\n  }\n  else if (def.flags & 2 /* TypeText */) {\n    return asTextData(view,
def.nodeIndex).renderText;\n  }\n  else if (def.flags & (20224 /* CatProvider */ | 16 /* TypePipe */)) {\n
return asProviderData(view, def.nodeIndex).instance;\n  }\n  throw new Error("Illegal state: read nodeValue for
node index '" + index);\n}\n\n/**\n * @param {?} view\n * @return {?}\n */\nfunction createRendererV1(view) {\n
return new RendererAdapter(view.renderer);\n}\n\nvar RendererAdapter = /** @class */ (function () {\n  function
RendererAdapter(delegate) {\n    this.delegate = delegate;\n  }\n  /**\n   * @param {?} selectorOrNode\n   *
@return {?}\n   */\n  RendererAdapter.prototype.selectRootElement = /**\n   * @param {?} selectorOrNode\n   *
@return {?}\n   */\n  function (selectorOrNode) {\n    return
this.delegate.selectRootElement(selectorOrNode);\n  };\n  /**\n   * @param {?} parent\n   * @param {?}
namespaceAndName\n   * @return {?}\n   */\n  RendererAdapter.prototype.createElement = /**\n   * @param
 {?} parent\n   * @param {?} namespaceAndName\n   * @return {?}\n   */\n  function (parent,
namespaceAndName) {\n    var _a = splitNamespace(namespaceAndName), ns = _a[0], name = _a[1];\n    var
/** @type {?} */ el = this.delegate.createElement(name, ns);\n    if (parent) {\n      this.delegate.appendChild(parent, el);\n    }\n    return el;\n  };\n  /**\n   * @param {?} hostElement\n   *
@return {?}\n   */\n  RendererAdapter.prototype.createViewRoot = /**\n   * @param {?} hostElement\n   *
@return {?}\n   */\n  function (hostElement) {\n    return hostElement;\n  };\n  /**\n   * @param {?} parentElement\n   *
@return {?}\n   */\n  RendererAdapter.prototype.createTemplateAnchor = /**\n   * @param {?}
parentElement\n   * @return {?}\n   */\n  function (parentElement) {\n    var /** @type {?} */ comment =

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this.delegate.createComment("");\n    if (parentElement) {\n        this.delegate.appendChild(parentElement,
comment);\n    }\n    return comment;\n    };\n    /**\n     * @param {?} parentElement\n     * @param {?}
value\n     * @return {?}\n     */\n    RendererAdapter.prototype.createText = /**\n     * @param {?}
parentElement\n     * @param {?} value\n     * @return {?}\n     */\n    function (parentElement, value) {\n        var
/** @type {?} */ node = this.delegate.createText(value);\n        if (parentElement) {\n
this.delegate.appendChild(parentElement, node);\n        }\n        return node;\n    };\n    /**\n     * @param {?}
parentElement\n     * @param {?} nodes\n     * @return {?}\n     */\n    RendererAdapter.prototype.projectNodes =
/**\n     * @param {?} parentElement\n     * @param {?} nodes\n     * @return {?}\n     */\n    function
(parentElement, nodes) {\n        for (var /** @type {?} */ i = 0; i < nodes.length; i++) {\n
this.delegate.appendChild(parentElement, nodes[i]);\n        }\n    };\n    /**\n     * @param {?} node\n     * @param
{?} viewRootNodes\n     * @return {?}\n     */\n    RendererAdapter.prototype.attachViewAfter = /**\n     *
@param {?} node\n     * @param {?} viewRootNodes\n     * @return {?}\n     */\n    function (node,
viewRootNodes) {\n        var /** @type {?} */ parentElement = this.delegate.parentNode(node);\n        var /**
@type {?} */ nextSibling = this.delegate.nextSibling(node);\n        for (var /** @type {?} */ i = 0; i <
viewRootNodes.length; i++) {\n            this.delegate.insertBefore(parentElement, viewRootNodes[i], nextSibling);\n
        }\n    };\n    /**\n     * @param {?} viewRootNodes\n     * @return {?}\n     */\n
RendererAdapter.prototype.detachView = /**\n     * @param {?} viewRootNodes\n     * @return {?}\n     */\n
function (viewRootNodes) {\n        for (var /** @type {?} */ i = 0; i < viewRootNodes.length; i++) {\n            var
/** @type {?} */ node = viewRootNodes[i];\n            var /** @type {?} */ parentElement =
this.delegate.parentNode(node);\n            this.delegate.removeChild(parentElement, node);\n        }\n    };\n    /**\n
     * @param {?} hostElement\n     * @param {?} viewAllNodes\n     * @return {?}\n     */\n
RendererAdapter.prototype.destroyView = /**\n     * @param {?} hostElement\n     * @param {?} viewAllNodes\n
     * @return {?}\n     */\n    function (hostElement, viewAllNodes) {\n        for (var /** @type {?} */ i = 0; i <
viewAllNodes.length; i++) {\n            /** @type {?} */ ((this.delegate.destroyNode))(viewAllNodes[i]);\n        }\n
    };\n    /**\n     * @param {?} renderElement\n     * @param {?} name\n     * @param {?} callback\n     * @return
{?}\n     */\n    RendererAdapter.prototype.listen = /**\n     * @param {?} renderElement\n     * @param {?} name\n
     * @param {?} callback\n     * @return {?}\n     */\n    function (renderElement, name, callback) {\n        return
this.delegate.listen(renderElement, name, /** @type {?} */ (callback));\n    };\n    /**\n     * @param {?} target\n
     * @param {?} name\n     * @param {?} callback\n     * @return {?}\n     */\n
RendererAdapter.prototype.listenGlobal = /**\n     * @param {?} target\n     * @param {?} name\n     * @param
{?} callback\n     * @return {?}\n     */\n    function (target, name, callback) {\n        return this.delegate.listen(target,
name, /** @type {?} */ (callback));\n    };\n    /**\n     * @param {?} renderElement\n     * @param {?}
propertyName\n     * @param {?} propertyValue\n     * @return {?}\n     */\n
RendererAdapter.prototype.setElementProperty = /**\n     * @param {?} renderElement\n     * @param {?}
propertyName\n     * @param {?} propertyValue\n     * @return {?}\n     */\n    function (renderElement,
propertyName, propertyValue) {\n        this.delegate.setProperty(renderElement, propertyName, propertyValue);\n
    };\n    /**\n     * @param {?} renderElement\n     * @param {?} namespaceAndName\n     * @param {?}
attributeValue\n     * @return {?}\n     */\n    RendererAdapter.prototype.setElementAttribute = /**\n     * @param
{?} renderElement\n     * @param {?} namespaceAndName\n     * @param {?} attributeValue\n     * @return {?}\n
     */\n    function (renderElement, namespaceAndName, attributeValue) {\n        var _a =
splitNamespace(namespaceAndName), ns = _a[0], name = _a[1];\n        if (attributeValue != null) {\n
this.delegate.setAttribute(renderElement, name, attributeValue, ns);\n        }\n        else {\n
this.delegate.removeAttribute(renderElement, name, ns);\n        }\n    };\n    /**\n     * @param {?} renderElement\n
     * @param {?} propertyName\n     * @param {?} propertyValue\n     * @return {?}\n     */\n
RendererAdapter.prototype.setBindingDebugInfo = /**\n     * @param {?} renderElement\n     * @param {?}
propertyName\n     * @param {?} propertyValue\n     * @return {?}\n     */\n    function (renderElement,
propertyName, propertyValue) {\n    };\n    /**\n     * @param {?} renderElement\n     * @param {?} className\n
     * @param {?} isAdd\n     * @return {?}\n     */\n
RendererAdapter.prototype.setElementClass = /**\n     * @param

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{?} renderElement\n    * @param {?} className\n    * @param {?} isAdd\n    * @return {?}\n    *\n    function
(renderElement, className, isAdd) {\n    if (isAdd) {\n        this.delegate.addClass(renderElement,
className);\n    }\n    else {\n        this.delegate.removeClass(renderElement, className);\n    }\n    };\n
/**\n    * @param {?} renderElement\n    * @param {?} styleName\n    * @param {?} styleValue\n    * @return
{?}\n    *\n    RendererAdapter.prototype.setStyle = /**\n    * @param {?} renderElement\n    * @param
{?} styleName\n    * @param {?} styleValue\n    * @return {?}\n    *\n    function (renderElement, styleName,
styleValue) {\n    if (styleValue != null) {\n        this.delegate.setStyle(renderElement, styleName,
styleValue);\n    }\n    else {\n        this.delegate.removeStyle(renderElement, styleName);\n    }\n    };\n
/**\n    * @param {?} renderElement\n    * @param {?} methodName\n    * @param {?} args\n    * @return
{?}\n    *\n    RendererAdapter.prototype.invokeElementMethod = /**\n    * @param {?} renderElement\n    *
@param {?} methodName\n    * @param {?} args\n    * @return {?}\n    *\n    function (renderElement,
methodName, args) {\n    (** @type {?} */ (renderElement))[methodName].apply(renderElement, args);\n    };\n
/**\n    * @param {?} renderNode\n    * @param {?} text\n    * @return {?}\n    *\n
RendererAdapter.prototype.setText = /**\n    * @param {?} renderNode\n    * @param {?} text\n    * @return
{?}\n    *\n    function (renderNode$$1, text) { this.delegate.setValue(renderNode$$1, text); };\n
/**\n    *
@return {?}\n    *\n    RendererAdapter.prototype.animate = /**\n    * @return {?}\n    *\n    function () { throw
new Error('Renderer.animate is no longer supported!'); };\n    return RendererAdapter;\n    });\n
/**\n    * @param {?}
moduleType\n    * @param {?} parent\n    * @param {?} bootstrapComponents\n    * @param {?} def\n    * @return {?}\n
*\n    function createNgModuleRef(moduleType, parent, bootstrapComponents, def) {\n    return new
NgModuleRef_(moduleType, parent, bootstrapComponents, def);\n    }\n
nvar NgModuleRef_ = /** @class */ (function
() {\n    function NgModuleRef_(moduleType, _parent, _bootstrapComponents, _def) {\n    this._moduleType =
_moduleType;\n    this._parent = _parent;\n    this._bootstrapComponents = _bootstrapComponents;\n
this._def = _def;\n    this._destroyListeners = [];\n    this._destroyed = false;\n    this.injector = this;\n
initNgModule(this);\n    }\n    /**\n    * @param {?} token\n    * @param {?=} notFoundValue\n    * @return
{?}\n    *\n    NgModuleRef_.prototype.get = /**\n    * @param {?} token\n    * @param {?=} notFoundValue\n
* @return {?}\n    *\n    function (token, notFoundValue) {\n    if (notFoundValue === void 0) {\n
notFoundValue = Injector.THROW_IF_NOT_FOUND; }\n    return resolveNgModuleDep(this, { token: token,
tokenKey: tokenKey(token), flags: 0 /* None */, notFoundValue});\n    };\n
Object.defineProperty(NgModuleRef_.prototype, "instance", {\n    get: /**\n    * @return {?}\n    *\n
function () { return this.get(this._moduleType); };\n    enumerable: true,\n    configurable: true\n    });\n
Object.defineProperty(NgModuleRef_.prototype, "componentFactoryResolver", {\n    get: /**\n    * @return
{?}\n    *\n    function () { return this.get(ComponentFactoryResolver); };\n    enumerable: true,\n
configurable: true\n    });\n
/**\n    * @return {?}\n    *\n    NgModuleRef_.prototype.destroy = /**\n    *
@return {?}\n    *\n    function () {\n    if (this._destroyed) {\n        throw new Error(`The ng module ` +
stringify(this.instance.constructor) + ` has already been destroyed.`);\n    }\n    this._destroyed = true;\n
callNgModuleLifecycle(this, 131072 /* OnDestroy */);\n    this._destroyListeners.forEach(function (listener) {\n
return listener(); });\n    };\n    /**\n    * @param {?} callback\n    * @return {?}\n    *\n
NgModuleRef_.prototype.onDestroy = /**\n    * @param {?} callback\n    * @return {?}\n    *\n    function
(callback) { this._destroyListeners.push(callback); };\n    return NgModuleRef_;\n    });\n
n/**\n    * @fileoverview
added by tsickle\n    * @suppress {checkTypes} checked by tsc\n    */\n
n/**\n    * @license\n    * Copyright Google Inc. All
Rights Reserved.\n    * Use of this source code is governed by an MIT-style license that can be\n    * found in the
LICENSE file at https://angular.io/license\n    */\n
nvar RendererV1TokenKey = tokenKey(Renderer);\n
nvar Renderer2TokenKey = tokenKey(Renderer2);\n
nvar ElementRefTokenKey = tokenKey(ElementRef);\n
nvar ViewContainerRefTokenKey = tokenKey(ViewContainerRef);\n
nvar TemplateRefTokenKey =
tokenKey(TemplateRef);\n
nvar ChangeDetectorRefTokenKey = tokenKey(ChangeDetectorRef);\n
nvar InjectorRefTokenKey = tokenKey(Injector);\n
n/**\n    * @param {?} checkIndex\n    * @param {?} flags\n    * @param
{?} matchedQueries\n    * @param {?} childCount\n    * @param {?} ctor\n    * @param {?} deps\n    * @param {?=}
props\n    * @param {?=} outputs\n    * @return {?}\n    */\n
nfunction directiveDef(checkIndex, flags, matchedQueries,

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childCount, ctor, deps, props, outputs) {\n  var /** @type {?} */ bindings = [];\n  if (props) {\n    for (var /** @type {?} */ prop in props) {\n      var _a = props[prop], bindingIndex = _a[0], nonMinifiedName = _a[1];\n      bindings[bindingIndex] = {\n        flags: 8 /* TypeProperty */,\n        name: prop, nonMinifiedName: nonMinifiedName,\n        ns: null,\n        securityContext: null,\n        suffix: null\n      };\n    }\n  }\n  var /** @type {?} */ outputDefs = [];\n  if (outputs) {\n    for (var /** @type {?} */ propName in outputs) {\n      outputDefs.push({ type: 1 /* DirectiveOutput */, propName: propName, target: null, eventName: outputs[propName] });\n    }\n  }\n  flags |= 16384 /* TypeDirective */;\n  return _def(checkIndex, flags, matchedQueries, childCount, ctor, ctor, deps, bindings, outputDefs);\n}\n\n/** @param {?} flags\n * @param {?} ctor\n * @param {?} deps\n * @return {?} */\n\nfunction pipeDef(flags, ctor, deps) {\n  flags |= 16 /* TypePipe */;\n  return _def(-1, flags, null, 0, ctor, ctor, deps);\n}\n\n/** @param {?} flags\n * @param {?} matchedQueries\n * @param {?} token\n * @param {?} value\n * @param {?} deps\n * @return {?} */\n\nfunction providerDef(flags, matchedQueries, token, value, deps) {\n  return _def(-1, flags, matchedQueries, 0, token, value, deps);\n}\n\n/** @param {?} checkIndex\n * @param {?} flags\n * @param {?} matchedQueriesDsl\n * @param {?} childCount\n * @param {?} token\n * @param {?} value\n * @param {?} deps\n * @param {=} bindings\n * @param {=} outputs\n * @return {?} */\n\nfunction _def(checkIndex, flags, matchedQueriesDsl, childCount, token, value, deps, bindings, outputs) {\n  var _a = splitMatchedQueriesDsl(matchedQueriesDsl), matchedQueries = _a.matchedQueries, references = _a.references, matchedQueryIds = _a.matchedQueryIds;\n  if (!outputs) {\n    outputs = [];\n  }\n  if (!bindings) {\n    bindings = [];\n  }\n  // Need to resolve forwardRefs as e.g. for `useValue` we\n  // lowered the expression and then stopped evaluating it,\n  // i.e. also didn't unwrap it.\n  value = resolveForwardRef(value);\n  var /** @type {?} */ depDefs = splitDepsDsl(deps, stringify(token));\n  return {\n    // will be set by the view definition\n    nodeIndex: -1,\n    parent: null,\n    renderParent: null,\n    bindingIndex: -1,\n    outputIndex: -1,\n    // regular values\n    checkIndex: checkIndex,\n    flags: flags,\n    childFlags: 0,\n    directChildFlags: 0,\n    childMatchedQueries: 0, matchedQueries: matchedQueries, matchedQueryIds: matchedQueryIds, references: references,\n    ngContentIndex: -1, childCount: childCount, bindings: bindings,\n    bindingFlags: calcBindingFlags(bindings), outputs: outputs,\n    element: null,\n    provider: { token: token, value: value, deps: depDefs },\n    text: null,\n    query: null,\n    ngContent: null\n  };\n}\n\n/** @param {?} view\n * @param {?} def\n * @return {?} */\n\nfunction createProviderInstance(view, def) {\n  return _createProviderInstance(view, def);\n}\n\n/** @param {?} view\n * @param {?} def\n * @return {?} */\n\nfunction createPipeInstance(view, def) {\n  // deps are looked up from component.\n  var /** @type {?} */ compView = view;\n  while (compView.parent && !isComponentView(compView)) {\n    compView = compView.parent;\n  }\n  // pipes can see the private services of the component\n  var /** @type {?} */ allowPrivateServices = true;\n  // pipes are always eager and classes!\n  return createClass(/** @type {?} */ ((compView.parent)), /** @type {?} */ ((viewParentEl(compView))), allowPrivateServices, /** @type {?} */ ((def.provider)).value, /** @type {?} */ ((def.provider)).deps);\n}\n\n/** @param {?} view\n * @param {?} def\n * @return {?} */\n\nfunction createDirectiveInstance(view, def) {\n  // components can see other private services, other directives can't.\n  var /** @type {?} */ allowPrivateServices = (def.flags & 32768 /* Component */) > 0;\n  // directives are always eager and classes!\n  var /** @type {?} */ instance = createClass(view, /** @type {?} */ ((def.parent)), allowPrivateServices, /** @type {?} */ ((def.provider)).value, /** @type {?} */ ((def.provider)).deps);\n  if (def.outputs.length) {\n    for (var /** @type {?} */ i = 0; i < def.outputs.length; i++) {\n      var /** @type {?} */ output = def.outputs[i];\n      var /** @type {?} */ subscription = instance[/** @type {?} */ ((output.propName)).subscribe(eventHandlerClosure(view, /** @type {?} */ ((def.parent)).nodeIndex, output.eventName));\n      /** @type {?} */ ((view.disposables))[def.outputIndex + i] = subscription.unsubscribe.bind(subscription);\n    }\n  }\n  return instance;\n}\n\n/** @param {?} view\n * @param {?} index\n * @param {?} eventName\n * @return {?} */\n\nfunction eventHandlerClosure(view, index, eventName) {\n  return function (event) {\n    return dispatchEvent(view, index, eventName, event);\n  };\n}\n\n/** @param {?} view\n * @param {?} def\n * @param {?} v0\n * @param {?} v1\n * @param {?} v2\n * @param {?} v3\n * @param {?} v4\n * @param {?} v5\n * @param {?} v6\n * @param {?} v7\n * @param {?} v8\n * @param {?} v9\n * @return {?} */\n\nfunction checkAndUpdateDirectiveInline(view, def, v0, v1, v2, v3, v4, v5, v6, v7, v8, v9) {\n
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v6, v7, v8, v9) {\n  var /** @type {?} */ providerData = asProviderData(view, def.nodeIndex);\n  var /** @type
 {?} */ directive = providerData.instance;\n  var /** @type {?} */ changed = false;\n  var /** @type {?} */
changes = /** @type {?} */ ((undefined));\n  var /** @type {?} */ bindLen = def.bindings.length;\n  if (bindLen
> 0 && checkBinding(view, def, 0, v0)) {\n    changed = true;\n    changes = updateProp(view, providerData,
def, 0, v0, changes);\n  }\n  if (bindLen > 1 && checkBinding(view, def, 1, v1)) {\n    changed = true;\n
changes = updateProp(view, providerData, def, 1, v1, changes);\n  }\n  if (bindLen > 2 && checkBinding(view,
def, 2, v2)) {\n    changed = true;\n    changes = updateProp(view, providerData, def, 2, v2, changes);\n  }\n
if (bindLen > 3 && checkBinding(view, def, 3, v3)) {\n    changed = true;\n    changes = updateProp(view,
providerData, def, 3, v3, changes);\n  }\n  if (bindLen > 4 && checkBinding(view, def, 4, v4)) {\n    changed =
true;\n    changes = updateProp(view, providerData, def, 4, v4, changes);\n  }\n  if (bindLen > 5 &&
checkBinding(view, def, 5, v5)) {\n    changed = true;\n    changes = updateProp(view, providerData, def, 5, v5,
changes);\n  }\n  if (bindLen > 6 && checkBinding(view, def, 6, v6)) {\n    changed = true;\n    changes =
updateProp(view, providerData, def, 6, v6, changes);\n  }\n  if (bindLen > 7 && checkBinding(view, def, 7, v7))
{\n    changed = true;\n    changes = updateProp(view, providerData, def, 7, v7, changes);\n  }\n  if (bindLen
> 8 && checkBinding(view, def, 8, v8)) {\n    changed = true;\n    changes = updateProp(view, providerData,
def, 8, v8, changes);\n  }\n  if (bindLen > 9 && checkBinding(view, def, 9, v9)) {\n    changed = true;\n
changes = updateProp(view, providerData, def, 9, v9, changes);\n  }\n  if (changes) {\n
directive.ngOnChanges(changes);\n  }\n  if ((def.flags & 65536 /* OnInit */) &&\n
shouldCallLifecycleInitHook(view, 256 /* InitState_CallingOnInit */, def.nodeIndex)) {\n
directive.ngOnInit();\n  }\n  if (def.flags & 262144 /* DoCheck */) {\n    directive.ngDoCheck();\n  }\n
return changed;\n}\n\n/**\n * @param {?} view\n * @param {?} def\n * @param {?} values\n * @return {?} */\n
*\nfunction checkAndUpdateDirectiveDynamic(view, def, values) {\n  var /** @type {?} */ providerData =
asProviderData(view, def.nodeIndex);\n  var /** @type {?} */ directive = providerData.instance;\n  var /**
@type {?} */ changed = false;\n  var /** @type {?} */ changes = /** @type {?} */ ((undefined));\n  for (var /**
@type {?} */ i = 0; i < values.length; i++) {\n    if (checkBinding(view, def, i, values[i])) {\n      changed =
true;\n      changes = updateProp(view, providerData, def, i, values[i], changes);\n    }\n  }\n  if (changes)
{\n    directive.ngOnChanges(changes);\n  }\n  if ((def.flags & 65536 /* OnInit */) &&\n
shouldCallLifecycleInitHook(view, 256 /* InitState_CallingOnInit */, def.nodeIndex)) {\n
directive.ngOnInit();\n  }\n  if (def.flags & 262144 /* DoCheck */) {\n    directive.ngDoCheck();\n  }\n
return changed;\n}\n\n/**\n * @param {?} view\n * @param {?} def\n * @return {?} */\n
*\nfunction
_createProviderInstance(view, def) {\n  // private services can see other private services\n  var /** @type {?} */
allowPrivateServices = (def.flags & 8192 /* PrivateProvider */) > 0;\n  var /** @type {?} */ providerDef =
def.provider;\n  switch (def.flags & 201347067 /* Types */) {\n    case 512 /* TypeClassProvider */:\n
return createClass(view, /** @type {?} */ ((def.parent)), allowPrivateServices, /** @type {?} */
((providerDef)).value, /** @type {?} */ ((providerDef)).deps);\n    case 1024 /* TypeFactoryProvider */:\n
return callFactory(view, /** @type {?} */ ((def.parent)), allowPrivateServices, /** @type {?} */
((providerDef)).value, /** @type {?} */ ((providerDef)).deps);\n    case 2048 /* TypeUseExistingProvider */:\n
return resolveDep(view, /** @type {?} */ ((def.parent)), allowPrivateServices, /** @type {?} */
((providerDef)).deps[0]);\n    case 256 /* TypeValueProvider */:\n      return /** @type {?} */
((providerDef)).value;\n  }\n}\n\n/**\n * @param {?} view\n * @param {?} elDef\n * @param {?}
allowPrivateServices\n * @param {?} ctor\n * @param {?} deps\n * @return {?} */\n
*\nfunction createClass(view, elDef, allowPrivateServices, ctor, deps) {\n  var /** @type {?} */ len = deps.length;\n
switch (len) {\n    case 0:\n      return new ctor();\n    case 1:\n      return new ctor(resolveDep(view, elDef, allowPrivateServices,
deps[0]));\n    case 2:\n      return new ctor(resolveDep(view, elDef, allowPrivateServices, deps[0]),
resolveDep(view, elDef, allowPrivateServices, deps[1]));\n    case 3:\n      return new ctor(resolveDep(view,
elDef, allowPrivateServices, deps[0]), resolveDep(view, elDef, allowPrivateServices, deps[1]), resolveDep(view,
elDef, allowPrivateServices, deps[2]));\n    default:\n      var /** @type {?} */ depValues = new Array(len);\n
for (var /** @type {?} */ i = 0; i < len; i++) {\n        depValues[i] = resolveDep(view, elDef,

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allowPrivateServices, deps[i]);\n      }\n      return new (ctor.bind.apply(ctor, [void
0].concat(depValues)))();\n    }\n\n    /**\n * @param {?} view\n * @param {?} elDef\n * @param {?}
allowPrivateServices\n * @param {?} factory\n * @param {?} deps\n * @return {?}\n */\nfunction
callFactory(view, elDef, allowPrivateServices, factory, deps) {\n  var /** @type {?} */ len = deps.length;\n
switch (len) {\n  case 0:\n    return factory();\n  case 1:\n    return factory(resolveDep(view, elDef,
allowPrivateServices, deps[0]));\n  case 2:\n    return factory(resolveDep(view, elDef, allowPrivateServices,
deps[0]), resolveDep(view, elDef, allowPrivateServices, deps[1]));\n  case 3:\n    return
factory(resolveDep(view, elDef, allowPrivateServices, deps[0]), resolveDep(view, elDef, allowPrivateServices,
deps[1]), resolveDep(view, elDef, allowPrivateServices, deps[2]));\n  default:\n    var /** @type {?} */
depValues = Array(len);\n    for (var /** @type {?} */ i = 0; i < len; i++) {\n      depValues[i] =
resolveDep(view, elDef, allowPrivateServices, deps[i]);\n    }\n    return factory.apply(void 0,
depValues);\n  }\n}\n\n// This default value is when checking the hierarchy for a token.\n// It means both:\n// - the
token is not provided by the current injector,\n// - only the element injectors should be checked (ie do not check
module injectors\n//\n// mod1\n//\n// el1 mod2\n//\n// el2\n//\n// When requesting
el2.injector.get(token), we should check in the following order and return the\n// first found value:\n// -
el2.injector.get(token, default)\n// - el1.injector.get(token,
NOT_FOUND_CHECK_ONLY_ELEMENT_INJECTOR) -> do not check the module\n// -
mod2.injector.get(token, default)\n\nvar NOT_FOUND_CHECK_ONLY_ELEMENT_INJECTOR = {};\n\n/**\n *
@param {?} view\n * @param {?} elDef\n * @param {?} allowPrivateServices\n * @param {?} depDef\n *
@param {?=} notFoundValue\n * @return {?}\n */\nfunction resolveDep(view, elDef, allowPrivateServices,
depDef, notFoundValue) {\n  if (notFoundValue === void 0) { notFoundValue =
Injector.THROW_IF_NOT_FOUND; }\n  if (depDef.flags & 8 /* Value */) {\n    return depDef.token;\n  }\n
var /** @type {?} */ startView = view;\n  if (depDef.flags & 2 /* Optional */) {\n    notFoundValue = null;\n
}\n  var /** @type {?} */ tokenKey$$1 = depDef.tokenKey;\n  if (tokenKey$$1 ===
ChangeDetectorRefTokenKey) {\n    // directives on the same element as a component should be able to control
the change detector\n    // of that component as well.\n    allowPrivateServices = !(elDef && /** @type {?} */
((elDef.element)).componentView);\n  }\n  if (elDef && (depDef.flags & 1 /* SkipSelf */) ) {\n
allowPrivateServices = false;\n    elDef = /** @type {?} */ ((elDef.parent));\n  }\n  while (view) {\n    if
(elDef) {\n      switch (tokenKey$$1) {\n        case RendererV1TokenKey: {\n          var /** @type
{?} */ compView = findCompView(view, elDef, allowPrivateServices);\n          return
createRendererV1(compView);\n        }\n        case Renderer2TokenKey: {\n          var /** @type
{?} */ compView = findCompView(view, elDef, allowPrivateServices);\n          return compView.renderer;\n
        }\n        case ElementRefTokenKey:\n          return new ElementRef(asElementData(view,
elDef.nodeType).renderElement);\n        case ViewContainerRefTokenKey:\n          return
asElementData(view, elDef.nodeType).viewContainer;\n        case TemplateRefTokenKey: {\n          if
(/** @type {?} */ ((elDef.element)).template) {\n            return asElementData(view,
elDef.nodeType).template;\n          }\n          break;\n        }\n        case
ChangeDetectorRefTokenKey: {\n          var /** @type {?} */ cdView = findCompView(view, elDef,
allowPrivateServices);\n          return createChangeDetectorRef(cdView);\n        }\n        case
InjectorRefTokenKey:\n          return createInjector(view, elDef);\n        default:\n          var /**
@type {?} */ providerDef_1 = /** @type {?} */ (((allowPrivateServices ? /** @type {?} */
((elDef.element)).allProviders : /** @type {?} */ ((elDef.element)).publicProviders)))[tokenKey$$1];\n
if (providerDef_1) {\n          var /** @type {?} */ providerData = asProviderData(view,
providerDef_1.nodeType);\n          if (!providerData) {\n            providerData = { instance:
_createProviderInstance(view, providerDef_1) };\n            view.nodes[providerDef_1.nodeType] = /**
@type {?} */ (providerData);\n          }\n          return providerData.instance;\n        }\n      }\n
}\n    allowPrivateServices = isComponentView(view);\n    elDef = /** @type {?} */
((viewParentEl(view)));\n    view = /** @type {?} */ ((view.parent));\n  }\n  var /** @type {?} */ value =

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startView.root.injector.get(depDef.token, NOT_FOUND_CHECK_ONLY_ELEMENT_INJECTOR);\n  if (value
!== NOT_FOUND_CHECK_ONLY_ELEMENT_INJECTOR ||\n    notFoundValue ===
NOT_FOUND_CHECK_ONLY_ELEMENT_INJECTOR) {\n    // Return the value from the root element
injector when\n    // - it provides it\n    // (value !==
NOT_FOUND_CHECK_ONLY_ELEMENT_INJECTOR)\n    // - the module injector should not be checked\n
// (notFoundValue === NOT_FOUND_CHECK_ONLY_ELEMENT_INJECTOR)\n    return value;\n  }\n
return startView.root.ngModule.injector.get(depDef.token, notFoundValue);\n}\n\n/**\n * @param {?} view\n *
@param {?} elDef\n * @param {?} allowPrivateServices\n * @return {?}\n */\nfunction findCompView(view,
elDef, allowPrivateServices) {\n  var /** @type {?} */ compView;\n  if (allowPrivateServices) {\n
compView = asElementData(view, elDef.nodeIndex).componentView;\n  }\n  else {\n    compView = view;\n
while (compView.parent && !isComponentView(compView)) {\n    compView = compView.parent;\n
}\n  }\n  return compView;\n}\n\n/**\n * @param {?} view\n * @param {?} providerData\n * @param {?} def\n *
@param {?} bindingIdx\n * @param {?} value\n * @param {?} changes\n * @return {?}\n */\nfunction
updateProp(view, providerData, def, bindingIdx, value, changes) {\n  if (def.flags & 32768 /* Component */) {\n
var /** @type {?} */ compView = asElementData(view, /** @type {?} */
((def.parent)).nodeIndex).componentView;\n    if (compView.def.flags & 2 /* OnPush */) {\n
compView.state |= 8 /* ChecksEnabled */;\n    }\n  }\n  var /** @type {?} */ binding =
def.bindings[bindingIdx];\n  var /** @type {?} */ propName = /** @type {?} */ ((binding.name));\n  // Note:
This is still safe with Closure Compiler as\n  // the user passed in the property name as an object has to
`providerDef`,\n  // so Closure Compiler will have renamed the property correctly already.\n
providerData.instance[propName] = value;\n  if (def.flags & 524288 /* OnChanges */) {\n    changes = changes
|| {};\n    var /** @type {?} */ oldValue = WrappedValue.unwrap(view.oldValues[def.bindingIndex +
bindingIdx]);\n    var /** @type {?} */ binding_1 = def.bindings[bindingIdx];\n    changes[/** @type {?} */
((binding_1.nonMinifiedName))] =\n      new SimpleChange(oldValue, value, (view.state & 2 /* FirstCheck */)
!== 0);\n  }\n  view.oldValues[def.bindingIndex + bindingIdx] = value;\n  return changes;\n}\n\n/**\n * @param
 {?} view\n * @param {?} lifecycles\n * @return {?}\n */\nfunction callLifecycleHooksChildrenFirst(view,
lifecycles) {\n  if (!(view.def.nodeFlags & lifecycles)) {\n    return;\n  }\n  var /** @type {?} */ nodes =
view.def.nodes;\n  var /** @type {?} */ initIndex = 0;\n  for (var /** @type {?} */ i = 0; i < nodes.length; i++)
{\n    var /** @type {?} */ nodeDef = nodes[i];\n    var /** @type {?} */ parent_1 = nodeDef.parent;\n    if
(!parent_1 && nodeDef.flags & lifecycles) {\n      // matching root node (e.g. a pipe)\n
callProviderLifecycles(view, i, nodeDef.flags & lifecycles, initIndex++);\n    }\n    if ((nodeDef.childFlags &
lifecycles) === 0) {\n      // no child matches one of the lifecycles\n      i += nodeDef.childCount;\n    }\n
while (parent_1 && (parent_1.flags & 1 /* TypeElement */) &&\n      i === parent_1.nodeIndex +
parent_1.childCount) {\n      // last child of an element\n      if (parent_1.directChildFlags & lifecycles) {\n
initIndex = callElementProvidersLifecycles(view, parent_1, lifecycles, initIndex);\n      }\n      parent_1
= parent_1.parent;\n    }\n  }\n}\n\n/**\n * @param {?} view\n * @param {?} elDef\n * @param {?} lifecycles\n *
@param {?} initIndex\n * @return {?}\n */\nfunction callElementProvidersLifecycles(view, elDef, lifecycles,
initIndex) {\n  for (var /** @type {?} */ i = elDef.nodeIndex + 1; i <= elDef.nodeIndex + elDef.childCount; i++)
{\n    var /** @type {?} */ nodeDef = view.def.nodes[i];\n    if (nodeDef.flags & lifecycles) {\n
callProviderLifecycles(view, i, nodeDef.flags & lifecycles, initIndex++);\n    }\n    // only visit direct children\n
i += nodeDef.childCount;\n  }\n  return initIndex;\n}\n\n/**\n * @param {?} view\n * @param {?} index\n *
@param {?} lifecycles\n * @param {?} initIndex\n * @return {?}\n */\nfunction callProviderLifecycles(view,
index, lifecycles, initIndex) {\n  var /** @type {?} */ providerData = asProviderData(view, index);\n  if
(!providerData) {\n    return;\n  }\n  var /** @type {?} */ provider = providerData.instance;\n  if (!provider)
{\n    return;\n  }\n  Services.setCurrentNode(view, index);\n  if (lifecycles & 1048576 /* AfterContentInit */
&&\n    shouldCallLifecycleInitHook(view, 512 /* initState_CallingAfterContentInit */, initIndex)) {\n
provider.ngAfterContentInit();\n  }\n  if (lifecycles & 2097152 /* AfterContentChecked */) {\n
provider.ngAfterContentChecked();\n  }\n  if (lifecycles & 4194304 /* AfterViewInit */ &&\n

```



```

* @param {?} values\n * @return {?}\n *\nfunction calcQueryValues(view, startIndex, endIndex, queryDef,
values) {\n  for (var /** @type {?} */ i = startIndex; i <= endIndex; i++) {\n    var /** @type {?} */ nodeDef =
view.def.nodes[i];\n    var /** @type {?} */ valueType = nodeDef.matchedQueries[queryDef.id];\n    if
(valueType != null) {\n      values.push(getQueryValue(view, nodeDef, valueType));\n    }\n    if
(nodeDef.flags & 1 /* TypeElement */ && /** @type {?} */ ((nodeDef.element)).template &&\n      (** @type
{?} */ ((/** @type {?} */ ((nodeDef.element)).template)).nodeMatchedQueries & queryDef.filterId) ===\n      queryDef.filterId) {\n      var /** @type {?} */ elementData = asElementData(view, i);\n      // check
embedded views that were attached at the place of their template,\n      // but process child nodes first if some
match the query (see issue #16568)\n      if ((nodeDef.childMatchedQueries & queryDef.filterId) ===
queryDef.filterId) {\n        calcQueryValues(view, i + 1, i + nodeDef.childCount, queryDef, values);\n      }\n      i += nodeDef.childCount;\n    }\n    if (nodeDef.flags & 16777216 /* EmbeddedViews */) {\n      var
/** @type {?} */ embeddedViews = /** @type {?} */ ((elementData.viewContainer)._embeddedViews);\n      for (var /** @type {?} */ k = 0; k < embeddedViews.length; k++) {\n        var /** @type {?} */
embeddedView = embeddedViews[k];\n        var /** @type {?} */ dvc =
declaredViewContainer(embeddedView);\n        if (dvc && dvc === elementData) {\n          calcQueryValues(embeddedView, 0, embeddedView.def.nodes.length - 1, queryDef, values);\n        }\n      }\n      var /** @type {?} */ projectedViews = elementData.template._projectedViews;\n      if
(projectedViews) {\n        for (var /** @type {?} */ k = 0; k < projectedViews.length; k++) {\n          var
/** @type {?} */ projectedView = projectedViews[k];\n          calcQueryValues(projectedView, 0,
projectedView.def.nodes.length - 1, queryDef, values);\n        }\n      }\n      if
((nodeDef.childMatchedQueries & queryDef.filterId) !== queryDef.filterId) {\n        // if no child matches the
query, skip the children.\n        i += nodeDef.childCount;\n      }\n    }\n    return values;\n  }\n}\n\n/**\n * @param {?} view\n * @param {?} nodeDef\n * @param {?} queryValueType\n * @return {?}\n *\nfunction
getQueryValue(view, nodeDef, queryValueType) {\n  if (queryValueType != null) {\n    // a match\n    switch
(queryValueType) {\n      case 1 /* RenderElement */:\n        return asElementData(view,
nodeDef.nodeIndex).renderElement;\n      case 0 /* ElementRef */:\n        return new
ElementRef(asElementData(view, nodeDef.nodeIndex).renderElement);\n      case 2 /* TemplateRef */:\n        return asElementData(view, nodeDef.nodeIndex).template;\n      case 3 /* ViewContainerRef */:\n        return asElementData(view, nodeDef.nodeIndex).viewContainer;\n      case 4 /* Provider */:\n        return
asProviderData(view, nodeDef.nodeIndex).instance;\n    }\n  }\n}\n\n/**\n * @fileoverview added by tsickle\n *
@suppress {checkTypes} checked by tsc\n *\n/**\n * @license\n * Copyright Google Inc. All Rights Reserved.\n
*\n * Use of this source code is governed by an MIT-style license that can be\n * found in the LICENSE file at
https://angular.io/license\n *\n * @param {?} ngContentIndex\n * @param {?} index\n * @return {?}\n
*\nfunction ngContentDef(ngContentIndex, index) {\n  return {\n    // will be set by the view definition\n    nodeIndex: -1,\n    parent: null,\n    renderParent: null,\n    bindingIndex: -1,\n    outputIndex: -1,\n    //
regular values\n    checkIndex: -1,\n    flags: 8 /* TypeNgContent */,\n    childFlags: 0,\n    directChildFlags: 0,\n    childMatchedQueries: 0,\n    matchedQueries: {},\n    matchedQueryIds: 0,\n    references: {},\n    ngContentIndex: ngContentIndex,\n    childCount: 0,\n    bindings: [],\n    bindingFlags: 0,\n    outputs: [],\n    element: null,\n    provider: null,\n    text: null,\n    query: null,\n    ngContent: { index:
index }\n  };\n}\n\n/**\n * @param {?} view\n * @param {?} renderHost\n * @param {?} def\n * @return {?}\n
*\nfunction appendNgContent(view, renderHost, def) {\n  var /** @type {?} */ parentEl =
getParentRenderElement(view, renderHost, def);\n  if (!parentEl) {\n    // Nothing to do if there is no parent
element.\n    return;\n  }\n  var /** @type {?} */ ngContentIndex = /** @type {?} */ ((def.ngContent)).index;\n  visitProjectedRenderNodes(view, ngContentIndex, 1 /* AppendChild */, parentEl, null, undefined);\n}\n\n/**\n *
@fileoverview added by tsickle\n * @suppress {checkTypes} checked by tsc\n *\n/**\n * @license\n * Copyright
Google Inc. All Rights Reserved.\n *\n * Use of this source code is governed by an MIT-style license that can be\n *
found in the LICENSE file at https://angular.io/license\n *\n * @param {?} checkIndex\n * @param {?}
argCount\n * @return {?}\n *\nfunction purePipeDef(checkIndex, argCount) {\n  // argCount + 1 to include the

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pipe as first arg\n  return _pureExpressionDef(128 /* TypePurePipe */, checkIndex, new Array(argCount +
1));\n}\n\n/**\n * @param {?} checkIndex\n * @param {?} argCount\n * @return {?}\n */\n\nfunction
pureArrayDef(checkIndex, argCount) {\n  return _pureExpressionDef(32 /* TypePureArray */, checkIndex, new
Array(argCount));\n}\n\n/**\n * @param {?} checkIndex\n * @param {?} propToIndex\n * @return {?}\n
*/\n\nfunction pureObjectDef(checkIndex, propToIndex) {\n  var /** @type {?} */ keys =
Object.keys(propToIndex);\n  var /** @type {?} */ nbKeys = keys.length;\n  var /** @type {?} */
propertyNames = new Array(nbKeys);\n  for (var /** @type {?} */ i = 0; i < nbKeys; i++) {\n    var /** @type
{?} */ key = keys[i];\n    var /** @type {?} */ index = propToIndex[key];\n    propertyNames[index] = key;\n
}\n  return _pureExpressionDef(64 /* TypePureObject */, checkIndex, propertyNames);\n}\n\n/**\n * @param {?}
flags\n * @param {?} checkIndex\n * @param {?} propertyNames\n * @return {?}\n */\n\nfunction
_pureExpressionDef(flags, checkIndex, propertyNames) {\n  var /** @type {?} */ bindings = new
Array(propertyNames.length);\n  for (var /** @type {?} */ i = 0; i < propertyNames.length; i++) {\n    var /**
@type {?} */ prop = propertyNames[i];\n    bindings[i] = {\n      flags: 8 /* TypeProperty */,\n      name:
prop,\n      ns: null,\n      nonMinifiedName: prop,\n      securityContext: null,\n      suffix: null\n
};\n  }\n  return {\n    // will bet set by the view definition\n    nodeIndex: -1,\n    parent: null,\n
renderParent: null,\n    bindingIndex: -1,\n    outputIndex: -1,\n    // regular values\n    checkIndex:
checkIndex,\n    flags: flags,\n    childFlags: 0,\n    directChildFlags: 0,\n    childMatchedQueries: 0,\n
matchedQueries: {},\n    matchedQueryIds: 0,\n    references: {},\n    ngContentIndex: -1,\n    childCount:
0,\n    bindings: bindings,\n    bindingFlags: calcBindingFlags(bindings),\n    outputs: [],\n    element: null,\n
provider: null,\n    text: null,\n    query: null,\n    ngContent: null\n  };}\n\n/**\n * @param {?} view\n *
@param {?} def\n * @return {?}\n */\n\nfunction createPureExpression(view, def) {\n  return { value: undefined
};}\n\n/**\n * @param {?} view\n * @param {?} def\n * @param {?} v0\n * @param {?} v1\n * @param {?} v2\n
* @param {?} v3\n * @param {?} v4\n * @param {?} v5\n * @param {?} v6\n * @param {?} v7\n * @param {?}
v8\n * @param {?} v9\n * @return {?}\n */\n\nfunction checkAndUpdatePureExpressionInline(view, def, v0, v1, v2,
v3, v4, v5, v6, v7, v8, v9) {\n  var /** @type {?} */ bindings = def.bindings;\n  var /** @type {?} */ changed =
false;\n  var /** @type {?} */ bindLen = bindings.length;\n  if (bindLen > 0 && checkAndUpdateBinding(view,
def, 0, v0))\n    changed = true;\n  if (bindLen > 1 && checkAndUpdateBinding(view, def, 1, v1))\n
changed = true;\n  if (bindLen > 2 && checkAndUpdateBinding(view, def, 2, v2))\n    changed = true;\n  if
(bindLen > 3 && checkAndUpdateBinding(view, def, 3, v3))\n    changed = true;\n  if (bindLen > 4 &&
checkAndUpdateBinding(view, def, 4, v4))\n    changed = true;\n  if (bindLen > 5 &&
checkAndUpdateBinding(view, def, 5, v5))\n    changed = true;\n  if (bindLen > 6 &&
checkAndUpdateBinding(view, def, 6, v6))\n    changed = true;\n  if (bindLen > 7 &&
checkAndUpdateBinding(view, def, 7, v7))\n    changed = true;\n  if (bindLen > 8 &&
checkAndUpdateBinding(view, def, 8, v8))\n    changed = true;\n  if (bindLen > 9 &&
checkAndUpdateBinding(view, def, 9, v9))\n    changed = true;\n  if (changed) {\n    var /** @type {?} */
data = asPureExpressionData(view, def.nodeIndex);\n    var /** @type {?} */ value = void 0;\n    switch
(def.flags & 201347067 /* Types */) {\n      case 32 /* TypePureArray */:\n        value = new
Array(bindings.length);\n        if (bindLen > 0)\n          value[0] = v0;\n        if (bindLen > 1)\n
          value[1] = v1;\n        if (bindLen > 2)\n          value[2] = v2;\n        if (bindLen > 3)\n
          value[3] = v3;\n        if (bindLen > 4)\n          value[4] = v4;\n        if (bindLen > 5)\n
          value[5] = v5;\n        if (bindLen > 6)\n          value[6] = v6;\n        if (bindLen > 7)\n
          value[7] = v7;\n        if (bindLen > 8)\n          value[8] = v8;\n        if (bindLen > 9)\n
          value[9] = v9;\n        break;\n      case 64 /* TypePureObject */:\n        value = {};\n        if
(bindLen > 0)\n          value[/** @type {?} */ ((bindings[0].name))] = v0;\n        if (bindLen > 1)\n
          value[/** @type {?} */ ((bindings[1].name))] = v1;\n        if (bindLen > 2)\n          value[/** @type
{?} */ ((bindings[2].name))] = v2;\n        if (bindLen > 3)\n          value[/** @type {?} */
((bindings[3].name))] = v3;\n        if (bindLen > 4)\n          value[/** @type {?} */ ((bindings[4].name))]
= v4;\n        if (bindLen > 5)\n          value[/** @type {?} */ ((bindings[5].name))] = v5;\n        if

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= def.bindings;\n  var /** @type {?} */ bindLen = bindings.length;\n  if (bindLen > 0 &&
checkAndUpdateBinding(view, def, 0, v0))\n    changed = true;\n  if (bindLen > 1 &&
checkAndUpdateBinding(view, def, 1, v1))\n    changed = true;\n  if (bindLen > 2 &&
checkAndUpdateBinding(view, def, 2, v2))\n    changed = true;\n  if (bindLen > 3 &&
checkAndUpdateBinding(view, def, 3, v3))\n    changed = true;\n  if (bindLen > 4 &&
checkAndUpdateBinding(view, def, 4, v4))\n    changed = true;\n  if (bindLen > 5 &&
checkAndUpdateBinding(view, def, 5, v5))\n    changed = true;\n  if (bindLen > 6 &&
checkAndUpdateBinding(view, def, 6, v6))\n    changed = true;\n  if (bindLen > 7 &&
checkAndUpdateBinding(view, def, 7, v7))\n    changed = true;\n  if (bindLen > 8 &&
checkAndUpdateBinding(view, def, 8, v8))\n    changed = true;\n  if (bindLen > 9 &&
checkAndUpdateBinding(view, def, 9, v9))\n    changed = true;\n  if (changed) {\n    var /** @type {?} */
value = /** @type {?} */ ((def.text)).prefix;\n    if (bindLen > 0)\n      value += _addInterpolationPart(v0,
bindings[0]);\n    if (bindLen > 1)\n      value += _addInterpolationPart(v1, bindings[1]);\n    if (bindLen >
2)\n      value += _addInterpolationPart(v2, bindings[2]);\n    if (bindLen > 3)\n      value +=
_addInterpolationPart(v3, bindings[3]);\n    if (bindLen > 4)\n      value += _addInterpolationPart(v4,
bindings[4]);\n    if (bindLen > 5)\n      value += _addInterpolationPart(v5, bindings[5]);\n    if (bindLen >
6)\n      value += _addInterpolationPart(v6, bindings[6]);\n    if (bindLen > 7)\n      value +=
_addInterpolationPart(v7, bindings[7]);\n    if (bindLen > 8)\n      value += _addInterpolationPart(v8,
bindings[8]);\n    if (bindLen > 9)\n      value += _addInterpolationPart(v9, bindings[9]);\n    var /** @type
{?} */ renderNode$$1 = asTextData(view, def.nodeIndex).renderText;\n    view.rendererer.setValue(renderNode$$1, value);\n  }\n  return changed;\n}\n\n/**\n * @param {?} view\n *
@param {?} def\n * @param {?} values\n * @return {?} */\n\nfunction checkAndUpdateTextDynamic(view, def,
values) {\n  var /** @type {?} */ bindings = def.bindings;\n  var /** @type {?} */ changed = false;\n  for (var
/** @type {?} */ i = 0; i < values.length; i++) {\n    // Note: We need to loop over all values, so that\n    // the
old values are updates as well!\n    if (checkAndUpdateBinding(view, def, i, values[i])) {\n      changed =
true;\n    }\n  }\n  if (changed) {\n    var /** @type {?} */ value = "";\n    for (var /** @type {?} */ i = 0; i <
values.length; i++) {\n      value = value + _addInterpolationPart(values[i], bindings[i]);\n    }\n    value =
/** @type {?} */ ((def.text)).prefix + value;\n    var /** @type {?} */ renderNode$$1 = asTextData(view,
def.nodeIndex).renderText;\n    view.rendererer.setValue(renderNode$$1, value);\n  }\n  return
changed;\n}\n\n/**\n * @param {?} value\n * @param {?} binding\n * @return {?} */\n\nfunction
_addInterpolationPart(value, binding) {\n  var /** @type {?} */ valueStr = value != null ? value.toString() : "";\n  return valueStr + binding.suffix;\n}\n\n/**\n * @fileoverview added by tsickle\n * @suppress {checkTypes}
checked by tsc\n * \n * @license\n * Copyright Google Inc. All Rights Reserved.\n * \n * Use of this source
code is governed by an MIT-style license that can be\n * found in the LICENSE file at https://angular.io/license\n *
*\n * @param {?} flags\n * @param {?} nodes\n * @param {?=} updateDirectives\n * @param {?=}
updateRenderer\n * @return {?} */\n\nfunction viewDef(flags, nodes, updateDirectives, updateRenderer) {\n  //
clone nodes and set auto calculated values\n  var /** @type {?} */ viewBindingCount = 0;\n  var /** @type {?} */
viewDisposableCount = 0;\n  var /** @type {?} */ viewNodeFlags = 0;\n  var /** @type {?} */
viewRootNodeFlags = 0;\n  var /** @type {?} */ viewMatchedQueries = 0;\n  var /** @type {?} */ currentParent
= null;\n  var /** @type {?} */ currentRenderParent = null;\n  var /** @type {?} */
currentElementHasPublicProviders = false;\n  var /** @type {?} */ currentElementHasPrivateProviders = false;\n  var
/** @type {?} */ lastRenderRootNode = null;\n  for (var /** @type {?} */ i = 0; i < nodes.length; i++) {\n
var /** @type {?} */ node = nodes[i];\n    node.nodeIndex = i;\n    node.parent = currentParent;\n    node.bindingIndex = viewBindingCount;\n    node.outputIndex = viewDisposableCount;\n    node.renderParent =
currentRenderParent;\n    viewNodeFlags |= node.flags;\n    viewMatchedQueries |=
node.matchedQueryIds;\n    if (node.element) {\n      var /** @type {?} */ elDef = node.element;\n      elDef.publicProviders =\n        currentParent ? /** @type {?} */ ((currentParent.element)).publicProviders :
Object.create(null);\n      elDef.allProviders = elDef.publicProviders;\n      // Note: We assume that all

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providers of an element are before any child element!\n      currentElementHasPublicProviders = false;\n
currentElementHasPrivateProviders = false;\n      if (node.element.template) {\n      viewMatchedQueries
|= node.element.template.nodeMatchedQueries;\n      }\n      }\n      validateNode(currentParent, node,
nodes.length);\n      viewBindingCount += node.bindings.length;\n      viewDisposableCount +=
node.outputs.length;\n      if (!currentRenderParent && (node.flags & 3 /* CatRenderNode */) ) {\n
lastRenderRootNode = node;\n      }\n      if (node.flags & 20224 /* CatProvider */) {\n      if
(!currentElementHasPublicProviders) {\n      currentElementHasPublicProviders = true; /** @type {?} *\n
      ((/** @type {?} */ ((currentParent)).element)).publicProviders = Object.create(/** @type {?} */ ((/** @type
{?} */ ((currentParent)).element)).publicProviders); /** @type {?} *\n      ((/** @type {?} */
((currentParent)).element)).allProviders = /** @type {?} */ ((/** @type {?} */
((currentParent)).element)).publicProviders;\n      }\n      var /** @type {?} */ isPrivateService = (node.flags
& 8192 /* PrivateProvider */) !== 0;\n      var /** @type {?} */ isComponent = (node.flags & 32768 /*
Component */) !== 0;\n      if (!isPrivateService || isComponent) {\n      /** @type {?} */ ((/** @type {?}
*/ ((/** @type {?} */ ((currentParent)).element)).publicProviders))[tokenKey(/** @type {?} */
((node.provider)).token)] = node;\n      }\n      else {\n      if (!currentElementHasPrivateProviders) {\n
      currentElementHasPrivateProviders = true; /** @type {?} *\n      ((/** @type {?} */
((currentParent)).element)).allProviders = Object.create(/** @type {?} */ ((/** @type {?} */
((currentParent)).element)).publicProviders);\n      } /** @type {?} *\n      ((/** @type {?} */ ((/**
@type {?} */ ((currentParent)).element)).allProviders))[tokenKey(/** @type {?} */ ((node.provider)).token)] =
node;\n      }\n      if (isComponent) {\n      /** @type {?} */ ((/** @type {?} */
((currentParent)).element)).componentProvider = node;\n      }\n      }\n      if (currentParent) {\n
currentParent.childFlags |= node.flags;\n      currentParent.directChildFlags |= node.flags;\n
currentParent.childMatchedQueries |= node.matchedQueryIds;\n      if (node.element &&
node.element.template) {\n      currentParent.childMatchedQueries |=
node.element.template.nodeMatchedQueries;\n      }\n      }\n      else {\n      viewRootNodeFlags |=
node.flags;\n      }\n      if (node.childCount > 0) {\n      currentParent = node;\n      if
(!isNgContainer(node)) {\n      currentRenderParent = node;\n      }\n      }\n      else {\n      // When
the current node has no children, check if it is the last children of its parent.\n      // When it is, propagate the
flags up.\n      // The loop is required because an element could be the last transitive children of several\n
// elements. We loop to either the root or the highest opened element (= with remaining\n      // children)\n
while (currentParent && i === currentParent.nodeIndex + currentParent.childCount) {\n      var /** @type
{?} */ newParent = currentParent.parent;\n      if (newParent) {\n      newParent.childFlags |=
currentParent.childFlags;\n      newParent.childMatchedQueries |= currentParent.childMatchedQueries;\n
      }\n      currentParent = newParent;\n      // We also need to update the render parent & account for
ng-container\n      if (currentParent && isNgContainer(currentParent)) {\n      currentRenderParent =
currentParent.renderParent;\n      }\n      else {\n      currentRenderParent = currentParent;\n
      }\n      }\n      }\n      }\n      var /** @type {?} */ handleEvent = function (view, nodeIndex, eventName,
event) { return ((/** @type {?} */ ((nodes[nodeIndex].element)).handleEvent))(view, eventName, event); };\n
return {\n      // Will be filled later...\n      factory: null,\n      nodeFlags: viewNodeFlags,\n      rootNodeFlags:
viewRootNodeFlags,\n      nodeMatchedQueries: viewMatchedQueries, flags: flags,\n      nodes: nodes,\n
updateDirectives: updateDirectives || NOOP,\n      updateRenderer: updateRenderer || NOOP, handleEvent:
handleEvent,\n      bindingCount: viewBindingCount,\n      outputCount: viewDisposableCount,
lastRenderRootNode: lastRenderRootNode\n      };\n      }\n      /**\n      * @param {?} node\n      * @return {?} *\n      */\n
function isNgContainer(node) {\n      return (node.flags & 1 /* TypeElement */) !== 0 && /** @type {?} */
((node.element)).name === null;\n      }\n      /**\n      * @param {?} parent\n      * @param {?} node\n      * @param {?}
nodeCount\n      * @return {?} *\n      */\n
function validateNode(parent, node, nodeCount) {\n      var /** @type {?} */
template = node.element && node.element.template;\n      if (template) {\n      if (!template.lastRenderRootNode)
{\n      throw new Error("\Illegal State: Embedded templates without nodes are not allowed!");\n      }\n      if

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(template.lastRenderRootNode &&\n      template.lastRenderRootNode.flags & 16777216 /* EmbeddedViews
*/) {\n      throw new Error("\Illegal State: Last root node of a template can't have embedded views, at index \" +
node.nodeTypeIndex + \"!\");\n    }\n  }\n  if (node.flags & 20224 /* CatProvider */) {\n    var /** @type {?} */
parentFlags = parent ? parent.flags : 0;\n    if ((parentFlags & 1 /* TypeElement */) === 0) {\n      throw new
Error("\Illegal State: StaticProvider/Directive nodes need to be children of elements or anchors, at index \" +
node.nodeTypeIndex + \"!\");\n    }\n  }\n  if (node.query) {\n    if (node.flags & 67108864 /* TypeContentQuery
*/ &&\n      (!parent || (parent.flags & 16384 /* TypeDirective */) === 0)) {\n      throw new Error("\Illegal
State: Content Query nodes need to be children of directives, at index \" + node.nodeTypeIndex + \"!\");\n    }\n    if
(node.flags & 134217728 /* TypeViewQuery */ && parent) {\n      throw new Error("\Illegal State: View Query
nodes have to be top level nodes, at index \" + node.nodeTypeIndex + \"!\");\n    }\n  }\n  if (node.childCount) {\n
var /** @type {?} */ parentEnd = parent ? parent.nodeTypeIndex + parent.childCount : nodeCount - 1;\n    if
(node.nodeTypeIndex <= parentEnd && node.nodeTypeIndex + node.childCount > parentEnd) {\n      throw new
Error("\Illegal State: childCount of node leads outside of parent, at index \" + node.nodeTypeIndex + \"!\");\n    }\n
}\n}\n\n/**\n * @param {?} parent\n * @param {?} anchorDef\n * @param {?} viewDef\n * @param {?=} context\n * @return {?}\n */\nfunction createEmbeddedView(parent, anchorDef$$1, viewDef, context) {\n // embedded
views are seen as siblings to the anchor, so we need\n // to get the parent of the anchor and use it as parentIndex.\n
var /** @type {?} */ view = createView(parent.root, parent.renderer, parent, anchorDef$$1, viewDef);\n
initView(view, parent.component, context);\n  createViewNodes(view);\n  return view;\n}\n\n/**\n * @param {?}
root\n * @param {?} def\n * @param {?=} context\n * @return {?}\n */\nfunction createRootView(root, def,
context) {\n  var /** @type {?} */ view = createView(root, root.renderer, null, null, def);\n  initView(view,
context, context);\n  createViewNodes(view);\n  return view;\n}\n\n/**\n * @param {?} parentView\n * @param
{?} nodeDef\n * @param {?} viewDef\n * @param {?} hostElement\n * @return {?}\n */\nfunction
createComponentView(parentView, nodeDef, viewDef, hostElement) {\n  var /** @type {?} */ rendererType =
/** @type {?} */ ((nodeDef.element)).componentRendererType;\n  var /** @type {?} */ compRenderer;\n  if
(!rendererType) {\n    compRenderer = parentView.root.renderer;\n  }\n  else {\n    compRenderer =
parentView.root.rendererFactory.createRenderer(hostElement, rendererType);\n  }\n  return
createView(parentView.root, compRenderer, parentView, /** @type {?} */
((nodeDef.element)).componentProvider, viewDef);\n}\n\n/**\n * @param {?} root\n * @param {?} renderer\n *
@param {?} parent\n * @param {?} parentNodeDef\n * @param {?} def\n * @return {?}\n */\nfunction
createView(root, renderer, parent, parentNodeDef, def) {\n  var /** @type {?} */ nodes = new
Array(def.nodes.length);\n  var /** @type {?} */ disposables = def.outputCount ? new Array(def.outputCount) :
null;\n  var /** @type {?} */ view = {\n    def: def,\n    parent: parent,\n    viewContainerParent: null,\n
parentNodeDef: parentNodeDef,\n    context: null,\n    component: null, nodes: nodes,\n    state: 13 /* CatInit
*/,\n    root: root, renderer: renderer,\n    oldValues: new Array(def.bindingCount), disposables: disposables,\n
initIndex: -1\n  };\n  return view;\n}\n\n/**\n * @param {?} view\n * @param {?} component\n * @param {?}
context\n * @return {?}\n */\nfunction initView(view, component, context) {\n  view.component = component;\n
view.context = context;\n}\n\n/**\n * @param {?} view\n * @return {?}\n */\nfunction createViewNodes(view) {\n
var /** @type {?} */ renderHost;\n  if (isComponentView(view)) {\n    var /** @type {?} */ hostDef =
view.parentNodeDef;\n    renderHost = asElementData(/** @type {?} */ ((view.parent)), /** @type {?} */ ((/**
@type {?} */ ((hostDef)).parent)).nodeIndex).renderElement;\n  }\n  var /** @type {?} */ def = view.def;\n  var
/** @type {?} */ nodes = view.nodes;\n  for (var /** @type {?} */ i = 0; i < def.nodes.length; i++) {\n    var /**
@type {?} */ nodeDef = def.nodes[i];\n    Services.setCurrentNode(view, i);\n    var /** @type {?} */
nodeData = void 0;\n    switch (nodeDef.flags & 201347067 /* Types */) {\n      case 1 /* TypeElement */:\n
var /** @type {?} */ el = /** @type {?} */ (createElement(view, renderHost, nodeDef));\n      var /**
@type {?} */ componentView = /** @type {?} */ ((undefined));\n      if (nodeDef.flags & 33554432 /*
ComponentView */) {\n        var /** @type {?} */ compViewDef = resolveDefinition(/** @type {?} */ ((/**
@type {?} */ ((nodeDef.element)).componentView));\n        componentView =
Services.createComponentView(view, nodeDef, compViewDef, el);\n      }\n    }\n  }\n}

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listenToElementOutputs(view, componentView, nodeDef, el);\n        nodeData = /** @type {?} */ ({\n
    renderElement: el,\n        componentView: componentView,\n        viewContainer: null,\n
    template: /** @type {?} */ ((nodeDef.element)).template ? createTemplateData(view, nodeDef) : undefined\n
    });\n        if (nodeDef.flags & 16777216 /* EmbeddedViews */) {\n            nodeData.viewContainer =
createViewContainerData(view, nodeDef, nodeData);\n        }\n        break;\n        case 2 /* TypeText
*/:\n            nodeData = /** @type {?} */ (createText(view, renderHost, nodeDef));\n            break;\n
case 512 /* TypeClassProvider */:\n        case 1024 /* TypeFactoryProvider */:\n        case 2048 /*
TypeUseExistingProvider */:\n        case 256 /* TypeValueProvider */: {\n            nodeData = nodes[i];\n
        if (!nodeData && !(nodeDef.flags & 4096 /* LazyProvider */) {\n                var /** @type {?} */ instance =
createProviderInstance(view, nodeDef);\n                nodeData = /** @type {?} */ ({ instance: instance });\n
            }\n            break;\n        }\n        case 16 /* TypePipe */: {\n            var /** @type {?} */ instance =
createPipeInstance(view, nodeDef);\n            nodeData = /** @type {?} */ ({ instance: instance });\n
        break;\n        }\n        case 16384 /* TypeDirective */: {\n            nodeData = nodes[i];\n            if
(!nodeData) {\n                var /** @type {?} */ instance = createDirectiveInstance(view, nodeDef);\n
                nodeData = /** @type {?} */ ({ instance: instance });\n            }\n            if (nodeDef.flags & 32768 /*
Component */) {\n                var /** @type {?} */ compView = asElementData(view, /** @type {?} */
((nodeDef.parent)).nodeIndex).componentView;\n                initView(compView, nodeData.instance,
nodeData.instance);\n            }\n            break;\n        }\n        case 32 /* TypePureArray */:\n        case
64 /* TypePureObject */:\n        case 128 /* TypePurePipe */:\n            nodeData = /** @type {?} */
(createPureExpression(view, nodeDef));\n            break;\n        case 67108864 /* TypeContentQuery */:\n
case 134217728 /* TypeViewQuery */:\n            nodeData = /** @type {?} */ (createQuery());\n
        break;\n        case 8 /* TypeNgContent */:\n            appendNgContent(view, renderHost, nodeDef);\n
// no runtime data needed for NgContent...\n            nodeData = undefined;\n            break;\n        }\n
nodes[i] = nodeData;\n    }\n    // Create the ViewData.nodes of component views after we created everything else,\n
// so that e.g. ng-content works\n    execComponentViewsAction(view, ViewAction.CreateViewNodes);\n    // fill
static content and view queries\n    execQueriesAction(view, 67108864 /* TypeContentQuery */ | 134217728 /*
TypeViewQuery */ | 268435456 /* StaticQuery */ | 0 /* CheckAndUpdate */);\n}\n\n/** @param {?} view\n *
@return {?} */\nfunction checkNoChangesView(view) {\n    markProjectedViewsForCheck(view);\n
Services.updateDirectives(view, 1 /* CheckNoChanges */);\n    execEmbeddedViewsAction(view,
ViewAction.CheckNoChanges);\n    Services.updateRenderer(view, 1 /* CheckNoChanges */);\n
execComponentViewsAction(view, ViewAction.CheckNoChanges);\n    // Note: We don't check queries for changes
as we didn't do this in v2.x.\n    // TODO(tbosch): investigate if we can enable the check again in v5.x with a nicer
error message.\n    view.state &= ~(64 /* CheckProjectedViews */ | 32 /* CheckProjectedView */);\n}\n\n/**
@param {?} view\n * @return {?} */\nfunction checkAndUpdateView(view) {\n    if (view.state & 1 /*
BeforeFirstCheck */) {\n        view.state &= ~1 /* BeforeFirstCheck */;\n        view.state |= 2 /* FirstCheck */;\n
    }\n    else {\n        view.state &= ~2 /* FirstCheck */;\n    }\n    shiftInitState(view, 0 /* InitState_BeforeInit */, 256
/* InitState_CallingOnInit */);\n    markProjectedViewsForCheck(view);\n    Services.updateDirectives(view, 0 /*
CheckAndUpdate */);\n    execEmbeddedViewsAction(view, ViewAction.CheckAndUpdate);\n
execQueriesAction(view, 67108864 /* TypeContentQuery */ | 536870912 /* DynamicQuery */ | 0 /*
CheckAndUpdate */);\n    var /** @type {?} */ callInit = shiftInitState(view, 256 /* InitState_CallingOnInit */, 512
/* InitState_CallingAfterContentInit */);\n    callLifecycleHooksChildrenFirst(view, 2097152 /*
AfterContentChecked */ | (callInit ? 1048576 /* AfterContentInit */ : 0));\n    Services.updateRenderer(view, 0 /*
CheckAndUpdate */);\n    execComponentViewsAction(view, ViewAction.CheckAndUpdate);\n
execQueriesAction(view, 134217728 /* TypeViewQuery */ | 536870912 /* DynamicQuery */ | 0 /*
CheckAndUpdate */);\n    callInit = shiftInitState(view, 512 /* InitState_CallingAfterContentInit */, 768 /*
InitState_CallingAfterViewInit */);\n    callLifecycleHooksChildrenFirst(view, 8388608 /* AfterViewInitChecked */ |
(callInit ? 4194304 /* AfterViewInit */ : 0));\n    if (view.def.flags & 2 /* OnPush */) {\n        view.state &= ~8 /*
ChecksEnabled */;\n    }\n    view.state &= ~(64 /* CheckProjectedViews */ | 32 /* CheckProjectedView */);\n

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shiftInitState(view, 768 /* InitState_CallingAfterViewInit */, 1024 /* InitState_AfterInit */);\n\n**\n * @param
{?} view\n * @param {?} nodeDef\n * @param {?} argStyle\n * @param {?=} v0\n * @param {?=} v1\n *
@param {?=} v2\n * @param {?=} v3\n * @param {?=} v4\n * @param {?=} v5\n * @param {?=} v6\n * @param
{?=} v7\n * @param {?=} v8\n * @param {?=} v9\n * @return {?}\n * ^\nfunction checkAndUpdateNode(view,
nodeDef, argStyle, v0, v1, v2, v3, v4, v5, v6, v7, v8, v9) {\n  if (argStyle === 0 /* Inline */) {\n    return
checkAndUpdateNodeInline(view, nodeDef, v0, v1, v2, v3, v4, v5, v6, v7, v8, v9);\n  }\n  else {\n    return
checkAndUpdateNodeDynamic(view, nodeDef, v0);\n  }\n}\n\n**\n * @param {?} view\n * @return {?}\n
*\nfunction markProjectedViewsForCheck(view) {\n  var /** @type {?} */ def = view.def;\n  if (!(def.nodeFlags
& 4 /* ProjectedTemplate */)) {\n    return;\n  }\n  for (var /** @type {?} */ i = 0; i < def.nodes.length; i++) {\n
  var /** @type {?} */ nodeDef = def.nodes[i];\n    if (nodeDef.flags & 4 /* ProjectedTemplate */) {\n
var /** @type {?} */ projectedViews = asElementData(view, i).template._projectedViews;\n      if
(projectedViews) {\n        for (var /** @type {?} */ i_1 = 0; i_1 < projectedViews.length; i_1++) {\n
var /** @type {?} */ projectedView = projectedViews[i_1];\n          projectedView.state |= 32 /*
CheckProjectedView */;\n          markParentViewsForCheckProjectedViews(projectedView, view);\n
}\n        }\n      }\n    } else if ((nodeDef.childFlags & 4 /* ProjectedTemplate */) === 0) {\n      // a parent
with leafs\n      // no child is a component,\n      // then skip the children\n      i += nodeDef.childCount;\n
}\n  }\n}\n\n**\n * @param {?} view\n * @param {?} nodeDef\n * @param {?=} v0\n * @param {?=} v1\n *
@param {?=} v2\n * @param {?=} v3\n * @param {?=} v4\n * @param {?=} v5\n * @param {?=} v6\n * @param
{?=} v7\n * @param {?=} v8\n * @param {?=} v9\n * @return {?}\n * ^\nfunction
checkAndUpdateNodeInline(view, nodeDef, v0, v1, v2, v3, v4, v5, v6, v7, v8, v9) {\n  switch (nodeDef.flags &
201347067 /* Types */) {\n    case 1 /* TypeElement */:\n      return checkAndUpdateElementInline(view,
nodeDef, v0, v1, v2, v3, v4, v5, v6, v7, v8, v9);\n    case 2 /* TypeText */:\n      return
checkAndUpdateTextInline(view, nodeDef, v0, v1, v2, v3, v4, v5, v6, v7, v8, v9);\n    case 16384 /*
TypeDirective */:\n      return checkAndUpdateDirectiveInline(view, nodeDef, v0, v1, v2, v3, v4, v5, v6, v7, v8,
v9);\n    case 32 /* TypePureArray */:\n    case 64 /* TypePureObject */:\n    case 128 /* TypePurePipe */:\n
return checkAndUpdatePureExpressionInline(view, nodeDef, v0, v1, v2, v3, v4, v5, v6, v7, v8, v9);\n
default:\n      throw 'unreachable';\n    }\n  }\n}\n\n**\n * @param {?} view\n * @param {?} nodeDef\n * @param
{?} values\n * @return {?}\n * ^\nfunction checkAndUpdateNodeDynamic(view, nodeDef, values) {\n  switch
(nodeDef.flags & 201347067 /* Types */) {\n    case 1 /* TypeElement */:\n      return
checkAndUpdateElementDynamic(view, nodeDef, values);\n    case 2 /* TypeText */:\n      return
checkAndUpdateTextDynamic(view, nodeDef, values);\n    case 16384 /* TypeDirective */:\n      return
checkAndUpdateDirectiveDynamic(view, nodeDef, values);\n    case 32 /* TypePureArray */:\n    case 64 /*
TypePureObject */:\n    case 128 /* TypePurePipe */:\n      return
checkAndUpdatePureExpressionDynamic(view, nodeDef, values);\n    default:\n      throw 'unreachable';\n
}\n  }\n}\n\n**\n * @param {?} view\n * @param {?} nodeDef\n * @param {?} argStyle\n * @param {?=} v0\n *
@param {?=} v1\n * @param {?=} v2\n * @param {?=} v3\n * @param {?=} v4\n * @param {?=} v5\n * @param
{?=} v6\n * @param {?=} v7\n * @param {?=} v8\n * @param {?=} v9\n * @return {?}\n * ^\nfunction
checkNoChangesNode(view, nodeDef, argStyle, v0, v1, v2, v3, v4, v5, v6, v7, v8, v9) {\n  if (argStyle === 0 /*
Inline */) {\n    checkNoChangesNodeInline(view, nodeDef, v0, v1, v2, v3, v4, v5, v6, v7, v8, v9);\n  }\n  else
{\n    checkNoChangesNodeDynamic(view, nodeDef, v0);\n  }\n  // Returning false is ok here as we would
have thrown in case of a change.\n  return false;\n}\n\n**\n * @param {?} view\n * @param {?} nodeDef\n *
@param {?} v0\n * @param {?} v1\n * @param {?} v2\n * @param {?} v3\n * @param {?} v4\n * @param {?}
v5\n * @param {?} v6\n * @param {?} v7\n * @param {?} v8\n * @param {?} v9\n * @return {?}\n * ^\nfunction
checkNoChangesNodeInline(view, nodeDef, v0, v1, v2, v3, v4, v5, v6, v7, v8, v9) {\n  var /** @type {?} */
bindLen = nodeDef.bindings.length;\n  if (bindLen > 0)\n    checkBindingNoChanges(view, nodeDef, 0, v0);\n
if (bindLen > 1)\n    checkBindingNoChanges(view, nodeDef, 1, v1);\n  if (bindLen > 2)\n
checkBindingNoChanges(view, nodeDef, 2, v2);\n  if (bindLen > 3)\n    checkBindingNoChanges(view,
nodeDef, 3, v3);\n  if (bindLen > 4)\n    checkBindingNoChanges(view, nodeDef, 4, v4);\n  if (bindLen > 5)\n

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    checkBindingNoChanges(view, nodeDef, 5, v5);\n    if (bindLen > 6)\n        checkBindingNoChanges(view, nodeDef, 6, v6);\n    if (bindLen > 7)\n        checkBindingNoChanges(view, nodeDef, 7, v7);\n    if (bindLen > 8)\n        checkBindingNoChanges(view, nodeDef, 8, v8);\n    if (bindLen > 9)\n        checkBindingNoChanges(view, nodeDef, 9, v9);\n\n    /**\n     * @param {?} view\n     * @param {?} nodeDef\n     * @param {?} values\n     * @return {?} */\n    *^function checkNoChangesNodeDynamic(view, nodeDef, values) {\n        for (var /** @type {?} */ i = 0; i < values.length; i++) {\n            checkBindingNoChanges(view, nodeDef, i, values[i]);\n        }\n    }\n\n    /**\n     * Workaround\n     * https://github.com/angular/tsickle/issues/497\n     * @suppress {misplacedTypeAnnotation}\n     * @param {?} view\n     * @param {?} nodeDef\n     * @return {?}\n     *^function checkNoChangesQuery(view, nodeDef) {\n        var /** @type {?} */ queryList = asQueryList(view, nodeDef.nodeIndex);\n        if (queryList.dirty) {\n            throw expressionChangedAfterItHasBeenCheckedError(Services.createDebugContext(view, nodeDef.nodeIndex), \"Query '\" + /** @type {?} */ ((nodeDef.query)).id + '\" not dirty\", \"Query '\" + /** @type {?} */ ((nodeDef.query)).id + '\" dirty\", (view.state & 1 /* BeforeFirstCheck */) !== 0);\n        }\n    }\n\n    /**\n     * @param {?} view\n     * @return {?}\n     *^function destroyView(view) {\n        if (view.state & 128 /* Destroyed */) {\n            return;\n        }\n        execEmbeddedViewsAction(view, ViewAction.Destroy);\n        execComponentViewsAction(view, ViewAction.Destroy);\n        callLifecycleHooksChildrenFirst(view, 131072 /* OnDestroy */);\n        if (view.disposables) {\n            for (var /** @type {?} */ i = 0; i < view.disposables.length; i++) {\n                view.disposables[i]();\n            }\n        }\n        detachProjectedView(view);\n        if (view.renderer.destroyNode) {\n            destroyViewNodes(view);\n        }\n        if (isComponentView(view)) {\n            view.renderer.destroy();\n        }\n        view.state |= 128 /* Destroyed */;\n    }\n\n    /**\n     * @param {?} view\n     * @return {?}\n     *^function destroyViewNodes(view) {\n        var /** @type {?} */ len = view.def.nodes.length;\n        for (var /** @type {?} */ i = 0; i < len; i++) {\n            var /** @type {?} */ def = view.def.nodes[i];\n            if (def.flags & 1 /* TypeElement */) {\n                /** @type {?} */ ((view.renderer.destroyNode))(asElementData(view, i).renderElement);\n            } else if (def.flags & 2 /* TypeText */) {\n                /** @type {?} */ ((view.renderer.destroyNode))(asTextData(view, i).renderText);\n            } else if (def.flags & 67108864 /* TypeContentQuery */ || def.flags & 134217728 /* TypeViewQuery */) {\n                asQueryList(view, i).destroy();\n            }\n        }\n    }\n\n    /** @enum {number} */\n    nvar ViewAction = {\n        CreateViewNodes: 0,\n        CheckNoChanges: 1,\n        CheckNoChangesProjectedViews: 2,\n        CheckAndUpdate: 3,\n        CheckAndUpdateProjectedViews: 4,\n        Destroy: 5,\n    };\n\n    ViewAction[ViewAction.CreateViewNodes] = \"CreateViewNodes\";\n    ViewAction[ViewAction.CheckNoChanges] = \"CheckNoChanges\";\n    ViewAction[ViewAction.CheckNoChangesProjectedViews] = \"CheckNoChangesProjectedViews\";\n    ViewAction[ViewAction.CheckAndUpdate] = \"CheckAndUpdate\";\n    ViewAction[ViewAction.CheckAndUpdateProjectedViews] = \"CheckAndUpdateProjectedViews\";\n    ViewAction[ViewAction.Destroy] = \"Destroy\";\n\n    /**\n     * @param {?} view\n     * @param {?} action\n     * @return {?}\n     *^function execComponentViewsAction(view, action) {\n        var /** @type {?} */ def = view.def;\n        if (!(def.nodeFlags & 33554432 /* ComponentView */) ) {\n            return;\n        }\n        for (var /** @type {?} */ i = 0; i < def.nodes.length; i++) {\n            var /** @type {?} */ nodeDef = def.nodes[i];\n            if (nodeDef.flags & 33554432 /* ComponentView */) {\n                // a leaf\n                callViewAction(asElementData(view, i).componentView, action);\n            } else if ((nodeDef.childFlags & 33554432 /* ComponentView */) === 0) {\n                // a parent with leaf\n                // no child is a component,\n                // then skip the children\n                i += nodeDef.childCount;\n            }\n        }\n    }\n\n    /**\n     * @param {?} view\n     * @param {?} action\n     * @return {?}\n     *^function execEmbeddedViewsAction(view, action) {\n        var /** @type {?} */ def = view.def;\n        if (!(def.nodeFlags & 16777216 /* EmbeddedViews */) ) {\n            return;\n        }\n        for (var /** @type {?} */ i = 0; i < def.nodes.length; i++) {\n            var /** @type {?} */ nodeDef = def.nodes[i];\n            if (nodeDef.flags & 16777216 /* EmbeddedViews */) {\n                // a leaf\n                var /** @type {?} */ embeddedViews = /** @type {?} */ ((asElementData(view, i).viewContainer))._embeddedViews;\n                for (var /** @type {?} */ k = 0; k < embeddedViews.length; k++) {\n                    callViewAction(embeddedViews[k], action);\n                }\n            } else if ((nodeDef.childFlags & 16777216 /* EmbeddedViews */) === 0) {\n                // a parent with leaf\n                // no child is a component,\n                // then skip the children\n                i +=

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nodeDef.childCount;\n    }\n  }\n}\n\n**\n * @param {?} view\n * @param {?} action\n * @return {?}\n\n*\nfunction callViewAction(view, action) {\n  var /** @type {?} */ viewState = view.state;\n  switch (action) {\n    case ViewAction.CheckNoChanges:\n      if ((viewState & 128 /* Destroyed */) === 0) {\n        if\n        ((viewState & 12 /* CatDetectChanges */) === 12 /* CatDetectChanges */) {\n          checkNoChangesView(view);\n        }\n        else if (viewState & 64 /* CheckProjectedViews */) {\n          execProjectedViewsAction(view, ViewAction.CheckNoChangesProjectedViews);\n        }\n        }\n        break;\n      case ViewAction.CheckNoChangesProjectedViews:\n        if ((viewState & 128 /* Destroyed */\n        === 0) {\n          if (viewState & 32 /* CheckProjectedView */) {\n            checkNoChangesView(view);\n          }\n          else if (viewState & 64 /* CheckProjectedViews */) {\n            execProjectedViewsAction(view, action);\n          }\n        }\n        }\n        break;\n      case\n      ViewAction.CheckAndUpdate:\n        if ((viewState & 128 /* Destroyed */) === 0) {\n          if ((viewState &\n          12 /* CatDetectChanges */) === 12 /* CatDetectChanges */) {\n            checkAndUpdateView(view);\n          }\n          else if (viewState & 64 /* CheckProjectedViews */) {\n            execProjectedViewsAction(view,\n            ViewAction.CheckAndUpdateProjectedViews);\n          }\n        }\n        }\n        break;\n      case\n      ViewAction.CheckAndUpdateProjectedViews:\n        if ((viewState & 128 /* Destroyed */\n        === 0) {\n          if (viewState & 32 /* CheckProjectedView */) {\n            checkAndUpdateView(view);\n          }\n          else if (viewState & 64 /* CheckProjectedViews */) {\n            execProjectedViewsAction(view, action);\n          }\n        }\n        }\n        break;\n      case ViewAction.Destroy:\n        // Note: destroyView recurses over all\n        views,\n        // so we don't need to special case projected views here.\n        destroyView(view);\n        break;\n      case ViewAction.CreateViewNodes:\n        createViewNodes(view);\n        break;\n      }\n    }\n  }\n}\n\n**\n * @param {?} view\n * @param {?} action\n * @return {?}\n\n*\nfunction execProjectedViewsAction(view,\naction) {\n  execEmbeddedViewsAction(view, action);\n  execComponentViewsAction(view, action);\n}\n\n**\n * @param {?} view\n * @param {?} queryFlags\n * @param {?} staticDynamicQueryFlag\n * @param {?}\n * checkType\n * @return {?}\n\n*\nfunction execQueriesAction(view, queryFlags, staticDynamicQueryFlag,\ncheckType) {\n  if (!(view.def.nodeFlags & queryFlags) || !(view.def.nodeFlags & staticDynamicQueryFlag)) {\n    return;\n  }\n  var /** @type {?} */ nodeCount = view.def.nodes.length;\n  for (var /** @type {?} */ i = 0; i <\n  nodeCount; i++) {\n    var /** @type {?} */ nodeDef = view.def.nodes[i];\n    if ((nodeDef.flags & queryFlags)\n    && (nodeDef.flags & staticDynamicQueryFlag)) {\n      Services.setCurrentNode(view, nodeDef.nodeIndex);\n      switch (checkType) {\n        case 0 /* CheckAndUpdate */:\n          checkAndUpdateQuery(view,\n          nodeDef);\n          break;\n        case 1 /* CheckNoChanges */:\n          checkNoChangesQuery(view, nodeDef);\n          break;\n      }\n    }\n    if (!(nodeDef.childFlags &\n    queryFlags) || !(nodeDef.childFlags & staticDynamicQueryFlag)) {\n      // no child has a matching query\n      // then skip the children\n      i += nodeDef.childCount;\n    }\n  }\n}\n\n**\n * @fileoverview added by\n * tsickle\n * @suppress {checkTypes} checked by tsc\n\n**\n * @license\n * Copyright Google Inc. All Rights\n * Reserved.\n\n**\n * Use of this source code is governed by an MIT-style license that can be\n * found in the\n * LICENSE file at https://angular.io/license\n\n*\nvar initialized = false;\n\n**\n * @return {?}\n\n*\nfunction\ninitServicesIfNeeded() {\n  if (initialized) {\n    return;\n  }\n  initialized = true;\n  var /** @type {?} */\n  services = isDevMode() ? createDebugServices() : createProdServices();\n  Services.setCurrentNode =\n  services.setCurrentNode;\n  Services.createRootView = services.createRootView;\n  Services.createEmbeddedView = services.createEmbeddedView;\n  Services.createComponentView =\n  services.createComponentView;\n  Services.createNgModuleRef = services.createNgModuleRef;\n  Services.overrideProvider = services.overrideProvider;\n  Services.overrideComponentView =\n  services.overrideComponentView;\n  Services.clearOverrides = services.clearOverrides;\n  Services.checkAndUpdateView = services.checkAndUpdateView;\n  Services.checkNoChangesView =\n  services.checkNoChangesView;\n  Services.destroyView = services.destroyView;\n  Services.resolveDep =\n  resolveDep;\n  Services.createDebugContext = services.createDebugContext;\n  Services.handleEvent =\n  services.handleEvent;\n  Services.updateDirectives = services.updateDirectives;\n  Services.updateRenderer =\n  services.updateRenderer;\n  Services.dirtyParentQueries = dirtyParentQueries;\n}\n\n**\n * @return {?}\n\n\n
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*\nfunction createProdServices() {\n  return {\n    setCurrentNode: function () { },\n    createRootView: createProdRootView,\n    createEmbeddedView: createEmbeddedView,\n    createComponentView: createComponentView,\n    createNgModuleRef: createNgModuleRef,\n    overrideProvider: NOOP,\n    overrideComponentView: NOOP,\n    clearOverrides: NOOP,\n    checkAndUpdateView: checkAndUpdateView,\n    checkNoChangesView: checkNoChangesView,\n    destroyView: destroyView,\n    createDebugContext: function (view, nodeIndex) { return new DebugContext_(view, nodeIndex); },\n    handleEvent: function (view, nodeIndex, eventName, event) {\n      return view.def.handleEvent(view, nodeIndex, eventName, event);\n    },\n    updateDirectives: function (view, checkType) {\n      return view.def.updateDirectives(checkType === 0 /* CheckAndUpdate */ ? prodCheckAndUpdateNode : prodCheckNoChangesNode, view);\n    },\n    updateRenderer: function (view, checkType) {\n      return view.def.updateRenderer(checkType === 0 /* CheckAndUpdate */ ? prodCheckAndUpdateNode : prodCheckNoChangesNode, view);\n    },\n  };}\n}\n\n**\n\n * @return {?}\n\n *\n\nfunction createDebugServices() {\n  return {\n    setCurrentNode: debugSetCurrentNode,\n    createRootView: debugCreateRootView,\n    createEmbeddedView: debugCreateEmbeddedView,\n    createComponentView: debugCreateComponentView,\n    createNgModuleRef: debugCreateNgModuleRef,\n    overrideProvider: debugOverrideProvider,\n    overrideComponentView: debugOverrideComponentView,\n    clearOverrides: debugClearOverrides,\n    checkAndUpdateView: debugCheckAndUpdateView,\n    checkNoChangesView: debugCheckNoChangesView,\n    destroyView: debugDestroyView,\n    createDebugContext: function (view, nodeIndex) { return new DebugContext_(view, nodeIndex); },\n    handleEvent: debugHandleEvent,\n    updateDirectives: debugUpdateDirectives,\n    updateRenderer: debugUpdateRenderer,\n  };}\n}\n\n**\n\n * @param {?} eInjector\n * @param {?} projectableNodes\n * @param {?} rootSelectorOrNode\n * @param {?} def\n * @param {?} ngModule\n * @param {?=} context\n * @return {?}\n\n *\n\nfunction createProdRootView(eInjector, projectableNodes, rootSelectorOrNode, def, ngModule, context) {\n  var /** @type {?} */ rendererFactory = ngModule.injector.get(RendererFactory2);\n  return createRootView(createRootData(eInjector, ngModule, rendererFactory, projectableNodes, rootSelectorOrNode), def, context);\n}\n\n**\n\n * @param {?} eInjector\n * @param {?} projectableNodes\n * @param {?} rootSelectorOrNode\n * @param {?} def\n * @param {?} ngModule\n * @param {?=} context\n * @return {?}\n\n *\n\nfunction debugCreateRootView(eInjector, projectableNodes, rootSelectorOrNode, def, ngModule, context) {\n  var /** @type {?} */ rendererFactory = ngModule.injector.get(RendererFactory2);\n  var /** @type {?} */ root = createRootData(eInjector, ngModule, new DebugRendererFactory2(rendererFactory), projectableNodes, rootSelectorOrNode);\n  var /** @type {?} */ defWithOverride = applyProviderOverridesToView(def);\n  return callWithDebugContext(DebugAction.create, createRootView, null, [root, defWithOverride, context]);\n}\n\n**\n\n * @param {?} eInjector\n * @param {?} ngModule\n * @param {?} rendererFactory\n * @param {?} projectableNodes\n * @param {?} rootSelectorOrNode\n * @return {?}\n\n *\n\nfunction createRootData(eInjector, ngModule, rendererFactory, projectableNodes, rootSelectorOrNode) {\n  var /** @type {?} */ sanitizer = ngModule.injector.get(Sanitizer);\n  var /** @type {?} */ errorHandler = ngModule.injector.get(ErrorHandler);\n  var /** @type {?} */ renderer = rendererFactory.createRenderer(null, null);\n  return {\n    ngModule: ngModule,\n    injector: eInjector,\n    projectableNodes: projectableNodes,\n    selectorOrNode: rootSelectorOrNode,\n    sanitizer: sanitizer,\n    rendererFactory: rendererFactory,\n    renderer: renderer,\n    errorHandler: errorHandler\n  };\n}\n\n**\n\n * @param {?} parentView\n * @param {?} anchorDef\n * @param {?} viewDef\n * @param {?=} context\n * @return {?}\n\n *\n\nfunction debugCreateEmbeddedView(parentView, anchorDef, viewDef$$1, context) {\n  var /** @type {?} */ defWithOverride = applyProviderOverridesToView(viewDef$$1);\n  return callWithDebugContext(DebugAction.create, createEmbeddedView, null, [parentView, anchorDef, defWithOverride, context]);\n}\n\n**\n\n * @param {?} parentView\n * @param {?} nodeDef\n * @param {?} viewDef\n * @param {?} hostElement\n * @return {?}\n\n *\n\nfunction debugCreateComponentView(parentView, nodeDef, viewDef$$1, hostElement) {\n  var /** @type {?} */ overrideComponentView = viewDefOverrides.get(/** @type {?} */ ((/** @type {?} */ ((/** @type {?} */ ((nodeDef.element)).componentProvider)).provider)).token);\n  if (overrideComponentView) {\n    viewDef$$1

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= overrideComponentView;\n  }\n  else {\n    viewDef$$$1 = applyProviderOverridesToView(viewDef$$$1);\n  }\n  return callWithDebugContext(DebugAction.create, createComponentView, null, [parentView, nodeDef,\n  viewDef$$$1, hostElement]);\n}\n\n/**\n * @param {?} moduleType\n * @param {?} parentInjector\n * @param {?} bootstrapComponents\n * @param {?} def\n * @return {?}\n */\nfunction debugCreateNgModuleRef(moduleType,\n  parentInjector, bootstrapComponents, def) {\n  var /** @type {?} */ defWithOverride =\n  applyProviderOverridesToNgModule(def);\n  return createNgModuleRef(moduleType, parentInjector,\n  bootstrapComponents, defWithOverride);\n}\n\nvar providerOverrides = new Map();\nvar viewDefOverrides = new\n  Map();\n\n/**\n * @param {?} override\n * @return {?}\n */\nfunction debugOverrideProvider(override) {\n  providerOverrides.set(override.token, override);\n}\n\n/**\n * @param {?} comp\n * @param {?} compFactory\n * @return {?}\n */\nfunction debugOverrideComponentView(comp, compFactory) {\n  var /** @type {?} */\n  hostViewDef = resolveDefinition(getComponentViewDefinitionFactory(compFactory));\n  var /** @type {?} */\n  compViewDef = resolveDefinition(/** @type {?} */ ((/** @type {?} */\n  ((hostViewDef.nodes[0].element)).componentView));\n  viewDefOverrides.set(comp, compViewDef);\n}\n\n/**\n * @return {?}\n */\nfunction debugClearOverrides() {\n  providerOverrides.clear();\n  viewDefOverrides.clear();\n}\n\n/**\n * @param {?} def\n * @return {?}\n */\nfunction\n  applyProviderOverridesToView(def) {\n  if (providerOverrides.size === 0) {\n    return def;\n  }\n  var /**\n  @type {?} */ elementIndicesWithOverwrittenProviders = findElementIndicesWithOverwrittenProviders(def);\n  if (elementIndicesWithOverwrittenProviders.length === 0) {\n    return def;\n  }\n  // clone the whole view\n  definition,\n  // as it maintains references between the nodes that are hard to update.\n  def = /** @type {?} */\n  ((def.factory))(function () { return NOOP; });\n  for (var /** @type {?} */ i = 0; i <\n  elementIndicesWithOverwrittenProviders.length; i++) {\n    applyProviderOverridesToElement(def,\n    elementIndicesWithOverwrittenProviders[i]);\n  }\n  return def;\n}\n\n/**\n * @param {?} def\n * @return\n  {?}\n */\nfunction findElementIndicesWithOverwrittenProviders(def) {\n  var /** @type {?} */\n  elIndicesWithOverwrittenProviders = [];\n  var /** @type {?} */ lastElementDef = null;\n  for (var /**\n  @type {?} */ i = 0; i < def.nodes.length; i++) {\n    var /** @type {?} */ nodeDef = def.nodes[i];\n    if\n    (nodeDef.flags & 1 /* TypeElement */) {\n      lastElementDef = nodeDef;\n    }\n    if\n    (lastElementDef && nodeDef.flags & 3840 /* CatProviderNoDirective */ &&\n    providerOverrides.has(/**\n    @type {?} */ ((nodeDef.provider)).token)) {\n      elIndicesWithOverwrittenProviders.push(/** @type {?} */\n      ((lastElementDef).nodeIndex);\n      lastElementDef = null;\n    }\n  }\n  return\n  elIndicesWithOverwrittenProviders;\n}\n\n/**\n * @param {?} viewDef\n * @param {?} elIndex\n * @return\n  {?}\n */\nfunction applyProviderOverridesToElement(viewDef$$$1, elIndex) {\n  for (var /**\n  @type {?} */ i = elIndex + 1; i < viewDef$$$1.nodes.length; i++) {\n    var /** @type {?} */ nodeDef =\n    viewDef$$$1.nodes[i];\n    if (nodeDef.flags & 1 /* TypeElement */) {\n      // stop at the next element\n      return;\n    }\n    if (nodeDef.flags & 3840 /* CatProviderNoDirective */) {\n      var /**\n      @type {?} */ provider = /** @type {?} */ ((nodeDef.provider));\n      var /** @type {?} */ override =\n      providerOverrides.get(provider.token);\n      if (override) {\n        nodeDef.flags = (nodeDef.flags &\n        ~3840 /* CatProviderNoDirective */) | override.flags;\n        provider.deps = splitDepsDsl(override.deps);\n        provider.value = override.value;\n      }\n    }\n  }\n}\n\n/**\n * @param {?} def\n * @return\n  {?}\n */\nfunction\n  applyProviderOverridesToNgModule(def) {\n  var _a = calcHasOverrides(def),\n  hasOverrides = _a.hasOverrides, hasDeprecatedOverrides = _a.hasDeprecatedOverrides;\n  if (!hasOverrides) {\n    return def;\n  }\n  // clone the whole view definition,\n  // as it maintains references between the nodes that are\n  hard to update.\n  def = /** @type {?} */ ((def.factory))(function () { return NOOP; });\n  applyProviderOverrides(def);\n  return def;\n}\n\n/**\n * @param {?} def\n * @return\n  {?}\n */\nfunction\n  calcHasOverrides(def) {\n  var /** @type {?} */ hasOverrides = false;\n  var /** @type {?} */\n  hasDeprecatedOverrides = false;\n  if (providerOverrides.size === 0) {\n    return { hasOverrides:\n    hasOverrides, hasDeprecatedOverrides: hasDeprecatedOverrides }; \n  }\n  def.providers.forEach(function\n  (node) {\n    var /** @type {?} */ override = providerOverrides.get(node.token);\n    if ((node.flags &\n    3840 /* CatProviderNoDirective */) && override) {\n      hasOverrides = true;\n    }\n  });\n}\n
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hasDeprecatedOverrides = hasDeprecatedOverrides || override.deprecatedBehavior;\n    }\n  });\n  return
{ hasOverrides: hasOverrides, hasDeprecatedOverrides: hasDeprecatedOverrides };\n  }\n  /**\n   * @param {?}
def\n   * @return {?} \n   */\n  function applyProviderOverrides(def) {\n    for (var /** @type {?} */ i = 0; i <
def.providers.length; i++) {\n      var /** @type {?} */ provider = def.providers[i];\n      if
(hasDeprecatedOverrides) {\n        // We had a bug where me made\n        // all providers lazy. Keep this
logic behind a flag\n        // for migrating existing users.\n        provider.flags |= 4096 /* LazyProvider */;\n
      }\n      var /** @type {?} */ override = providerOverrides.get(provider.token);\n      if (override) {\n
        provider.flags = (provider.flags & ~3840 /* CatProviderNoDirective */) | override.flags;\n
      }\n      provider.deps = splitDepsDsl(override.deps);\n      provider.value = override.value;\n    }\n  }\n
}\n}\n\n/**\n * @param {?} view\n * @param {?} checkIndex\n * @param {?} argStyle\n * @param {?=} v0\n *
@param {?=} v1\n * @param {?=} v2\n * @param {?=} v3\n * @param {?=} v4\n * @param {?=} v5\n * @param
{?=} v6\n * @param {?=} v7\n * @param {?=} v8\n * @param {?=} v9\n * @return {?} \n */\nfunction
prodCheckAndUpdateNode(view, checkIndex, argStyle, v0, v1, v2, v3, v4, v5, v6, v7, v8, v9) {\n  var /** @type
{?} */ nodeDef = view.def.nodes[checkIndex];\n  checkAndUpdateNode(view, nodeDef, argStyle, v0, v1, v2, v3,
v4, v5, v6, v7, v8, v9);\n  return (nodeDef.flags & 224 /* CatPureExpression */) ?\n
asPureExpressionData(view, checkIndex).value :\n  undefined;\n}\n\n/**\n * @param {?} view\n * @param {?}
checkIndex\n * @param {?} argStyle\n * @param {?=} v0\n * @param {?=} v1\n * @param {?=} v2\n * @param
{?=} v3\n * @param {?=} v4\n * @param {?=} v5\n * @param {?=} v6\n * @param {?=} v7\n * @param {?=}
v8\n * @param {?=} v9\n * @return {?} \n */\nfunction prodCheckNoChangesNode(view, checkIndex, argStyle, v0,
v1, v2, v3, v4, v5, v6, v7, v8, v9) {\n  var /** @type {?} */ nodeDef = view.def.nodes[checkIndex];\n
checkNoChangesNode(view, nodeDef, argStyle, v0, v1, v2, v3, v4, v5, v6, v7, v8, v9);\n  return (nodeDef.flags &
224 /* CatPureExpression */) ?\n  asPureExpressionData(view, checkIndex).value :\n  undefined;\n}\n\n/**\n *
@param {?} view\n * @return {?} \n */\nfunction debugCheckAndUpdateView(view) {\n  return
callWithDebugContext(DebugAction.detectChanges, checkAndUpdateView, null, [view]);\n}\n\n/**\n * @param {?}
view\n * @return {?} \n */\nfunction debugCheckNoChangesView(view) {\n  return
callWithDebugContext(DebugAction.checkNoChanges, checkNoChangesView, null, [view]);\n}\n\n/**\n * @param
{?} view\n * @return {?} \n */\nfunction debugDestroyView(view) {\n  return
callWithDebugContext(DebugAction.destroy, destroyView, null, [view]);\n}\n\n/** @enum {number} */\nvar
DebugAction = {\n  create: 0,\n  detectChanges: 1,\n  checkNoChanges: 2,\n  destroy: 3,\n  handleEvent:
4,\n};\n\nDebugAction[DebugAction.create] = \"create\";\nDebugAction[DebugAction.detectChanges] =
\"detectChanges\";\nDebugAction[DebugAction.checkNoChanges] =
\"checkNoChanges\";\nDebugAction[DebugAction.destroy] =
\"destroy\";\nDebugAction[DebugAction.handleEvent] = \"handleEvent\";\n\nvar _currentAction;\n\nvar
_currentView;\n\nvar _currentNodeIndex;\n\n/**\n * @param {?} view\n * @param {?} nodeIndex\n * @return {?} \n
*/\nfunction debugSetCurrentNode(view, nodeIndex) {\n  _currentView = view;\n  _currentNodeIndex =
nodeIndex;\n}\n\n/**\n * @param {?} view\n * @param {?} nodeIndex\n * @param {?} eventName\n * @param {?}
event\n * @return {?} \n */\nfunction debugHandleEvent(view, nodeIndex, eventName, event) {\n
debugSetCurrentNode(view, nodeIndex);\n  return callWithDebugContext(DebugAction.handleEvent,
view.def.handleEvent, null, [view, nodeIndex, eventName, event]);\n}\n\n/**\n * @param {?} view\n * @param {?}
checkType\n * @return {?} \n */\nfunction debugUpdateDirectives(view, checkType) {\n  if (view.state & 128 /*
Destroyed */) {\n    throw viewDestroyedError(DebugAction[_currentAction]);\n  }\n  debugSetCurrentNode(view,
nextDirectiveWithBinding(view, 0));\n  return
view.def.updateDirectives(debugCheckDirectivesFn, view);\n}\n\n/**\n * @param {?} view\n * @param {?}
nodeIndex\n * @param {?} argStyle\n * @param {...?} values\n * @return {?} \n */\nfunction
debugCheckDirectivesFn(view, nodeIndex, argStyle) {\n  var values = [];\n  for (var _i = 3; _i <
arguments.length; _i++) {\n    values[_i - 3] = arguments[_i];\n  }\n  var /** @type {?} */ nodeDef =
view.def.nodes[nodeIndex];\n  if (checkType === 0 /* CheckAndUpdate */) {\n    debugCheckAndUpdateNode(view,
nodeDef, argStyle, values);\n  } else {\n

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debugCheckNoChangesNode(view, nodeDef, argStyle, values);\n    }\n    if (nodeDef.flags & 16384 /*
TypeDirective */) {\n        debugSetCurrentNode(view, nextDirectiveWithBinding(view, nodeIndex));\n    }\n
    return (nodeDef.flags & 224 /* CatPureExpression */) ?\n        asPureExpressionData(view,
nodeDef.nodeIndex).value :\n        undefined;\n    }\n}\n\n/**\n * @param {?} view\n * @param {?} checkType\n * @return {?}\n */\nfunction debugUpdateRenderer(view, checkType) {\n    if (view.state & 128 /* Destroyed */)
{\n        throw viewDestroyedError(DebugAction[_currentAction]);\n    }\n    debugSetCurrentNode(view,
nextRenderNodeWithBinding(view, 0));\n    return view.def.updateRenderer(debugCheckRenderNodeFn, view);\n}
\n\n/**\n * @param {?} view\n * @param {?} nodeIndex\n * @param {?} argStyle\n * @param {...?}
values\n * @return {?}\n */\nfunction debugCheckRenderNodeFn(view, nodeIndex, argStyle) {\n    var
values = [];\n    for (var _i = 3; _i < arguments.length; _i++) {\n        values[_i - 3] = arguments[_i];\n    }\n
    var /** @type {?} */ nodeDef = view.def.nodes[nodeIndex];\n    if (checkType === 0 /* CheckAndUpdate */)
{\n        debugCheckAndUpdateNode(view, nodeDef, argStyle, values);\n    }\n    else {\n
debugCheckNoChangesNode(view, nodeDef, argStyle, values);\n    }\n    if (nodeDef.flags & 3 /*
CatRenderNode */) {\n        debugSetCurrentNode(view, nextRenderNodeWithBinding(view, nodeIndex));\n
    }\n    return (nodeDef.flags & 224 /* CatPureExpression */) ?\n        asPureExpressionData(view,
nodeDef.nodeIndex).value :\n        undefined;\n    }\n}\n\n/**\n * @param {?} view\n * @param {?} nodeDef\n *
@param {?} argStyle\n * @param {?} givenValues\n * @return {?}\n */\nfunction
debugCheckAndUpdateNode(view, nodeDef, argStyle, givenValues) {\n    var /** @type {?} */ changed = (/**
@type {?} */ (checkAndUpdateNode)).apply(void 0, [view, nodeDef, argStyle].concat(givenValues));\n    if
(changed) {\n        var /** @type {?} */ values = argStyle === 1 /* Dynamic */ ? givenValues[0] : givenValues;\n
        if (nodeDef.flags & 16384 /* TypeDirective */) {\n            var /** @type {?} */ bindingValues = {};\n
            for
(var /** @type {?} */ i = 0; i < nodeDef.bindings.length; i++) {\n                var /** @type {?} */ binding =
nodeDef.bindings[i];\n                var /** @type {?} */ value = values[i];\n                if (binding.flags & 8 /*
TypeProperty */) {\n                    bindingValues[normalizeDebugBindingName(/** @type {?} */
(binding.nonMinifiedName))] =\n                        normalizeDebugBindingValue(value);\n                }\n            }\n
            var /** @type {?} */ elDef = /** @type {?} */ ((nodeDef.parent));\n            var /** @type {?} */ el =
asElementData(view, elDef.nodeIndex).renderElement;\n            if (!/** @type {?} */ ((elDef.element)).name) {\n
                // a comment.\n                view.renderer.setValue(el, \"bindings=\" + JSON.stringify(bindingValues, null,
2));\n            }\n            else {\n                // a regular element.\n                for (var /** @type {?} */ attr in
bindingValues) {\n                    var /** @type {?} */ value = bindingValues[attr];\n                    if (value != null) {\n
                        view.renderer.setAttribute(el, attr, value);\n                    }\n                    else {\n
                        view.renderer.removeAttribute(el, attr);\n                    }\n                }\n            }\n
        }\n    }\n}\n\n/**\n * @param {?} view\n * @param {?} nodeDef\n * @param {?} argStyle\n * @param {?} values\n * @return {?}\n
*/\nfunction debugCheckNoChangesNode(view, nodeDef, argStyle, values) {\n    (/** @type {?} */
(checkNoChangesNode)).apply(void 0, [view, nodeDef, argStyle].concat(values));\n}\n\n/**\n * @param {?} name\n * @return {?}\n
*/\nfunction normalizeDebugBindingName(name) {\n    // Attribute names with ` (eg `x-y`) are
valid per spec, but unsupported by some browsers\n    name = camelCaseToDashCase(name.replace(/[$@]/g, '_'));\n
    return \"ng-reflect-\" + name;\n}\n\nvar CAMEL_CASE_REGEXP = /([A-Z])/g;\n\n/**\n * @param {?} input\n *
@return {?}\n */\nfunction camelCaseToDashCase(input) {\n    return input.replace(CAMEL_CASE_REGEXP,
function () {\n        var m = [];\n        for (var _i = 0; _i < arguments.length; _i++) {\n            m[_i] =
arguments[_i];\n        }\n        return '-' + m[1].toLowerCase();\n    });\n}\n\n/**\n * @param {?} value\n * @return
{?}\n */\nfunction normalizeDebugBindingValue(value) {\n    try {\n        // Limit the size of the value as otherwise
the DOM just gets polluted.\n        return value != null ? value.toString().slice(0, 30) : value;\n    } catch (/**
@type {?} */ e) {\n        return '[ERROR] Exception while trying to serialize the value';\n    }\n}\n\n/**\n * @param
{?} view\n * @param {?} nodeIndex\n * @return {?}\n */\nfunction nextDirectiveWithBinding(view, nodeIndex)
{\n    for (var /** @type {?} */ i = nodeIndex; i < view.def.nodes.length; i++) {\n        var /** @type {?} */ nodeDef
= view.def.nodes[i];\n        if (nodeDef.flags & 16384 /* TypeDirective */ && nodeDef.bindings &&
nodeDef.bindings.length) {\n            return i;\n        }\n    }\n    return null;\n}\n\n/**\n * @param {?} view\n *

```

```

@param {?} nodeIndex\n * @return {?} \n *\nfunction nextRenderNodeWithBinding(view, nodeIndex) {\n  for
(var /** @type {?} */ i = nodeIndex; i < view.def.nodes.length; i++) {\n    var /** @type {?} */ nodeDef =
view.def.nodes[i];\n    if ((nodeDef.flags & 3 /* CatRenderNode */) && nodeDef.bindings &&
nodeDef.bindings.length) {\n      return i;\n    }\n  }\n  return null;\n}\n\nvar DebugContext_ = /** @class */
(function () {\n  function DebugContext_(view, nodeIndex) {\n    this.view = view;\n    this.nodeIndex =
nodeIndex;\n    if (nodeIndex == null) {\n      this.nodeIndex = nodeIndex = 0;\n    }\n    this.nodeDef =
view.def.nodes[nodeIndex];\n    var /** @type {?} */ elDef = this.nodeDef;\n    var /** @type {?} */ elView =
view;\n    while (elDef && (elDef.flags & 1 /* TypeElement */) === 0) {\n      elDef = /** @type {?} */
((elDef.parent));\n    }\n    if (!elDef) {\n      while (!elDef && elView) {\n        elDef = /** @type {?} */
*/ ((viewParentEl(elView)));\n        elView = /** @type {?} */ ((elView.parent));\n      }\n    }\n    this.elDef = elDef;\n    this.elView = elView;\n  }\n  Object.defineProperty(DebugContext_.prototype,
"elOrCompView", {\n    get: /**\n     * @return {?} \n     *\n     */ function () {\n      // Has to be done
lazily as we use the DebugContext also during creation of elements...\n      return asElementData(this.elView,
this.elDef.nodeIndex).componentView || this.view;\n    },\n    enumerable: true,\n    configurable: true\n  });\n  Object.defineProperty(DebugContext_.prototype, "injector", {\n    get: /**\n     * @return {?} \n     *\n     */ function () {\n      return createInjector(this.elView, this.elDef); \n    },\n    enumerable: true,\n    configurable:
true\n  });\n  Object.defineProperty(DebugContext_.prototype, "component", {\n    get: /**\n     * @return
{?} \n     *\n     */ function () {\n      return this.elOrCompView.component; \n    },\n    enumerable: true,\n    configurable: true\n  });\n  Object.defineProperty(DebugContext_.prototype, "context", {\n    get: /**\n     * @return {?} \n     *\n     */ function () {\n      return this.elOrCompView.context; \n    },\n    enumerable: true,\n    configurable: true\n  });\n  Object.defineProperty(DebugContext_.prototype, "providerTokens", {\n    get:
/**\n     * @return {?} \n     *\n     */ function () {\n      var /** @type {?} */ tokens = [];\n      if
(this.elDef) {\n        for (var /** @type {?} */ i = this.elDef.nodeIndex + 1; i <= this.elDef.nodeIndex +
this.elDef.childCount; i++) {\n          var /** @type {?} */ childDef = this.elView.def.nodes[i];\n          if
(childDef.flags & 20224 /* CatProvider */) {\n            tokens.push(/** @type {?} */
((childDef.provider)).token);\n          }\n          i += childDef.childCount;\n        }\n      }\n      return tokens;\n    },\n    enumerable: true,\n    configurable: true\n  });\n  Object.defineProperty(DebugContext_.prototype, "references", {\n    get: /**\n     * @return {?} \n     *\n     */ function () {\n      var /** @type {?} */ references = {};\n      if (this.elDef) {\n        collectReferences(this.elView, this.elDef, references);\n        for (var /** @type {?} */ i = this.elDef.nodeIndex
+ 1; i <= this.elDef.nodeIndex + this.elDef.childCount; i++) {\n          var /** @type {?} */ childDef =
this.elView.def.nodes[i];\n          if (childDef.flags & 20224 /* CatProvider */) {\n            collectReferences(this.elView, childDef, references);\n          }\n          i += childDef.childCount;\n        }\n      }\n      return references;\n    },\n    enumerable: true,\n    configurable: true\n  });\n  Object.defineProperty(DebugContext_.prototype, "componentRenderElement", {\n    get: /**\n     * @return
{?} \n     *\n     */ function () {\n      var /** @type {?} */ elData = findHostElement(this.elOrCompView);\n      return elData ? elData.renderElement : undefined;\n    },\n    enumerable: true,\n    configurable: true\n  });\n  Object.defineProperty(DebugContext_.prototype, "renderNode", {\n    get: /**\n     * @return {?} \n     *\n     */ function () {\n      return this.nodeDef.flags & 2 /* TypeText */ ? renderNode(this.view, this.nodeDef)
:\n      renderNode(this.elView, this.elDef);\n    },\n    enumerable: true,\n    configurable: true\n  });\n  /**\n   * @param {?} console\n   * @param {...?} values\n   * @return {?} \n   *\n   */\n  DebugContext_.prototype.logError = /**\n     * @param {?} console\n     * @param {...?} values\n     * @return
{?} \n     *\n     */ function (console) {\n    var values = [];\n    for (var _i = 1; _i < arguments.length; _i++) {\n      values[_i - 1] = arguments[_i];\n    }\n    var /** @type {?} */ logViewDef;\n    var /** @type {?} */
logNodeIndex;\n    if (this.nodeDef.flags & 2 /* TypeText */) {\n      logViewDef = this.view.def;\n      logNodeIndex = this.nodeDef.nodeIndex;\n    } else {\n      logViewDef = this.elView.def;\n      logNodeIndex = this.elDef.nodeIndex;\n    }\n    // Note: we only generate a log function for text and element
nodes\n    // to make the generated code as small as possible.\n    var /** @type {?} */ renderNodeIndex =

```

```

getRenderNodeIndex(logViewDef, logNodeIndex);\n    var /** @type {?} */ currRenderNodeIndex = -1;\n    var /** @type {?} */ nodeLogger = function () {\n        currRenderNodeIndex++;\n        if\n        (currRenderNodeIndex === renderNodeIndex) {\n            return (_a = console.error).bind.apply(_a,\n            [console.concat(values)]);\n        }\n        else {\n            return NOOP;\n        }\n        var _a;\n    };\n    /** @type {?} */\n    ((logViewDef.factory))(nodeLogger);\n    if (currRenderNodeIndex < renderNodeIndex)\n    {\n        console.error('Illegal state: the ViewDefinitionFactory did not call the logger!');\n        console.error.apply(console, values);\n    }\n};\nreturn DebugContext_(\n);\n);\n\n/** @param {?} */\nviewDef\n * @param {?} */ nodeIndex\n * @return {?} */\n\nfunction getRenderNodeIndex(viewDef$$1, nodeIndex)\n{\n    var /** @type {?} */ renderNodeIndex = -1;\n    for (var /** @type {?} */ i = 0; i <= nodeIndex; i++) {\n        var /** @type {?} */ nodeDef = viewDef$$1.nodes[i];\n        if (nodeDef.flags & 3 /* CatRenderNode */) {\n            renderNodeIndex++;\n        }\n    }\n    return renderNodeIndex;\n}\n\n/** @param {?} */ view\n * @return {?} */\n\nfunction findHostElement(view) {\n    while (view && !isComponentView(view)) {\n        view = /** @type\n        {?} */ ((view.parent));\n    }\n    if (view.parent) {\n        return asElementData(view.parent, /** @type {?} */\n        ((viewParentEl(view))).nodeIndex);\n    }\n    return null;\n}\n\n/** @param {?} */ view\n * @param {?} */ nodeDef\n * @param {?} */ references\n * @return {?} */\n\nfunction collectReferences(view, nodeDef, references) {\n    for\n    (var /** @type {?} */ refName in nodeDef.references) {\n        references[refName] = getQueryValue(view,\n        nodeDef, nodeDef.references[refName]);\n    }\n}\n\n/** @param {?} */ action\n * @param {?} */ fn\n * @param {?} */\nself\n * @param {?} */ args\n * @return {?} */\n\nfunction callWithDebugContext(action, fn, self, args) {\n    var /**\n    @type {?} */ oldAction = _currentAction;\n    var /** @type {?} */ oldView = _currentView;\n    var /** @type {?} */\n    oldNodeIndex = _currentNodeIndex;\n    try {\n        _currentAction = action;\n        var /** @type {?} */ result =\n        fn.apply(self, args);\n        _currentView = oldView;\n        _currentNodeIndex = oldNodeIndex;\n        _currentAction = oldAction;\n        return result;\n    }\n    catch (** @type {?} */ e) {\n        if\n        (isViewDebugError(e) || !_currentView) {\n            throw e;\n        }\n        throw viewWrappedDebugError(e, /**\n        @type {?} */ ((getCurrentDebugContext())));\n    }\n}\n\n/** @return {?} */\n\nfunction\ngetCurrentDebugContext() {\n    return _currentView ? new DebugContext(_currentView, _currentNodeIndex) :\n    null;\n}\n\nvar DebugRendererFactory2 = /** @class */ (function () {\n    function DebugRendererFactory2(delegate)\n    {\n        this.delegate = delegate;\n    }\n\n    /** @param {?} */ element\n    * @param {?} */ renderData\n    * @return {?} */\n\n    DebugRendererFactory2.prototype.createRenderer = /** @param {?} */ element\n    * @param {?} */ renderData\n    * @return {?} */\n\n    function (element, renderData) {\n        return new\n        DebugRenderer2(this.delegate.createRenderer(element, renderData));\n    };\n\n    /** @return {?} */\n\n    DebugRendererFactory2.prototype.begin = /** @return {?} */\n\n    function () {\n        if\n        (this.delegate.begin) {\n            this.delegate.begin();\n        }\n    };\n\n    /** @return {?} */\n\n    DebugRendererFactory2.prototype.end = /** @return {?} */\n\n    function () {\n        if (this.delegate.end)\n        {\n            this.delegate.end();\n        }\n    };\n\n    /** @return {?} */\n\n    DebugRendererFactory2.prototype.whenRenderingDone = /** @return {?} */\n\n    function () {\n        if\n        (this.delegate.whenRenderingDone) {\n            return this.delegate.whenRenderingDone();\n        }\n        return\n        Promise.resolve(null);\n    };\n\n    return DebugRendererFactory2;\n}());\n\nvar DebugRenderer2 = /** @class */\n(function () {\n    function DebugRenderer2(delegate) {\n        this.delegate = delegate;\n        this.data =\n        this.delegate.data;\n    }\n\n    /** @param {?} */ node\n    * @return {?} */\n\n    DebugRenderer2.prototype.destroyNode = /** @param {?} */ node\n    * @return {?} */\n\n    function\n    (node) {\n        removeDebugNodeFromIndex(** @type {?} */ ((getDebugNode(node))));\n        if\n        (this.delegate.destroyNode) {\n            this.delegate.destroyNode(node);\n        }\n    };\n\n    /** @return {?} */\n\n    DebugRenderer2.prototype.destroy = /** @return {?} */\n\n    function () {\n        this.delegate.destroy();\n    };\n\n    /** @param {?} */ name\n    * @param {?} */ namespace\n    * @return {?} */\n\n    DebugRenderer2.prototype.createElement = /** @param {?} */ name\n    * @param {?} */ namespace\n    * @return {?} */\n\n    function (name, namespace) {\n        var /** @type {?} */ el =\n        this.delegate.createElement(name, namespace);\n        var /** @type {?} */ debugCtx =\n        getCurrentDebugContext();\n        if (debugCtx) {\n            var /** @type {?} */ debugEl = new DebugElement(el,\n
```

```

null, debugCtx);\n      debugEl.name = name;\n      indexDebugNode(debugEl);\n    }\n    return el;\n  };\n  /**\n   * @param {?} value\n   * @return {?}\n   */\n  DebugRenderer2.prototype.createComment =\n  /**\n   * @param {?} value\n   * @return {?}\n   */\n  function (value) {\n    var /** @type {?} */ comment =\n    this.delegate.createComment(value);\n    var /** @type {?} */ debugCtx = getCurrentDebugContext();\n    if (debugCtx) {\n      indexDebugNode(new DebugNode(comment, null, debugCtx));\n    }\n    return\n    comment;\n  };\n  /**\n   * @param {?} value\n   * @return {?}\n   */\n  DebugRenderer2.prototype.createText = /**\n   * @param {?} value\n   * @return {?}\n   */\n  function (value)\n  {\n    var /** @type {?} */ text = this.delegate.createText(value);\n    var /** @type {?} */ debugCtx =\n    getCurrentDebugContext();\n    if (debugCtx) {\n      indexDebugNode(new DebugNode(text, null,\n      debugCtx));\n    }\n    return text;\n  };\n  /**\n   * @param {?} parent\n   * @param {?} newChild\n   * @return {?}\n   */\n  DebugRenderer2.prototype.appendChild = /**\n   * @param {?} parent\n   * @param {?} newChild\n   * @return {?}\n   */\n  function (parent, newChild) {\n    var /** @type {?} */ debugEl =\n    getDebugNode(parent);\n    var /** @type {?} */ debugChildEl = getDebugNode(newChild);\n    if (debugEl\n    && debugChildEl && debugEl instanceof DebugElement) {\n      debugEl.addChild(debugChildEl);\n    }\n    this.delegate.appendChild(parent, newChild);\n  };\n  /**\n   * @param {?} parent\n   * @param {?} newChild\n   * @param {?} refChild\n   * @return {?}\n   */\n  DebugRenderer2.prototype.insertBefore =\n  /**\n   * @param {?} parent\n   * @param {?} newChild\n   * @param {?} refChild\n   * @return {?}\n   */\n  function (parent, newChild, refChild) {\n    var /** @type {?} */ debugEl = getDebugNode(parent);\n    var\n    /** @type {?} */ debugChildEl = getDebugNode(newChild);\n    var /** @type {?} */ debugRefEl = /** @type\n    {?} */ ((getDebugNode(refChild)));\n    if (debugEl && debugChildEl && debugEl instanceof DebugElement)\n    {\n      debugEl.insertBefore(debugRefEl, debugChildEl);\n    }\n    this.delegate.insertBefore(parent,\n    newChild, refChild);\n  };\n  /**\n   * @param {?} parent\n   * @param {?} oldChild\n   * @return {?}\n   */\n  DebugRenderer2.prototype.removeChild = /**\n   * @param {?} parent\n   * @param {?} oldChild\n   * @return {?}\n   */\n  function (parent, oldChild) {\n    var /** @type {?} */ debugEl =\n    getDebugNode(parent);\n    var /** @type {?} */ debugChildEl = getDebugNode(oldChild);\n    if (debugEl\n    && debugChildEl && debugEl instanceof DebugElement) {\n      debugEl.removeChild(debugChildEl);\n    }\n    this.delegate.removeChild(parent, oldChild);\n  };\n  /**\n   * @param {?} selectorOrNode\n   * @return {?}\n   */\n  DebugRenderer2.prototype.selectRootElement = /**\n   * @param {?} selectorOrNode\n   * @return {?}\n   */\n  function (selectorOrNode) {\n    var /** @type {?} */ el =\n    this.delegate.selectRootElement(selectorOrNode);\n    var /** @type {?} */ debugCtx =\n    getCurrentDebugContext();\n    if (debugCtx) {\n      indexDebugNode(new DebugElement(el, null,\n      debugCtx));\n    }\n    return el;\n  };\n  /**\n   * @param {?} el\n   * @param {?} name\n   * @param\n    {?} value\n   * @param\n    {?} namespace\n   * @return\n    {?}\n   */\n  DebugRenderer2.prototype.setAttribute =\n  /**\n   * @param {?} el\n   * @param {?} name\n   * @param\n    {?} value\n   * @param\n    {?} namespace\n   * @return\n    {?}\n   */\n  function (el, name, value, namespace) {\n    var /** @type {?} */ debugEl =\n    getDebugNode(el);\n    if (debugEl && debugEl instanceof DebugElement) {\n      var /** @type {?} */\n      fullName = namespace ? namespace + ':' + name : name;\n      debugEl.attributes[fullName] = value;\n    }\n    this.delegate.setAttribute(el, name, value, namespace);\n  };\n  /**\n   * @param {?} el\n   * @param\n    {?} name\n   * @param\n    {?} namespace\n   * @return\n    {?}\n   */\n  DebugRenderer2.prototype.removeAttribute =\n  /**\n   * @param {?} el\n   * @param\n    {?} name\n   * @param\n    {?} namespace\n   * @return\n    {?}\n   */\n  function (el, name, namespace) {\n    var /** @type {?} */ debugEl = getDebugNode(el);\n    if (debugEl &&\n    debugEl instanceof DebugElement) {\n      var /** @type {?} */ fullName = namespace ? namespace + ':' +\n      name : name;\n      debugEl.attributes[fullName] = null;\n    }\n    this.delegate.removeAttribute(el, name,\n    namespace);\n  };\n  /**\n   * @param {?} el\n   * @param\n    {?} name\n   * @return\n    {?}\n   */\n  DebugRenderer2.prototype.addClass = /**\n   * @param {?} el\n   * @param\n    {?} name\n   * @return\n    {?}\n   */\n  function (el, name) {\n    var /** @type {?} */ debugEl = getDebugNode(el);\n    if (debugEl &&\n    debugEl instanceof DebugElement) {\n      debugEl.classes[name] = true;\n    }\n    this.delegate.addClass(el, name);\n  };\n  /**\n   * @param {?} el\n   * @param\n    {?} name\n   * @return\n    {?}\n   */

```

```

*\n  DebugRenderer2.prototype.removeClass = /**\n   * @param {?} el\n   * @param {?} name\n   *
@return {?}\n   *\n   function (el, name) {\n     var /** @type {?} */ debugEl = getDebugNode(el);\n     if
(debugEl && debugEl instanceof DebugElement) {\n       debugEl.classes[name] = false;\n     }\n     this.delegate.removeClass(el, name);\n   };\n   /**\n   * @param {?} el\n   * @param {?} style\n   * @param
{?} value\n   * @param {?} flags\n   * @return {?}\n   *\n   DebugRenderer2.prototype.setStyle = /**\n   *
@param {?} el\n   * @param {?} style\n   * @param {?} value\n   * @param {?} flags\n   * @return {?}\n   *\n   function (el, style, value, flags) {\n     var /** @type {?} */ debugEl = getDebugNode(el);\n     if (debugEl
&& debugEl instanceof DebugElement) {\n       debugEl.styles[style] = value;\n     }\n     this.delegate.setStyle(el, style, value, flags);\n   };\n   /**\n   * @param {?} el\n   * @param {?} style\n   *
@param {?} flags\n   * @return {?}\n   *\n   DebugRenderer2.prototype.removeStyle = /**\n   * @param {?}
el\n   * @param {?} style\n   * @param {?} flags\n   * @return {?}\n   *\n   function (el, style, flags) {\n     var /** @type {?} */ debugEl = getDebugNode(el);\n     if (debugEl && debugEl instanceof DebugElement) {\n
       debugEl.styles[style] = null;\n     }\n     this.delegate.removeStyle(el, style, flags);\n   };\n   /**\n   *
@param {?} el\n   * @param {?} name\n   * @param {?} value\n   * @return {?}\n   *\n   DebugRenderer2.prototype.setProperty = /**\n   * @param {?} el\n   * @param {?} name\n   * @param {?}
value\n   * @return {?}\n   *\n   function (el, name, value) {\n     var /** @type {?} */ debugEl =
getDebugNode(el);\n     if (debugEl && debugEl instanceof DebugElement) {\n       debugEl.properties[name]
= value;\n     }\n     this.delegate.setProperty(el, name, value);\n   };\n   /**\n   * @param {?} target\n   *
@param {?} eventName\n   * @param {?} callback\n   * @return {?}\n   *\n   DebugRenderer2.prototype.listen = /**\n   * @param {?} target\n   * @param {?} eventName\n   * @param {?}
callback\n   * @return {?}\n   *\n   function (target, eventName, callback) {\n     if (typeof target !== 'string')
{\n       var /** @type {?} */ debugEl = getDebugNode(target);\n       if (debugEl) {\n         debugEl.listeners.push(new EventListener(eventName, callback));\n       }\n     }\n     return
this.delegate.listen(target, eventName, callback);\n   };\n   /**\n   * @param {?} node\n   * @return {?}\n   *\n   DebugRenderer2.prototype.parentNode = /**\n   * @param {?} node\n   * @return {?}\n   *\n   function
(node) {\n     return this.delegate.parentNode(node);\n   };\n   /**\n   * @param {?} node\n   * @return {?}\n   *\n   DebugRenderer2.prototype.nextSibling = /**\n   * @param {?} node\n   * @return {?}\n   *\n   function (node)
{\n     return this.delegate.nextSibling(node);\n   };\n   /**\n   * @param {?} node\n   * @param {?} value\n   * @return
{?}\n   *\n   DebugRenderer2.prototype.setValue = /**\n   * @param {?} node\n   * @param {?} value\n   *
@return {?}\n   *\n   function (node, value) {\n     return this.delegate.setValue(node, value);\n   };\n   return
DebugRenderer2;\n})();\n\n/**\n * @fileoverview added by tsickle\n * @suppress {checkTypes} checked by tsc\n
*\n/**\n * @license\n * Copyright Google Inc. All Rights Reserved.\n * Use of this source code is governed by
an MIT-style license that can be\n * found in the LICENSE file at https://angular.io/license\n */\n/**\n * @param
{?} override\n * @return {?}\n */\nfunction overrideProvider(override) {\n  initServicesIfNeeded();\n  return
Services.overrideProvider(override);\n}\n\n/**\n * @param {?} comp\n * @param {?} componentFactory\n *
@return {?}\n */\nfunction overrideComponentView(comp, componentFactory) {\n  initServicesIfNeeded();\n  return
Services.overrideComponentView(comp, componentFactory);\n}\n\n/**\n * @return {?}\n */\nfunction
clearOverrides() {\n  initServicesIfNeeded();\n  return Services.clearOverrides();\n}\n\n/**\n * @param {?}
ngModuleType\n * @param {?} bootstrapComponents\n * @param {?} defFactory\n * @return {?}\n */\nfunction
createNgModuleFactory(ngModuleType, bootstrapComponents, defFactory) {\n  return new
NgModuleFactory_(ngModuleType, bootstrapComponents, defFactory);\n}\n\nvar NgModuleFactory_ = /** @class
*/\n(function (_super) {\n  __extends(NgModuleFactory_, _super);\n  function NgModuleFactory_(moduleType,
_bootstrapComponents, _ngModuleDefFactory) {\n    var _this =\n      // Attention: this ctor is called as top
level function.\n      // Putting any logic in here will destroy closure tree shaking!\n      _super.call(this) || this;\n    _this.moduleType = moduleType;\n    _this._bootstrapComponents = _bootstrapComponents;\n    _this._ngModuleDefFactory = _ngModuleDefFactory;\n    return _this;\n  }\n  /**\n   * @param {?}
parentInjector\n   * @return {?}\n   *\n   NgModuleFactory_.prototype.create = /**\n   * @param {?}
parentInjector\n   * @return {?}\n   *\n   function (parentInjector) {\n     initServicesIfNeeded();\n     var /**

```


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* Finds the closest DOM node above a given container in the hierarchy.

* This is necessary to add or remove elements from the DOM when a view is added or removed from the container. e.g. `parent.removeChild(...)`

* @param {?} containerNode The container node whose parent must be found

* @return {?} Closest DOM node above the container

```

function findNativeParent(containerNode) {
  var /** @type {?} */ container = containerNode;
  while (container) {
    ngDevMode && assertNodeType(container, 0 /* Container */);
    var /** @type {?} */ renderParent = container.data.renderParent;
    if (renderParent !== null) {
      return renderParent.native;
    }
    var /** @type {?} */ viewOrElement = /** @type {?} */ ((container.parent));
    ngDevMode && assertNotNull(viewOrElement, 'container.parent');
    if (((viewOrElement.flags & 3 /* TYPE_MASK */) === 3 /* Element */) {
      // we are an LElement, which means we are past the last LContainer.
      // This means that we have not been projected so just ignore.
      return null;
    }
    ngDevMode && assertNodeType(viewOrElement, 2 /* View */);
    container = /** @type {?} */ (viewOrElement).parent;
  }
  return null;
}

```

* Finds the DOM element before which a certain view should be inserting its child elements.

* If the view has a next (e.g. for loop), elements should be inserted before the next view's first child element. Otherwise, the container's comment anchor is the marker.

* @param {?} index The index of the view to check

* @param {?} state ContainerState of the parent container

* @param {?} native Comment anchor for container

* @return {?} The DOM element for which the view should insert elements

```

function findBeforeNode(index, state, native) {
  var /** @type {?} */ views = state.views;
  // Find the node to insert in front of
  return index + 1 < views.length ?
    /** @type {?} */ (views[index + 1].child).native :
    native;
}

```

* @param {?} container

* @param {?} rootNode

* @param {?} insertMode

* @param {=} beforeNode

* @return {?}

```

function addRemoveViewFromContainer(container, rootNode, insertMode, beforeNode) {
  ngDevMode && assertNodeType(container, 0 /* Container */);
  ngDevMode && assertNodeType(rootNode, 2 /* View */);
  var /** @type {?} */ parent = findNativeParent(container);
  var /** @type {?} */ node = rootNode.child;
  if (parent) {
    while (node) {
      var /** @type {?} */ type = node.flags & 3;
      var /** @type {?} */ nextNode = null;
      var /** @type {?} */ renderer = container.view.renderer;
      var /** @type {?} */ isFnRenderer = /** @type {?} */ (renderer).listen;
      if (type === 3 /* Element */) {
        insertMode ? (isFnRenderer ? /** @type {?} */ (((/** @type {?} */ (renderer))
          .insertBefore))(parent, /** @type {?} */ ((node.native)), /** @type {?} */ (beforeNode))
          : parent.insertBefore(/** @type {?} */ ((node.native)), /** @type {?} */ (beforeNode), true))
          : (isFnRenderer ? /** @type {?} */ (((/** @type {?} */ (renderer)).removeChild)(/** @type {?} */ (parent), /** @type {?} */ ((node.native)))
          : parent.removeChild(/** @type {?} */ ((node.native)))));
        nextNode = node.next;
      }
      else if (type === 0 /* Container */) {
        // if we get to a container, it must be a root node of a view because we are only
        // propagating down into child views / containers and not child elements
        var /** @type {?} */ childContainerData = /** @type {?} */ (node).data;
        insertMode ? (isFnRenderer ? /** @type {?} */ (((/** @type {?} */ (renderer))
          .appendChild)(/** @type {?} */ (parent), /** @type {?} */ ((node.native)))
          : parent.appendChild(/** @type {?} */ ((node.native))))
          : (isFnRenderer ? /** @type {?} */ (((/** @type {?} */ (renderer)).removeChild)(/** @type {?} */ (parent), /** @type {?} */ ((node.native)))
          : parent.removeChild(/** @type {?} */ ((node.native)))));
        nextNode = childContainerData.views.length ? childContainerData.views[0].child : null;
      }
      else if (type === 1 /* Projection */) {
        nextNode = /** @type {?} */ (node).data[0];
      }
      else {
        nextNode = /** @type {?} */ (node).child;
      }
      if (nextNode === null) {
        while (node && !node.next) {
          node = node.parent;
          if (node === rootNode) {
            node = null;
          }
          node = node && node.next;
        }
        else {
          node = nextNode;
        }
      }
    }
  }
}

```

* Traverses the tree of component views and containers to remove listeners and call onDestroy callbacks.

* Notes:

- Because it's used for onDestroy calls, it needs to be bottom-up.
- Must process containers instead of their views to avoid splicing when views are destroyed and re-added.

Using a while loop because it's faster than recursion

```

 * - Destroy only called on movement to sibling or movement
 to parent (laterally or up)
 * @param rootView The view to destroy
 * @param {*} rootView
 * @return
 {*}
 */
function destroyViewTree(rootView) {
  var viewType = rootView;
  while (viewOrContainerState) {
    var next = null;
    if (viewOrContainerState.views &&
viewOrContainerState.views.length) {
      next = viewOrContainerState.views[0].data;
    } else if
(viewOrContainerState.child) {
      next = viewOrContainerState.child;
    } else if
(viewOrContainerState.next) {
      cleanUpView(viewOrContainerState);
      next =
viewOrContainerState.next;
    }
    if (next == null) {
      while (viewOrContainerState && viewType) {
        cleanUpView(viewOrContainerState);
        viewOrContainerState = getParentState(viewOrContainerState, rootView);
      }
      cleanUpView(viewOrContainerState || rootView);
      next = viewOrContainerState &&
viewOrContainerState.next;
    }
    viewOrContainerState = next;
  }
}

```

Inserts a view into a container.

This adds the view to the container's array of active views in the correct position. It also adds the view's elements to the DOM if the container isn't a root node of another view (in that case, the view's elements will be added when the container's parent view is added later).

@param {*} container The container into which the view should be inserted

@param {*} newView The view to insert

@param {*} index The index at which to insert the view

@return {*} The inserted view

```

function insertView(container, newView, index) {
  var state = container.data;
  var views = state.views;
  if (index > 0) {
    // This is a new view, we need to add it to the children.
    setViewNext(views[index - 1], newView);
  }
  if (index < views.length && views[index].data.id !== newView.data.id) {
    // View ID change replace the view.
    setViewNext(newView, views[index]);
    views.splice(index, 0, newView);
  }
  else if (index >= views.length) {
    views.push(newView);
  }
  if (state.nextIndex <= index) {
    state.nextIndex++;
  }
  // If the container's renderParent is null, we know that it is a root node of its own parent view
  // and we should wait until that parent processes its nodes (otherwise, we will insert this view's nodes
  // twice - once now and once when its parent inserts its views).
  if (container.data.renderParent !== null) {
    addRemoveViewFromContainer(container, newView, true, findBeforeNode(index, state, container.native));
  }
  // Notify query that view has been inserted
  container.query && container.query.insertView(container, newView, index);
  return newView;
}

```

Removes a view from a container.

This method splices the view from the container's array of active views. It also removes the view's elements from the DOM and conducts cleanup (e.g. removing listeners, calling onDestroy).

@param {*} container The container from which to remove a view

@param {*} removeIndex The index of the view to remove

@return {*} The removed view

```

function removeView(container, removeIndex) {
  var views = container.data.views;
  var viewNode = views[removeIndex];
  if (removeIndex > 0) {
    setViewNext(views[removeIndex - 1], viewNode.next);
  }
  views.splice(removeIndex, 1);
  destroyViewTree(viewNode.data);
  addRemoveViewFromContainer(container, viewNode, false);
  // Notify query that view has been removed
  container.query && container.query.removeView(container, viewNode, removeIndex);
  return viewNode;
}

```

Sets a next on the view node, so views in for loops can easily jump from one view to the next to add/remove elements. Also adds the ViewState (view.data) to the view tree for easy traversal when cleaning up the view.

@param {*} view The view to set up

@param {*} next The view's new next

@return {*}

```

function setViewNext(view, next) {
  view.next = next;
  view.data.next = next ? next.data : null;
}

```

Determines which ViewOrContainerState to jump to when traversing back up the tree in destroyViewTree.

Normally, the view's parent ViewState should be checked, but in the case of embedded views, the container (which is the view node's parent, but not the ViewState's parent) needs to be checked for a possible next property.

@param {*} state The ViewOrContainerState for which we need a parent state

@param {*} rootView The rootView, so we don't propagate too far up the view tree

@return {*} The correct parent ViewOrContainerState

```

function getParentState(state, rootView) {
  var node;
  if ((node = state ? state : state).node) {
    if (node.flags & 3 * TYPE_MASK) {
      // if it's an embedded view, the state needs to go up to the container, in

```



```

case the\n    // container has a next\n    return /** @type {?} */ (((node.parent)).data);\n  }\n  else {\n    //
otherwise, use parent view for containers or component views\n    return state.parent === rootView ? null :
state.parent;\n  }\n}\n/**\n * Removes all listeners and call all onDestroy in a given view.\n * @param {?}
viewState The ViewState of the view to clean up\n * @return {?} */\nfunction cleanUpView(viewState) {\n  if
(!viewState.cleanup)\n    return;\n  var /** @type {?} */ cleanup = /** @type {?} */ ((viewState.cleanup));\n
for (var /** @type {?} */ i = 0; i < cleanup.length - 1; i += 2) {\n    if (typeof cleanup[i] === 'string') {\n
/** @type {?} */ ((cleanup))[i + 1].removeEventListener(cleanup[i], cleanup[i + 2], cleanup[i + 3]);\n      i +=
2;\n    }\n    else {\n      cleanup[i].call(cleanup[i + 1]);\n    }\n  }\n  viewState.cleanup = null;\n}\n/**\n
* Appends the provided child element to the provided parent, if appropriate.\n * @param {?} parent The parent to which to append
the child\n * @param {?} child The child that should be appended\n * @param {?} currentView The current view's
ViewState\n * @return {?} Whether or not the child was appended\n */\nfunction appendChild(parent, child,
currentView) {\n  // Only add native child element to parent element if the parent element is regular Element.\n  //
If parent is:\n  // - Regular element => add child\n  // - Component host element =>\n  // - Current View, and
parent view same => content => don't add -> parent component will\n  // re-project if needed.\n  // - Current
View, and parent view different => view => add Child\n  // - View element => View's get added separately.\n  if
(child !== null && (parent.flags & 3 /* TYPE_MASK */) === 3 /* Element */ &&\n    (parent.view !==\n
currentView /* Crossing View Boundaries, it is Component, but add Element of View *\n      || parent.data ===
null /* Regular Element. */)) {\n    // We only add element if not in View or not projected.\n    var /** @type
{?} */ renderer = currentView.renderer;\n    (/** @type {?} */ (renderer)).listen ? /** @type {?} */ (((/** @type
{?} */ (renderer)).appendChild)(/** @type {?} */ ((parent.native))), child) : /** @type {?} */
((parent.native)).appendChild(child);\n    return true;\n  }\n  return false;\n}\n/**\n * Inserts the provided node
before the correct element in the DOM, if appropriate.\n * @param {?} node Node to insert\n * @param {?} currentView The
current view's ViewState\n * @return {?} */\nfunction insertChild(node, currentView) {\n  var /** @type {?} */
parent = /** @type {?} */ ((node.parent));\n  // Only add child element to parent element if the parent element is
regular Element.\n  // If parent is:\n  // - Normal element => add child\n  // - Component element =>\n  // -
Current View, and parent view same => content don't add -> parent component will\n  // re-project if needed.\n
// - Current View, and parent view different => view => add Child\n  // - View element => View's get added
separately.\n  if ((parent.flags & 3 /* TYPE_MASK */) === 3 /* Element */ &&\n    (parent.view !==\n
currentView /* Crossing View Boundaries, its Component, but add Element of View *\n      || parent.data ===
null /* Regular Element. */)) {\n    // We only add element if not in View or not projected.\n    var /** @type
{?} */ sibling = node.next;\n    var /** @type {?} */ nativeSibling = null;\n    while (sibling && (nativeSibling
= sibling.native) === null) {\n      sibling = sibling.next;\n    }\n    var /** @type {?} */ renderer =
currentView.renderer;\n    (/** @type {?} */ (renderer)).listen ? /** @type {?} */ (((/** @type {?} */
(renderer)).insertBefore)(/** @type {?} */ ((parent.native)), /** @type {?} */ ((node.native)),
nativeSibling) : /** @type {?} */ ((parent.native)).insertBefore(/** @type {?} */ ((node.native)), nativeSibling,
false);\n  }\n}\n/**\n * Appends a projected node to the DOM, or in the case of a projected container,\n * appends
the nodes from all of the container's active views to the DOM. Also stores the\n * node in the given projectedNodes
array.\n * @param {?} projectedNodes Array to store the projected node\n * @param {?} node The node to
process\n * @param {?} currentParent The last parent element to be processed\n * @param {?} currentView The
current view's ViewState\n * @return {?} */\nfunction\n/**\n * @fileoverview added by tsickle\n * @suppress
{checkTypes} checked by tsc\n */\n/**\n * Copyright Google Inc. All Rights Reserved.\n * Use of
this source code is governed by an MIT-style license that can be\n * found in the LICENSE file at

```

```

https://angular.io/license\n *^n/**\n * A utility function to match an Ivy node static data against a simple CSS
selector\n *^n * @param {?} INodeStaticData\n * @param {?} selector\n * @return {?} true if node matches the
selector.\n *^n\n/**\n * @param {?} INodeStaticData\n * @param {?} selector\n * @return {?} }\n *^n\n/**\n *
@param {?} INodeStaticData\n * @param {?} selector\n * @return {?} }\n *^n\n/**\n * @fileoverview added by
tsickle\n * @suppress {checkTypes} checked by tsc\n *^n\n/**\n * @license\n * Copyright Google Inc. All Rights
Reserved.\n *^n * Use of this source code is governed by an MIT-style license that can be\n * found in the
LICENSE file at https://angular.io/license\n *^n\n/**\n * Must use this method for CD (instead of === ) since NaN
!== NaN\n * @param {?} a\n * @param {?} b\n * @return {?} }\n *^n\nfunction isDifferent(a, b) {\n // NaN is the
only value that is not equal to itself so the first\n // test checks if both a and b are not NaN\n return !(a !== a &&
b !== b) && a !== b;\n}\n/**\n * @param {?} value\n * @return {?} }\n *^n\nfunction stringify$1(value) {\n if
(typeof value === 'function')\n return value.name || value;\n if (typeof value === 'string')\n return value;\n
if (value === null)\n return ";\n return " + value;\n}\n/**\n * Function that throws a \"not implemented\" error
so it's clear certain\n * behaviors/methods aren't yet ready.\n *^n * @return {?} Not implemented error\n *^n\n/**\n *
@fileoverview added by tsickle\n * @suppress {checkTypes} checked by tsc\n *^n\n/**\n * @license\n *
Copyright Google Inc. All Rights Reserved.\n *^n * Use of this source code is governed by an MIT-style license that
can be\n * found in the LICENSE file at https://angular.io/license\n *^n\n/**\n * If a directive is diPublic, bloomAdd
sets a property on the instance with this constant as\n * the key and the directive's unique ID as the value. This
allows us to map directives to their\n * bloom filter bit for DI.\n *^n\nvar NG_ELEMENT_ID =
'__NG_ELEMENT_ID__';\n/**\n * The number of slots in each bloom filter (used by DI). The larger this number,
the fewer\n * directives that will share slots, and thus, the fewer false positives when checking for\n * the existence
of a directive.\n *^n\nvar BLOOM_SIZE = 128;\n/**\n * Registers this directive as present in its node's injector by
flipping the directive's\n * corresponding bit in the injector's bloom filter.\n *^n * @param {?} injector The node
injector in which the directive should be registered\n * @param {?} type The directive to register\n * @return {?} }\n *^n\n/**\n * Creates (or gets an existing) injector for a given element or container.\n *^n * @param {?} node for
which an injector should be retrieved / created.\n * @return {?} Node injector\n *^n\n/**\n * Constructs an
injection error with the given text and token.\n *^n * @param {?} text The text of the error\n * @param {?} token
The token associated with the error\n * @return {?} The error that was created\n *^n\nfunction
createInjectionError(text, token) {\n return new Error(\"ElementInjector: \" + text + \" [\" + stringify$1(token) +
\"]\");\n}\n/**\n * Makes a directive public to the DI system by adding it to an injector's bloom filter.\n *^n *
@param {?} di The node injector in which a directive will be added\n * @param {?} def The definition of the
directive to be made public\n * @return {?} }\n *^n\n/**\n * Searches for an instance of the given directive type up
the injector tree and returns\n * that instance if found.\n *^n * Specifically, it gets the bloom filter bit associated with
the directive (see bloomHashBit),\n * checks that bit against the bloom filter structure to identify an injector that
might have\n * the directive (see bloomFindPossibleInjector), then searches the directives on that injector\n * for a
match.\n *^n * If not found, it will propagate up to the next parent injector until the token\n * is found or the top is
reached.\n *^n * @template T\n * @param {?} di Node injector where the search should start\n * @param {?} token
The directive type to search for\n * @param {?=} flags Injection flags (e.g. CheckParent)\n * @return {?} The
instance found\n *^n\n/**\n * Given a directive type, this function returns the bit in an injector's bloom filter\n *
that should be used to determine whether or not the directive is present.\n *^n * When the directive was added to the
bloom filter, it was given a unique ID that can be\n * retrieved on the class. Since there are only BLOOM_SIZE
slots per bloom filter, the directive's\n * ID must be modulo-ed by BLOOM_SIZE to get the correct bloom bit
(directives share slots after\n * BLOOM_SIZE is reached).\n *^n * @param {?} type The directive type\n * @return
{?} The bloom bit to check for the directive\n *^n\nfunction bloomHashBit(type) {\n var /** @type {?} */ id = (/**
@type {?} */ (type))[NG_ELEMENT_ID];\n return typeof id === 'number' ? id % BLOOM_SIZE :
null;\n}\n/**\n * Finds the closest injector that might have a certain directive.\n *^n * Each directive corresponds to
a bit in an injector's bloom filter. Given the bloom bit to\n * check and a starting injector, this function traverses up
injectors until it finds an\n * injector that contains a 1 for that bit in its bloom filter. A 1 indicates that the\n *
injector may have that directive. It only *may* have the directive because directives begin\n * to share bloom filter

```

bits after the BLOOM_SIZE is reached, and it could correspond to a\n * different directive sharing the bit.\n *\n * Note: We can skip checking further injectors up the tree if an injector's cbf structure\n * has a 0 for that bloom bit. Since cbf contains the merged value of all the parent\n * injectors, a 0 in the bloom bit indicates that the parents definitely do not contain\n * the directive and do not need to be checked.\n *\n * @param {?} startInjector\n * @param {?} bloomBit The bit to check in each injector's bloom filter\n * @return {?} An injector that might have the directive\n */\nfunction bloomFindPossibleInjector(startInjector, bloomBit) {\n // Create a mask that targets the specific bit associated with the directive we're looking for.\n // JS bit operations are 32 bits, so this will be a number between 2^0 and 2^31, corresponding\n // to bit positions 0 - 31 in a 32 bit integer.\n var /** @type {?} */ mask = 1 << bloomBit;\n // Traverse up the injector tree until we find a potential match or until we know there isn't a\n // match.\n var /** @type {?} */ injector = startInjector;\n while (injector) {\n // Our bloom filter size is 128 bits, which is four 32-bit bloom filter buckets:\n // bf0 = [0 - 31], bf1 = [32 - 63], bf2 = [64 - 95], bf3 = [96 - 127]\n // Get the bloom filter value from the appropriate bucket based on the directive's bloomBit.\n var /** @type {?} */ value = bloomBit < 64 ? (bloomBit < 32 ? injector.bf0 : injector.bf1) :\n (bloomBit < 96 ? injector.bf2 : injector.bf3);\n // If the bloom filter value has the bit corresponding to the directive's bloomBit flipped on,\n // this injector is a potential match.\n if ((value & mask) === mask) {\n return injector;\n }\n // If the current injector does not have the directive, check the bloom filters for the ancestor\n // injectors (cbf0 - cbf3). These filters capture *all* ancestor injectors.\n value = bloomBit < 64 ?\n (bloomBit < 32 ? injector.cbf0 : injector.cbf1) :\n (bloomBit < 96 ? injector.cbf2 : injector.cbf3);\n // If the ancestor bloom filter value has the bit corresponding to the directive, traverse up to\n // find the specific injector. If the ancestor bloom filter does not have the bit, we can abort.\n injector = (value & mask) ? injector.parent : null;\n }\n return null;\n }\n\n /**\n * Creates an ElementRef for a given node injector and stores it on the injector.\n * Or, if the ElementRef already exists, retrieves the existing ElementRef.\n *\n * @param {?} di The node injector where we should store a created ElementRef\n * @return {?} The ElementRef instance to use\n */\n\n /**\n * Creates a TemplateRef and stores it on the injector. Or, if the TemplateRef already\n * exists, retrieves the existing TemplateRef.\n *\n * @template T\n * @param {?} di The node injector where we should store a created TemplateRef\n * @return {?} The TemplateRef instance to use\n */\n\n /**\n * Creates a ViewContainerRef and stores it on the injector. Or, if the ViewContainerRef\n * already exists, retrieves the existing ViewContainerRef.\n *\n * @param {?} di\n * @return {?} The ViewContainerRef instance to use\n */\n\n @fileoverview added by tsickle\n @suppress {checkTypes} checked by tsc\n @license\n Copyright Google Inc. All Rights Reserved.\n Use of this source code is governed by an MIT-style license that can be\n found in the LICENSE file at https://angular.io/license\n */\n\n A predicate which determines if a given element/directive should be included in the query\n @record\n ^\n nvar QueryList_ = /** @class */ (function () {\n function QueryList_() {\n this.dirty = false;\n /**\n * @internal\n */\n this._valuesTree = null;\n /**\n * @internal\n */\n this._values = null;\n }\n\n Object.defineProperty(QueryList_.prototype, "length", {\n get: /**\n * @return {?} */\n ^\n function () {\n ngDevMode && assertNotNull(this._values, 'refreshed');\n return /** @type {?} */ ((this._values)).length;\n },\n enumerable: true,\n configurable: true\n });\n\n Object.defineProperty(QueryList_.prototype, "first", {\n get: /**\n * @return {?} */\n ^\n function () {\n ngDevMode && assertNotNull(this._values, 'refreshed');\n var /** @type {?} */ values = /** @type {?} */ ((this._values));\n return values.length ? values[0] : null;\n },\n enumerable: true,\n configurable: true\n });\n\n Object.defineProperty(QueryList_.prototype, "last", {\n get: /**\n * @return {?} */\n ^\n function () {\n ngDevMode && assertNotNull(this._values, 'refreshed');\n var /** @type {?} */ values = /** @type {?} */ ((this._values));\n return values.length ? values[values.length - 1] : null;\n },\n enumerable: true,\n configurable: true\n });\n\n /** @internal\n */\n /**\n * @return {?} */\n ^\n QueryList_.prototype._refresh = /**\n * @internal\n */\n /**\n * @return {?} */\n ^\n function () {\n // TODO(misko): needs more logic to flatten tree.\n if (this._values === null) {\n this._values = this._valuesTree;\n return true;\n }\n return false;\n });\n\n /**\n * @template U\n * @param {?} fn\n * @return {?} */\n ^\n QueryList_.prototype.map = /**\n * @template

```

U\n * @param {?} fn\n * @return {?}\n *^\n function (fn) {\n throw new Error('Method not
implemented.');
```

```

};\n /**\n * @param {?} fn\n * @return {?}\n *^\n QueryList_.prototype.filter =
/**\n * @param {?} fn\n * @return {?}\n *^\n function (fn) {\n throw new Error('Method not
implemented.');
```

```

};\n /**\n * @param {?} fn\n * @return {?}\n *^\n QueryList_.prototype.find = /**\n
* @param {?} fn\n * @return {?}\n *^\n function (fn) {\n throw new Error('Method not
implemented.');
```

```

};\n /**\n * @template U\n * @param {?} fn\n * @param {?} init\n * @return
{?}\n *^\n QueryList_.prototype.reduce = /**\n * @template U\n * @param {?} fn\n * @param {?}
init\n * @return {?}\n *^\n function (fn, init) {\n throw new Error('Method not implemented.');
```

```

};\n /**\n * @param {?} fn\n * @return {?}\n *^\n QueryList_.prototype.forEach = /**\n * @param {?} fn\n
* @return {?}\n *^\n function (fn) {\n throw new Error('Method not implemented.');
```

```

};\n /**\n * @param {?} fn\n * @return {?}\n *^\n QueryList_.prototype.some = /**\n * @param {?} fn\n *
@return {?}\n *^\n function (fn) {\n throw new Error('Method not implemented.');
```

```

};\n /**\n * @return {?}\n *^\n QueryList_.prototype.toArray = /**\n * @return {?}\n *^\n function () {\n
ngDevMode && assertNotNull(this._values, 'refreshed');
```

```

return /** @type {?} */ ((this._values));\n };\n
/**\n * @return {?}\n *^\n QueryList_.prototype.toString = /**\n * @return {?}\n *^\n function () {\n
throw new Error('Method not implemented.');
```

```

};\n /**\n * @param {?} res\n * @return {?}\n *^\n
QueryList_.prototype.reset = /**\n * @param {?} res\n * @return {?}\n *^\n function (res) {\n throw new
Error('Method not implemented.');
```

```

};\n /**\n * @return {?}\n *^\n QueryList_.prototype.notifyOnChanges
= /**\n * @return {?}\n *^\n function () {\n throw new Error('Method not implemented.');
```

```

};\n /**\n * @return {?}\n *^\n QueryList_.prototype.setDirty = /**\n * @return {?}\n *^\n function () {\n throw new
Error('Method not implemented.');
```

```

};\n /**\n * @return {?}\n *^\n QueryList_.prototype.destroy = /**\n
* @return {?}\n *^\n function () {\n throw new Error('Method not implemented.');
```

```

};\n return
QueryList_.prototype);\n\n/**\n * @param {?} query\n * @return {?}\n *^\n\n/**\n * @fileoverview added by tsickle\n
* @suppress {checkTypes} checked by tsc\n *^\n\n/**\n * @license\n * Copyright Google Inc. All Rights Reserved.\n
*\n * Use of this source code is governed by an MIT-style license that can be\n * found in the LICENSE file at
https://angular.io/license\n *^\n\n/**\n * @enum {number} *\n *^\n\nvar RendererStyleFlags3 = {\n Important: 1,\n
DashCase: 2,\n};\n\nRendererStyleFlags3[RendererStyleFlags3.Important] =
'Important';\n\nRendererStyleFlags3[RendererStyleFlags3.DashCase] = 'DashCase';\n\n/**\n * Object Oriented
style of API needed to create elements and text nodes.\n *\n * This is the native browser API style, e.g. operations
are methods on individual objects\n * like HTMLElement. With this style, no additional code is needed as a
facade\n * (reducing payload size).\n *\n * @record\n *^\n\n/**\n * Procedural style of API needed to create
elements and text nodes.\n *\n * In non-native browser environments (e.g. platforms such as web-workers), this is
the\n * facade that enables element manipulation. This also facilitates backwards compatibility\n * with
Renderer2.\n *\n * @record\n *^\n\n/**\n * @record\n *^\n\nvar domRendererFactory3 = {\n createRenderer: function
(hostElement, rendererType) {\n return document;\n };\n};\n\n/**\n * Subset of API needed for appending elements and
text nodes.\n *\n * @record\n *^\n\n/**\n * Subset of API needed for writing attributes, properties, and setting up\n *
listeners on Element.\n *\n * @record\n *^\n\n/**\n * @record\n *^\n\n/**\n * @record\n *^\n\n/**\n * @record\n
*^\n\n/**\n * @record\n *^\n\n/**\n * @fileoverview added by tsickle\n * @suppress {checkTypes} checked by
tsc\n *^\n\n/**\n * @license\n * Copyright Google Inc. All Rights Reserved.\n *\n * Use of this source code is
governed by an MIT-style license that can be\n * found in the LICENSE file at https://angular.io/license\n
*^\n\n/**\n * Directive (D) sets a property on all component instances using this constant as a key and the\n *
component's host
node (LElement) as the value. This is used in methods like detectChanges to\n * facilitate jumping from an instance
to the host node.\n *^\n\nvar NG_HOST_SYMBOL = '_ngHostLNode_';\n\n/**\n * This property gets set before
entering a template.\n *\n * This renderer can be one of two varieties of Renderer3:\n *\n * -
ObjectedOrientedRenderer3\n *\n * This is the native browser API style, e.g. operations are methods on individual
objects\n * like HTMLElement. With this style, no additional code is needed as a facade (reducing payload\n *
size).\n *\n * - ProceduralRenderer3\n *\n * In non-native browser environments (e.g. platforms such as web-
workers), this is the facade\n * that enables element manipulation. This also facilitates backwards compatibility

```

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with\n * Renderer2.\n *\nvar renderer;\nvar rendererFactory;\n/**\n * Used to set the parent property when nodes
are created.\n *\nvar previousOrParentNode;\n/**\n * If `isParent` is:\n * - `true`: then `previousOrParentNode`
points to a parent node.\n * - `false`: then `previousOrParentNode` points to previous node (sibling).\n *\nvar
isParent;\n/**\n * The current template's static data (shared between all templates of a\n * given type).\n *\n * Each
node's static data is stored at the same index that it's stored\n * in the data array. Any nodes that do not have static
data store a null\n * value to avoid a sparse array.\n *\nvar ngStaticData;\n/**\n * State of the current view being
processed.\n *\nvar currentView;\n// The initialization has to be after the `let`, otherwise `createViewState` can't see
`let`.\ncurrentView = createViewState(** @type {?} */ ((null)), /** @type {?} */ ((null)), []);\nvar
currentQuery;\n/**\n * This property gets set before entering a template.\n *\nvar creationMode;\n/**\n * An array
of nodes (text, element, container, etc), their bindings, and\n * any local variables that need to be stored between
invocations.\n *\nvar data;\n/**\n * Points to the next binding index to read or write to.\n *\nvar
bindingIndex;\n/**\n * When a view is destroyed, listeners need to be released\n * and onDestroy callbacks need to
be called. This cleanup array\n * stores both listener data (in chunks of 4) and onDestroy data\n * (in chunks of 2),
as they'll be processed at the same time.\n *\n * If it's a listener being stored:\n * 1st index is: event name to
remove\n * 2nd index is: native element\n * 3rd index is: listener function\n * 4th index is: useCapture boolean\n
*\n * If it's an onDestroy function:\n * 1st index is: onDestroy function\n * 2nd index is: context for function\n
*\nvar cleanup;\n/**\n * Index in the data array at which view hooks begin to be stored.\n *\nvar
viewHookStartIndex;\n/**\n * Swap the current state with a new state.\n *\n * For performance reasons we store the
state in the top level of the module.\n * This way we minimize the number of properties to read. Whenever a new
view\n * is entered we have to store the state for later, and when the view is\n * exited the state has to be restored\n
*\n * @param {?} newViewState New state to become active\n * @param {?} host Element to which the View is a
child of\n * @return {?} the previous state;\n *\nfunction enterView(newViewState, host) {\n  var /** @type {?}
*/\n  oldViewState = currentView;\n  data = newViewState.data;\n  bindingIndex =
newViewState.bindingStartIndex || 0;\n  ngStaticData = newViewState.ngStaticData;\n  creationMode =
newViewState.creationMode;\n  viewHookStartIndex = newViewState.viewHookStartIndex;\n  cleanup =
newViewState.cleanup;\n  renderer = newViewState.renderer;\n  if (host != null) {\n    previousOrParentNode
= host;\n    isParent = true;\n  }\n  currentView = newViewState;\n  return /** @type {?} */\n  ((oldViewState));\n}\n/**\n * Used in lieu of enterView to make it clear when we are exiting a child view. This
makes\n * the direction of traversal (up or down the view tree) a bit clearer.\n * @param {?} newViewState\n *
@return {?}*\nfunction leaveView(newViewState) {\n  executeViewHooks();\n  enterView(newViewState,
null);\n}\n/**\n * @param {?} viewId\n * @param {?} renderer\n * @param {?} ngStaticData\n * @return {?}*\nfunction createViewState(viewId, renderer, ngStaticData) {\n  var /** @type {?} */\n  newView = {\n    parent:
currentView,\n    id: viewId,\n    // -1 for component views\n    node: /** @type {?} */ ((null)),\n    // until
we initialize it in createNode.\n    data: [],\n    ngStaticData: ngStaticData,\n    cleanup: null,\n    renderer:
renderer,\n    child: null,\n    tail: null,\n    next: null,\n    bindingStartIndex: null,\n    creationMode:
true,\n    viewHookStartIndex: null\n  };\n  return newView;\n}\n/**\n * @param {?} index\n * @param {?}
type\n * @param {?} native\n * @param {?=} state\n * @return {?}\nfunction createLNode(index, type,
native, state) {\n  var /** @type {?} */\n  parent = isParent ? previousOrParentNode : previousOrParentNode
&& /** @type {?} */ (previousOrParentNode.parent);\n  var /** @type {?} */\n  query = (isParent ? currentQuery :
previousOrParentNode && previousOrParentNode.query) ||\n  parent && parent.query &&
parent.query.child();\n  var /** @type {?} */\n  isState = state != null;\n  var /** @type {?} */\n  node = {\n    flags:
type,\n    native: /** @type {?} */ (native),\n    view: currentView,\n    parent: /** @type {?} */ (parent),\n   
child: null,\n    next: null,\n    nodeInjector: parent ? parent.nodeInjector : null,\n    data: isState ? /** @type
{?} */ (state) : null,\n    query: query,\n    staticData: null\n  };\n  if ((type & 2 /* ViewOrElement */) === 2
/* ViewOrElement */ && isState) {\n    // Bit of a hack to bust through the readonly because there is a circular
dep between\n    // ViewState and LNode.\n    ngDevMode && assertEquals(** @type {?} */ (state)).node,
null, 'viewState.node');\n    (** @type {?} */ ((state)).node = node;\n  }\n  if (index != null) {\n    // We are
Element or Container\n    ngDevMode && assertEquals(data.length, index, 'data.length not in sequence');\n

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data[index] = node;\n    // Every node adds a value to the static data array to avoid a sparse array\n    if (index
>= ngStaticData.length) {\n        ngStaticData[index] = null;\n    }\n    else {\n        node.staticData = /**
@type {?} */ (ngStaticData[index]);\n    }\n    // Now link ourselves into the tree.\n    if (isParent) {\n
currentQuery = null;\n        if (previousOrParentNode.view === currentView ||\n(previousOrParentNode.flags & 3 /* TYPE_MASK */) === 2 /* View */) {\n            // We are in the same view,
which means we are adding content node to the parent View.\n            ngDevMode &&
assertEqual(previousOrParentNode.child, null, 'previousNode.child');\n            previousOrParentNode.child =
node;\n        }\n        else {\n            // We are adding component view, so we don't link parent node child to
this node.\n        }\n        else if (previousOrParentNode) {\n            ngDevMode &&
assertEqual(previousOrParentNode.next, null, 'previousNode.next');\n            previousOrParentNode.next = node;\n
        }\n    }\n    previousOrParentNode = node;\n    isParent = true;\n    return node;\n}\n\n/**\n * Resets the application
state.\n * @return {?}\n */\nfunction resetApplicationState() {\n    isParent = false;\n    previousOrParentNode = /**
@type {?} */ ((null));\n}\n\n/**\n * @template T\n * @param {?} hostNode\n * @param {?} template Template
function with the instructions.\n * @param {?} context to pass into the template.\n * @param {?}
providedRendererFactory\n * @param {?} host Existing node to render into.\n * @return {?}\n */\nfunction
renderComponentOrTemplate(node, viewState, componentOrContext, template) {\n    var /** @type {?} */ oldView =
enterView(viewState, node);\n    try {\n        if
(rendererFactory.begin) {\n            rendererFactory.begin();\n        }\n        if (template) {\n            ngStaticData =
template.ngStaticData || (template.ngStaticData = /** @type {?} */ ({}));\n            template(/** @type {?} */
((componentOrContext)), creationMode);\n        }\n        else {\n            // Element was stored at 0 and directive was
stored at 1 in renderComponent\n            // so to refresh the component, r() needs to be called with (1, 0)\n
(/** @type {?} */ (componentOrContext.constructor)).ngComponentDef.r(1, 0);\n        }\n    }\n    finally {\n        if
(rendererFactory.end) {\n            rendererFactory.end();\n        }\n        viewState.creationMode = false;\n
leaveView(oldView);\n    }\n}\n\n/**\n * @return {?}\n */\nfunction
makeDirectivePublic(def) {\n    /**\n * @param {?} def The definition of the directive to be made public\n *
@return {?}\n */\nfunction searchForDirectiveUpInjectorTree(injector, type) {\n    /**\n * Searches for an instance of the given directive type up the injector tree and returns\n *
that instance if found.\n * @param {?} injector\n * @return {?}\n */\nfunction findDirectiveInstance(injector, type) {\n    /**\n * If not found, it will propagate up to the next parent injector until the token\n * is found
or the top is reached.\n * @param {?} injector\n * @return {?}\n */\nfunction findDirectiveInstanceUpInjectorTree(injector, type) {\n    /**\n * Usage example (in factory function):\n * class SomeDirective {\n *
constructor(directive: DirectiveA) {\n *     static ngDirectiveDef = defineDirective({\n *         type:
SomeDirective,\n *         factory: () => new SomeDirective(inject(DirectiveA))\n *     });\n * }\n * }\n * @template T\n *
@param {?} token The directive type to search for\n * @param {?=} flags Injection flags (e.g. CheckParent)\n *
@return {?} The instance found\n */\nfunction createElementRef(injector, type, token) {\n    /**\n * Creates an ElementRef and stores it on the injector.\n * Or, if the
ElementRef already exists, retrieves the existing ElementRef.\n * @return {?} The ElementRef instance to use\n */\nfunction createTemplateRef(injector, type, token) {\n    /**\n * Creates a TemplateRef and stores it on the injector. Or, if the TemplateRef already\n * exists, retrieves
the existing TemplateRef.\n * @template T\n * @return {?} The TemplateRef instance to use\n */\nfunction createViewContainerRef(injector, type, token) {\n    /**\n * Creates a ViewContainerRef and stores it on the injector. Or, if the ViewContainerRef\n * already exists, retrieves
the existing ViewContainerRef.\n * @return {?} The ViewContainerRef instance to use\n */\nfunction createDomElement(index, nameOrComponentDef, attrs, localName) {\n    /**\n * Create
DOM element. The instruction must later be followed by `elementEnd()` call.\n * @param {?} index Index of
the element in the data array\n * @param {?=} nameOrComponentDef Name of the DOM Node or
`ComponentDef`\n * @param {?=} attrs Statically bound set of attributes to be written into the DOM element on
creation.\n * @param {?=} localName A name under which a given element is exported.\n * @return {?} Attributes
are passed as an array of strings where elements with an even index hold an attribute\n * name and elements with an odd
index hold an attribute value, ex.: ['id', 'warning5', 'class', 'alert']\n */\nfunction elementStart(index, nameOrComponentDef, attrs, localName) {\n    var /** @type {?} */ node;\n    var /** @type
{?} */ native;\n    if (nameOrComponentDef == null) {\n        // native node retrieval - used for exporting elements
as tpl local variables (<div #foo>)\n        var /** @type {?} */ node_1 = /** @type {?} */ ((data[index]));\n        native = node_1 && (/** @type {?} */ (node_1)).native;\n    }\n    else {\n        ngDevMode &&

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assertEqual(currentView.bindingStartIndex, null, 'bindingStartIndex');\n    var /** @type {?} */ isHostElement =
typeof nameOrComponentDef !== 'string';\n    var /** @type {?} */ name_1 = isHostElement ? (** @type {?} */
(nameOrComponentDef)).tag : /** @type {?} */ (nameOrComponentDef);\n    if (name_1 === null) {\n        //
TODO: future support for nameless components.\n        throw 'for now name is required';\n    }\n    else {\n
native = renderer.createElement(name_1);\n        var /** @type {?} */ componentView = null;\n        if
(isHostElement) {\n            var /** @type {?} */ ngStaticData_1 = getTemplateStatic((/** @type {?} */
(nameOrComponentDef)).template);\n            componentView = addToViewTree(createViewState(-1,
rendererFactory.createRenderer(native, (** @type {?} */ (nameOrComponentDef)).rendererType),
ngStaticData_1));\n        }\n        // Only component views should be added to the view tree directly. Embedded
views are\n        // accessed through their containers because they may be removed / re-added later.\n        node
= createLNode(index, 3 /* Element */, native, componentView);\n        if (node.staticData == null) {\n
ngDevMode && assertDataInRange(index - 1);\n            node.staticData = ngStaticData[index] =\n
createNodeStatic(name_1, attrs || null, null, localName || null);\n        }\n        if (attrs)\n
setUpAttributes(native, attrs);\n        appendChild((/** @type {?} */ ((node.parent)), native, currentView);\n
}\n    }\n    return native;\n}\n\n/**\n * Gets static data from a template function or creates a new static\n * data array
if it doesn't already exist.\n * @param {?} template The template from which to get static data\n * @return {?}
NgStaticData\n */\nfunction getTemplateStatic(template) {\n    return template.ngStaticData ||
(template.ngStaticData = /** @type {?} */ ());\n}\n\n/**\n * @param {?} native\n * @param {?} attrs\n * @return
{?}\n */\nfunction setUpAttributes(native, attrs) {\n    ngDevMode && assertEquals(attrs.length % 2, 0, 'attrs.length
% 2');\n    var /** @type {?} */ isProceduralRenderer = (** @type {?} */ (renderer)).setAttribute;\n    for (var /**
@type {?} */ i = 0; i < attrs.length; i += 2) {\n        isProceduralRenderer ? (** @type {?} */ (((/** @type {?} */
(renderer)).setAttribute))(native, attrs[i], attrs[i + 1])) : native.setAttribute(attrs[i], attrs[i + 1]);\n    }\n}\n\n/**
 * @param {?} text\n * @param {?} token\n * @return {?} */\n */\nfunction createError(text, token) {\n    return new
Error("Renderer: \" + text + \" [\" + stringify$1(token) + "\"]");\n}\n\n/**\n * Locates the host native element, used for
bootstrapping existing nodes into rendering pipeline.\n * @param {?} factory\n * @param {?}
elementOrSelector Render element or CSS selector to locate the element.\n * @return {?} */\n */\nfunction
locateHostElement(factory, elementOrSelector) {\n    ngDevMode && assertDataInRange(-1);\n    rendererFactory
= factory;\n    var /** @type {?} */ defaultRenderer = factory.createRenderer(null, null);\n    var /** @type {?} */
rNode = typeof elementOrSelector === 'string' ?\n        ((/** @type {?} */ (defaultRenderer)).selectRootElement ?\n
(** @type {?} */ (defaultRenderer)).selectRootElement(elementOrSelector)) : /** @type {?} */ (((/** @type
{?} */ (defaultRenderer)).querySelector))(elementOrSelector));\n    elementOrSelector;\n    if (ngDevMode &&
!rNode) {\n        if (typeof elementOrSelector === 'string') {\n            throw createError('Host node with selector not
found:', elementOrSelector);\n        }\n        else {\n            throw createError('Host node is required:',
elementOrSelector);\n        }\n    }\n    return rNode;\n}\n\n/**\n * Creates the host LNode.\n * @param {?}
rNode Render host element.\n * @param {?} def\n * @return {?} */\n */\nfunction hostElement(rNode, def) {\n
resetApplicationState();\n    createLNode(0, 3 /* Element */, rNode, createViewState(-1, renderer,
getTemplateStatic(def.template));\n}\n\n/**\n * Adds an event listener to the current node.\n * @param {?} event
Name Name of the event\n * @param {?} listener The function to be called when event emits\n * @param {=} useCapture Whether or not to use capture in event listener.\n * @return {?}\n */\n */\nfunction elementEnd() {\n    if (isParent) {\n        isParent = false;\n
    }\n    else {\n        ngDevMode && assertHasParent();\n        previousOrParentNode = /** @type {?} */
((previousOrParentNode.parent));\n    }\n    ngDevMode && assertNodeType(previousOrParentNode, 3 /* Element
*/);\n    var /** @type {?} */ query = previousOrParentNode.query;\n    query &&
query.addNode(previousOrParentNode);\n}\n\n/**\n * Update an attribute on an Element. This is used with a `bind`
instruction.\n * @param {?} index The index of the element to update in the data array\n * @param {?}
attrName Name of attribute. Because it is going to DOM, this is not subject to\n * renaming as port of
minification.\n * @param {?} value Value to write. This value will go through stringification.\n * @return {?}\n */

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*\n\n/**\n * Update a property on an Element.\n *\n * If the property name also exists as an input property on one
of the element's directives,\n * the component property will be set instead of the element property. This check
must\n * be conducted at runtime so child components that add new @@Inputs don't have to be re-compiled.\n *\n *
@template T\n * @param {?} index The index of the element to update in the data array\n * @param {?} propName
Name of property. Because it is going to DOM, this is not subject to\n * renaming as part of minification.\n *
@param {?} value New value to write.\n * @return {?} \n\nfunction elementProperty(index, propName, value)
{\n  if (value === NO_CHANGE)\n    return;\n  var /** @type {?} */ node = /** @type {?} */ (data[index]);\n  var /** @type {?} */ staticData = /** @type {?} */ ((node.staticData));\n  // if staticData.inputs is undefined, a
listener has created output staticData, but inputs haven't\n  // yet been checked\n  if (staticData.inputs ===
undefined) {\n    // mark inputs as checked\n    staticData.inputs = null;\n    staticData =
generatePropertyAliases(node.flags, staticData, true);\n  }\n  var /** @type {?} */ inputData =
staticData.inputs;\n  var /** @type {?} */ dataValue;\n  if (inputData && (dataValue = inputData[propName]))
{\n    setInputsForProperty(dataValue, value);\n  }\n  else {\n    var /** @type {?} */ native = node.native;\n    (/** @type {?} */ (renderer)).setProperty ?\n      (/** @type {?} */ (renderer)).setProperty(native, propName,
value) :\n      native.setProperty ? native.setProperty(propName, value) :\n      (/** @type {?} */
(native))[propName] = value;\n  }\n}\n\n/**\n * Constructs a LNodeStatic object from the arguments.\n *\n *
@param {?} tagName\n * @param {?} attrs\n * @param {?} containerStatic\n * @param {?} localName\n *
@return {?} the LNodeStatic object\n *\nfunction createNodeStatic(tagName, attrs, containerStatic, localName) {\n
return {\n  tagName: tagName,\n  attrs: attrs,\n  localNames: localName ? [localName, -1] : null,\n  initialInputs: undefined,\n  inputs: undefined,\n  outputs: undefined,\n  containerStatic: containerStatic\n
};\n}\n\n/**\n * Given a list of directive indices and minified input names, sets the\n * input properties on the
corresponding directives.\n * @param {?} inputs\n * @param {?} value\n * @return {?} \n\nfunction
setInputsForProperty(inputs, value) {\n  for (var /** @type {?} */ i = 0; i < inputs.length; i += 2) {\n
ngDevMode && assertDataInRange(/** @type {?} */ (inputs[i]));\n    data[/** @type {?} */ (inputs[i])][inputs[i
| 1]] = value;\n  }\n}\n\n/**\n * This function consolidates all the inputs or outputs defined by directives\n * on this
node into one object and stores it in ngStaticData so it can\n * be shared between all templates of this type.\n *\n *
@param {?} flags\n * @param {?} data\n * @param {?=} isInputData\n * @return {?} \n\nfunction
generatePropertyAliases(flags, data, isInputData) {\n  if (isInputData === void 0) { isInputData = false; }\n  var
/** @type {?} */ start = flags >> 12;\n  var /** @type {?} */ size = (flags & 4092 /* SIZE_MASK */) >> 2;\n
for (var /** @type {?} */ i = start, /** @type {?} */ ii = start + size; i < ii; i++) {\n    var /** @type {?} */
directiveDef = /** @type {?} */ (((ngStaticData)[i]));\n    var /** @type {?} */ propertyAliasMap = isInputData ?
directiveDef.inputs : directiveDef.outputs;\n    for (var /** @type {?} */ publicName in propertyAliasMap) {\n
      if (propertyAliasMap.hasOwnProperty(publicName)) {\n        var /** @type {?} */ internalName =
propertyAliasMap[publicName];\n        var /** @type {?} */ staticDirData = isInputData ? (data.inputs ||
(data.inputs = {})) :\n          (data.outputs || (data.outputs = {}));\n        var /** @type {?} */ hasProperty
= staticDirData.hasOwnProperty(publicName);\n        hasProperty ? staticDirData[publicName].push(i,
internalName) :\n          (staticDirData[publicName] = [i, internalName]);\n      }\n    }\n  }\n  return
data;\n}\n\n/**\n * Add or remove a class in a classList.\n *\n * This instruction is meant to handle the
[class.foo]="exp" case\n *\n * @template T\n * @param {?} index The index of the element to update in the data
array\n * @param {?} className Name of class to toggle. Because it is going to DOM, this is not subject to\n *
renaming as part of minification.\n * @param {?} value A value indicating if a given class should be added or
removed.\n * @return {?} \n\nfunction\n *\n *\nfunction elementStyle(index, styleName, value, suffix) {\n  if (value !== NO_CHANGE) {\n    var /**
@type {?} */ IEElement = /** @type {?} */ (data[index]);\n    if (value == null) {\n      (/** @type {?} */
(renderer)).removeStyle ?\n        (/** @type {?} */ (renderer)).\n          .removeStyle(IEElement.native,

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((previousOrParentNode.flags & 4092 /* SIZE_MASK */) >> 2 /* SIZE_SHIFT */) - 1;\n  var /** @type {?} */
initialInputData = /** @type {?} */ (staticData.initialInputs);\n  if (initialInputData === undefined || directiveIndex
>= initialInputData.length) {\n    initialInputData = generateInitialInputs(directiveIndex, inputs, staticData);\n
}\n  var /** @type {?} */ initialInputs = initialInputData[directiveIndex];\n  if (initialInputs) {\n    for (var /**
@type {?} */ i = 0; i < initialInputs.length; i += 2) {\n      (/** @type {?} */ (instance))[initialInputs[i]] =
initialInputs[i + 1];\n    }\n  }\n}\n\n * Generates initialInputData for a node and stores it in the template's
static storage\n * so subsequent template invocations don't have to recalculate it.\n *\n * initialInputData is an array
containing values that need to be set as input properties\n * for directives on this node, but only once on creation.
We need this array to support\n * the case where you set an \@Input property of a directive using attribute-like
syntax.\n * e.g. if you have a `name` \@Input, you can set it once like this:\n *\n * <my-component
name="Bess"></my-component>\n *\n * @param {?} directiveIndex Index to store the initial input data\n *
@param {?} inputs The list of inputs from the directive def\n * @param {?} staticData The static data on this
node\n * @return {?} \n\nfunction generateInitialInputs(directiveIndex, inputs, staticData) {\n  var /** @type
{?} */ initialInputData = staticData.initialInputs || (staticData.initialInputs = []);\n  initialInputData[directiveIndex]
= null;\n  var /** @type {?} */ attrs = /** @type {?} */ ((staticData.attrs));\n  for (var /** @type {?} */ i = 0; i <
attrs.length; i += 2) {\n    var /** @type {?} */ attrName = attrs[i];\n    var /** @type {?} */
minifiedInputName = inputs[attrName];\n    if (minifiedInputName !== undefined) {\n      var /** @type {?} */
inputsToStore = initialInputData[directiveIndex] || (initialInputData[directiveIndex] = []);\n
inputsToStore.push(minifiedInputName, attrs[i + 1]);\n    }\n  }\n  return initialInputData;\n}\n\n * @param
{?} lifecycle\n * @param {?=} self\n * @param {?=} method\n * @return {?}\n *\n\n * Iterates over view
hook functions and calls them.\n * @return {?}\n *\n\nfunction executeViewHooks() {\n  if (viewHookStartIndex
=== null)\n    return;\n  // Instead of using splice to remove init hooks after their first run (expensive), we\n  //
shift over the AFTER_CHECKED hooks as we call them and truncate once at the end.\n  var /** @type {?} */
checkIndex = /** @type {?} */ (viewHookStartIndex);\n  var /** @type {?} */ writeIndex = checkIndex;\n  while
(checkIndex < data.length) {\n    // Call lifecycle hook with its context\n    data[checkIndex +
1].call(data[checkIndex + 2]);\n    if (data[checkIndex] === 16 /* AFTER_VIEW_CHECKED */) {\n      //
We know if the writeIndex falls behind that there is an init that needs to\n      // be overwritten.\n      if
(writeIndex < checkIndex) {\n        data[writeIndex] = data[checkIndex];\n        data[writeIndex + 1] =
data[checkIndex + 1];\n        data[writeIndex + 2] = data[checkIndex + 2];\n      }\n      writeIndex +=
3;\n    }\n    checkIndex += 3;\n  }\n  // Truncate once at the writeIndex\n  data.length =
writeIndex;\n}\n\n * Creates an LContainer.\n *\n * Only `LView`s can go into `LContainer`.\n *\n * @param
{?} index The index of the container in the data array\n * @param {?=} template Optional inline template\n *
@param {?=} tagName The name of the container element, if applicable\n * @param {?=} attrs The attrs attached
to the container, if applicable\n * @param {?=} localName\n * @return {?}\n *\n\nfunction containerStart(index,
template, tagName, attrs, localName) {\n  ngDevMode && assertEquals(currentView.bindingStartIndex, null,
'bindingStartIndex');\n  // If the direct parent of the container is a view, its views (including its comment)\n  // will
need to be added through insertView() when its parent view is being inserted.\n  // For now, it is marked
`headless` so we know to append its views later.\n  var /** @type {?} */ comment =
renderer.createComment(ngDevMode ? 'container' : '');\n  var /** @type {?} */ renderParent = null;\n  var /**
@type {?} */ currentParent = isParent ? previousOrParentNode : /** @type {?} */
(previousOrParentNode.parent);\n  ngDevMode && assertNotEqual(currentParent, null, 'currentParent');\n  if
(appendChild(currentParent, comment, currentView)) {\n    // we are adding to an Element which is either:\n
// - Not a component (will not be re-projected, just added)\n    // - View of the Component\n    renderParent =
/** @type {?} */ (currentParent);\n  }\n  var /** @type {?} */ node = createLNode(index, 0 /* Container */,\n
comment, /** @type {?} */ ({\n    views: [],\n    nextIndex: 0, renderParent: renderParent,\n    template:
template == null ? null : template,\n    next: null,\n    parent: currentView\n }));\n  if (node.staticData ==
null) {\n    node.staticData = ngStaticData[index] =\n      createNodeStatic(tagName || null, attrs || null, [],
localName || null);\n  }\n  // Containers are added to the current view tree instead of their embedded views\n  //

```

```

because views can be removed and re-inserted.\n  addToViewTree(node.data);\n}\n\n/**\n * @return {?}\n *\nfunction containerEnd() {\n  if (isParent) {\n    isParent = false;\n  }\n  else {\n    ngDevMode &&
assertHasParent();\n    previousOrParentNode = /** @type {?} */ ((previousOrParentNode.parent));\n  }\n  \n  ngDevMode && assertNodeType(previousOrParentNode, 0 /* Container */);\n  var /** @type {?} */ query =
previousOrParentNode.query;\n  query && query.addNode(previousOrParentNode);\n}\n\n/**\n * Sets a container
up to receive views.\n * @param {?} index The index of the container in the data array\n * @return {?}\n *\nfunction containerRefreshStart(index) {\n  ngDevMode && assertDataInRange(index);\n  previousOrParentNode = /** @type {?} */ (data[index]);\n  ngDevMode &&
assertNodeType(previousOrParentNode, 0 /* Container */);\n  isParent = true;\n  (/** @type {?} */
(previousOrParentNode)).data.nextIndex = 0;\n}\n\n/**\n * Marks the end of the LContainer.\n * @return {?}\n *\nfunction containerRefreshEnd() {\n  if (isParent) {\n    isParent = false;\n  }\n  else {\n    ngDevMode &&
assertNodeType(previousOrParentNode, 2 /* View */);\n    ngDevMode && assertHasParent();\n    previousOrParentNode = /** @type {?} */ ((previousOrParentNode.parent));\n  }\n  \n  ngDevMode &&
assertNodeType(previousOrParentNode, 0 /* Container */);\n  var /** @type {?} */ container = /** @type {?} */
(previousOrParentNode);\n  ngDevMode && assertNodeType(container, 0 /* Container */);\n  var /** @type {?} */
nextIndex = container.data.nextIndex;\n  while (nextIndex < container.data.views.length) {\n    // remove extra
view.\n    removeView(container, nextIndex);\n  }\n}\n\n/**\n * Creates an LView.\n * @param {?}
viewBlockId The ID of this view\n * @return {?} Whether or not this view is in creation mode\n *\nfunction
viewStart(viewBlockId) {\n  var /** @type {?} */ container = /** @type {?} */ ((isParent ? previousOrParentNode
: /** @type {?} */ ((previousOrParentNode.parent)));\n  ngDevMode && assertNodeType(container, 0 /*
Container */);\n  var /** @type {?} */ containerState = container.data;\n  var /** @type {?} */ views =
containerState.views;\n  var /** @type {?} */ existingView = !creationMode && containerState.nextIndex <
views.length && views[containerState.nextIndex];\n  var /** @type {?} */ viewUpdateMode = existingView &&
viewBlockId === (/** @type {?} */ (existingView)).data.id;\n  if (viewUpdateMode) {\n    previousOrParentNode =
views[containerState.nextIndex++];\n    ngDevMode &&
assertNodeType(previousOrParentNode, 2 /* View */);\n    isParent = true;\n    enterView((/** @type {?} */
(existingView)).data, /** @type {?} */ (previousOrParentNode));\n  }\n  else {\n    // When we create a new
View, we always reset the state of the instructions.\n    var /** @type {?} */ newViewState =
createViewState(viewBlockId, renderer, initViewStaticData(viewBlockId, container));\n    enterView(newViewState,
createLNode(null, 2 /* View */, null, newViewState));\n    containerState.nextIndex++;\n  }\n  \n  return !viewUpdateMode;\n}\n\n/**\n * Initialize the static data for the active
view.\n * @return {?} Each embedded view needs to set the global ngStaticData variable to the static data for\n * that view.
Otherwise, the view's static data for a particular node would overwrite\n * the staticdata for a node in the view above
it with the same index (since it's in the\n * same template).\n * @param {?} viewIndex The index of the view's
static data in containerStatic\n * @param {?} parent The parent container in which to look for the view's static
data\n * @return {?} NgStaticData\n *\nfunction initViewStaticData(viewIndex, parent) {\n  ngDevMode &&
assertNodeType(parent, 0 /* Container */);\n  var /** @type {?} */ containerStatic = (/** @type {?} */
(((parent)).staticData)).containerStatic;\n  if (viewIndex >= containerStatic.length || containerStatic[viewIndex] ==
null) {\n    containerStatic[viewIndex] = [];\n  }\n  \n  return containerStatic[viewIndex];\n}\n\n/**\n * Marks the
end of the LView.\n * @return {?}\n *\nfunction viewEnd() {\n  isParent = false;\n  var /** @type {?} */
viewNode = previousOrParentNode = /** @type {?} */ (currentView.node);\n  var /** @type {?} */ container =
/** @type {?} */ (previousOrParentNode.parent);\n  ngDevMode && assertNodeType(viewNode, 2 /* View */);\n  \n  ngDevMode && assertNodeType(container, 0 /* Container */);\n  var /** @type {?} */ containerState =
container.data;\n  var /** @type {?} */ previousView = containerState.nextIndex <= containerState.views.length ?
/** @type {?} */ (containerState.views[containerState.nextIndex - 1]) :\n  null;\n  var /** @type {?} */
viewIdChanged = previousView == null ? true : previousView.data.id !== viewNode.data.id;\n  if
(viewIdChanged) {\n    insertView(container, viewNode, containerState.nextIndex - 1);\n  }\n}

```

```
currentView.creationMode = false;\n  }\n  leaveView(/** @type {?} */ (/** @type {?} */  
  ((currentView).parent));\n  ngDevMode && assertEquals(isParent, false, 'isParent');\n  ngDevMode &&  
  assertNodeType(previousOrParentNode, 2 /* View */);\n}\n\n/**\n * Refreshes the component view.\n *\n * In other  
words, enters the component's view and processes it to update bindings, queries, etc.\n *\n * @param  
directiveIndex\n * @param elementIndex\n * @param template\n *\n * @nvar componentRefresh = function  
(directiveIndex, elementIndex, template) {\n  ngDevMode && assertDataInRange(elementIndex);\n  var /**  
@type {?} */ element = /** @type {?} */ (((data))[elementIndex]);\n  ngDevMode && assertNodeType(element, 3  
/* Element */);\n  ngDevMode && assertNotEqual(element.data, null, 'isComponent');\n  ngDevMode &&  
  assertDataInRange(directiveIndex);\n  var /** @type {?} */ hostView = /** @type {?} */ ((element.data));\n  ngDevMode && assertNotEqual(hostView, null, 'hostView');\n  var /** @type {?} */ directive =  
  data[directiveIndex];\n  var /** @type {?} */ oldView = enterView(hostView, element);\n  try {\n  template(directive, creationMode);\n  }\n  finally {\n    hostView.creationMode = false;\n    leaveView(oldView);\n  }\n}\n\n/**\n * Instruction to distribute projectable nodes among <ng-content> occurrences  
in a given template.\n *\n * It takes all the selectors from the entire component's template and decides where  
each  
projected node belongs (it re-distributes nodes among \"buckets\" where each \"bucket\" is  
backed by a  
selector).\n *\n * @param {?=} selectors\n * @return {?}\n *\n * @nvar\n /**\n * Inserts previously re-distributed projected  
nodes. This instruction must be preceded by a call  
to the projectionDef instruction.\n *\n * @param {?}  
nodeIndex\n * @param {?} localIndex - index under which distribution of projected nodes was memorized\n *  
@param {?=} selectorIndex - 0 means <ng-content> without any selector\n * @return {?}\n *\n * @nvar\n /**\n * Adds a  
ViewState or a ContainerState to the end of the current view tree.\n *\n * This structure will be used to traverse  
through nested views to remove listeners  
and call onDestroy callbacks.\n *\n * @template T\n * @param {?}  
state The ViewState or ContainerState to add to the view tree\n * @return {?} The state passed in\n *\n * @nfunction  
addToViewTree(state) {\n  currentView.tail ? (currentView.tail.next = state) : (currentView.child = state);\n  currentView.tail = state;\n  return state;\n}\n\n/**\n * A special value which designates that a value has not  
changed.\n *\n * @nvar NO_CHANGE = /** @type {?} */ ({});\n\n/**\n * Create interpolation bindings with variable  
number of arguments.\n *\n * If any of the arguments change, then the interpolation is concatenated  
and causes  
an update.\n *\n * @param {?} values an array of values to diff.\n * @return {?}\n *\n * @nvar\n /**\n * Create a single  
value binding without interpolation.\n *\n * @template T\n * @param {?} value Value to diff\n * @return {?}\n *\n * @nfunction  
bind(value) {\n  var /** @type {?} */ different;\n  if (different = creationMode) {\n    if (typeof  
currentView.bindingStartIndex !== 'number') {\n      bindingIndex = currentView.bindingStartIndex =  
data.length;\n    }\n    data[bindingIndex++] = value;\n  }\n  else {\n    if (different = value !==  
NO_CHANGE && isDifferent(data[bindingIndex], value)) {\n      data[bindingIndex] = value;\n    }\n    bindingIndex++;\n  }\n  return different ? value : NO_CHANGE;\n}\n\n/**\n * Create an interpolation bindings  
with 1 arguments.\n *\n * @param {?} prefix static value used for concatenation only.\n * @param {?} value value  
checked for change.\n * @param {?} suffix static value used for concatenation only.\n * @return {?}\n *\n * @nfunction  
bind1(prefix, value, suffix) {\n  return bind(value) === NO_CHANGE ? NO_CHANGE : prefix +  
stringify$1(value) + suffix;\n}\n\n/**\n * Create an interpolation bindings with 2 arguments.\n *\n * @param {?} prefix\n * @param {?} v0 value checked for change\n * @param {?} i0\n * @param {?} v1 value checked for  
change\n * @param {?} suffix\n * @return {?}\n *\n * @nvar\n /**\n * Create an interpolation bindings with 3 arguments.\n *\n * @param {?} prefix\n * @param {?} v0\n * @param {?} i0\n * @param {?} v1\n * @param {?} i1\n *  
@param {?} v2\n * @param {?} suffix\n * @return {?}\n *\n * @nvar\n /**\n * Create an interpolation binding with 4  
arguments.\n *\n * @param {?} prefix\n * @param {?} v0\n * @param {?} i0\n * @param {?} v1\n * @param {?} i1\n * @param {?} v2\n * @param {?} i2\n * @param {?} v3\n * @param {?} suffix\n * @return {?}\n *\n * @nvar\n /**\n * Create an interpolation binding with 5 arguments.\n *\n * @param {?} prefix\n * @param {?} v0\n * @param {?} i0\n * @param {?} v1\n * @param {?} i1\n * @param {?} v2\n * @param {?} i2\n * @param {?} v3\n * @param {?} i3\n * @param {?} v4\n * @param {?} suffix\n * @return {?}\n *\n * @nvar\n /**\n * Create an interpolation binding  
with 6 arguments.\n *\n * @param {?} prefix\n * @param {?} v0\n * @param {?} i0\n * @param {?} v1\n *  
@param {?} i1\n * @param {?} v2\n * @param {?} i2\n * @param {?} v3\n * @param {?} i3\n * @param {?}
```

```

v4\n * @param {?} i4\n * @param {?} v5\n * @param {?} suffix\n * @return {?}\n *\n\n * Create an
interpolation binding with 7 arguments.\n *\n * @param {?} prefix\n * @param {?} v0\n * @param {?} i0\n *
@param {?} v1\n * @param {?} i1\n * @param {?} v2\n * @param {?} i2\n * @param {?} v3\n * @param {?}
i3\n * @param {?} v4\n * @param {?} i4\n * @param {?} v5\n * @param {?} i5\n * @param {?} v6\n * @param
@param
@param {?} suffix\n * @return {?}\n *\n\n * Create an interpolation binding with 8 arguments.\n *\n * @param {?}
prefix\n * @param {?} v0\n * @param {?} i0\n * @param {?} v1\n * @param {?} i1\n * @param {?} v2\n *
@param {?} i2\n * @param {?} v3\n * @param {?} i3\n * @param {?} v4\n * @param {?} i4\n * @param {?}
v5\n * @param {?} i5\n * @param {?} v6\n * @param {?} i6\n * @param {?} v7\n * @param {?} suffix\n *
@return {?}\n *\n\n * @template T\n * @param {?} index\n * @param {?=} value\n * @return {?}\n
*\n\n * @template T\n * @param {?} predicate\n * @param {?=} descend\n * @param {?=} read\n * @return
{?}\n *\n\n * @return {?}\n *\n\nfunction assertPreviousIsParent() {\n  assertEqual(isParent, true,
'isParent');\n}\n\n * @return {?}\n *\n\nfunction assertHasParent() {\n
assertNotEqual(previousOrParentNode.parent, null, 'isParent');\n}\n\n * @param {?} index\n * @param {?=}
arr\n * @return {?}\n *\n\nfunction assertDataInRange(index, arr) {\n  if (arr === null)\n    arr = data;\n  assertLessThan(arr ? arr.length : 0, index, 'data.length');\n}\n}\n\n * @fileoverview added by tsickle\n *
@suppress {checkTypes} checked by tsc\n *\n\n * @license\n * Copyright Google Inc. All Rights Reserved.\n
*\n * Use of this source code is governed by an MIT-style license that can be\n * found in the LICENSE file at
https://angular.io/license\n *\n\n * Options that control how the component should be bootstrapped.\n *
@record\n *\n\n * Bootstraps a component, then creates and returns a `ComponentRef` for that component.\n
*\n * @template T\n * @param {?} componentType Component to bootstrap\n * @param {?} opts\n * @return
{?}\n *\n\n// TODO: A hack to not pull in the NullInjector from @angular/core.\n *\n\n * Bootstraps a
Component into an existing host element and returns an instance\n * of the component.\n *\n\n * @template T\n *
@param {?} componentType Component to bootstrap\n * @param {?=} opts\n * @return {?}\n *\n\nfunction
renderComponent(componentType, opts) {\n  if (opts === void 0) { opts = {}; }\n  var /** @type {?} */
rendererFactory = opts.rendererFactory || domRendererFactory3;\n  var /** @type {?} */ componentDef =
componentType.ngComponentDef;\n  var /** @type {?} */ component;\n  var /** @type {?} */ hostNode =
locateHostElement(rendererFactory, opts.host || componentDef.tag);\n  var /** @type {?} */ oldView =
enterView(createViewState(-1, rendererFactory.createRenderer(hostNode, componentDef.rendererType), []), /**
@type {?} */ ((null)));\n  try {\n    // Create element node at index 0 in data array\n    hostElement(hostNode,
componentDef);\n    // Create directive instance with n() and store at index 1 in data array (el is 0)\n
component = directive(1, componentDef.n(), componentDef);\n  } finally {\n    leaveView(oldView);\n  }\n  opts.features && opts.features.forEach(function (feature) { return feature(component, componentDef); });\n  detectChanges(component);\n  return component;\n}\n}\n\n * @template T\n * @param {?} component\n *
@return {?}\n *\n\nfunction detectChanges(component) {\n  ngDevMode && assertNotNull(component,
'component');\n  var /** @type {?} */ hostNode = /** @type {?} */ ((/** @type {?} */
(component)))[NG_HOST_SYMBOL]);\n  if (ngDevMode && !hostNode) {\n    createError('Not a directive
instance', component);\n  }\n  ngDevMode && assertNotNull(hostNode.data, 'hostNode.data');\n  renderComponentOrTemplate(hostNode, hostNode.view, component);\n  isDirty = false;\n}\n\nvar isDirty =
false;\n}\n\n * @template T\n * @param {?} component\n * @param {?=} scheduler\n * @return {?}\n *\n\n\n *
@template T\n * @param {?} component\n * @return {?}\n *\n\n\n * @fileoverview added by tsickle\n *
@suppress {checkTypes} checked by tsc\n *\n\n * @license\n * Copyright Google Inc. All Rights Reserved.\n
*\n * Use of this source code is governed by an MIT-style license that can be\n * found in the LICENSE file at
https://angular.io/license\n *\n\n * Create a component definition object.\n *\n\n * # Example\n * ```\n * class
MyDirective {\n *   // Generated by Angular Template Compiler\n *   // [Symbol] syntax will not be supported by
TypeScript until v2.7\n *   static [COMPONENT_DEF_SYMBOL] = defineComponent({\n *     ... \n *   });\n * }\n *
```\n *\n\n * @template T\n * @param {?} componentDefinition\n * @return {?}\n *\n\nfunction
defineComponent(componentDefinition) {\n var /** @type {?} */ def = /** @type {?} */ ({\n type:
componentDefinition.type,\n diPublic: null,\n n: componentDefinition.factory,\n tag: (** @type {?} */

```



`@@experimental Animation support is experimental.`

`@record`

Metadata representing the entry of animations. Instances of this interface are provided via the animation DSL when the `@@link sequence sequence animation function` is called.

`@@experimental Animation support is experimental.`

`@record`

Metadata representing the entry of animations. Instances of this interface are provided via the animation DSL when the `@@link group group animation function` is called.

`@@experimental Animation support is experimental.`

`@record`

Metadata representing the entry of animations. Instances of this interface are provided via the animation DSL when the `@@link stagger stagger animation function` is called.

`@@experimental Animation support is experimental.`

`@record`

`trigger` is an animation-specific function that is designed to be used inside of Angular's animation DSL language. If this information is new, please navigate to the `@@link Component#animations component animations metadata page` to gain a better understanding of how animations in Angular are used.

`trigger` Creates an animation trigger which will a list of `@@link state state` and `@@link transition transition` entries that will be evaluated when the expression bound to the trigger changes. Triggers are registered within the component annotation data under the `@@link Component#animations animations section`. An animation trigger can be placed on an element within a template by referencing the name of the trigger followed by the expression value that the trigger is bound to (in the form of `[[@triggerName]="expression"`). Animation trigger bindings strigify values and then match the previous and current values against any linked transitions. If a boolean value is provided into the trigger binding then it will both be represented as `1` or `true` and `0` or `false` for a true and false boolean values respectively.

**Usage** `trigger` will create an animation trigger reference based on the provided `name` value. The provided `animation` value is expected to be an array consisting of `@@link state state` and `@@link transition transition` declarations.

```

typescript
@Component({
 selector: 'my-component',
 templateUrl: 'my-component-tpl.html',
 animations: [
 trigger("myAnimationTrigger", [
 state(...),
 state(...),
 transition(...),
 transition(...)]
])
]
})
class MyComponent {
 myStatusExp = "something";
}

```

The template associated with this component will make use of the `myAnimationTrigger` animation trigger by binding to an element within its template code.

```

html
<!-- somewhere inside of my-component-tpl.html -->
<div [[@myAnimationTrigger]="myStatusExp">...</div>

```

**Disable Animations** A special animation control binding called `@@.disabled` can be placed on an element which will then disable animations for any inner animation triggers situated within the element as well as any animations on the element itself. When true, the `@@.disabled` binding will prevent all animations from rendering. The example below shows how to use this feature:

```

typescript
@Component({
 selector: 'my-component',
 template: `
<div [[@.disabled]="isDisabled">
 <div [[@childAnimation]="exp"></div>
</div>
`,
 animations: [
 trigger("childAnimation", [
 // ...
])
]
})
class MyComponent {
 isDisabled = true;
 exp = '...';
}

```

The `@@childAnimation` trigger will not animate because `@@.disabled` prevents it from happening (when true). Note that `@@.disbled` will only disable all animations (this means any animations running on the same element will also be disabled).

**Disabling Animations Application-wide** When an area of the template is set to have animations disabled, **all** inner components will also have their animations disabled as well. This means that all animations for an angular application can be disabled by placing a host binding set on `@@.disabled` on the topmost Angular component.

```

typescript
import {Component, HostBinding} from '@angular/core';
@Component({
 selector: 'app-component',
 templateUrl: 'app.component.html',
})
class AppComponent {
 @@HostBinding("@.disabled")
 public animationsDisabled = true;
}

```

**What about animations that us `query()` and `animateChild()`?** Despite inner animations being disabled, a parent animation can `@@link query query` for inner elements located in disabled areas of the template and still animate them as it sees fit. This is also the case for when a sub animation is queried by a parent and then later animated using `@@link animateChild animateChild`.

`@@experimental Animation support is experimental.`

`@param`

```

{?} name
@param {?} definitions
@return {?}
function trigger$(name, definitions) {
 return {
 type: 7 /* Trigger */,
 name: name,
 definitions: definitions,
 options: {}
 };
}

```

`animate` is an animation-

specific function that is designed to be used inside of Angular's animation DSL language. If this information is new, please navigate to the [Component#animations component animations metadata page](#) to gain a better understanding of how animations in Angular are used. `animate`` specifies an animation step that will apply the provided `styles` data for a given amount of time based on the provided `timing` expression value. Calls to `animate`` are expected to be used within `{@link sequence an animation sequence}`, `{@link group group}`, or `{@link transition transition}`.

### Usage

The `animate`` function accepts two input parameters: `timing`` and `styles``. `timing`` is a string based value that can be a combination of a duration with optional delay and easing values. The format for the expression breaks down to `duration delay easing`` (therefore a value such as `1s 100ms ease-out`` will be parse itself into `duration=1000, delay=100, easing=ease-out``. If a numeric value is provided then that will be used as the `duration`` value in millisecond form. `styles`` is the style input data which can either be a call to `{@link style style}` or `{@link keyframes keyframes}`. If left empty then the styles from the destination state will be collected and used (this is useful when describing an animation step that will complete an animation by `{@link transition#the-final-animate-call animating to the final state}`).

```

typescript
// various functions for specifying timing data
animate(500, style(...))
animate("1s", style(...))
animate("100ms 0.5s", style(...))
animate("5s ease", style(...))
animate("5s 10ms cubic-bezier(.17,.67,.88,.1)", style(...))
// either style() of keyframes() can be used
animate(500, style({ background: "red" })))
animate(500, keyframes([
 style({ background: "blue" })),
 style({ background: "red" })))
]]

```

### Example

```

core/animation/ts/dsl/animation_example.ts
region='Component'
experimental
Animation support is experimental.
@param {?} timings
@param {?=} styles
@return {?}
function animate$1(timings, styles) {
 if (styles === void 0) { styles = null; }
 return { type: 4 /* Animate */, styles: styles, timings: timings };
}

```

`group`` is an animation-specific function that is designed to be used inside of Angular's animation DSL language. If this information is new, please navigate to the [Component#animations component animations metadata page](#) to gain a better understanding of how animations in Angular are used.

`group`` specifies a list of animation steps that are all run in parallel. Grouped animations are useful when a series of styles must be animated/closed off at different starting/ending times. The `group`` function can either be used within a `{@link sequence sequence}` or a `{@link transition transition}` and it will only continue to the next instruction once all of the inner animation steps have completed.

### Usage

The `steps`` data that is passed into the `group`` animation function can either consist of `{@link style style}` or `{@link animate animate}` function calls. Each call to `style()`` or `animate()`` within a group will be executed instantly (use `{@link keyframes keyframes}` or a `{@link animate#usage animate()` with a delay value) to offset styles to be applied at a later time).

```

typescript
group([
 animate("1s", { background: "black" })),
 animate("2s", { color: "white" }))]

```

### Example

```

core/animation/ts/dsl/animation_example.ts
region='Component'
experimental
Animation support is experimental.
@param {?} steps
@param {?=} options
@return {?}
function group$1(steps, options) {
 if (options === void 0) { options = null; }
 return { type: 3 /* Group */, steps: steps, options: options };
}

```

`sequence`` is an animation-specific function that is designed to be used inside of Angular's animation DSL language. If this information is new, please navigate to the [Component#animations component animations metadata page](#) to gain a better understanding of how animations in Angular are used.

`sequence`` Specifies a list of animation steps that are run one by one. (`sequence`` is used by default when an array is passed as animation data into `{@link transition transition}`).

The `sequence`` function can either be used within a `{@link group group}` or a `{@link transition transition}` and it will only continue to the next instruction once each of the inner animation steps have completed.

To perform animation styling in parallel with other animation steps then have a look at the `{@link group group}` animation function.

### Usage

The `steps`` data that is passed into the `sequence`` animation function can either consist of `{@link style style}` or `{@link animate animate}` function calls. A call to `style()`` will apply the provided styling data immediately while a call to `animate()`` will apply its styling data over a given time depending on its timing data.

```

typescript
sequence([
 style({ opacity: 0 })),
 animate("1s", { opacity: 1 }))]

```

### Example









```

[[@childAnimation]="exp">\n * two\n * </div>\n * <div [[@childAnimation]="exp">\n * three\n *
</div>\n * </div>\n * ``\n *\n * Now when the `exp` value changes to true, only the `parentAnimation` animation
will animate\n * because it has priority. However, using `query` and `animateChild` each of the inner animations\n *
can also fire:\n *\n * ``\n * // parent-child.component.ts\n * import {trigger, transition, animate, style, query,
animateChild} from '@angular/animations';\n * @Component({\n * selector: 'parent-child-component',\n * animations: [\n * trigger('parentAnimation', [\n * transition('false => true', [\n * query('header', [\n *
style({ opacity: 0 })),\n * animate(500, style({ opacity: 1 })))\n *]),\n * query('@childAnimation',
[\n * animateChild()\n *])\n *]),\n * trigger('childAnimation', [\n * transition('false
=> true', [\n * style({ opacity: 0 })),\n * animate(500, style({ opacity: 1 })))\n *])\n *]\n *
})\n * class ParentChildCmp {\n * exp: boolean = false;\n * }
``\n *\n * In the animation code above, when the
`parentAnimation` transition kicks off it first queries to\n * find the header element and fades it in. It then finds each
of the sub elements that contain the\n * `@childAnimation` trigger and then allows for their animations to fire.\n
*\n * This example can be further extended by using stagger:\n *\n * ``\n * query('@childAnimation',
stagger(100, [\n * animateChild()\n *]))\n * ``\n *\n * Now each of the sub animations start off with respect to the
`100ms` staggering step.\n *\n * ## The first frame of child animations\n * When sub animations are executed using
`animateChild` the animation engine will always apply the\n * first frame of every sub animation immediately at the
start of the animation sequence. This way\n * the parent animation does not need to set any initial styling data on the
sub elements before the\n * sub animations kick off.\n *\n * In the example above the first frame of the
`childAnimation`'s `false => true` transition\n * consists of a style of `opacity: 0`. This is applied immediately when
the `parentAnimation`\n * animation transition sequence starts. Only then when the `@childAnimation` is queried
and called\n * with `animateChild` will it then animate to its destination of `opacity: 1`.\n *\n * Note that this feature
designed to be used alongside `@link query query()` and it will only work\n * with animations that are assigned
using the Angular animation DSL (this means that CSS keyframes\n * and transitions are not handled by this
API).\n *\n * @experimental Animation support is experimental.\n * @param {=?} options\n * @return {?}\n
*\n * `useAnimation` is an animation-specific function that is designed to be used inside of Angular's\n *
animation DSL language. It is used to kick off a reusable animation that is created using `@link\n * animation
animation()`.\n *\n * @experimental Animation support is experimental.\n * @param {?} animation\n * @param
{=?} options\n * @return {?}\n *\n * `query` is an animation-specific function that is designed to be used
inside of Angular's\n * animation DSL language.\n *\n * query() is used to find one or more inner elements within
the current element that is\n * being animated within the sequence. The provided animation steps are applied\n * to
the queried element (by default, an array is provided, then this will be\n * treated as an animation sequence).\n *\n *
Usage\n *\n * query() is designed to collect mutiple elements and works internally by using\n *
`element.querySelectorAll`. An additional options object can be provided which\n * can be used to limit the total
amount of items to be collected.\n *\n * ``\n * js\n * query('div', [\n * animate(...),\n * animate(...)\n *], { limit: 1 })\n
*\n * ``\n *\n * query(), by default, will throw an error when zero items are found. If a query\n * has the `optional` flag
set to true then this error will be ignored.\n *\n * ``\n * js\n * query('some-element-that-may-not-be-there', [\n *
animate(...),\n * animate(...)\n *], { optional: true })\n * ``\n *\n * ### Special Selector Values\n *\n * The
selector value within a query can collect elements that contain angular-specific\n * characteristics\n * using special
pseudo-selectors tokens.\n *\n * These include:\n *\n * - Querying for newly inserted/removed elements using
`query(':enter')`/`query(':leave')`\n * - Querying all currently animating elements using
`query(':animating')`\n * - Querying elements that contain an animation trigger using
`query('@triggerName')`\n * - Including the current element into the animation sequence using `query(':self')`\n
*\n * Each of these pseudo-selector tokens can be merged together into a combined query selector\n * string:\n *\n * ``\n
*\n * query(':self, .record:enter, .record:leave, @subTrigger', [...])\n * ``\n *\n * ### Demo\n *\n * ``\n *
@Component({\n * selector: 'inner',\n * template: \n * <div [[@queryAnimation]="exp">\n *
<h1>Title</h1>\n * <div class="content">\n * Blah blah blah\n * </div>\n * </div>\n * },\n *
animations: [\n * trigger('queryAnimation', [\n * transition('* => goAnimate', [\n * // hide the inner

```



state\$\$1(name, styles) {\n return state\$1(name, styles);\n}\n/\*\*\n \* @deprecated This symbol has moved. Please  
Import from @@angular/animations instead!\n \* @param {?} steps\n \* @return {?}\n \*/\nfunction  
keyframes\$\$1(steps) {\n return keyframes\$1(steps);\n}\n/\*\*\n \* @deprecated This symbol has moved. Please  
Import from @@angular/animations instead!\n \* @param {?} stateChangeExpr\n \* @param {?} steps\n \* @return  
{?}\n \*/\nfunction transition\$\$1(stateChangeExpr, steps) {\n return transition\$1(stateChangeExpr,  
steps);\n}\n/\*\*\n \* @deprecated This has been renamed to `AnimationEvent`. Please import it from  
@@angular/animations.\n \* @record\n \*/\n\n/\*\*\n \* @fileoverview added by tsickle\n \* @suppress {checkTypes}  
checked by tsc\n \*/\n\n/\*\*\n \* @license\n \* Copyright Google Inc. All Rights Reserved.\n \* Use of this source  
code is governed by an MIT-style license that can be\n \* found in the LICENSE file at https://angular.io/license\n \*/\n\n/\*\*\n \* @module\n \* @description\n \* Entry point from which you should import all public core APIs.\n \*/\n\n/\*\*\n \* @fileoverview added by tsickle\n \* @suppress {checkTypes} checked by tsc\n \*/\n\n/\*\*\n \* @license\n \* Copyright Google Inc. All Rights Reserved.\n \* Use of this source code is governed by an MIT-style license  
that can be\n \* found in the LICENSE file at https://angular.io/license\n \*/\n\n/\*\*\n \* @module\n \* @description\n \* Entry point for all public APIs of this package.\n \*/\n\n// This file only reexports content of the `src` folder. Keep it  
that way.\n\n/\*\*\n \* @fileoverview added by tsickle\n \* @suppress {checkTypes} checked by tsc\n \*/\n\nGenerated bundle index. Do not edit.\n\nexport { createPlatform, assertPlatform, destroyPlatform, getPlatform,  
PlatformRef, ApplicationRef, enableProdMode, isDevMode, createPlatformFactory, NgProbeToken, APP\_ID,  
PACKAGE\_ROOT\_URL, PLATFORM\_INITIALIZER, PLATFORM\_ID, APP\_BOOTSTRAP\_LISTENER,  
APP\_INITIALIZER, ApplicationInitStatus, DebugElement, DebugNode, asNativeElements, getDebugNode,  
Testability, TestabilityRegistry, setTestabilityGetter, TRANSLATIONS, TRANSLATIONS\_FORMAT,  
LOCALE\_ID, MissingTranslationStrategy, ApplicationModule, wtfCreateScope, wtfLeave, wtfStartTimeRange,  
wtfEndTimeRange, Type, EventEmitter, ErrorHandler, Sanitizer, SecurityContext,  
ANALYZE\_FOR\_ENTRY\_COMPONENTS, Attribute, ContentChild, ContentChildren, Query, ViewChild,  
ViewChildren, Component, Directive, HostBinding, HostListener, Input, Output, Pipe,  
CUSTOM\_ELEMENTS\_SCHEMA, NO\_ERRORS\_SCHEMA, NgModule, ViewEncapsulation, Version,  
VERSION, forwardRef, resolveForwardRef, Injector, ReflectiveInjector, ResolvedReflectiveFactory,  
ReflectiveKey, InjectionToken, Inject, Optional, Injectable, Self, SkipSelf, Host, NgZone, RenderComponentType,  
Renderer, Renderer2, RendererFactory2, RendererStyleFlags2, RootRenderer, COMPILER\_OPTIONS, Compiler,  
CompilerFactory, ModuleWithComponentFactories, ComponentFactory, ComponentRef,  
ComponentFactoryResolver, ElementRef, NgModuleFactory, NgModuleRef, NgModuleFactoryLoader,  
getModuleFactory, QueryList, SystemJsNgModuleLoader, SystemJsNgModuleLoaderConfig, TemplateRef,  
ViewContainerRef, EmbeddedViewRef, ViewRef, ChangeDetectionStrategy, ChangeDetectorRef,  
DefaultIterableDiffer, IterableDiffers, KeyValueDiffers, SimpleChange, WrappedValue, platformCore,  
ALLOW\_MULTIPLE\_PLATFORMS as ALLOW\_MULTIPLE\_PLATFORMS, APP\_ID\_RANDOM\_PROVIDER  
as APP\_ID\_RANDOM\_PROVIDER, devModeEqual as devModeEqual, isListLikeIterable as isListLikeIterable,  
ChangeDetectorStatus as ChangeDetectorStatus, isDefaultChangeDetectionStrategy as  
isDefaultChangeDetectionStrategy, Console as Console, ComponentFactory as ComponentFactory,  
CodegenComponentFactoryResolver as CodegenComponentFactoryResolver, ReflectionCapabilities as  
ReflectionCapabilities, RenderDebugInfo as RenderDebugInfo, \_global as global, looseIdentical as looseIdentical,  
stringify as stringify, makeDecorator as makeDecorator, isObservable as isObservable, isPromise as isPromise,  
clearOverrides as clearOverrides, overrideComponentView as overrideComponentView, overrideProvider as  
overrideProvider, NOT\_FOUND\_CHECK\_ONLY\_ELEMENT\_INJECTOR as  
NOT\_FOUND\_CHECK\_ONLY\_ELEMENT\_INJECTOR, defineComponent as defineComponent, detectChanges  
as detectChanges, renderComponent as renderComponent, containerStart as C, directive as D, elementStart as E,  
text as T, viewStart as V, bind as b, bind1 as b1, containerEnd as c, containerRefreshStart as cR,  
containerRefreshEnd as cr, elementEnd as e, elementProperty as p, elementStyle as s, textBinding as t, viewEnd as  
v, registerModuleFactory as registerModuleFactory, EMPTY\_ARRAY as EMPTY\_ARRAY, EMPTY\_MAP as  
EMPTY\_MAP, anchorDef as and, createComponentFactory as ccf, createNgModuleFactory as cmf,



```

typeOrFunc\n * @return {?}\n *\n JitReflector.prototype.annotations = /**\n * @param {?} typeOrFunc\n * @return {?}\n *\n function (typeOrFunc) {\n return
this.reflectionCapabilities.annotations(typeOrFunc);\n };\n /**\n * @param {?} typeOrFunc\n * @return
{?}\n *\n JitReflector.prototype.propMetadata = /**\n * @param {?} typeOrFunc\n * @return {?}\n
*\n function (typeOrFunc) {\n return this.reflectionCapabilities.propMetadata(typeOrFunc);\n };\n /**\n
* @param {?} type\n * @param {?} lcProperty\n * @return {?}\n *\n
JitReflector.prototype.hasLifecycleHook = /**\n * @param {?} type\n * @param {?} lcProperty\n *
@return {?}\n *\n function (type, lcProperty) {\n return this.reflectionCapabilities.hasLifecycleHook(type,
lcProperty);\n };\n /**\n * @param {?} type\n * @return {?}\n *\n JitReflector.prototype.guards =
/**\n * @param {?} type\n * @return {?}\n *\n function (type) { return
this.reflectionCapabilities.guards(type); }\n /**\n * @param {?} ref\n * @return {?}\n *\n
JitReflector.prototype.resolveExternalReference = /**\n * @param {?} ref\n * @return {?}\n *\n function
(ref) {\n return builtinExternalReferences.get(ref) || ref.runtime;\n };\n return JitReflector;\n});\n/**\n *
@return {?}\n *\nfunction createBuiltinExternalReferencesMap() {\n var /** @type {?} */ map = new Map();\n
map.set(Identifiers.ANALYZE_FOR_ENTRY_COMPONENTS, ANALYZE_FOR_ENTRY_COMPONENTS);\n
map.set(Identifiers.ElementRef, ElementRef);\n map.set(Identifiers.NgModuleRef, NgModuleRef);\n
map.set(Identifiers.ViewContainerRef, ViewContainerRef);\n map.set(Identifiers.ChangeDetectorRef,
ChangeDetectorRef);\n map.set(Identifiers.QueryList, QueryList);\n map.set(Identifiers.TemplateRef,
TemplateRef);\n map.set(Identifiers.CodegenComponentFactoryResolver,
CodegenComponentFactoryResolver);\n map.set(Identifiers.ComponentFactoryResolver,
ComponentFactoryResolver);\n map.set(Identifiers.ComponentFactory, ComponentFactory);\n
map.set(Identifiers.ComponentRef, ComponentRef);\n map.set(Identifiers.NgModuleFactory,
NgModuleFactory);\n map.set(Identifiers.createModuleFactory, cmf);\n map.set(Identifiers.moduleDef, mod);\n
map.set(Identifiers.moduleProviderDef, mpd);\n map.set(Identifiers.RegisterModuleFactoryFn,
registerModuleFactory);\n map.set(Identifiers.Injector, Injector);\n map.set(Identifiers.ViewEncapsulation,
ViewEncapsulation);\n map.set(Identifiers.ChangeDetectionStrategy, ChangeDetectionStrategy);\n
map.set(Identifiers.SecurityContext, SecurityContext);\n map.set(Identifiers.LOCALE_ID, LOCALE_ID);\n
map.set(Identifiers.TRANSLATIONS_FORMAT, TRANSLATIONS_FORMAT);\n
map.set(Identifiers.inlineInterpolate, inlineInterpolate);\n map.set(Identifiers.interpolate, interpolate);\n
map.set(Identifiers.EMPTY_ARRAY, EMPTY_ARRAY);\n map.set(Identifiers.EMPTY_MAP,
EMPTY_MAP);\n map.set(Identifiers.Renderer, Renderer);\n map.set(Identifiers.viewDef, vid);\n
map.set(Identifiers.elementDef, eld);\n map.set(Identifiers.anchorDef, and);\n map.set(Identifiers.textDef, ted);\n
map.set(Identifiers.directiveDef, did);\n map.set(Identifiers.providerDef, prd);\n map.set(Identifiers.queryDef,
qud);\n map.set(Identifiers.pureArrayDef, pad);\n map.set(Identifiers.pureObjectDef, pod);\n
map.set(Identifiers.purePipeDef, ppd);\n map.set(Identifiers.pipeDef, pid);\n map.set(Identifiers.nodeValue,
nov);\n map.set(Identifiers.ngContentDef, ncd);\n map.set(Identifiers.unwrapValue, unv);\n
map.set(Identifiers.createRendererType2, crt);\n map.set(Identifiers.createComponentFactory, ccf);\n return
map;\n}\n\n/**\n * @fileoverview added by tsickle\n * @suppress {checkTypes} checked by tsc\n */\n\n *
@license\n * Copyright Google Inc. All Rights Reserved.\n * Use of this source code is governed by an MIT-
style license that can be\n * found in the LICENSE file at https://angular.io/license\n */\n\n
ERROR_COLLECTOR_TOKEN = new InjectionToken('ErrorCollector');\n\n * A default provider for {@link
PACKAGE_ROOT_URL} that maps to '.\n *\n nvar DEFAULT_PACKAGE_URL_PROVIDER = {\n provide:
PACKAGE_ROOT_URL,\n useValue: '.';\n };\n nvar _NO_RESOURCE_LOADER = {\n get: /**\n * @param
{?} url\n * @return {?}\n *\n function (url) {\n throw new Error("No ResourceLoader implementation
has been provided. Can't read the url \\\\" + url + \\\\"");\n }\n };\n nvar baseHtmlParser = new
InjectionToken('HtmlParser');\n nvar CompilerImpl = /** @class */ (function () {\n function CompilerImpl(injector,
_metadataResolver, templateParser, styleCompiler, viewCompiler, ngModuleCompiler, summaryResolver,
compileReflector, compilerConfig, console) {\n this._metadataResolver = _metadataResolver;\n

```



```

this._delegate = new JitCompiler(_metadataResolver, templateParser, styleCompiler, viewCompiler,
ngModuleCompiler, summaryResolver, compileReflector, compilerConfig, console,
this.getExtraNgModuleProviders.bind(this));\n this.injector = injector;\n }\n /**\n * @return {?}\n */\n CompilerImpl.prototype.getExtraNgModuleProviders = /**\n * @return {?}\n */\n function () {\nreturn [this._metadataResolver.getProviderMetadata(new ProviderMeta(Compiler, { useValue: this }));\n];\n /**\n * @template T\n * @param {?} moduleType\n * @return {?}\n */\n CompilerImpl.prototype.compileModuleSync = /**\n * @template T\n * @param {?} moduleType\n * @return {?}\n */\n function (moduleType) {\n return /** @type {?} */\n (this._delegate.compileModuleSync(moduleType));\n };\n /**\n * @template T\n * @param {?}\n * @return {?}\n */\n CompilerImpl.prototype.compileModuleAsync = /**\n * @template\n * @param {?} moduleType\n * @return {?}\n */\n function (moduleType) {\n return /** @type\n {?} */ (this._delegate.compileModuleAsync(moduleType));\n };\n /**\n * @template T\n * @param {?}\n * @return {?}\n */\n CompilerImpl.prototype.compileModuleAndAllComponentsSync =\n /**\n * @template T\n * @param {?} moduleType\n * @return {?}\n */\n function (moduleType) {\n var /** @type {?} */ result = this._delegate.compileModuleAndAllComponentsSync(moduleType);\n return\n {\n ngModuleFactory: /** @type {?} */ (result.ngModuleFactory),\n componentFactories: /** @type\n {?} */ (result.componentFactories),\n };\n };\n /**\n * @template T\n * @param {?} moduleType\n * @return {?}\n */\n CompilerImpl.prototype.compileModuleAndAllComponentsAsync = /**\n * @template\n * @param {?} moduleType\n * @return {?}\n */\n function (moduleType) {\n return\n this._delegate.compileModuleAndAllComponentsAsync(moduleType)\n .then(function (result) {\n return ({\n ngModuleFactory: /** @type {?} */ (result.ngModuleFactory),\n componentFactories:\n /** @type {?} */ (result.componentFactories),\n });\n });\n /**\n * @param {?} summaries\n * @return {?}\n */\n CompilerImpl.prototype.loadAotSummaries = /**\n * @param {?} summaries\n * @return {?}\n */\n function (summaries) {\n this._delegate.loadAotSummaries(summaries);\n };\n /**\n * @param {?} ref\n * @return {?}\n */\n CompilerImpl.prototype.hasAotSummary = /**\n * @param {?}\n * @return {?}\n */\n function (ref) {\n return this._delegate.hasAotSummary(ref);\n };\n /**\n * @template T\n * @param {?} component\n * @return {?}\n */\n CompilerImpl.prototype.getComponentFactory = /**\n * @template T\n * @param {?} component\n * @return {?}\n */\n function (component) {\n return /** @type {?} */\n (this._delegate.getComponentFactory(component));\n };\n /**\n * @return {?}\n */\n CompilerImpl.prototype.clearCache = /**\n * @return {?}\n */\n function () {\n this._delegate.clearCache();\n };\n /**\n * @param {?} type\n * @return {?}\n */\n CompilerImpl.prototype.clearCacheFor = /**\n * @param {?} type\n * @return {?}\n */\n function (type) {\n this._delegate.clearCacheFor(type);\n };\n return\n CompilerImpl;\n});\n\n/**\n * A set of providers that provide `JitCompiler` and its dependencies to use for\n * template compilation.\n */\nvar COMPILER_PROVIDERS = /** @type {?} */ ([\n { provide: CompileReflector,\n useValue: new JitReflector() },\n { provide: ResourceLoader, useValue: _NO_RESOURCE_LOADER },\n { provide: JitSummaryResolver, deps: [] },\n { provide: SummaryResolver, useExisting: JitSummaryResolver },\n { provide: Console, deps: [] },\n { provide: Lexer, deps: [] },\n { provide: Parser, deps: [Lexer] },\n {\n provide: baseHtmlParser,\n useClass: HtmlParser,\n deps: [],\n },\n {\n provide: I18NHtmlParser,\n useFactory: function (parser, translations, format, config, console) {\n translations = translations || "";\n var /** @type {?} */ missingTranslation = translations ? /** @type {?} */ ((config.missingTranslation)) :\n MissingTranslationStrategy.Ignore;\n return new I18NHtmlParser(parser, translations, format,\n missingTranslation, console);\n },\n deps: [\n baseHtmlParser,\n [new Optional(), new\n Inject(TRANSLATIONS)],\n [new Optional(), new Inject(TRANSLATIONS_FORMAT)],\n [CompilerConfig],\n [Console],\n]\n },\n {\n provide: HtmlParser,\n useExisting:\n I18NHtmlParser,\n },\n {\n provide: TemplateParser, deps: [CompilerConfig, CompileReflector,\n Parser, ElementSchemaRegistry,\n I18NHtmlParser, Console]\n },\n {\n provide: DirectiveNormalizer,\n deps: [ResourceLoader, UrlResolver, HtmlParser, CompilerConfig] },\n {\n provide: CompileMetadataResolver,\n

```

```

deps: [CompilerConfig, HtmlParser, NgModuleResolver,\n DirectiveResolver, PipeResolver,\n SummaryResolver,\n ElementSchemaRegistry,\n DirectiveNormalizer, Console,\n [Optional, StaticSymbolCache],\n CompileReflector,\n [Optional, ERROR_COLLECTOR_TOKEN]] },\n DEFAULT_PACKAGE_URL_PROVIDER,\n { provide: StyleCompiler, deps: [UrlResolver] },\n { provide: ViewCompiler, deps: [CompileReflector] },\n { provide: NgModuleCompiler, deps: [CompileReflector] },\n { provide: CompilerConfig, useValue: new CompilerConfig() },\n { provide: Compiler, useClass: CompilerImpl, deps: [Injector, CompileMetadataResolver,\n TemplateParser, StyleCompiler,\n ViewCompiler, NgModuleCompiler,\n SummaryResolver, CompileReflector, CompilerConfig,\n Console] },\n { provide: DomElementSchemaRegistry, deps: [] },\n { provide: ElementSchemaRegistry, useExisting: DomElementSchemaRegistry },\n { provide: UrlResolver, deps: [PACKAGE_ROOT_URL] },\n { provide: DirectiveResolver, deps: [CompileReflector] },\n { provide: PipeResolver, deps: [CompileReflector] },\n { provide: NgModuleResolver, deps: [CompileReflector] },\n);\n\n/**\n * \@experimental\n */\nvar JitCompilerFactory = /** @class */ (function () {\n /* @internal */\n function JitCompilerFactory(defaultOptions) {\n var /** @type {?} */ compilerOptions = { useJit: true,\n defaultEncapsulation: ViewEncapsulation.Emulated,\n missingTranslation: MissingTranslationStrategy.Warning,\n enableLegacyTemplate: false,\n }; this._defaultOptions = [compilerOptions].concat(defaultOptions);\n }\n\n /**\n * \@param {?} options\n * \@return {?}\n */\n JitCompilerFactory.prototype.createCompiler = /**\n * \@param {?} options\n * \@return {?}\n */\n function (options) {\n if (options === void 0) { options = []; }\n var /** @type {?} */ opts = _mergeOptions(this._defaultOptions.concat(options));\n var /** @type {?} */ injector = Injector.create([\n COMPILER_PROVIDERS, {\n provide: CompilerConfig,\n useFactory: function () {\n return new CompilerConfig({\n // let explicit values from the compiler options overwrite options\n // from the app providers\n useJit: opts.useJit,\n jitDevMode: isDevMode(),\n // let explicit values from the compiler options overwrite options\n // from the app providers\n defaultEncapsulation: opts.defaultEncapsulation,\n missingTranslation: opts.missingTranslation,\n enableLegacyTemplate: opts.enableLegacyTemplate,\n preserveWhitespaces: opts.preserveWhitespaces,\n });\n },\n deps: [],\n },\n /** @type {?} */ ((opts.providers))\n]);\n return injector.get(Compiler);\n }\n\n return JitCompilerFactory;\n})();\n\n/**\n * \@param {?} optionsArr\n * \@return {?}\n */\nfunction _mergeOptions(optionsArr) {\n return {\n useJit: _lastDefined(optionsArr.map(function (options) {\n return options.useJit; })),\n defaultEncapsulation: _lastDefined(optionsArr.map(function (options) {\n return options.defaultEncapsulation; })),\n providers: _mergeArrays(optionsArr.map(function (options) {\n return ((options.providers)); })),\n missingTranslation: _lastDefined(optionsArr.map(function (options) {\n return options.missingTranslation; })),\n enableLegacyTemplate: _lastDefined(optionsArr.map(function (options) {\n return options.enableLegacyTemplate; })),\n preserveWhitespaces: _lastDefined(optionsArr.map(function (options) {\n return options.preserveWhitespaces; })),\n };\n}\n\n/**\n * \@template T\n * \@param {?} args\n * \@return {?}\n */\nfunction _lastDefined(args) {\n for (var /** @type {?} */ i = args.length - 1; i >= 0; i--) {\n if (args[i] !== undefined) {\n return args[i];\n }\n }\n return undefined;\n}\n\n/**\n * \@param {?} parts\n * \@return {?}\n */\nfunction _mergeArrays(parts) {\n var /** @type {?} */ result = [];\n parts.forEach(function (part) {\n return part && result.push.apply(result, part);\n });\n return result;\n}\n\n/**\n * \@fileoverview added by tsickle\n * \@suppress {checkTypes} checked by tsc\n */\n\n/**\n * \@license\n * Copyright Google Inc. All Rights Reserved.\n * Use of this source code is governed by an MIT-style license that can be\n * found in the LICENSE file at https://angular.io/license\n */\n\n/**\n * A platform that included corePlatform and the compiler.\n */\n\n/**\n * \@experimental\n */\nvar platformCoreDynamic = createPlatformFactory(platformCore, 'coreDynamic', [\n { provide: COMPILER_OPTIONS, useValue: {}, multi: true },\n { provide: CompilerFactory, useClass: JitCompilerFactory, deps: [COMPILER_OPTIONS] },\n]);\n\n/**\n * \@fileoverview added by tsickle\n * \@suppress {checkTypes} checked by tsc\n */\nvar ResourceLoaderImpl = /** @class */ (function (_super) {\n __extends(ResourceLoaderImpl, _super);\n function ResourceLoaderImpl() {\n return

```

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_super !== null && _super.apply(this, arguments) || this;\n }\n /**\n * @param {?} url\n * @return {?}\n */\n ResourceLoaderImpl.prototype.get = /**\n * @param {?} url\n * @return {?}\n */\n function (url)\n {\n var /** @type {?} */ resolve;\n var /** @type {?} */ reject;\n var /** @type {?} */ promise = new\n Promise(function (res, rej) {\n resolve = res;\n reject = rej;\n });\n var /** @type {?} */ xhr =\n new XMLHttpRequest();\n xhr.open('GET', url, true);\n xhr.responseType = 'text';\n xhr.onload =\n function () {\n // responseText is the old-school way of retrieving response (supported by IE8 & 9)\n // response/responseType properties were introduced in ResourceLoader Level2 spec (supported\n // by IE10)\n var /** @type {?} */ response = xhr.response || xhr.responseText;\n // normalize IE9 bug\n (http://bugs.jquery.com/ticket/1450)\n var /** @type {?} */ status = xhr.status === 1223 ? 204 : xhr.status;\n // fix status code when it is 0 (0 status is undocumented).\n // Occurs when accessing file resources or\n on Android 4.1 stock browser\n // while retrieving files from application cache.\n if (status === 0) {\n status = response ? 200 : 0;\n }\n if (200 <= status && status <= 300) {\n resolve(response);\n }\n else {\n reject("Failed to load " + url);\n }\n };\n xhr.onerror = function () { reject("Failed to load " + url); }; \n xhr.send();\n return promise;\n };\n ResourceLoaderImpl.decorators = [\n { type: Injectable },\n];\n /** @nocollapse */\n ResourceLoaderImpl.ctorParameters = function () { return []; }; \n return\n ResourceLoaderImpl;\n})(ResourceLoader);\n\n/**\n * @fileoverview added by tsickle\n * @suppress\n {checkTypes} checked by tsc\n */\n\n/**\n * @license\n * Copyright Google Inc. All Rights Reserved.\n * Use of\n this source code is governed by an MIT-style license that can be\n * found in the LICENSE file at\n https://angular.io/license\n */\n\nvar INTERNAL_BROWSER_DYNAMIC_PLATFORM_PROVIDERS = [\n INTERNAL_BROWSER_PLATFORM_PROVIDERS,\n {\n provide: COMPILER_OPTIONS,\n useValue: { providers: [{ provide: ResourceLoader, useClass: ResourceLoaderImpl, deps: [] }] },\n multi: true\n },\n {\n provide: PLATFORM_ID, useValue: PLATFORM_BROWSER_ID\n }];\n\n/**\n * @fileoverview added\n by tsickle\n * @suppress {checkTypes} checked by tsc\n */\n\n/**\n * @license\n * Copyright Google Inc. All Rights\n Reserved.\n * Use of this source code is governed by an MIT-style license that can be\n * found in the\n LICENSE file at https://angular.io/license\n */\n\n/**\n * An implementation of ResourceLoader that uses a template\n cache to avoid doing an actual\n * ResourceLoader.\n * The template cache needs to be built and loaded into\n window.$templateCache\n * via a separate mechanism.\n */\n\nvar CachedResourceLoader = /** @class */ (function\n (_super) {\n __extends(CachedResourceLoader, _super);\n function CachedResourceLoader() {\n var _this\n = _super.call(this) || this;\n _this._cache = (/** @type {?} */ (global)).$templateCache;\n if (_this._cache\n == null) {\n throw new Error('CachedResourceLoader: Template cache was not found in $templateCache.);\n }\n return _this;\n }\n /**\n * @param {?} url\n * @return {?}\n */\n CachedResourceLoader.prototype.get = /**\n * @param {?} url\n * @return {?}\n */\n function (url) {\n if (this._cache.hasOwnProperty(url)) {\n return Promise.resolve(this._cache[url]);\n }\n else {\n return /** @type {?} */ (Promise.reject('CachedResourceLoader: Did not find cached template for ' + url));\n }\n };\n return CachedResourceLoader;\n})(ResourceLoader);\n\n/**\n * @fileoverview added by tsickle\n * @suppress {checkTypes} checked by tsc\n */\n\n/**\n * @license\n * Copyright Google Inc. All Rights Reserved.\n * Use of\n this source code is governed by an MIT-style license that can be\n * found in the LICENSE file at\n https://angular.io/license\n */\n\n/**\n * @fileoverview added by tsickle\n * @suppress {checkTypes} checked by\n tsc\n */\n\n/**\n * @license\n * Copyright Google Inc. All Rights Reserved.\n * Use of this source code is\n governed by an MIT-style license that can be\n * found in the LICENSE file at https://angular.io/license\n */\n\n/**\n * @stable\n */\n\nvar VERSION = new Version('5.2.1');\n\n/**\n * @fileoverview added by tsickle\n * @suppress\n {checkTypes} checked by tsc\n */\n\n/**\n * @license\n * Copyright Google Inc. All Rights Reserved.\n * Use of\n this source code is governed by an MIT-style license that can be\n * found in the LICENSE file at\n https://angular.io/license\n */\n\n/**\n * @experimental\n */\n\nvar RESOURCE_CACHE_PROVIDER = [{ provide:\n ResourceLoader, useClass: CachedResourceLoader, deps: [] }];\n\n/**\n * @stable\n */\n\nvar\n platformBrowserDynamic = createPlatformFactory(platformCoreDynamic, 'browserDynamic',\n INTERNAL_BROWSER_DYNAMIC_PLATFORM_PROVIDERS);\n\n/**\n * @fileoverview added by tsickle\n */

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@type {?} */ transEndEventNames_1 = {\n WebkitTransition: 'webkitTransitionEnd',\n
MozTransition: 'transitionend',\n OTransition: 'oTransitionEnd otrransitionend',\n transition:\n
'transitionend'\n };\n Object.keys(transEndEventNames_1).forEach(function (key) {\n if\n
(_this.getStyle(element_1, key) != null) {\n _this._transitionEnd = transEndEventNames_1[key];\n
 }\n });\n } catch (** @type {?} */ e) {\n _this._animationPrefix = null;\n
 _this._transitionEnd = null;\n }\n return this;\n }\n /**\n * @param {?} el\n * @return {?}\n
*/\n GenericBrowserDomAdapter.prototype.getDistributedNodes = /**\n * @param {?} el\n * @return {?}\n
*/\n function (el) { return (** @type {?} */ (el)).getDistributedNodes(); };\n /**\n * @param {?} el\n *
@param {?} baseUrl\n * @param {?} href\n * @return {?}\n */\n GenericBrowserDomAdapter.prototype.resolveAndSetHref = /**\n * @param {?} el\n * @param {?}
baseUrl\n * @param {?} href\n * @return {?}\n */\n function (el, baseUrl, href) {\n el.href = href ===\n
null ? baseUrl : baseUrl + '/../' + href;\n };\n /**\n * @return {?}\n */\n GenericBrowserDomAdapter.prototype.supportsDOMEvents = /**\n * @return {?}\n
*/\n function () {\n return true; };\n /**\n * @return {?}\n */\n GenericBrowserDomAdapter.prototype.supportsNativeShadowDOM = /**\n * @return {?}\n
*/\n function ()\n {\n return typeof (** @type {?} */ (document.body)).createShadowRoot === 'function';\n };\n /**\n *
@return {?}\n */\n GenericBrowserDomAdapter.prototype.getAnimationPrefix = /**\n * @return {?}\n
*/\n function () { return this._animationPrefix ? this._animationPrefix : ''; };\n /**\n * @return {?}\n
*/\n GenericBrowserDomAdapter.prototype.getTransitionEnd = /**\n * @return {?}\n
*/\n function () { return\n
this._transitionEnd ? this._transitionEnd : ''; };\n /**\n * @return {?}\n */\n GenericBrowserDomAdapter.prototype.supportsAnimation = /**\n * @return {?}\n
*/\n function () {\n return this._animationPrefix != null && this._transitionEnd != null;\n };\n return\n
GenericBrowserDomAdapter; } (DomAdapter));\n\n/**\n * @fileoverview added by tsickle\n * @suppress\n
{checkTypes} checked by tsc\n */\n /**\n * @license\n * Copyright Google Inc. All Rights Reserved.\n */\n /**\n * Use of\n
this source code is governed by an MIT-style license that can be\n * found in the LICENSE file at\n
https://angular.io/license\n */\n nvar _attrToPropsMap = {\n 'class': 'className',\n 'innerHTML': 'innerHTML',\n
'readonly': 'readOnly',\n 'tabindex': 'tabIndex'};\n nvar DOM_KEY_LOCATION_NUMPAD = 3;\n // Map to\n
convert some key or keyIdentifier values to what will be returned by getEventKey\n nvar _keyMap = {\n // The\n
following values are here for cross-browser compatibility and to match the W3C standard\n // cf\n
http://www.w3.org/TR/DOM-Level-3-Events-key\n '\b': 'Backspace',\n '\t': 'Tab',\n '\x7F': 'Delete',\n
'\x1B': 'Escape',\n 'Del': 'Delete',\n 'Esc': 'Escape',\n 'Left': 'ArrowLeft',\n 'Right': 'ArrowRight',\n 'Up':\n
'ArrowUp',\n 'Down': 'ArrowDown',\n 'Menu': 'ContextMenu',\n 'Scroll': 'ScrollLock',\n 'Win': 'OS'};\n //\n
There is a bug in Chrome for numeric keypad keys:\n //\n
https://code.google.com/p/chromium/issues/detail?id=155654\n // 1, 2, 3 ... are reported as A, B, C ...\n nvar\n
_chromeNumKeyPadMap = {\n 'A': '1',\n 'B': '2',\n 'C': '3',\n 'D': '4',\n 'E': '5',\n 'F': '6',\n 'G': '7',\n 'H':\n
'8',\n 'I': '9',\n 'J': '*',\n 'K': '+',\n 'M': '-',\n 'N': '.',\n 'O': '/',\n '\x60': '0',\n '\x90': 'NumLock'};\n nvar\n
nodeContains;\n nif (global['Node']) {\n nodeContains = global['Node'].prototype.contains || function (node) {\n return\n
!!(this.compareDocumentPosition(node) & 16);\n };\n }\n /**\n * A `DomAdapter` powered by full browser\n
DOM APIs.\n */\n /**\n * @security Tread carefully! Interacting with the DOM directly is dangerous and\n * can\n
introduce XSS risks.\n */\n nvar BrowserDomAdapter = /** @class */ (function (_super) {\n __extends(BrowserDomAdapter, _super);\n function BrowserDomAdapter() {\n return _super !== null &&\n
 _super.apply(this, arguments) || this;\n }\n /**\n * @param {?} templateHtml\n * @return {?}\n
*/\n BrowserDomAdapter.prototype.parse = /**\n * @param {?} templateHtml\n * @return {?}\n
*/\n function\n
(templateHtml) { throw new Error('parse not implemented'); };\n /**\n * @return {?}\n */\n BrowserDomAdapter.makeCurrent = /**\n * @return {?}\n
*/\n function () { setRootDomAdapter(new\n
BrowserDomAdapter()); };\n /**\n * @param {?} element\n * @param {?} name\n * @return {?}\n
*/\n BrowserDomAdapter.prototype.hasProperty = /**\n * @param {?} element\n * @param {?} name\n
*/\n @return {?}\n */\n function (element, name) { return name in element; };\n /**\n * @param {?} el\n *

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@param {?} name\n * @param {?} value\n * @return {?}\n */\n
BrowserDomAdapter.prototype.setProperty = /**\n * @param {?} el\n * @param {?} name\n * @param {?} value\n * @return {?}\n */\n function (el, name, value) { (** @type {?} */(el))[name] = value; };\n /**\n * @param {?} el\n * @param {?} name\n * @return {?}\n */\n
BrowserDomAdapter.prototype.getProperty = /**\n * @param {?} el\n * @param {?} name\n * @return {?}\n */\n function (el, name) { return (** @type {?} */(el))[name]; };\n /**\n * @param {?} el\n * @param {?} methodName\n * @param {?} args\n * @return {?}\n */\n
BrowserDomAdapter.prototype.invoke = /**\n * @param {?} el\n * @param {?} methodName\n * @param {?} args\n * @return {?}\n */\n function (el, methodName, args) {\n (_a = (** @type {?} */(el))[methodName].apply(_a, args));\n var _a;\n };\n // TODO(tbosch): move this into a separate environment class once we have it\n /**\n * @param {?} error\n * @return {?}\n */\n
BrowserDomAdapter.prototype.logError = /**\n * @param {?} error\n * @return {?}\n */\n function (error) {\n if (window.console) {\n if (console.error) {\n console.error(error);\n }\n } else {\n console.log(error);\n }\n };\n /**\n * @param {?} error\n * @return {?}\n */\n
BrowserDomAdapter.prototype.log = /**\n * @param {?} error\n * @return {?}\n */\n function (error) {\n if (window.console) {\n window.console.log && window.console.log(error);\n }\n };\n /**\n * @param {?} error\n * @return {?}\n */\n
BrowserDomAdapter.prototype.logGroup = /**\n * @param {?} error\n * @return {?}\n */\n function (error) {\n if (window.console) {\n window.console.group && window.console.group(error);\n }\n };\n /**\n * @return {?}\n */\n
BrowserDomAdapter.prototype.logGroupEnd = /**\n * @return {?}\n */\n function () {\n if (window.console) {\n window.console.groupEnd && window.console.groupEnd();\n }\n };\n
Object.defineProperty(BrowserDomAdapter.prototype, "attrToPropsMap", {\n get: /**\n * @return {?}\n */\n function () { return _attrToPropsMap; },\n enumerable: true,\n configurable: true\n });\n /**\n * @param {?} nodeA\n * @param {?} nodeB\n * @return {?}\n */\n
BrowserDomAdapter.prototype.contains = /**\n * @param {?} nodeA\n * @param {?} nodeB\n * @return {?}\n */\n function (nodeA, nodeB) { return nodeContains.call(nodeA, nodeB); };\n /**\n * @param {?} el\n * @param {?} selector\n * @return {?}\n */\n
BrowserDomAdapter.prototype.querySelector = /**\n * @param {?} el\n * @param {?} selector\n * @return {?}\n */\n function (el, selector) { return el.querySelector(selector); };\n /**\n * @param {?} el\n * @param {?} selector\n * @return {?}\n */\n
BrowserDomAdapter.prototype.querySelectorAll = /**\n * @param {?} el\n * @param {?} selector\n * @return {?}\n */\n function (el, selector) { return el.querySelectorAll(selector); };\n /**\n * @param {?} el\n * @param {?} evt\n * @param {?} listener\n * @return {?}\n */\n
BrowserDomAdapter.prototype.on = /**\n * @param {?} el\n * @param {?} evt\n * @param {?} listener\n * @return {?}\n */\n function (el, evt, listener) { el.addEventListener(evt, listener, false); };\n /**\n * @param {?} el\n * @param {?} evt\n * @param {?} listener\n * @return {?}\n */\n
BrowserDomAdapter.prototype.onAndCancel = /**\n * @param {?} el\n * @param {?} evt\n * @param {?} listener\n * @return {?}\n */\n function (el, evt, listener) {\n el.addEventListener(evt, listener, false);\n // Needed to follow Dart's subscription semantic, until fix of\n //
https://code.google.com/p/dart/issues/detail?id=17406\n return function () { el.removeEventListener(evt, listener, false); };\n };\n /**\n * @param {?} el\n * @param {?} evt\n * @return {?}\n */\n
BrowserDomAdapter.prototype.dispatchEvent = /**\n * @param {?} el\n * @param {?} evt\n * @return {?}\n */\n function (el, evt) { el.dispatchEvent(evt); };\n /**\n * @param {?} eventType\n * @return {?}\n */\n
BrowserDomAdapter.prototype.createMouseEvent = /**\n * @param {?} eventType\n * @return {?}\n */\n function (eventType) {\n var /** @type {?} */ evt = this.getDefaultDocument().createEvent('MouseEvent');\n evt.initEvent(eventType, true, true);\n return evt;\n };\n /**\n * @param {?} eventType\n * @return {?}\n */\n
BrowserDomAdapter.prototype.createEvent = /**\n * @param {?} eventType\n * @return {?}\n */\n function (eventType) {\n var /** @type {?} */ evt = this.getDefaultDocument().createEvent('Event');\n
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evt.initEvent(eventType, true, true);\n return evt;\n };\n /**\n * @param {?} evt\n * @return {?}\n *\n * BrowserDomAdapter.prototype.preventDefault = /**\n * @param {?} evt\n * @return {?}\n *\n * function (evt) {\n * evt.preventDefault();\n * evt.returnValue = false;\n * };\n * /**\n * @param {?} evt\n * @return {?}\n *\n * BrowserDomAdapter.prototype.isPrevented = /**\n * @param {?} evt\n * @return {?}\n *\n * function (evt) {\n * return evt.defaultPrevented || evt.returnValue != null && !evt.returnValue;\n * };\n * /**\n * @param {?} el\n * @return {?}\n *\n * BrowserDomAdapter.prototype.getInnerHTML = /**\n * @param {?} el\n * @return {?}\n *\n * function (el) { return el.innerHTML; };\n * /**\n * @param {?} el\n * @return {?}\n *\n * BrowserDomAdapter.prototype.getTemplateContent = /**\n * @param {?} el\n * @return {?}\n *\n * function (el) {\n * return 'content' in el &&\n * this.isTemplateElement(el) ? (** @type {?} */ (el)).content : null;\n * };\n * /**\n * @param {?} el\n * @return {?}\n *\n * BrowserDomAdapter.prototype.getOuterHTML = /**\n * @param {?} el\n * @return {?}\n *\n * function (el) { return el.outerHTML; };\n * /**\n * @param {?} node\n * @return {?}\n *\n * BrowserDomAdapter.prototype.nodeName = /**\n * @param {?} node\n * @return {?}\n *\n * function (node) { return node.nodeName; };\n * /**\n * @param {?} node\n * @return {?}\n *\n * BrowserDomAdapter.prototype.nodeValue = /**\n * @param {?} node\n * @return {?}\n *\n * function (node) { return node.nodeValue; };\n * /**\n * @param {?} node\n * @return {?}\n *\n * BrowserDomAdapter.prototype.type = /**\n * @param {?} node\n * @return {?}\n *\n * function (node) {\n * return node.type; };\n * /**\n * @param {?} node\n * @return {?}\n *\n * BrowserDomAdapter.prototype.content = /**\n * @param {?} node\n * @return {?}\n *\n * function (node)\n * {\n * if (this.hasProperty(node, 'content'))\n * return (** @type {?} */ (node)).content;\n * }\n * else\n * {\n * return node;\n * }\n * };\n * /**\n * @param {?} el\n * @return {?}\n *\n * BrowserDomAdapter.prototype.firstChild = /**\n * @param {?} el\n * @return {?}\n *\n * function (el) {\n * return el.firstChild; };\n * /**\n * @param {?} el\n * @return {?}\n *\n * BrowserDomAdapter.prototype.nextSibling = /**\n * @param {?} el\n * @return {?}\n *\n * function (el) {\n * return el.nextSibling; };\n * /**\n * @param {?} el\n * @return {?}\n *\n * BrowserDomAdapter.prototype.parentElement = /**\n * @param {?} el\n * @return {?}\n *\n * function (el) {\n * return el.parentNode; };\n * /**\n * @param {?} el\n * @return {?}\n *\n * BrowserDomAdapter.prototype.childNodes = /**\n * @param {?} el\n * @return {?}\n *\n * function (el) {\n * return el.childNodes; };\n * /**\n * @param {?} el\n * @return {?}\n *\n * BrowserDomAdapter.prototype.childNodesAsList = /**\n * @param {?} el\n * @return {?}\n *\n * function (el) {\n * var (** @type {?} */ childNodes = el.childNodes;\n * var (** @type {?} */ res = new\n * Array(childNodes.length);\n * for (var (** @type {?} */ i = 0; i < childNodes.length; i++) {\n * res[i] =\n * childNodes[i];\n * }\n * return res;\n * };\n * /**\n * @param {?} el\n * @return {?}\n *\n * BrowserDomAdapter.prototype.clearNodes = /**\n * @param {?} el\n * @return {?}\n *\n * function (el)\n * {\n * while (el.firstChild) {\n * el.removeChild(el.firstChild);\n * }\n * };\n * /**\n * @param {?} el\n * @param {?} node\n * @return {?}\n *\n * BrowserDomAdapter.prototype.appendChild = /**\n * @param {?} el\n * @param {?} node\n * @return {?}\n *\n * function (el, node) {\n * el.appendChild(node);\n * };\n * /**\n * @param {?} el\n * @param {?} node\n * @return {?}\n *\n * BrowserDomAdapter.prototype.removeChild = /**\n * @param {?} el\n * @param {?} node\n * @return {?}\n *\n * function (el, node) {\n * el.removeChild(node); };\n * /**\n * @param {?} el\n * @param {?} newChild\n * @param {?} oldChild\n * @return {?}\n *\n * BrowserDomAdapter.prototype.replaceChild = /**\n * @param {?} el\n * @param {?} newChild\n * @param {?} oldChild\n * @return {?}\n *\n * function (el, newChild, oldChild) {\n * el.replaceChild(newChild, oldChild); };\n * /**\n * @param {?} node\n * @return {?}\n *\n * BrowserDomAdapter.prototype.remove = /**\n * @param {?} node\n * @return {?}\n *\n * function (node) {\n * if (node.parentNode) {\n * node.parentNode.removeChild(node);\n * }\n * return node;\n * };\n * /**\n * @param {?} parent\n * @param {?} ref\n * @param {?} node\n * @return {?}\n *\n * BrowserDomAdapter.prototype.insertBefore = /**\n * @param {?} parent\n * @param {?} ref\n * @param {?} node\n * @return {?}\n *\n * function (parent, ref, node) {\n * parent.insertBefore(node,

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ref); }; \n /** \n * @param {?} parent \n * @param {?} ref \n * @param {?} nodes \n * @return {?} \n
*\n BrowserDomAdapter.prototype.insertAllBefore = /** \n * @param {?} parent \n * @param {?} ref \n *
@param {?} nodes \n * @return {?} \n */ \n function (parent, ref, nodes) { \n nodes.forEach(function (n) {
return parent.insertBefore(n, ref); }); \n }; \n /** \n * @param {?} parent \n * @param {?} ref \n * @param
{?} node \n * @return {?} \n */ \n BrowserDomAdapter.prototype.insertAfter = /** \n * @param {?}
parent \n * @param {?} ref \n * @param {?} node \n * @return {?} \n */ \n function (parent, ref, node) {
parent.insertBefore(node, ref.nextSibling); }; \n /** \n * @param {?} el \n * @param {?} value \n * @return
{?} \n */ \n BrowserDomAdapter.prototype.setInnerHTML = /** \n * @param {?} el \n * @param {?}
value \n * @return {?} \n */ \n function (el, value) { el.innerHTML = value; }; \n /** \n * @param {?} el \n
* @return {?} \n */ \n BrowserDomAdapter.prototype.getText = /** \n * @param {?} el \n * @return {?} \n
*/ \n function (el) { return el.textContent; }; \n /** \n * @param {?} el \n * @param {?} value \n * @return
{?} \n */ \n BrowserDomAdapter.prototype.setText = /** \n * @param {?} el \n * @param {?} value \n *
@return {?} \n */ \n function (el, value) { el.textContent = value; }; \n /** \n * @param {?} el \n * @return
{?} \n */ \n BrowserDomAdapter.prototype.getValue = /** \n * @param {?} el \n * @return {?} \n */ \n
function (el) { return el.value; }; \n /** \n * @param {?} el \n * @param {?} value \n * @return {?} \n
*/ \n BrowserDomAdapter.prototype.setValue = /** \n * @param {?} el \n * @param {?} value \n * @return {?} \n
*/ \n function (el, value) { el.value = value; }; \n /** \n * @param {?} el \n * @return {?} \n */ \n
BrowserDomAdapter.prototype.getChecked = /** \n * @param {?} el \n * @return {?} \n */ \n function (el)
{ return el.checked; }; \n /** \n * @param {?} el \n * @param {?} value \n * @return {?} \n */ \n
BrowserDomAdapter.prototype.setChecked = /** \n * @param {?} el \n * @param {?} value \n * @return
{?} \n */ \n function (el, value) { el.checked = value; }; \n /** \n * @param {?} text \n * @return {?} \n
*/ \n BrowserDomAdapter.prototype.createComment = /** \n * @param {?} text \n * @return {?} \n */ \n
function (text) { return this.getDefaultDocument().createComment(text); }; \n /** \n * @param {?} html \n *
@return {?} \n */ \n BrowserDomAdapter.prototype.createTemplate = /** \n * @param {?} html \n *
@return {?} \n */ \n function (html) { \n var /** @type {?} */ t =
this.getDefaultDocument().createElement('template'); \n t.innerHTML = html; \n return t; \n }; \n /** \n
* @param {?} tagName \n * @param {?=} doc \n * @return {?} \n */ \n
BrowserDomAdapter.prototype.createElement = /** \n * @param {?} tagName \n * @param {?=} doc \n *
@return {?} \n */ \n function (tagName, doc) { \n doc = doc || this.getDefaultDocument(); \n return
doc.createElement(tagName); \n }; \n /** \n * @param {?} ns \n * @param {?} tagName \n * @param {?=}
doc \n * @return {?} \n */ \n BrowserDomAdapter.prototype.createElementNS = /** \n * @param {?} ns \n
* @param {?} tagName \n * @param {?=} doc \n * @return {?} \n */ \n function (ns, tagName, doc) { \n
doc = doc || this.getDefaultDocument(); \n return doc.createElementNS(ns, tagName); \n }; \n /** \n *
@param {?} text \n * @param {?=} doc \n * @return {?} \n */ \n
BrowserDomAdapter.prototype.createTextNode = /** \n * @param {?} text \n * @param {?=} doc \n *
@return {?} \n */ \n function (text, doc) { \n doc = doc || this.getDefaultDocument(); \n return
doc.createTextNode(text); \n }; \n /** \n * @param {?} attrName \n * @param {?} attrValue \n * @param
{?=} doc \n * @return {?} \n */ \n BrowserDomAdapter.prototype.createScriptTag = /** \n * @param {?}
attrName \n * @param {?} attrValue \n * @param {?=} doc \n * @return {?} \n */ \n function (attrName,
attrValue, doc) { \n doc = doc || this.getDefaultDocument(); \n var /** @type {?} */ el = /** @type {?} */
(doc.createElement('SCRIPT')); \n el.setAttribute(attrName, attrValue); \n return el; \n }; \n /** \n *
@param {?} css \n * @param {?=} doc \n * @return {?} \n */ \n
BrowserDomAdapter.prototype.createStyleElement = /** \n * @param {?} css \n * @param {?=} doc \n *
@return {?} \n */ \n function (css, doc) { \n doc = doc || this.getDefaultDocument(); \n var /** @type {?} */
style = /** @type {?} */ (doc.createElement('style')); \n this.appendChild(style, this.createTextNode(css,
doc)); \n return style; \n }; \n /** \n * @param {?} el \n * @return {?} \n */ \n
BrowserDomAdapter.prototype.createShadowRoot = /** \n * @param {?} el \n * @return {?} \n */ \n
function (el) { return /** @type {?} */ (el).createShadowRoot(); }; \n /** \n * @param {?} el \n * @return

```



```

{?}\n *\n BrowserDomAdapter.prototype.getShadowRoot = /**\n * @param {?} el\n * @return {?}\n *\n function (el) { return (/** @type {?} */(el)).shadowRoot; }; \n /**\n * @param {?} el\n * @return {?}\n *\n BrowserDomAdapter.prototype.getHost = /**\n * @param {?} el\n * @return {?}\n *\n function (el) { return (/** @type {?} */(el)).host; }; \n /**\n * @param {?} node\n * @return {?}\n *\n BrowserDomAdapter.prototype.clone = /**\n * @param {?} node\n * @return {?}\n *\n function (node) {\n return node.cloneNode(true); }; \n /**\n * @param {?} element\n * @param {?} name\n * @return {?}\n *\n BrowserDomAdapter.prototype.getElementsByClassName = /**\n * @param {?} element\n * @param {?} name\n * @return {?}\n *\n function (element, name) {\n return\n element.getElementsByClassName(name);\n }; \n /**\n * @param {?} element\n * @param {?} name\n * @return {?}\n *\n BrowserDomAdapter.prototype.getElementsByTagName = /**\n * @param {?} element\n * @param {?} name\n * @return {?}\n *\n function (element, name) {\n return\n element.getElementsByTagName(name);\n }; \n /**\n * @param {?} element\n * @return {?}\n *\n BrowserDomAdapter.prototype.classList = /**\n * @param {?} element\n * @return {?}\n *\n function\n (element) { return Array.prototype.slice.call(element.classList, 0); }; \n /**\n * @param {?} element\n * @param {?} className\n * @return {?}\n *\n BrowserDomAdapter.prototype.addClass = /**\n * @param {?} element\n * @param {?} className\n * @return {?}\n *\n function (element, className) {\n element.classList.add(className); }; \n /**\n * @param {?} element\n * @param {?} className\n * @return {?}\n *\n BrowserDomAdapter.prototype.removeClass = /**\n * @param {?} element\n * @param {?} className\n * @return {?}\n *\n function (element, className) {\n element.classList.remove(className); }; \n /**\n * @param {?} element\n * @param {?} className\n * @return {?}\n *\n BrowserDomAdapter.prototype.hasClass = /**\n * @param {?} element\n * @param {?} className\n * @return {?}\n *\n function (element, className) {\n return\n element.classList.contains(className);\n }; \n /**\n * @param {?} element\n * @param {?} styleName\n * @param {?} styleValue\n * @return {?}\n *\n BrowserDomAdapter.prototype.setStyle = /**\n * @param {?} element\n * @param {?} styleName\n * @param {?} styleValue\n * @return {?}\n *\n function (element, styleName, styleValue) {\n element.style[styleName] = styleValue;\n }; \n /**\n * @param {?} element\n * @param {?} styleName\n * @return {?}\n *\n BrowserDomAdapter.prototype.removeStyle = /**\n * @param {?} element\n * @param {?} styleName\n * @return {?}\n *\n function (element, styleName) {\n // IE requires " instead of null\n // see\n https://github.com/angular/angular/issues/7916\n element.style[styleName] = "";\n }; \n /**\n * @param {?} element\n * @param {?} styleName\n * @return {?}\n *\n BrowserDomAdapter.prototype.getStyle =\n /**\n * @param {?} element\n * @param {?} styleName\n * @return {?}\n *\n function (element,\n styleName) { return element.style[styleName]; }; \n /**\n * @param {?} element\n * @param {?} styleName\n * @param {?} styleValue\n * @return {?}\n *\n BrowserDomAdapter.prototype.hasStyle = /**\n * @param {?} element\n * @param {?} styleName\n * @param {?} styleValue\n * @return {?}\n *\n function (element, styleName, styleValue) {\n var /** @type {?} */ value = this.getStyle(element, styleName) ||\n "";\n return styleValue ? value == styleValue : value.length > 0;\n }; \n /**\n * @param {?} element\n * @return {?}\n *\n BrowserDomAdapter.prototype.tagName = /**\n * @param {?} element\n * @return {?}\n *\n function (element) { return element.tagName; }; \n /**\n * @param {?} element\n * @return {?}\n *\n BrowserDomAdapter.prototype.attributeMap = /**\n * @param {?} element\n * @return {?}\n *\n function (element) {\n var /** @type {?} */ res = new Map();\n var /** @type {?} */ elAttrs =\n element.attributes;\n for (var /** @type {?} */ i = 0; i < elAttrs.length; i++) {\n var /** @type {?} */\n attrib = elAttrs.item(i);\n res.set(attrib.name, attrib.value);\n }\n return res;\n }; \n /**\n * @param {?} element\n * @param {?} attribute\n * @return {?}\n *\n BrowserDomAdapter.prototype.hasAttribute = /**\n * @param {?} element\n * @param {?} attribute\n * @return {?}\n *\n function (element, attribute) {\n return element.hasAttribute(attribute);\n }; \n /**\n * @param {?} element\n * @param {?} ns\n * @param {?} attribute\n * @return {?}\n *\n BrowserDomAdapter.prototype.hasAttributeNS = /**\n * @param {?} element\n * @param {?} ns\n *

```

```

@param {?} attribute\n * @return {?}\n */\n function (element, ns, attribute) {\n return
element.hasAttributeNS(ns, attribute);\n }; \n /**\n * @param {?} element\n * @param {?} attribute\n *
@return {?}\n */\n BrowserDomAdapter.prototype.getAttribute = /**\n * @param {?} element\n *
@param {?} attribute\n * @return {?}\n */\n function (element, attribute) {\n return
element.getAttribute(attribute);\n }; \n /**\n * @param {?} element\n * @param {?} ns\n * @param {?}
name\n * @return {?}\n */\n BrowserDomAdapter.prototype.getAttributeNS = /**\n * @param {?}
element\n * @param {?} ns\n * @param {?} name\n * @return {?}\n */\n function (element, ns, name)
{\n return element.getAttributeNS(ns, name);\n }; \n /**\n * @param {?} element\n * @param {?}
name\n * @param {?} value\n * @return {?}\n */\n BrowserDomAdapter.prototype.setAttribute = /**\n
* @param {?} element\n * @param {?} name\n * @param {?} value\n * @return {?}\n */\n function
(element, name, value) {\n element.setAttribute(name, value);\n }; \n /**\n * @param {?} element\n * @param
{?} ns\n * @param {?} name\n * @param {?} value\n * @return {?}\n */\n
BrowserDomAdapter.prototype.setAttributeNS = /**\n * @param {?} element\n * @param {?} ns\n *
@param {?} name\n * @param {?} value\n * @return {?}\n */\n function (element, ns, name, value) {\n
 element.setAttributeNS(ns, name, value);\n }; \n /**\n * @param {?} element\n * @param {?} attribute\n
* @return {?}\n */\n BrowserDomAdapter.prototype.removeAttribute = /**\n * @param {?} element\n *
@param {?} attribute\n * @return {?}\n */\n function (element, attribute) {\n
 element.removeAttribute(attribute);\n }; \n /**\n * @param {?} element\n * @param {?} ns\n * @param {?}
name\n * @return {?}\n */\n BrowserDomAdapter.prototype.removeAttributeNS = /**\n * @param {?}
element\n * @param {?} ns\n * @param {?} name\n * @return {?}\n */\n function (element, ns, name)
{\n element.removeAttributeNS(ns, name);\n }; \n /**\n * @param {?} el\n * @return {?}\n */\n
BrowserDomAdapter.prototype.templateAwareRoot = /**\n * @param {?} el\n * @return {?}\n */\n
function (el) {\n return this.isTemplateElement(el) ? this.content(el) : el;\n }; \n /**\n * @return {?}\n */\n
BrowserDomAdapter.prototype.createHtmlDocument = /**\n * @return {?}\n */\n function () {\n return
document.implementation.createHTMLDocument('fakeTitle');\n }; \n /**\n * @return {?}\n */\n
BrowserDomAdapter.prototype.getDefaultDocument = /**\n * @return {?}\n */\n function () {\n return
document;\n }; \n /**\n * @param {?} el\n * @return {?}\n */\n
BrowserDomAdapter.prototype.getBoundingClientRect = /**\n * @param {?} el\n * @return {?}\n */\n
function (el) {\n try {\n return el.getBoundingClientRect();\n } catch (/** @type {?} */ e) {\n
 return { top: 0, bottom: 0, left: 0, right: 0, width: 0, height: 0;\n }\n }; \n /**\n * @param {?} doc\n
* @return {?}\n */\n BrowserDomAdapter.prototype.getTitle = /**\n * @param {?} doc\n * @return
{?}\n */\n function (doc) {\n return doc.title;\n }; \n /**\n * @param {?} doc\n * @param {?} newTitle\n
* @return {?}\n */\n BrowserDomAdapter.prototype.setTitle = /**\n * @param {?} doc\n * @param {?}
newTitle\n * @return {?}\n */\n function (doc, newTitle) {\n doc.title = newTitle || '';\n }; \n /**\n * @param
{?} n\n * @param {?} selector\n * @return {?}\n */\n BrowserDomAdapter.prototype.elementMatches =
/**\n * @param {?} n\n * @param {?} selector\n * @return {?}\n */\n function (n, selector) {\n if
(this.isElementNode(n)) {\n return n.matches && n.matches(selector) ||\n n.msMatchesSelector &&
n.msMatchesSelector(selector) ||\n n.webkitMatchesSelector && n.webkitMatchesSelector(selector);\n }\n
 return false;\n }; \n /**\n * @param {?} el\n * @return {?}\n */\n
BrowserDomAdapter.prototype.isTemplateElement = /**\n * @param {?} el\n * @return {?}\n */\n
function (el) {\n return this.isElementNode(el) && el.nodeName === 'TEMPLATE';\n }; \n /**\n *
@param {?} node\n * @return {?}\n */\n BrowserDomAdapter.prototype.isTextNode = /**\n * @param
{?} node\n * @return {?}\n */\n function (node) {\n return node.nodeType === Node.TEXT_NODE;\n }; \n
/**\n * @param {?} node\n * @return {?}\n */\n BrowserDomAdapter.prototype.isCommentNode = /**\n
* @param {?} node\n * @return {?}\n */\n function (node) {\n return node.nodeType ===
Node.COMMENT_NODE;\n }; \n /**\n * @param {?} node\n * @return {?}\n */\n
BrowserDomAdapter.prototype.isElementNode = /**\n * @param {?} node\n * @return {?}\n */\n
function (node) {\n return node.nodeType === Node.ELEMENT_NODE;\n }; \n /**\n * @param {?} node\n

```

```

@return {?} \n * \n BrowserDomAdapter.prototype.hasShadowRoot = /** \n * @param {?} node \n *
@return {?} \n * \n function (node) { \n return node.shadowRoot != null && node instanceof
HTMLElement; \n }; \n /** \n * @param {?} node \n * @return {?} \n * \n
BrowserDomAdapter.prototype.isShadowRoot = /** \n * @param {?} node \n * @return {?} \n * \n
function (node) { return node instanceof DocumentFragment; }; \n /** \n * @param {?} node \n * @return
{?} \n * \n BrowserDomAdapter.prototype.importIntoDoc = /** \n * @param {?} node \n * @return {?} \n
* \n function (node) { return document.importNode(this.templateAwareRoot(node), true); }; \n /** \n *
@param {?} node \n * @return {?} \n * \n BrowserDomAdapter.prototype.adoptNode = /** \n * @param
{?} node \n * @return {?} \n * \n function (node) { return document.adoptNode(node); }; \n /** \n *
@param {?} el \n * @return {?} \n * \n BrowserDomAdapter.prototype.getHref = /** \n * @param {?} el \n
* @return {?} \n * \n function (el) { return /** @type {?} */ ((el.getAttribute('href'))); }; \n /** \n *
@param {?} event \n * @return {?} \n * \n BrowserDomAdapter.prototype.getEventKey = /** \n * @param
{?} event \n * @return {?} \n * \n function (event) { \n var /** @type {?} */ key = event.key; \n if (key
== null) { \n key = event.keyIdentifier; \n // keyIdentifier is defined in the old draft of DOM Level 3
Events implemented by Chrome and \n // Safari cf \n // http://www.w3.org/TR/2007/WD-DOM-Level-
3-Events-20071221/events.html#Events-KeyboardEvents-Interfaces \n if (key == null) { \n return
'Unidentified'; \n } \n if (key.startsWith('U+')) { \n key =
String.fromCharCode(parseInt(key.substring(2), 16)); \n if (event.location ===
DOM_KEY_LOCATION_NUMPAD && _chromeNumKeyPadMap.hasOwnProperty(key)) { \n //
There is a bug in Chrome for numeric keypad keys: \n //
https://code.google.com/p/chromium/issues/detail?id=155654 \n // 1, 2, 3 ... are reported as A, B, C ... \n
key = (/** @type {?} */ (_chromeNumKeyPadMap))[key]; \n } \n } \n } \n return
_keyMap[key] || key; \n }; \n /** \n * @param {?} doc \n * @param {?} target \n * @return {?} \n * \n
BrowserDomAdapter.prototype.getGlobalEventTarget = /** \n * @param {?} doc \n * @param {?} target \n *
@return {?} \n * \n function (doc, target) { \n if (target === 'window') { \n return window; \n } \n
if (target === 'document') { \n return doc; \n } \n if (target === 'body') { \n return doc.body; \n
} \n return null; \n }; \n /** \n * @return {?} \n * \n BrowserDomAdapter.prototype.getHistory = /** \n
* @return {?} \n * \n function () { return window.history; }; \n /** \n * @return {?} \n * \n
BrowserDomAdapter.prototype.getLocation = /** \n * @return {?} \n * \n function () { return
window.location; }; \n /** \n * @param {?} doc \n * @return {?} \n * \n
BrowserDomAdapter.prototype.getBaseHref = /** \n * @param {?} doc \n * @return {?} \n * \n function
(doc) { \n var /** @type {?} */ href = getBaseElementHref(); \n return href == null ? null :
relativePath(href); \n }; \n /** \n * @return {?} \n * \n BrowserDomAdapter.prototype.resetBaseElement =
/** \n * @return {?} \n * \n function () { baseElement = null; }; \n /** \n * @return {?} \n * \n
BrowserDomAdapter.prototype.getUserAgent = /** \n * @return {?} \n * \n function () { return
window.navigator.userAgent; }; \n /** \n * @param {?} element \n * @param {?} name \n * @param {?}
value \n * @return {?} \n * \n BrowserDomAdapter.prototype.setData = /** \n * @param {?} element \n *
@param {?} name \n * @param {?} value \n * @return {?} \n * \n function (element, name, value) { \n
this.setAttribute(element, 'data-' + name, value); \n }; \n /** \n * @param {?} element \n * @param {?}
name \n * @return {?} \n * \n BrowserDomAdapter.prototype.getData = /** \n * @param {?} element \n *
@param {?} name \n * @return {?} \n * \n function (element, name) { \n return this.getAttribute(element,
'data-' + name); \n }; \n /** \n * @param {?} element \n * @return {?} \n * \n
BrowserDomAdapter.prototype.getComputedStyle = /** \n * @param {?} element \n * @return {?} \n * \n
function (element) { return getComputedStyle(element); }; \n // TODO(tbosch): move this into a separate
environment class once we have it \n /** \n * @return {?} \n * \n
BrowserDomAdapter.prototype.supportsWebAnimation = /** \n * @return {?} \n * \n function () { \n
return typeof (/** @type {?} */ (Element)).prototype['animate'] === 'function'; \n }; \n /** \n * @return {?} \n
* \n BrowserDomAdapter.prototype.performanceNow = /** \n * @return {?} \n * \n function () { \n //

```

```

performance.now() is not available in all browsers, see // http://caniuse.com/#search=performance.now
return window.performance && window.performance.now ? window.performance.now() : new
Date().getTime();
};
/**
 * @return {?}
 * ^\n BrowserDomAdapter.prototype.supportsCookies =
/**
 * @return {?}
 * ^\n function () { return true; };
/**
 * @param {?} name
 * @return {?}
 * ^\n BrowserDomAdapter.prototype.getCookie = /**
 * @param {?} name
 * @return {?}
 * ^\n
function (name) { return parseCookieValue(document.cookie, name); };
/**
 * @param {?} name
 * @param {?} value
 * @return {?}
 * ^\n BrowserDomAdapter.prototype.setCookie = /**
 * @param
 {?} name
 * @param {?} value
 * @return {?}
 * ^\n function (name, value) {
// document.cookie
is magical, assigning into it assigns/overrides one cookie value, but does
// not clear other cookies.
document.cookie = encodeURIComponent(name) + '=' + encodeURIComponent(value);
};
return
BrowserDomAdapter;
}(GenericBrowserDomAdapter);
nvar baseElement = null;
/**
 * @return {?}
 * ^\nfunction getBaseElementHref() {
if (!baseElement) {
baseElement = /** @type {?} */
((document.querySelector('base')));
if (!baseElement) {
return null;
}
}
return
baseElement.getAttribute('href');
}\n// based on urlUtils.js in AngularJS 1
nvar urlParsingNode;
/**
 * @param
 {?} url
 * @return {?}
 * ^\nfunction relativePath(url) {
if (!urlParsingNode) {
urlParsingNode =
document.createElement('a');
}
urlParsingNode.setAttribute('href', url);
return
(urlParsingNode.pathname.charAt(0) === '/') ? urlParsingNode.pathname :
'/' +
urlParsingNode.pathname;
}\n\n/**
 * @fileoverview added by tsickle
 * @suppress {checkTypes} checked by
tsc
 * ^\n/**
 * @license
 * Copyright Google Inc. All Rights Reserved.
 * ^\n * Use of this source code is
governed by an MIT-style license that can be
 * found in the LICENSE file at https://angular.io/license
 * ^\n/**
 * A DI Token representing the main rendering context. In a browser this is the DOM Document.
 * ^\n * Note:
Document might not be available in the Application Context when Application and Rendering
 * Contexts are not
the same (e.g. when running the application into a Web Worker).
 * ^\n * @deprecated import from
`@angular/common` instead.
 * ^\nvar DOCUMENT$1 = DOCUMENT;
\n\n/**
 * @fileoverview added by
tsickle
 * @suppress {checkTypes} checked by tsc
 * ^\n/**
 * @license
 * Copyright Google Inc. All Rights
Reserved.
 * ^\n * Use of this source code is governed by an MIT-style license that can be
 * found in the
LICENSE file at https://angular.io/license
 * ^\n/**
 * @return {?}
 * ^\nfunction supportsState() {
return
!!window.history.pushState;
}\n\n/**
 * @fileoverview added by tsickle
 * @suppress {checkTypes} checked
by tsc
 * ^\n/**
 * @license
 * Copyright Google Inc. All Rights Reserved.
 * ^\n * Use of this source code is
governed by an MIT-style license that can be
 * found in the LICENSE file at https://angular.io/license
 * ^\n/**
 * `PlatformLocation` encapsulates all of the direct calls to platform APIs.
 * This class should not be used directly
by an application developer. Instead, use
 * {{@link Location}}.
 * ^\nvar BrowserPlatformLocation = /** @class
 */ (function (_super) {
__extends(BrowserPlatformLocation, _super);
function
BrowserPlatformLocation(_doc) {
var _this = _super.call(this) || this;
_this._doc = _doc;
_this._init();
return _this;
}
// This is moved to its own method so that
`MockPlatformLocationStrategy` can overwrite it
/** @internal
 * ^\n /**
 * @internal
 * @return
{?}
 * ^\n BrowserPlatformLocation.prototype._init = /**
 * @internal
 * @return {?}
 * ^\n
function () {
/** @type {?} */ (this)).location = getDOM().getLocation();
this._history =
getDOM().getHistory();
};
/**
 * @return {?}
 * ^\n
BrowserPlatformLocation.prototype.getBaseHrefFromDOM = /**
 * @return {?}
 * ^\n function () {
return
/** @type {?} */ ((getDOM().getBaseHref(this._doc)));
};
/**
 * @param {?} fn
 * @return {?}
 * ^\n
BrowserPlatformLocation.prototype.onPopState = /**
 * @param {?} fn
 * @return {?}
 * ^\n
function (fn) {
getDOM().getGlobalEventTarget(this._doc, 'window').addEventListener('popstate', fn, false);
};
/**
 * @param {?} fn
 * @return {?}
 * ^\n
BrowserPlatformLocation.prototype.onHashChange
= /**
 * @param {?} fn
 * @return {?}
 * ^\n
function (fn) {
getDOM().getGlobalEventTarget(this._doc, 'window').addEventListener('hashchange', fn, false);
};
Object.defineProperty(BrowserPlatformLocation.prototype, 'pathname', {
get: /**
 * @return {?}
 * ^\n
 * ^\n
function () {
return this.location.pathname;
},
set: /**
 * @param {?} newPath
 *

```



```

{?} forceCreation\n * @return {?}\n *^\n Meta.prototype._getOrCreateElement = /**\n * @param {?}
meta\n * @param {?=} forceCreation\n * @return {?}\n *^\n function (meta, forceCreation) {\n if
(forceCreation === void 0) { forceCreation = false; }\n if (!forceCreation) {\n var /** @type {?} */
selector = this._parseSelector(meta);\n var /** @type {?} */ elem = /** @type {?} */
((this.getTag(selector));\n // It's allowed to have multiple elements with the same name so it's not enough
to\n // just check that element with the same name already present on the page. We also need to\n //
check if element has tag attributes\n if (elem && this._containsAttributes(meta, elem))\n return
elem;\n }\n var /** @type {?} */ element = /** @type {?} */ (this._dom.createElement('meta'));\n
this._setMetaElementAttributes(meta, element);\n var /** @type {?} */ head =
this._dom.getElementsByTagName(this._doc, 'head')[0];\n this._dom.appendChild(head, element);\n return
element;\n };\n /**\n * @param {?} tag\n * @param {?} el\n * @return {?}\n *^\n
Meta.prototype._setMetaElementAttributes = /**\n * @param {?} tag\n * @param {?} el\n * @return {?}\n
*^\n function (tag, el) {\n var _this = this;\n Object.keys(tag).forEach(function (prop) { return
_this._dom.setAttribute(el, prop, tag[prop]); });\n return el;\n };\n /**\n * @param {?} tag\n * @return
{?}\n *^\n Meta.prototype._parseSelector = /**\n * @param {?} tag\n * @return {?}\n *^\n function
(tag) {\n var /** @type {?} */ attr = tag.name ? 'name' : 'property';\n return attr + "=" + tag[attr] +
"\"";\n };\n /**\n * @param {?} tag\n * @param {?} elem\n * @return {?}\n *^\n
Meta.prototype._containsAttributes = /**\n * @param {?} tag\n * @param {?} elem\n * @return {?}\n
*^\n function (tag, elem) {\n var _this = this;\n return Object.keys(tag).every(function (key) { return
_this._dom.getAttribute(elem, key) === tag[key]; });\n };\n Meta.decorators = [\n { type: Injectable },\n
];\n /** @nocollapse *^\n Meta.ctorParameters = function () { return [\n { type: undefined, decorators: [{
type: Inject, args: [DOCUMENT$1,], },\n];\n };\n return Meta;\n };\n /**\n * @fileoverview added by
tsickle\n * @suppress {checkTypes} checked by tsc\n *^\n /**\n * @license\n * Copyright Google Inc. All Rights
Reserved.\n * Use of this source code is governed by an MIT-style license that can be\n * found in the
LICENSE file at https://angular.io/license\n *^\n /**\n * An id that identifies a particular application being
bootstrapped, that should\n * match across the client/server boundary.\n *^\n var TRANSITION_ID = new
InjectionToken("TRANSITION_ID");\n /**\n * @param {?} transitionId\n * @param {?} document\n * @param {?}
injector\n * @return {?}\n *^\n function appInitializerFactory(transitionId, document, injector) {\n return function
() {\n // Wait for all application initializers to be completed before removing the styles set by\n // the
server.\n injector.get(ApplicationInitStatus).donePromise.then(function () {\n var /** @type {?} */ dom
= getDOM();\n var /** @type {?} */ styles = Array.prototype.slice.apply(dom.querySelectorAll(document,
"style[ng-transition]")); \n styles.filter(function (el) { return dom.getAttribute(el, 'ng-transition') ===
transitionId; })\n .forEach(function (el) { return dom.remove(el); });\n });\n });\n };\n };\n };\n };\n
SERVER_TRANSITION_PROVIDERS = [\n {\n provide: APP_INITIALIZER,\n useFactory:
appInitializerFactory,\n deps: [TRANSITION_ID, DOCUMENT$1, Injector],\n multi: true\n
},\n];\n /**\n * @fileoverview added by tsickle\n * @suppress {checkTypes} checked by tsc\n *^\n /**\n *
@license\n * Copyright Google Inc. All Rights Reserved.\n * Use of this source code is governed by an MIT-
style license that can be\n * found in the LICENSE file at https://angular.io/license\n *^\n var BrowserGetTestability
= /** @class */ (function () {\n function BrowserGetTestability() {\n }\n /**\n * @return {?}\n *^\n
BrowserGetTestability.init = /**\n * @return {?}\n *^\n function () { setTestabilityGetter(new
BrowserGetTestability()); }; \n /**\n * @param {?} registry\n * @return {?}\n *^\n
BrowserGetTestability.prototype.addToWindow = /**\n * @param {?} registry\n * @return {?}\n *^\n
function (registry) {\n global['getAngularTestability'] = function (elem, findInAncestors) {\n if
(findInAncestors === void 0) { findInAncestors = true; }\n var /** @type {?} */ testability =
registry.findTestabilityInTree(elem, findInAncestors);\n if (testability === null) {\n throw new
Error('Could not find testability for element.');

```

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{?} */ whenAllStable = function (callback /** TODO #9100 */) {\n var /** @type {?} */ testabilities =
global['getAllAngularTestabilities']();\n var /** @type {?} */ count = testabilities.length;\n var /**
@param {?} */ didWork = false;\n var /** @type {?} */ decrement = function (didWork_ /** TODO #9100 */)
{\n didWork = didWork || didWork_;\n count--;\n if (count == 0) {\n
callback(didWork);\n }\n });\n testabilities.forEach(function (testability /** TODO #9100 */)
{\n testability.whenStable(decrement);\n });\n });\n if (!global['frameworkStabilizers']) {\n
global['frameworkStabilizers'] = [];\n }\n global['frameworkStabilizers'].push(whenAllStable);\n });\n
/**\n * @param {?} registry\n * @param {?} elem\n * @param {?} findInAncestors\n * @return {?}
*\n * ^\n BrowserGetTestability.prototype.findTestabilityInTree = /**\n * @param {?} registry\n * @param {?}
elem\n * @param {?} findInAncestors\n * @return {?}
*\n * ^\n function (registry, elem, findInAncestors)
{\n if (elem == null) {\n return null;\n }\n var /** @type {?} */ t =
registry.getTestability(elem);\n if (t != null) {\n return t;\n }\n else if (!findInAncestors) {\n
return null;\n }\n if (getDOM().isShadowRoot(elem)) {\n return this.findTestabilityInTree(registry,
getDOM().getHost(elem), true);\n }\n return this.findTestabilityInTree(registry,
getDOM().parentElement(elem), true);\n });\n return BrowserGetTestability;\n})();\n\n/**\n * @fileoverview
added by tsickle\n * @suppress {checkTypes} checked by tsc\n */\n\n/**\n * @license\n * Copyright Google Inc. All
Rights Reserved.\n *\n * Use of this source code is governed by an MIT-style license that can be\n * found in the
LICENSE file at https://angular.io/license\n */\n\n/**\n * A service that can be used to get and set the title of a current
HTML document.\n *\n * Since an Angular application can't be bootstrapped on the entire HTML document
(<html> tag)\n * it is not possible to bind to the `text` property of the `HTMLTitleElement` elements\n *
(representing the <title> tag). Instead, this service can be used to set and get the current\n * title value.\n *\n *
@@experimental\n */\n\nvar Title = /** @class */ (function () {\n function Title(_doc) {\n this._doc = _doc;\n
 }\n /**\n * Get the title of the current HTML document.\n *\n * @return {?}\n *\n * ^\n Title.prototype.getTitle = /**\n * Get the title of the current HTML
document.\n * @return {?}\n *\n * ^\n function () { return getDOM().getTitle(this._doc); };\n /**\n * Set the
title of the current HTML document.\n * @param newTitle\n *\n * ^\n /**\n * Set the title of the current HTML
document.\n * @param {?} newTitle\n * @return {?}\n *\n * ^\n Title.prototype.setTitle = /**\n * Set the
title of the current HTML document.\n * @param {?} newTitle\n * @return {?}\n *\n * ^\n function (newTitle)
{ getDOM().setTitle(this._doc, newTitle); };\n Title.decorators = [\n { type: Injectable },\n];\n /**
@nocollapse\n Title.ctorParameters = function () { return [\n { type: undefined, decorators: [{ type: Inject,
args: [DOCUMENT$1,], }],\n]; };\n return Title;\n})();\n\n/**\n * @fileoverview added by tsickle\n *
@suppress {checkTypes} checked by tsc\n */\n\n/**\n * @license\n * Copyright Google Inc. All Rights Reserved.\n *\n
* Use of this source code is governed by an MIT-style license that can be\n * found in the LICENSE file at
https://angular.io/license\n */\n\n/**\n * @param {?} input\n * @return {?}\n *\n * ^\n\n/**\n * @param {?} input\n
* @return {?}\n *\n * ^\n\n/**\n * Exports the value under a given `name` in the global property `ng`. For example
`ng.probe` if\n * `name` is `probe`.\n * @param {?} name Name under which it will be exported. Keep in mind this
will be a property of the\n * global `ng` object.\n * @param {?} value The value to export.\n * @return {?}\n
*\n * ^\n\nfunction exportNgVar(name, value) {\n if (typeof COMPILLED === 'undefined' || !COMPILLED) {\n //
Note: we can't export `ng` when using closure enhanced optimization as:\n // - closure declares globals itself for
minified names, which sometimes clobber our `ng` global\n // - we can't declare a closure extern as the
namespace `ng` is already used within Google\n // for typings for angularJS (via `goog.provide('ng...')`).\n
var /** @type {?} */ ng = global['ng'] = (/** @type {?} */ (global['ng'])) || {};\n ng[name] = value;\n
 }\n}\n\n/**\n * @fileoverview added by tsickle\n * @suppress {checkTypes} checked by tsc\n */\n\n/**\n * @license\n
* Copyright Google Inc. All Rights Reserved.\n *\n * Use of this source code is governed by an MIT-
style license that can be\n * found in the LICENSE file at https://angular.io/license\n */\n\nvar CORE_TOKENS = {\n
 'ApplicationRef': ApplicationRef,\n 'NgZone': NgZone,\n};\nvar INSPECT_GLOBAL_NAME = 'probe';\nvar
CORE_TOKENS_GLOBAL_NAME = 'coreTokens';\n\n/**\n * Returns a {@link DebugElement} for the given
native DOM element, or\n * null if the given native element does not have an Angular view associated\n * with it.\n

```





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/**\n * @param {?} styles\n * @return {?}\n *\n SharedStylesHost.prototype.addStyles = /**\n *
@param {?} styles\n * @return {?}\n *\n function (styles) {\n var _this = this;\n var /** @type {?}
*/ additions = new Set();\n styles.forEach(function (style) {\n if (!this._stylesSet.has(style)) {\n
_this._stylesSet.add(style);\n additions.add(style);\n }\n });\n
this.onStylesAdded(additions);\n };\n /**\n * @param {?} additions\n * @return {?}\n *\n
SharedStylesHost.prototype.onStylesAdded = /**\n * @param {?} additions\n * @return {?}\n *\n
function (additions) { };\n /**\n * @return {?}\n *\n SharedStylesHost.prototype.getAllStyles = /**\n *
@return {?}\n *\n function () { return Array.from(this._stylesSet); }\n SharedStylesHost.decorators = [\n
{ type: Injectable },\n];\n /** @nocollapse *\n SharedStylesHost.ctorParameters = function () { return []; };\n
return SharedStylesHost;\n }());\n var DomSharedStylesHost = /** @class */ (function (_super) {\n
__extends(DomSharedStylesHost, _super);\n function DomSharedStylesHost(_doc) {\n var _this =
_super.call(this) || this;\n _this._doc = _doc;\n _this._hostNodes = new Set();\n _this._styleNodes =
new Set();\n _this._hostNodes.add(_doc.head);\n return _this;\n }\n /**\n * @param {?} styles\n *
@param {?} host\n * @return {?}\n *\n DomSharedStylesHost.prototype._addStylesToHost = /**\n *
@param {?} styles\n * @param {?} host\n * @return {?}\n *\n function (styles, host) {\n var _this =
this;\n styles.forEach(function (style) {\n var /** @type {?} */ styleEl =
_this._doc.createElement('style');\n styleEl.textContent = style;\n
_this._styleNodes.add(host.appendChild(styleEl));\n });\n });\n /**\n * @param {?} hostNode\n *
@return {?}\n *\n DomSharedStylesHost.prototype.addHost = /**\n * @param {?} hostNode\n * @return
{?}\n *\n function (hostNode) {\n this._addStylesToHost(this._stylesSet, hostNode);\n
this._hostNodes.add(hostNode);\n };\n /**\n * @param {?} hostNode\n * @return {?}\n *\n
DomSharedStylesHost.prototype.removeHost = /**\n * @param {?} hostNode\n * @return {?}\n *\n
function (hostNode) { this._hostNodes.delete(hostNode); }\n /**\n * @param {?} additions\n * @return
{?}\n *\n DomSharedStylesHost.prototype.onStylesAdded = /**\n * @param {?} additions\n * @return
{?}\n *\n function (additions) {\n var _this = this;\n this._hostNodes.forEach(function (hostNode) {\n
return _this._addStylesToHost(additions, hostNode); }\n });\n });\n /**\n * @return {?}\n *\n
DomSharedStylesHost.prototype.ngOnDestroy = /**\n * @return {?}\n *\n function () {\n
this._styleNodes.forEach(function (styleNode) { return getDOM().remove(styleNode); }); }\n
DomSharedStylesHost.decorators = [\n { type: Injectable },\n];\n /** @nocollapse *\n
DomSharedStylesHost.ctorParameters = function () { return [\n { type: undefined, decorators: [{ type: Inject,
args: [DOCUMENT$1,], }],\n },\n];\n return DomSharedStylesHost;\n })(SharedStylesHost);\n\n/**\n *
@fileoverview added by tsickle\n * @suppress {checkTypes} checked by tsc\n *\n/**\n * @license\n * Copyright
Google Inc. All Rights Reserved.\n *\n * Use of this source code is governed by an MIT-style license that can be\n *
found in the LICENSE file at https://angular.io/license\n *\n var NAMESPACE_URI = {\n 'svg':
'http://www.w3.org/2000/svg',\n 'xhtml': 'http://www.w3.org/1999/xhtml',\n 'xlink':
'http://www.w3.org/1999/xlink',\n 'xml': 'http://www.w3.org/XML/1998/namespace',\n 'xmlns':
'http://www.w3.org/2000/xmlns/',\n };\n var COMPONENT_REGEX = /%COMP%/g;\n var
COMPONENT_VARIABLE = '%COMP%';\n var HOST_ATTR = \"_nghost-\" +
COMPONENT_VARIABLE;\n var CONTENT_ATTR = \"_ngcontent-\" + COMPONENT_VARIABLE;\n\n/**\n *
@param {?} componentShortId\n * @return {?}\n *\n function shimContentAttribute(componentShortId) {\n
return CONTENT_ATTR.replace(COMPONENT_REGEX, componentShortId);\n }\n\n/**\n * @param {?}
componentShortId\n * @return {?}\n *\n function shimHostAttribute(componentShortId) {\n return
HOST_ATTR.replace(COMPONENT_REGEX, componentShortId);\n }\n\n/**\n * @param {?} compId\n * @param
{?} styles\n * @param {?} target\n * @return {?}\n *\n function flattenStyles(compId, styles, target) {\n
for (var /** @type {?} */ i = 0; i < styles.length; i++) {\n var /** @type {?} */ style = styles[i];\n
if (Array.isArray(style)) {\n flattenStyles(compId, style, target);\n }\n else {\n style =
style.replace(COMPONENT_REGEX, compId);\n target.push(style);\n }\n }\n return
target;\n }\n\n/**\n * @param {?} eventHandler\n * @return {?}\n *\n function decoratePreventDefault(eventHandler)

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{\n return function (event) {\n var /** @type {?} */ allowDefaultBehavior = eventHandler(event);\n if
(allowDefaultBehavior === false) {\n // TODO(tbosch): move preventDefault into event plugins...\n
event.preventDefault();\n event.returnValue = false;\n }\n };}\n\nvar DomRendererFactory2 = /**
@class */ (function () {\n function DomRendererFactory2(eventManager, sharedStylesHost) {\n
this.eventManager = eventManager;\n this.sharedStylesHost = sharedStylesHost;\n this.rendererByCompId
= new Map();\n this.defaultRenderer = new DefaultDomRenderer2(eventManager);\n }\n /**\n * @param
{?} element\n * @param {?} type\n * @return {?} */\n *\n DomRendererFactory2.prototype.createRenderer
= /**\n * @param {?} element\n * @param {?} type\n * @return {?} */\n *\n function (element, type) {\n
 if (!element || !type) {\n return this.defaultRenderer;\n }\n switch (type.encapsulation) {\n
case ViewEncapsulation.Emulated: {\n var /** @type {?} */ renderer =
this.rendererByCompId.get(type.id);\n if (!renderer) {\n renderer =\n new
EmulatedEncapsulationDomRenderer2(this.eventManager, this.sharedStylesHost, type);\n
this.rendererByCompId.set(type.id, renderer);\n }\n /** @type {?} */
(renderer).applyToHost(element);\n return renderer;\n }\n case ViewEncapsulation.Native:\n
return new ShadowDomRenderer(this.eventManager, this.sharedStylesHost, element, type);\n
default: {\n if (!this.rendererByCompId.has(type.id)) {\n var /** @type {?} */ styles =
flattenStyles(type.id, type.styles, []);\n this.sharedStylesHost.addStyles(styles);\n
this.rendererByCompId.set(type.id, this.defaultRenderer);\n }\n return this.defaultRenderer;\n
 }\n }\n /**\n * @return {?} */\n *\n DomRendererFactory2.prototype.begin = /**\n * @return
{?} */\n *\n function () { };}\n /**\n * @return {?} */\n *\n DomRendererFactory2.prototype.end = /**\n
* @return {?} */\n *\n function () { };}\n DomRendererFactory2.decorators = [\n { type: Injectable },\n
];\n /** @nocollapse */\n DomRendererFactory2.ctorParameters = function () { return [\n { type:
EventManager, },\n { type: DomSharedStylesHost, },\n]; }\n return DomRendererFactory2;}\n\nvar
DefaultDomRenderer2 = /** @class */ (function () {\n function DefaultDomRenderer2(eventManager) {\n
this.eventManager = eventManager;\n this.data = Object.create(null);\n }\n /**\n * @return {?} */\n *\n
DefaultDomRenderer2.prototype.destroy = /**\n * @return {?} */\n *\n function () { };}\n /**\n * @param
{?} name\n * @param {?=} namespace\n * @return {?} */\n *\n
DefaultDomRenderer2.prototype.createElement = /**\n * @param {?} name\n * @param {?=} namespace\n
* @return {?} */\n *\n function (name, namespace) {\n if (namespace) {\n return
document.createElementNS(NAMESPACE_URI[namespace], name);\n }\n return
document.createElement(name);\n };}\n /**\n * @param {?} value\n * @return {?} */\n *\n
DefaultDomRenderer2.prototype.createComment = /**\n * @param {?} value\n * @return {?} */\n *\n
function (value) { return document.createComment(value); }\n /**\n * @param {?} value\n * @return {?} */\n
*\n DefaultDomRenderer2.prototype.createText = /**\n * @param {?} value\n * @return {?} */\n *\n
function (value) { return document.createTextNode(value); }\n /**\n * @param {?} parent\n * @param {?}
newChild\n * @return {?} */\n *\n DefaultDomRenderer2.prototype.appendChild = /**\n * @param {?}
parent\n * @param {?} newChild\n * @return {?} */\n *\n function (parent, newChild) {\n
parent.appendChild(newChild); }\n /**\n * @param {?} parent\n * @param {?} newChild\n * @param
{?} refChild\n * @return {?} */\n *\n DefaultDomRenderer2.prototype.insertBefore = /**\n * @param {?}
parent\n * @param {?} newChild\n * @param {?} refChild\n * @return {?} */\n *\n function (parent,
newChild, refChild) {\n if (parent) {\n parent.insertBefore(newChild, refChild);\n }\n };}\n /**\n
* @param {?} parent\n * @param {?} oldChild\n * @return {?} */\n *\n
DefaultDomRenderer2.prototype.removeChild = /**\n * @param {?} parent\n * @param {?} oldChild\n *
@return {?} */\n *\n function (parent, oldChild) {\n if (parent) {\n parent.removeChild(oldChild);\n
 }\n };}\n /**\n * @param {?} selectorOrNode\n * @return {?} */\n *\n
DefaultDomRenderer2.prototype.selectRootElement = /**\n * @param {?} selectorOrNode\n * @return {?} */\n
*\n function (selectorOrNode) {\n var /** @type {?} */ el = typeof selectorOrNode === 'string' ?
document.querySelector(selectorOrNode) : selectorOrNode;\n if (!el) {\n throw new Error("The

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selector |||" + selectorOrNode + |"|" did not match any elements");\n }\n el.textContent = ";\n return
el;\n };\n };\n /**\n * @param {?} node\n * @return {?}\n */\n DefaultDomRenderer2.prototype.parentNode = /**\n * @param {?} node\n * @return {?}\n */\n function
(node) { return node.parentNode; };\n /**\n * @param {?} node\n * @return {?}\n */\n DefaultDomRenderer2.prototype.nextSibling = /**\n * @param {?} node\n * @return {?}\n */\n function
(node) { return node.nextSibling; };\n /**\n * @param {?} el\n * @param {?} name\n * @param {?}
value\n * @param {?=} namespace\n * @return {?}\n */\n DefaultDomRenderer2.prototype.setAttribute =
/**\n * @param {?} el\n * @param {?} name\n * @param {?} value\n * @param {?=} namespace\n *
@return {?}\n */\n function (el, name, value, namespace) {\n if (namespace) {\n name = namespace
+ \":\" + name;\n var /** @type {?} */ namespaceUri = NAMESPACE_URIS[namespace];\n if
(namespaceUri) {\n el.setAttributeNS(namespaceUri, name, value);\n }\n else {\n
el.setAttribute(name, value);\n }\n }\n else {\n el.setAttribute(name, value);\n }\n };\n
 /**\n * @param {?} el\n * @param {?} name\n * @param {?=} namespace\n * @return {?}\n */\n
 DefaultDomRenderer2.prototype.removeAttribute = /**\n * @param {?} el\n * @param {?} name\n *
@return {?}\n */\n function (el, name, namespace) {\n if (namespace) {\n var /** @type {?} */
namespaceUri = NAMESPACE_URIS[namespace];\n if (namespaceUri) {\n el.removeAttributeNS(namespaceUri, name);\n }\n else {\n el.removeAttribute(namespace
+ \":\" + name);\n }\n }\n else {\n el.removeAttribute(name);\n }\n };\n /**\n *
@param {?} el\n * @param {?} name\n * @return {?}\n */\n DefaultDomRenderer2.prototype.addClass =
/**\n * @param {?} el\n * @param {?} name\n * @return {?}\n */\n function (el, name) {\n
el.classList.add(name); };\n /**\n * @param {?} el\n * @param {?} name\n * @return {?}\n */\n
 DefaultDomRenderer2.prototype.removeClass = /**\n * @param {?} el\n * @param {?} name\n * @return
{?}\n */\n function (el, name) { el.classList.remove(name); };\n /**\n * @param {?} el\n * @param {?}
style\n * @param {?} value\n * @param {?} flags\n * @return {?}\n */\n DefaultDomRenderer2.prototype.setStyle = /**\n * @param {?} el\n * @param {?} style\n * @param {?}
value\n * @param {?} flags\n * @return {?}\n */\n function (el, style, value, flags) {\n if (flags &
RendererStyleFlags2.DashCase) {\n el.style.setProperty(style, value, !(flags &
RendererStyleFlags2.Important) ? 'important' : ");\n }\n else {\n el.style[style] = value;\n }\n };\n /**\n * @param {?} el\n * @param {?} style\n * @param {?} flags\n * @return {?}\n */\n
 DefaultDomRenderer2.prototype.removeStyle = /**\n * @param {?} el\n * @param {?} style\n * @param
{?}\n * @return {?}\n */\n function (el, style, flags) {\n if (flags & RendererStyleFlags2.DashCase)
{\n el.style.removeProperty(style);\n }\n else {\n // IE requires " instead of null\n // see
https://github.com/angular/angular/issues/7916\n el.style[style] = ";\n }\n };\n /**\n * @param {?}
el\n * @param {?} name\n * @param {?} value\n * @return {?}\n */\n DefaultDomRenderer2.prototype.setProperty = /**\n * @param {?} el\n * @param {?} name\n * @param
{?}\n * @return {?}\n */\n function (el, name, value) {\n checkNoSyntheticProp(name,
'property');\n el[name] = value;\n };\n /**\n * @param {?} node\n * @param {?} value\n * @return
{?}\n */\n DefaultDomRenderer2.prototype.setValue = /**\n * @param {?} node\n * @param {?} value\n *
@return {?}\n */\n function (node, value) { node.nodeValue = value; };\n /**\n * @param {?} target\n * @param {?} event\n * @param {?} callback\n * @return {?}\n */\n
 DefaultDomRenderer2.prototype.listen = /**\n * @param {?} target\n * @param {?} event\n * @param {?}
callback\n * @return {?}\n */\n function (target, event, callback) {\n checkNoSyntheticProp(event,
'listener');\n if (typeof target === 'string') {\n return /** @type {?} */\n (this.eventManager.addGlobalEventListener(target, event, decoratePreventDefault(callback)));\n }\n return
/** @type {?} */\n ((this.eventManager.addEventListener(target, event, decoratePreventDefault(callback)));\n };\n return DefaultDomRenderer2;\n})();\n nvar AT_CHARCODE = '@'.charCodeAt(0);\n /**\n * @param {?} name\n *
@param {?} nameKind\n * @return {?}\n */\n function checkNoSyntheticProp(name, nameKind) {\n if
(name.charCodeAt(0) === AT_CHARCODE) {\n throw new Error(\"Found the synthetic \" + nameKind + \" \")

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+ name + \'. Please include either \\"BrowserAnimationsModule\\" or \\"NoopAnimationsModule\\" in your
application.\\");\n }\n\nvar EmulatedEncapsulationDomRenderer2 = /** @class */ (function (_super) {\n
__extends(EmulatedEncapsulationDomRenderer2, _super);\n function
EmulatedEncapsulationDomRenderer2(eventManager, sharedStylesHost, component) {\n var _this =
_super.call(this, eventManager) || this;\n _this.component = component;\n var /** @type {?} */ styles =
flattenStyles(component.id, component.styles, []);\n sharedStylesHost.addStyles(styles);\n _this.contentAttr
= shimContentAttribute(component.id);\n _this.hostAttr = shimHostAttribute(component.id);\n return
_this;\n }\n /**\n * @param {?} element\n * @return {?} */\n *\nEmulatedEncapsulationDomRenderer2.prototype.applyToHost = /**\n * @param {?} element\n * @return
{?} */\n *\n function (element) { _super.prototype.setAttribute.call(this, element, this.hostAttr, ""); }\n /**\n *
@param {?} parent\n * @param {?} name\n * @return {?} */\n *\nEmulatedEncapsulationDomRenderer2.prototype.createElement = /**\n * @param {?} parent\n * @param {?}
name\n * @return {?} */\n *\n function (parent, name) {\n var /** @type {?} */ el =
_super.prototype.createElement.call(this, parent, name);\n _super.prototype.setAttribute.call(this, el,
this.contentAttr, "");\n return el;\n };\n return
EmulatedEncapsulationDomRenderer2;\n}(DefaultDomRenderer2));\n\nvar ShadowDomRenderer = /** @class */
(function (_super) {\n __extends(ShadowDomRenderer, _super);\n function
ShadowDomRenderer(eventManager, sharedStylesHost, hostEl, component) {\n var _this = _super.call(this,
eventManager) || this;\n _this.sharedStylesHost = sharedStylesHost;\n _this.hostEl = hostEl;\n
_this.component = component;\n _this.shadowRoot = (/** @type {?} */ (hostEl)).createShadowRoot();\n
_this.sharedStylesHost.addHost(_this.shadowRoot);\n var /** @type {?} */ styles = flattenStyles(component.id,
component.styles, []);\n for (var /** @type {?} */ i = 0; i < styles.length; i++) {\n var /** @type {?} */
styleEl = document.createElement('style');\n styleEl.textContent = styles[i];\n
_this.shadowRoot.appendChild(styleEl);\n }\n return _this;\n }\n /**\n * @param {?} node\n *
@return {?} */\n *\n ShadowDomRenderer.prototype.nodeOrShadowRoot = /**\n * @param {?} node\n *
@return {?} */\n *\n function (node) { return node === this.hostEl ? this.shadowRoot : node; }\n /**\n *
@return {?} */\n *\n ShadowDomRenderer.prototype.destroy = /**\n * @return {?} */\n *\n function () {\n
this.sharedStylesHost.removeHost(this.shadowRoot);\n }\n /**\n * @param {?} parent\n * @param {?}
newChild\n * @return {?} */\n *\n ShadowDomRenderer.prototype.appendChild = /**\n * @param {?}
parent\n * @param {?} newChild\n * @return {?} */\n *\n function (parent, newChild) {\n return
_super.prototype.appendChild.call(this, this.nodeOrShadowRoot(parent), newChild);\n };\n /**\n * @param
{?} parent\n * @param {?} newChild\n * @param {?} refChild\n * @return {?} */\n *\n
ShadowDomRenderer.prototype.insertBefore = /**\n * @param {?} parent\n * @param {?} newChild\n *
@param {?} refChild\n * @return {?} */\n *\n function (parent, newChild, refChild) {\n return
_super.prototype.insertBefore.call(this, this.nodeOrShadowRoot(parent), newChild, refChild);\n };\n /**\n *
@param {?} parent\n * @param {?} oldChild\n * @return {?} */\n *\n
ShadowDomRenderer.prototype.removeChild = /**\n * @param {?} parent\n * @param {?} oldChild\n *
@return {?} */\n *\n function (parent, oldChild) {\n return _super.prototype.removeChild.call(this,
this.nodeOrShadowRoot(parent), oldChild);\n };\n /**\n * @param {?} node\n * @return {?} */\n *\n
ShadowDomRenderer.prototype.parentNode = /**\n * @param {?} node\n * @return {?} */\n *\n function
(node) {\n return this.nodeOrShadowRoot(_super.prototype.parentNode.call(this,
this.nodeOrShadowRoot(node)));\n };\n return ShadowDomRenderer;\n})(DefaultDomRenderer2));\n\n/**\n *
@fileoverview added by tsickle\n * @suppress {checkTypes} checked by tsc\n */\n\n/**\n * @license\n * Copyright
Google Inc. All Rights Reserved.\n * Use of this source code is governed by an MIT-style license that can be\n *
found in the LICENSE file at https://angular.io/license\n */\n\nvar 0 = function (v) {\n return '__zone_symbol__' +
v;\n};\n\n/**\n * Detect if Zone is present. If it is then use simple zone aware 'addEventListener'\n * since Angular can
do much more\n * efficient bookkeeping than Zone can, because we have additional information. This speeds up\n *
addEventListener by 3x.\n */\n\nvar __symbol__ = (typeof Zone !== 'undefined') && (/** @type {?} */

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(Zone))['__symbol__'] || 0;\nvar ADD_EVENT_LISTENER = __symbol__('addEventListener');\nvar
REMOVE_EVENT_LISTENER = __symbol__('removeEventListener');\nvar symbolNames = {};\nvar FALSE =
'FALSE';\nvar ANGULAR = 'ANGULAR';\nvar NATIVE_ADD_LISTENER = 'addEventListener';\nvar
NATIVE_REMOVE_LISTENER = 'removeEventListener';\n// use the same symbol string which is used in
zone.js\nvar stopSymbol = '__zone_symbol__propagationStopped';\nvar stopMethodSymbol =
'__zone_symbol__stopImmediatePropagation';\nvar blackListedEvents = (typeof Zone !== 'undefined') && (**
@type {?} */ (Zone))['__symbol__('BLACK_LISTED_EVENTS');\nvar blackListedMap;\nif (blackListedEvents)
{\n blackListedMap = {};\n blackListedEvents.forEach(function (eventName) { blackListedMap[eventName] =
eventName; });\n}\nvar isBlackListedEvent = function (eventName) {\n if (!blackListedMap) {\n return
false;\n }\n return blackListedMap.hasOwnProperty(eventName);\n};\n// a global listener to handle all dom
event,\n// so we do not need to create a closure everytime\nvar globalListener = function (event) {\n var /** @type
{?} */ symbolName = symbolNames[event.type];\n if (!symbolName) {\n return;\n }\n var /** @type {?}
*/ taskDatas = this[symbolName];\n if (!taskDatas) {\n return;\n }\n var /** @type {?} */ args = [event];\n
if (taskDatas.length === 1) {\n // if taskDatas only have one element, just invoke it\n var /** @type {?} */
taskData = taskDatas[0];\n if (taskData.zone !== Zone.current) {\n // only use Zone.run when
Zone.current not equals to stored zone\n return taskData.zone.run(taskData.handler, this, args);\n }\n
else {\n return taskData.handler.apply(this, args);\n }\n } else {\n // copy tasks as a snapshot to
avoid event handlers remove\n // itself or others\n var /** @type {?} */ copiedTasks = taskDatas.slice();\n
for (var /** @type {?} */ i = 0; i < copiedTasks.length; i++) {\n // if other listener call
event.stopImmediatePropagation\n // just break\n if ((/** @type {?} */ (event))[stopSymbol] === true)
{\n break;\n }\n var /** @type {?} */ taskData = copiedTasks[i];\n if (taskData.zone
!== Zone.current) {\n // only use Zone.run when Zone.current not equals to stored zone\n
taskData.zone.run(taskData.handler, this, args);\n } else {\n taskData.handler.apply(this,
args);\n }\n }\n }\n};\nvar DomEventsPlugin = /** @class */ (function (_super) {\n
__extends(DomEventsPlugin, _super);\n function DomEventsPlugin(doc, ngZone) {\n var _this =
_super.call(this, doc) || this;\n _this.ngZone = ngZone;\n _this.patchEvent();\n return _this;\n }\n
/**\n * @return {?} \n */\n DomEventsPlugin.prototype.patchEvent = /**\n * @return {?} \n */\n
function () {\n if (!Event || !Event.prototype) {\n return;\n }\n if ((/** @type {?} */
(Event.prototype))[stopMethodSymbol]) {\n // already patched by zone.js\n return;\n }\n var
/** @type {?} */ delegate = (** @type {?} */ (Event.prototype))[stopMethodSymbol] =\n
Event.prototype.stopImmediatePropagation;\n Event.prototype.stopImmediatePropagation = function () {\n
if (this) {\n this[stopSymbol] = true;\n }\n // should call native delegate in case\n // in
some enviroment part of the application\n // will not use the patched Event\n delegate &&
delegate.apply(this, arguments);\n }; \n};\n // This plugin should come last in the list of plugins, because it
accepts all\n // events.\n /**\n * @param {?} eventName\n * @return {?} \n */\n DomEventsPlugin.prototype.supports = /**\n * @param {?} eventName\n * @return {?} \n */\n function
(eventName) { return true; }; \n /**\n * @param {?} element\n * @param {?} eventName\n * @param {?}
handler\n * @return {?} \n */\n DomEventsPlugin.prototype.addEventListener = /**\n * @param {?}
element\n * @param {?} eventName\n * @param {?} handler\n * @return {?} \n */\n function (element,
eventName, handler) {\n var _this = this;\n /**\n * This code is about to add a listener to the DOM. If
Zone.js is present, than\n * `addEventListener` has been patched. The patched code adds overhead in both\n
 * memory and speed (3x slower) than native. For this reason if we detect that\n * Zone.js is present we use a
simple version of zone aware addEventListener instead.\n * The result is faster registration and the zone will be
restored.\n * But ZoneSpec.onScheduleTask, ZoneSpec.onInvokeTask, ZoneSpec.onCancelTask\n * will
not be invoked\n * We also do manual zone restoration in element.ts renderEventHandlerClosure method.\n
 */\n * NOTE: it is possible that the element is from different iframe, and so we\n * have to check before
we execute the method.\n */\n var /** @type {?} */ self = this;\n var /** @type {?} */ zoneJsLoaded =
element[ADD_EVENT_LISTENER];\n var /** @type {?} */ callback = /** @type {?} */ (handler);\n // if

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zonejs is loaded and current zone is not ngZone\n // we keep Zone.current on target for later restoration.\n if
(zoneJsLoaded && (!NgZone.isInAngularZone() || isBlackListedEvent(eventName))) {\n var /** @type {?}
*/ symbolName = symbolNames[eventName];\n if (!symbolName) {\n symbolName =
symbolNames[eventName] = __symbol__(ANGULAR + eventName + FALSE);\n }\n var /** @type
{?} */ taskDatas = (/** @type {?} */ (element))[symbolName];\n var /** @type {?} */
globalListenerRegistered = taskDatas && taskDatas.length > 0;\n if (!taskDatas) {\n taskDatas =
(/** @type {?} */ (element))[symbolName] = [];\n }\n var /** @type {?} */ zone =
isBlackListedEvent(eventName) ? Zone.root : Zone.current;\n if (taskDatas.length === 0) {\n
taskDatas.push({ zone: zone, handler: callback });\n }\n else {\n var /** @type {?} */
callbackRegistered = false;\n for (var /** @type {?} */ i = 0; i < taskDatas.length; i++) {\n if
(taskDatas[i].handler === callback) {\n callbackRegistered = true;\n break;\n
 }\n }\n if (!callbackRegistered) {\n taskDatas.push({ zone: zone, handler: callback
});\n }\n if (!globalListenerRegistered) {\n
element[ADD_EVENT_LISTENER](eventName, globalListener, false);\n }\n else {\n
element[NATIVE_ADD_LISTENER](eventName, callback, false);\n }\n return function () { return
_this.removeEventListener(element, eventName, callback); };;\n }\n /**\n * @param {?} target\n *
@param {?} eventName\n * @param {?} callback\n * @return {?}\n */\n DomEventsPlugin.prototype.removeEventListener = /**\n * @param {?} target\n * @param {?} eventName\n
 * @param {?} callback\n * @return {?}\n */\n function (target, eventName, callback) {\n var /**
@type {?} */ underlyingRemove = target[REMOVE_EVENT_LISTENER];\n // zone.js not loaded, use native
removeEventListener\n if (!underlyingRemove) {\n return
target[NATIVE_REMOVE_LISTENER].apply(target, [eventName, callback, false]);\n }\n var /** @type
{?} */ symbolName = symbolNames[eventName];\n var /** @type {?} */ taskDatas = symbolName &&
target[symbolName];\n if (!taskDatas) {\n // addEventListener not using patched version\n // just
call native removeEventListener\n return target[NATIVE_REMOVE_LISTENER].apply(target, [eventName,
callback, false]);\n }\n // fix issue 20532, should be able to remove\n // listener which was added inside
of ngZone\n var /** @type {?} */ found = false;\n for (var /** @type {?} */ i = 0; i < taskDatas.length;
i++) {\n // remove listener from taskDatas if the callback equals\n if (taskDatas[i].handler ===
callback) {\n found = true;\n taskDatas.splice(i, 1);\n break;\n }\n }\n if
(found) {\n if (taskDatas.length === 0) {\n // all listeners are removed, we can remove the
globalListener from target\n underlyingRemove.apply(target, [eventName, globalListener, false]);\n }\n }\n else {\n // not found in taskDatas, the callback may be added inside of ngZone\n // use
native remove listener to remove the callback\n target[NATIVE_REMOVE_LISTENER].apply(target,
[eventName, callback, false]);\n }\n };\n DomEventsPlugin.decorators = [\n { type: Injectable },\n];\n /** @nocollapse */\n DomEventsPlugin.ctorParameters = function () { return [\n { type: undefined,
decorators: [{ type: Inject, args: [DOCUMENT$1,] },\n { type: NgZone, },\n]};\n return
DomEventsPlugin;\n })(EventManagerPlugin);\n\n /**\n * @fileoverview added by tsickle\n * @suppress
{checkTypes} checked by tsc\n */\n /**\n * @license\n * Copyright Google Inc. All Rights Reserved.\n */\n /**\n * Use of
this source code is governed by an MIT-style license that can be\n * found in the LICENSE file at
https://angular.io/license\n */\n nvar EVENT_NAMES = {\n // pan\n 'pan': true,\n 'panstart': true,\n 'panmove':
true,\n 'panend': true,\n 'pancancel': true,\n 'panleft': true,\n 'panright': true,\n 'panup': true,\n 'pandown':
true,\n // pinch\n 'pinch': true,\n 'pinchstart': true,\n 'pinchmove': true,\n 'pinchend': true,\n 'pinchcancel':
true,\n 'pinchin': true,\n 'pinchout': true,\n // press\n 'press': true,\n 'pressup': true,\n // rotate\n 'rotate':
true,\n 'rotatestart': true,\n 'rotatemark': true,\n 'rotateend': true,\n 'rotatecancel': true,\n // swipe\n 'swipe':
true,\n 'swipeleft': true,\n 'swiperight': true,\n 'swipeup': true,\n 'swipedown': true,\n // tap\n 'tap':
true,\n };\n\n /**\n * A DI token that you can use to provide{@link HammerGestureConfig} to Angular. Use it to
configure\n * Hammer gestures.\n */\n /**\n * @experimental\n */\n nvar HAMMER_GESTURE_CONFIG = new
InjectionToken('HammerGestureConfig');\n\n /**\n * @record\n */\n /**\n * @experimental\n */\n nvar

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HammerGestureConfig = /** @class */ (function () {\n function HammerGestureConfig() {\n this.events =
[];\n this.overrides = {};\n }\n /**\n * @param {?} element\n * @return {?} */\n HammerGestureConfig.prototype.buildHammer = /**\n * @param {?} element\n * @return {?} */\n function (element) {\n var /** @type {?} */ mc = new Hammer(element);\n mc.get('pinch').set({ enable:
true });\n mc.get('rotate').set({ enable: true });\n for (var /** @type {?} */ eventName in this.overrides) {\n
mc.get(eventName).set(this.overrides[eventName]);\n }\n return mc;\n };\n HammerGestureConfig.decorators = [\n { type: Injectable },\n];\n /** @nocollapse */\n HammerGestureConfig.ctorParameters = function () { return []; };
return HammerGestureConfig;\n})();\nvar
HammerGesturesPlugin = /** @class */ (function (_super) {\n __extends(HammerGesturesPlugin, _super);\n function HammerGesturesPlugin(doc, _config) {\n var _this = _super.call(this, doc) || this;\n _this._config =
_config;\n return _this;\n }\n /**\n * @param {?} eventName\n * @return {?} */\n HammerGesturesPlugin.prototype.supports = /**\n * @param {?} eventName\n * @return {?} */\n function (eventName) {\n if (!EVENT_NAMES.hasOwnProperty(eventName.toLowerCase()) &&
!this.isCustomEvent(eventName)) {\n return false;\n }\n if (!(/** @type {?} */ (window)).Hammer)
{\n throw new Error("Hammer.js is not loaded, can not bind \"" + eventName + "\" event");\n }\n return true;\n };\n /**\n * @param {?} element\n * @param {?} eventName\n * @param {?} handler\n * @return {?} */\n HammerGesturesPlugin.prototype.addEventListener = /**\n * @param {?} element\n * @param {?} eventName\n * @param {?} handler\n * @return {?} */\n function (element, eventName,
handler) {\n var _this = this;\n var /** @type {?} */ zone = this.manager.getZone();\n eventName =
eventName.toLowerCase();\n return zone.runOutsideAngular(function () {\n // Creating the manager
bind events, must be done outside of angular\n var /** @type {?} */ mc =
_this._config.buildHammer(element);\n var /** @type {?} */ callback = function (eventObj) {\n
zone.runGuarded(function () { handler(eventObj); });\n });\n mc.on(eventName, callback);\n return function () { return mc.off(eventName, callback); };
});\n });\n /**\n * @param {?} eventName\n * @return {?} */\n */\n HammerGesturesPlugin.prototype.isCustomEvent = /**\n * @param {?} eventName\n * @return {?} */\n */\n function (eventName) { return this._config.events.indexOf(eventName) > -1; };
HammerGesturesPlugin.decorators = [\n { type: Injectable },\n];\n /** @nocollapse */\n HammerGesturesPlugin.ctorParameters = function () { return [\n { type: undefined, decorators: [{ type: Inject,
args: [DOCUMENT$1,], }],\n { type: HammerGestureConfig, decorators: [{ type: Inject, args:
[HAMMER_GESTURE_CONFIG,], }],\n] };
return
HammerGesturesPlugin;\n})(EventManagerPlugin);\n\n/**\n * @fileoverview added by tsickle\n * @suppress
{checkTypes} checked by tsc\n */\n/**\n * @license\n * Copyright Google Inc. All Rights Reserved.\n *\n * Use of
this source code is governed by an MIT-style license that can be\n * found in the LICENSE file at
https://angular.io/license\n */\nvar MODIFIER_KEYS = ['alt', 'control', 'meta', 'shift'];\nvar 0$1 = function (event) {\n return event.altKey; };
var 1$1 = function (event) { return event.ctrlKey; };
var 2$1 = function (event) { return event.metaKey; };
var 3 = function (event) { return event.shiftKey; };
var MODIFIER_KEY_GETTERS = {\n 'alt': 0$1,\n 'control': 1$1,\n 'meta': 2$1,\n 'shift': 3\n};\n/**\n * @experimental\n */\nvar KeyEventsPlugin =
/** @class */ (function (_super) {\n __extends(KeyEventsPlugin, _super);\n function KeyEventsPlugin(doc) {\n return _super.call(this, doc) || this;\n }\n /**\n * @param {?} eventName\n * @return {?} */\n KeyEventsPlugin.prototype.supports = /**\n * @param {?} eventName\n * @return {?} */\n function (eventName) { return KeyEventsPlugin.parseEventName(eventName) != null; };
/**\n * @param {?} element\n * @param {?} eventName\n * @param {?} handler\n * @return {?} */\n KeyEventsPlugin.prototype.addEventListener = /**\n * @param {?} element\n * @param {?} eventName\n * @param {?} handler\n * @return {?} */\n function (element, eventName, handler) {\n var /** @type
{?} */ parsedEvent = /** @type {?} */ ((KeyEventsPlugin.parseEventName(eventName));\n var /** @type
{?} */ outsideHandler = KeyEventsPlugin.eventCallback(parsedEvent['fullKey'], handler,
this.manager.getZone());\n return this.manager.getZone().runOutsideAngular(function () {\n return
getDOM().onAndCancel(element, parsedEvent['domEventName'], outsideHandler);\n });\n };\n /**\n *

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@param {?} eventName\n * @return {?} \n * \n KeyEventsPlugin.parseEventName = /** \n * @param {?}
eventName\n * @return {?} \n * \n function (eventName) {\n var /** @type {?} */ parts =
eventName.toLowerCase().split('.');\n var /** @type {?} */ domEventName = parts.shift();\n if
((parts.length === 0) || !(domEventName === 'keydown' || domEventName === 'keyup')) {\n return null;\n
}\n var /** @type {?} */ key = KeyEventsPlugin._normalizeKey(/** @type {?} */ ((parts.pop())));\n var
/** @type {?} */ fullKey = '';\n MODIFIER_KEYS.forEach(function (modifierName) {\n var /** @type
{?} */ index = parts.indexOf(modifierName);\n if (index > -1) {\n parts.splice(index, 1);\n
fullKey += modifierName + '.';\n }\n });\n fullKey += key;\n if (parts.length != 0 || key.length
=== 0) {\n // returning null instead of throwing to let another plugin process the event\n return null;\n
}\n var /** @type {?} */ result = {};\n result['domEventName'] = domEventName;\n
result['fullKey'] = fullKey;\n return result;\n };\n /** \n * @param {?} event\n * @return {?} \n * \n
KeyEventsPlugin.getEventFullKey = /** \n * @param {?} event\n * @return {?} \n * \n function (event)
{\n var /** @type {?} */ fullKey = '';\n var /** @type {?} */ key = getDOM().getEventKey(event);\n
key = key.toLowerCase();\n if (key === ' ') {\n key = 'space'; // for readability\n }\n else if (key
=== '.') {\n key = 'dot'; // because '.' is used as a separator in event names\n }\n
MODIFIER_KEYS.forEach(function (modifierName) {\n if (modifierName != key) {\n var /**
@type {?} */ modifierGetter = MODIFIER_KEY_GETTERS[modifierName];\n if (modifierGetter(event))
{\n fullKey += modifierName + '.';\n }\n });\n fullKey += key;\n return
fullKey;\n };\n /** \n * @param {?} fullKey\n * @param {?} handler\n * @param {?} zone\n *
@return {?} \n * \n KeyEventsPlugin.eventCallback = /** \n * @param {?} fullKey\n * @param {?}
handler\n * @param {?} zone\n * @return {?} \n * \n function (fullKey, handler, zone) {\n return
function (event /** TODO #9100 */) {\n if (KeyEventsPlugin.getEventFullKey(event) === fullKey) {\n
zone.runGuarded(function () { return handler(event); });\n }\n });\n /** @internal * \n * \n
* \n * @internal\n * @param {?} keyName\n * @return {?} \n * \n KeyEventsPlugin._normalizeKey = /** \n
* \n * @internal\n * @param {?} keyName\n * @return {?} \n * \n function (keyName) {\n // TODO:
switch to a Map if the mapping grows too much\n switch (keyName) {\n case 'esc':\n return
'escape';\n default:\n return keyName;\n }\n }; \n KeyEventsPlugin.decorators = [\n {
type: Injectable },\n];\n /** @nocollapse * \n KeyEventsPlugin.ctorParameters = function () { return [\n {
type: undefined, decorators: [{ type: Inject, args: [DOCUMENT$1,] },\n];\n }; \n return
KeyEventsPlugin;\n } (EventManagerPlugin);\n \n \n * @fileoverview added by tsickle\n * @suppress
{checkTypes} checked by tsc\n * \n * @license\n * Copyright Google Inc. All Rights Reserved.\n * \n * Use of
this source code is governed by an MIT-style license that can be\n * found in the LICENSE file at
https://angular.io/license\n * \n * \n * A pattern that recognizes a commonly useful subset of URLs that are safe.\n
* \n * This regular expression matches a subset of URLs that will not cause script\n * execution if used in URL
context within a HTML document. Specifically, this\n * regular expression matches if (comment from here on and
regex copied from\n * Soy's EscapingConventions):\n * (1) Either a protocol in a whitelist (http, https, mailto or
ftp).\n * (2) or no protocol. A protocol must be followed by a colon. The below\n * allows that by allowing
colons only after one of the characters [/?#].\n * A colon after a hash (#) must be in the fragment.\n *
Otherwise, a colon after a (?) must be in a query.\n * Otherwise, a colon after a single solidus (/) must be in a
path.\n * Otherwise, a colon after a double solidus (//) must be in the authority\n * (before port).\n * \n * The
pattern disallows &, used in HTML entity declarations before\n * one of the characters in [/?#]. This disallows
HTML entities used in the\n * protocol name, which should never happen, e.g. \"http\" for \"http\".\n * It also
disallows HTML entities in the first path part of a relative path,\n * e.g. \"foo<bar/baz\". Our existing escaping
functions should not produce\n * that. More importantly, it disallows masking of a colon,\n * e.g.
\"javascript:...\".\n * \n * This regular expression was taken from the Closure sanitization library.\n * \n
nvar
SAFE_URL_PATTERN = /^(?:https?|mailto|ftp|tel|file):|^&[/?#]*(?:[/?#]|$)/gi;\n * \n * A pattern that matches
safe data URLs. Only matches image, video and audio types.\n * \n
nvar DATA_URL_PATTERN =
/^data:(?:image\/(?:bmp|gif|jpeg|jpg|png|tiff|webp)|video\/(?:mpeg|mp4|ogg|webm)|audio\/(?:mp3|oga|ogg|opus));b

```



```

ase64,[a-z0-9+\\|/+=*$/i;\\n/**\\n * @param {?} url\\n * @return {?}\\n */\\nfunction sanitizeUrl(url) {\\n url =
String(url);\\n if (url.match(SAFE_URL_PATTERN) || url.match(DATA_URL_PATTERN))\\n return url;\\n
if (isDevMode()) {\\n getDOM().log("WARNING: sanitizing unsafe URL value '" + url + "' (see
http://g.co/ng/security#xss)");\\n }\\n return 'unsafe:' + url;\\n}\\n/**\\n * @param {?} srcset\\n * @return {?}\\n
*/\\nfunction sanitizeSrcset(srcset) {\\n srcset = String(srcset);\\n return srcset.split(',').map(function (srcset) {
return sanitizeUrl(srcset.trim()); }).join(', ');\\n}\\n}\\n\\n/**\\n * @fileoverview added by tsickle\\n * @suppress
{checkTypes} checked by tsc\\n */\\n/**\\n * @license\\n * Copyright Google Inc. All Rights Reserved.\\n */\\n * Use of
this source code is governed by an MIT-style license that can be\\n * found in the LICENSE file at
https://angular.io/license\\n */\\n/**\\n * A <body> element that can be safely used to parse untrusted HTML. Lazily
initialized below.\\n */\\nvar InertElement = null;\\n/**\\n * Lazily initialized to make sure the DOM adapter gets set
before use.\\n */\\nvar DOM = /** @type {?} */ ((null));\\n/**\\n * Returns an HTML element that is guaranteed to not
execute code when creating elements in it.\\n */\\nfunction getInertElement() {\\n if
(InertElement)\\n return InertElement;\\n DOM = getDOM();\\n // Prefer using <template> element if
supported.\\n var /** @type {?} */ templateEl = DOM.createElement('template');\\n if ('content' in templateEl)\\n
return templateEl;\\n var /** @type {?} */ doc = DOM.createHtmlDocument();\\n InertElement =
DOM.querySelector(doc, 'body');\\n if (InertElement === null) {\\n // usually there should be only one body
element in the document, but IE doesn't have any, so we\\n // need to create one.\\n var /** @type {?} */
html = DOM.createElement('html', doc);\\n InertElement = DOM.createElement('body', doc);\\n
DOM.appendChild(html, InertElement);\\n DOM.appendChild(doc, html);\\n }\\n return
InertElement;\\n}\\n/**\\n * @param {?} tags\\n * @return {?}\\n */\\nfunction tagSet(tags) {\\n var /** @type {?} */
res = {};\\n for (var _i = 0, _a = tags.split(','); _i < _a.length; _i++) {\\n var t = _a[_i];\\n res[t] = true;\\n
}\\n return res;\\n}\\n/**\\n * @param {...?} sets\\n * @return {?}\\n */\\nfunction merge() {\\n var sets = [];\\n for
(var _i = 0; _i < arguments.length; _i++) {\\n sets[_i] = arguments[_i];\\n }\\n var /** @type {?} */ res = {};\\n
for (var _a = 0, sets_1 = sets; _a < sets_1.length; _a++) {\\n var s = sets_1[_a];\\n for (var /** @type {?} */
v in s) {\\n if (s.hasOwnProperty(v))\\n res[v] = true;\\n }\\n }\\n return res;\\n}\\n// Good source
of info about elements and attributes\\n// http://dev.w3.org/html5/spec/Overview.html#semantics\\n//
http://simon.html5.org/html-elements\\n// Safe Void Elements - HTML5\\n//
http://dev.w3.org/html5/spec/Overview.html#void-elements\\nvar VOID_ELEMENTS =
tagSet('area,br,col,hr,img,wbr');\\n// Elements that you can, intentionally, leave open (and which close
themselves)\\n// http://dev.w3.org/html5/spec/Overview.html#optional-tags\\nvar
OPTIONAL_END_TAG_BLOCK_ELEMENTS = tagSet('colgroup,dd,dt,li,p,tbody,td,tfoot,th,thead,tr');\\nvar
OPTIONAL_END_TAG_INLINE_ELEMENTS = tagSet('rp,rt');\\nvar OPTIONAL_END_TAG_ELEMENTS =
merge(OPTIONAL_END_TAG_INLINE_ELEMENTS, OPTIONAL_END_TAG_BLOCK_ELEMENTS);\\n// Safe
Block Elements - HTML5\\nvar BLOCK_ELEMENTS = merge(OPTIONAL_END_TAG_BLOCK_ELEMENTS,
tagSet('address,article,' +\\n
'aside,blockquote,caption,center,del,details,dialog,dir,div,dl,figure,figcaption,footer,h1,h2,h3,h4,h5,' +\\n
'h6,header,hgroup,hr,ins,main,map,menu,nav,ol,pre,section,summary,table,ul'));\\n// Inline Elements - HTML5\\nvar
INLINE_ELEMENTS = merge(OPTIONAL_END_TAG_INLINE_ELEMENTS, tagSet('a,abbr,acronym,audio,b,'
+\\n
'bdi,bdo,big,br,cite,code,del,dfn,em,font,i,img,ins,kbd,label,map,mark,picture,q,ruby,rp,rt,s,' +\\n
'samp,small,source,span,strike,strong,sub,sup,time,track,tt,u,var,video'));\\nvar VALID_ELEMENTS =
merge(VOID_ELEMENTS, BLOCK_ELEMENTS, INLINE_ELEMENTS,
OPTIONAL_END_TAG_ELEMENTS);\\n// Attributes that have href and hence need to be sanitized\\nvar
URI_ATTRS = tagSet('background,cite,href,itemtype,longdesc,poster,src,xlink:href');\\n// Attributes that have
special href set hence need to be sanitized\\nvar SRCSET_ATTRS = tagSet('srcset');\\nvar HTML_ATTRS =
tagSet('abbr,accesskey,align,alt,autoplay,axis,bgcolor,border,cellpadding,cellspacing,class,clear,color,cols,colspan,'
+\\n
'compact,controls,coords,datetime,default,dir,download,face,headers,height,hidden,hreflang,hspace,' +\\n
'ismap,itemscope,itemprop,kind,label,lang,language,loop,media,muted,nohref,nowrap,open,preload,rel,rev,role,rows
,rowspan,rules,' +\\n

```

```

'scope,scrolling,shape,size,sizes,span,srclang,start,summary,tabindex,target,title,translate,type,usemap,' +\n
'valign,value,vspace,width');\n// NB: This currently consciously doesn't support SVG. SVG sanitization has had
several security\n// issues in the past, so it seems safer to leave it out if possible. If support for binding SVG via\n//
innerHTML is required, SVG attributes should be added here.\n// NB: Sanitization does not allow <form> elements
or other active elements (<button> etc). Those\n// can be sanitized, but they increase security surface area without a
legitimate use case, so they\n// are left out here.\nvar VALID_ATTRS = merge(URI_ATTRS, SRCSET_ATTRS,
HTML_ATTRS);\n/**\n * SanitizingHtmlSerializer serializes a DOM fragment, stripping out any unsafe elements
and unsafe\n * attributes.\n *\n */\nvar SanitizingHtmlSerializer = /** @class */ (function () {\n function
SanitizingHtmlSerializer() {\n this.sanitizedSomething = false;\n this.buf = [];\n }\n /**\n * @param
{?} el\n * @return {?}\n *\n */\n SanitizingHtmlSerializer.prototype.sanitizeChildren = /**\n * @param {?}
el\n * @return {?}\n *\n */\n function (el) {\n // This cannot use a TreeWalker, as it has to run on Angular's
various DOM adapters.\n // However this code never accesses properties off of `document` before deleting its
contents\n // again, so it shouldn't be vulnerable to DOM clobbering.\n var /** @type {?} */ current = /**\n
 * @type {?} */ ((el.firstChild));\n while (current) {\n if (DOM.isElementNode(current)) {\n
this.startElement(/** @type {?} */ (current));\n }\n else if (DOM.isTextNode(current)) {\n
this.chars(/** @type {?} */ ((DOM.nodeValue(current))));\n }\n else {\n // Strip non-
element, non-text nodes.\n this.sanitizedSomething = true;\n }\n if (DOM.firstChild(current))
{\n current = /** @type {?} */ ((DOM.firstChild(current)));\n continue;\n }\n while
(current) {\n // Leaving the element. Walk up and to the right, closing tags as we go.\n if
(DOM.isElementNode(current)) {\n this.endElement(/** @type {?} */ (current));\n }\n var /**
 * @type {?} */ next = checkClobberedElement(current, /** @type {?} */ ((DOM.nextSibling(current))));\n
 if (next) {\n current = next;\n break;\n }\n current =
checkClobberedElement(current, /** @type {?} */ ((DOM.parentElement(current))));\n }\n }\n return
this.buf.join(");\n });\n /**\n * @param {?} element\n * @return {?}\n *\n */\n SanitizingHtmlSerializer.prototype.startElement = /**\n
 * @param {?} element\n * @return {?}\n *\n */\n function (element) {\n var _this = this;\n var /**
 * @type {?} */ tagName =
DOM.nodeName(element).toLowerCase();\n if (!VALID_ELEMENTS.hasOwnProperty(tagName)) {\n
this.sanitizedSomething = true;\n return;\n }\n this.buf.push('<');\n this.buf.push(tagName);\n
DOM.attributeMap(element).forEach(function (value, attrName) {\n var /** @type {?} */ lower =
attrName.toLowerCase();\n if (!VALID_ATTRS.hasOwnProperty(lower)) {\n
_this.sanitizedSomething = true;\n return;\n }\n // TODO(martinprobst): Special case image
URIs for data:image/...\n if (URI_ATTRS[lower])\n value = sanitizeUrl(value);\n if
(SRCSET_ATTRS[lower])\n value = sanitizeSrcset(value);\n _this.buf.push(' ');\n
_this.buf.push(attrName);\n _this.buf.push('=');\n _this.buf.push(encodeEntities(value));\n
_this.buf.push('');\n });\n this.buf.push('>');\n });\n /**\n * @param {?} current\n * @return {?}\n
 *\n */\n SanitizingHtmlSerializer.prototype.endElement = /**\n * @param {?} current\n * @return {?}\n
 *\n */\n function (current) {\n var /** @type {?} */ tagName = DOM.nodeName(current).toLowerCase();\n if
(VALID_ELEMENTS.hasOwnProperty(tagName) && !VOID_ELEMENTS.hasOwnProperty(tagName)) {\n
this.buf.push('</');\n this.buf.push(tagName);\n this.buf.push('>');\n }\n });\n /**\n * @param
{?} chars\n * @return {?}\n *\n */\n SanitizingHtmlSerializer.prototype.chars = /**\n * @param {?} chars\n
 * @return {?}\n *\n */\n function (chars) {\n this.buf.push(encodeEntities(chars));\n }; return
SanitizingHtmlSerializer;\n})();\n/**\n * @param {?} node\n * @param {?} nextNode\n * @return {?}\n
*\n */\nfunction checkClobberedElement(node, nextNode) {\n if (nextNode && DOM.contains(node, nextNode)) {\n
 throw new Error("Failed to sanitize html because the element is clobbered: " + DOM.getOuterHTML(node));\n
 }\n return nextNode;\n}\n\n// Regular Expressions for parsing tags and attributes\nvar
SURROGATE_PAIR_REGEXP = /[\u0080-\u00FF][\u00C0-\u00FF]/g;\n// ! to ~ is the ASCII range.\nvar
NON_ALPHANUMERIC_REGEXP = /([^\w#~!])/g;\n/**\n * Escapes all potentially dangerous characters, so that
the\n * resulting string can be safely inserted into attribute or\n * element text.\n * @param {?} value\n * @return

```



values are a very common use case, e.g. for `background-image`. With carefully crafted CSS style rules, it is possible to construct an information leak with `url` values in CSS, e.g. by observing whether scroll bars are displayed, or character ranges used by a font face definition. Angular only allows binding CSS values (as opposed to entire CSS rules), so it is unlikely that binding a URL value without further cooperation from the page will cause an information leak, and if so, it is just a leak, not a full blown XSS vulnerability. Given the common use case, low likelihood of attack vector, and low impact of an attack, this code is permissive and allows URLs that sanitize otherwise.

```

nvar URL_RE = /^url(\([\^\]|\$|/)*$/;
Checks that quotes (\" and ') are properly balanced inside a string. Assumes that neither escape (\) nor any other character that could result in breaking out of a string parsing context are allowed; see http://www.w3.org/TR/css3-syntax/#string-token-diagram.
This code was taken from the Closure sanitization library.
@param {?} value
@return {?}
function hasBalancedQuotes(value) {
 var outsideSingle = true;
 var outsideDouble = true;
 for (var i = 0; i < value.length; i++) {
 var c = value.charAt(i);
 if (c === "\"" && outsideDouble) {
 outsideSingle = !outsideSingle;
 }
 else if (c === "'" && outsideSingle) {
 outsideDouble = !outsideDouble;
 }
 }
 return outsideSingle && outsideDouble;
}
Sanitizes the given untrusted CSS style property value (i.e. not an entire object, just a single value) and returns a value that is safe to use in a browser environment.
@param {?} value
@return {?}
function sanitizeStyle(value) {
 value = String(value).trim(); // Make sure it's actually a string.
 if (!value) return "";
 // Single url(...) values are supported, but only for URLs that sanitize cleanly. See above for reasoning behind this.
 var urlMatch = value.match(URL_RE);
 if ((urlMatch && sanitizeUrl(urlMatch[1]) === urlMatch[1]) || value.match(SAFE_STYLE_VALUE) && hasBalancedQuotes(value)) {
 return value; // Safe style values.
 }
 if (isDevMode()) {
 getDOM().log("WARNING: sanitizing unsafe style value '" + value + "' (see http://g.co/ng/security#xss).");
 }
 return 'unsafe';
}
@fileoverview added by tsickle
@suppress {checkTypes} checked by tsc
@license Copyright Google Inc. All Rights Reserved.
Use of this source code is governed by an MIT-style license that can be found in the LICENSE file at https://angular.io/license
Marker interface for a value that's safe to use in a particular context.
@@stable
@record
Marker interface for a value that's safe to use as HTML.
@@stable
@record
Marker interface for a value that's safe to use as style (CSS).
@@stable
@record
Marker interface for a value that's safe to use as JavaScript.
@@stable
@record
Marker interface for a value that's safe to use as a URL linking to a document.
@@stable
@record
Marker interface for a value that's safe to use as a URL to load executable code from.
@@stable
@record
Marker interface for a value that's safe to use as a URL linking to a document.
@@stable
DomSanitizer helps preventing Cross Site Scripting Security bugs (XSS) by sanitizing values to be safe to use in the different DOM contexts.
For example, when binding a URL in an <a [href]="someValue"> hyperlink, `someValue` will be sanitized so that an attacker cannot inject e.g. a `javascript:` URL that would execute code on the website.
In specific situations, it might be necessary to disable sanitization, for example if the application genuinely needs to produce a `javascript:` style link with a dynamic value in it.
Users can bypass security by constructing a value with one of the `bypassSecurityTrust...` methods, and then binding to that value from the template.
These situations should be very rare, and extraordinary care must be taken to avoid creating a Cross Site Scripting (XSS) security bug!
When using `bypassSecurityTrust...`, make sure to call the method as early as possible and as close as possible to the source of the value, to make it easy to verify no security bug is created by its use.
It is not required (and not recommended) to bypass security if the value is safe, e.g. a URL that does not start with a suspicious protocol, or an HTML snippet that does not contain dangerous code. The sanitizer leaves safe values intact.
@@security Calling any of the `bypassSecurityTrust...` APIs disables Angular's built-in sanitization for the value passed in. Carefully check and audit all values and code paths going into this call. Make sure any user data is appropriately escaped for this security context.
For more detail, see the [Security Guide](http://g.co/ng/security).
@@stable
@abstract
nvar DomSanitizer = /** @class */ (function () {
 function DomSanitizer() {}
 return DomSanitizer;
})();
nvar DomSanitizerImpl = /** @class */

```

```

(function (_super) {\n __extends(DomSanitizerImpl, _super);\n function DomSanitizerImpl(_doc) {\n var\n _this = _super.call(this) || this;\n _this._doc = _doc;\n return _this;\n }\n /**\n * @param {?} ctx\n * @param {?} value\n * @return {?}\n */\n DomSanitizerImpl.prototype.sanitize = /**\n * @param {?} ctx\n * @param {?} value\n * @return {?}\n */\n function (ctx, value) {\n if (value == null)\n return null;\n switch (ctx) {\n case SecurityContext.NONE:\n return /** @type {?} */(value);\n case SecurityContext.HTML:\n if (value instanceof SafeHtmlImpl)\n return\n value.changingThisBreaksApplicationSecurity;\n this.checkNotSafeValue(value, 'HTML');\n return sanitizeHtml(this._doc, String(value));\n case SecurityContext.STYLE:\n if (value instanceof\n SafeStyleImpl)\n return value.changingThisBreaksApplicationSecurity;\n this.checkNotSafeValue(value, 'Style');\n return sanitizeStyle(** @type {?} */(value));\n case\n SecurityContext.SCRIPT:\n if (value instanceof SafeScriptImpl)\n return\n value.changingThisBreaksApplicationSecurity;\n this.checkNotSafeValue(value, 'Script');\n throw new Error('unsafe value used in a script context');\n case SecurityContext.URL:\n if (value\n instanceof SafeResourceUrlImpl || value instanceof SafeUrlImpl) {\n // Allow resource URLs in URL\n contexts, they are strictly more trusted.\n return value.changingThisBreaksApplicationSecurity;\n }\n this.checkNotSafeValue(value, 'URL');\n return sanitizeUrl(String(value));\n case\n SecurityContext.RESOURCE_URL:\n if (value instanceof SafeResourceUrlImpl) {\n return\n value.changingThisBreaksApplicationSecurity;\n }\n this.checkNotSafeValue(value,\n 'ResourceURL');\n throw new Error('unsafe value used in a resource URL context (see\n http://g.co/ng/security#xss)');\n default:\n throw new Error(`Unexpected SecurityContext ` + ctx +\n ` (see http://g.co/ng/security#xss)`);\n }\n };\n /**\n * @param {?} value\n * @param {?} expectedType\n * @return {?}\n */\n DomSanitizerImpl.prototype.checkNotSafeValue = /**\n * @param\n {?} value\n * @param {?} expectedType\n * @return {?}\n */\n function (value, expectedType) {\n if\n (value instanceof SafeValueImpl) {\n throw new Error(`Required a safe ` + expectedType + `, got a ` +\n value.getTypeName() + ` ` +\n `(see http://g.co/ng/security#xss)`);\n }\n };\n /**\n *\n * @param {?} value\n * @return {?}\n */\n DomSanitizerImpl.prototype.bypassSecurityTrustHtml = /**\n *\n * @param {?} value\n * @return {?}\n */\n function (value) {\n return new SafeHtmlImpl(value);\n };\n /**\n *\n * @param {?} value\n * @return {?}\n */\n DomSanitizerImpl.prototype.bypassSecurityTrustStyle = /**\n *\n * @param {?} value\n * @return {?}\n */\n function (value) {\n return new SafeStyleImpl(value);\n };\n /**\n *\n * @param {?} value\n * @return {?}\n */\n DomSanitizerImpl.prototype.bypassSecurityTrustScript = /**\n *\n * @param {?} value\n * @return {?}\n */\n function (value) {\n return new SafeScriptImpl(value);\n };\n /**\n *\n * @param {?} value\n * @return {?}\n */\n DomSanitizerImpl.prototype.bypassSecurityTrustUrl = /**\n *\n * @param {?} value\n * @return {?}\n */\n function (value) {\n return new\n SafeResourceUrlImpl(value);\n };\n DomSanitizerImpl.decorators = [\n { type: Injectable },\n];\n /**\n *\n * @nocollapse\n */\n DomSanitizerImpl.ctorParameters = function () {\n return [\n { type: undefined, decorators: [{\n type: Inject, args: [DOCUMENT$1,], },\n],\n];\n };\n return DomSanitizerImpl;\n})(DomSanitizer);\n\n/**\n * @abstract\n */\nvar SafeValueImpl = /** @class */ (function () {\n function\n SafeValueImpl(changingThisBreaksApplicationSecurity) {\n // empty\n }\n this.changingThisBreaksApplicationSecurity = changingThisBreaksApplicationSecurity;\n /**\n *\n * @return {?}\n */\n SafeValueImpl.prototype.toString = /**\n * @return {?}\n */\n function () {\n return `SafeValue must use [property]=binding: ` + this.changingThisBreaksApplicationSecurity +\n ` ` +\n `(see http://g.co/ng/security#xss)`;\n };\n return SafeValueImpl;\n})();\nvar SafeHtmlImpl = /** @class */ (function\n (_super) {\n __extends(SafeHtmlImpl, _super);\n function SafeHtmlImpl() {\n return _super !== null &&\n _super.apply(this, arguments) || this;\n }\n /**\n * @return {?}\n */\n SafeHtmlImpl.prototype.getTypeName = /**\n * @return {?}\n */\n function () {\n return 'HTML';\n };\n return SafeHtmlImpl;\n })(SafeValueImpl);\nvar SafeStyleImpl = /** @class */ (function (_super) {\n function\n SafeStyleImpl(changingThisBreaksApplicationSecurity) {\n // empty\n }\n this.changingThisBreaksApplicationSecurity = changingThisBreaksApplicationSecurity;\n /**\n *\n * @return {?}\n */\n SafeStyleImpl.prototype.toString = /**\n * @return {?}\n */\n function () {\n return `SafeStyle must use [property]=binding: ` + this.changingThisBreaksApplicationSecurity +\n ` ` +\n `(see http://g.co/ng/security#xss)`;\n };\n return SafeStyleImpl;\n})();\nvar SafeScriptImpl = /** @class */ (function (_super) {\n function\n SafeScriptImpl(changingThisBreaksApplicationSecurity) {\n // empty\n }\n this.changingThisBreaksApplicationSecurity = changingThisBreaksApplicationSecurity;\n /**\n *\n * @return {?}\n */\n SafeScriptImpl.prototype.toString = /**\n * @return {?}\n */\n function () {\n return `SafeScript must use [property]=binding: ` + this.changingThisBreaksApplicationSecurity +\n ` ` +\n `(see http://g.co/ng/security#xss)`;\n };\n return SafeScriptImpl;\n})();\nvar SafeResourceUrlImpl = /** @class */ (function (_super) {\n function\n SafeResourceUrlImpl(changingThisBreaksApplicationSecurity) {\n // empty\n }\n this.changingThisBreaksApplicationSecurity = changingThisBreaksApplicationSecurity;\n /**\n *\n * @return {?}\n */\n SafeResourceUrlImpl.prototype.toString = /**\n * @return {?}\n */\n function () {\n return `SafeResourceUrl must use [property]=binding: ` + this.changingThisBreaksApplicationSecurity +\n ` ` +\n `(see http://g.co/ng/security#xss)`;\n };\n return SafeResourceUrlImpl;\n})();\nvar SafeUrlImpl = /** @class */ (function (_super) {\n function\n SafeUrlImpl(changingThisBreaksApplicationSecurity) {\n // empty\n }\n this.changingThisBreaksApplicationSecurity = changingThisBreaksApplicationSecurity;\n /**\n *\n * @return {?}\n */\n SafeUrlImpl.prototype.toString = /**\n * @return {?}\n */\n function () {\n return `SafeUrl must use [property]=binding: ` + this.changingThisBreaksApplicationSecurity +\n ` ` +\n `(see http://g.co/ng/security#xss)`;\n };\n return SafeUrlImpl;\n})();\n})\n
```

```

__extends(SafeStyleImpl, _super);\n function SafeStyleImpl() {\n return _super !== null &&
_super.apply(this, arguments) || this;\n }\n /**\n * @return {?}\n */\n
SafeStyleImpl.prototype.getTypeName = /**\n * @return {?}\n */\n function () { return 'Style'; };
return
SafeStyleImpl;\n}(SafeValueImpl));\nvar SafeScriptImpl = /** @class */ (function (_super) {\n
__extends(SafeScriptImpl, _super);\n function SafeScriptImpl() {\n return _super !== null &&
_super.apply(this, arguments) || this;\n }\n /**\n * @return {?}\n */\n
SafeScriptImpl.prototype.getTypeName = /**\n * @return {?}\n */\n function () { return 'Script'; };
return
SafeScriptImpl;\n}(SafeValueImpl));\nvar SafeUrlImpl = /** @class */ (function (_super) {\n
__extends(SafeUrlImpl, _super);\n function SafeUrlImpl() {\n return _super !== null && _super.apply(this,
arguments) || this;\n }\n /**\n * @return {?}\n */\n SafeUrlImpl.prototype.getTypeName = /**\n *
@return {?}\n */\n function () { return 'URL'; };
return SafeUrlImpl;\n}(SafeValueImpl));\nvar
SafeResourceUrlImpl = /** @class */ (function (_super) {\n __extends(SafeResourceUrlImpl, _super);\n
function SafeResourceUrlImpl() {\n return _super !== null && _super.apply(this, arguments) || this;\n }\n
/**\n * @return {?}\n */\n SafeResourceUrlImpl.prototype.getTypeName = /**\n * @return {?}\n */\n
function () { return 'ResourceURL'; };
return SafeResourceUrlImpl;\n}(SafeValueImpl));\n\n/**\n *
@fileoverview added by tsickle\n * @suppress {checkTypes} checked by tsc\n */\n\n/**\n * @license\n * Copyright
Google Inc. All Rights Reserved.\n * Use of this source code is governed by an MIT-style license that can be\n *
found in the LICENSE file at https://angular.io/license\n */\n\nvar
INTERNAL_BROWSER_PLATFORM_PROVIDERS = [\n { provide: PLATFORM_ID, useValue:
PLATFORM_BROWSER_ID },\n { provide: PLATFORM_INITIALIZER, useValue: initDomAdapter, multi:
true },\n { provide: PlatformLocation, useClass: BrowserPlatformLocation, deps: [DOCUMENT$1] },\n {
provide: DOCUMENT$1, useFactory: _document, deps: [] },\n];\n\n/**\n * \\@security Replacing built-in
sanitization providers exposes the application to XSS risks.\n * Attacker-controlled data introduced by an
unsanitized provider could expose your\n * application to XSS risks. For more detail, see the [Security
Guide](http://g.co/ng/security).\n * \\@experimental\n */\n\nvar BROWSER_SANITIZATION_PROVIDERS = [\n
{ provide: Sanitizer, useExisting: DomSanitizer },\n { provide: DomSanitizer, useClass: DomSanitizerImpl, deps:
[DOCUMENT$1] },\n];\n\n/**\n * \\@stable\n */\n\nvar platformBrowser = createPlatformFactory(platformCore,
'browser', INTERNAL_BROWSER_PLATFORM_PROVIDERS);\n\n/**\n * @return {?}\n */\n\nfunction
initDomAdapter() {\n BrowserDomAdapter.makeCurrent();\n BrowserGetTestability.init();\n}\n\n/**\n * @return
{?}\n */\n\nfunction errorHandler() {\n return new ErrorHandler();\n}\n\n/**\n * @return {?}\n */\n\nfunction
_document() {\n return document;\n}\n\n/**\n * The ng module for the browser.\n */\n\n/**\n * \\@stable\n */\n\nvar
BrowserModule = /** @class */ (function () {\n function BrowserModule(parentModule) {\n if
(parentModule) {\n throw new Error("BrowserModule has already been loaded. If you need access to
common directives such as NgIf and NgFor from a lazy loaded module, import CommonModule instead.");\n }\n }\n }\n /**\n * Configures a browser-based application to transition from a server-rendered app, if\n * one
is present on the page. The specified parameters must include an application id,\n * which must match between
the client and server applications.\n * \\@experimental\n */\n\n /**\n * Configures a browser-based
application to transition from a server-rendered app, if\n * one is present on the page. The specified parameters
must include an application id,\n * which must match between the client and server applications.\n * \\@experimental\n * @param {?} params\n * @return {?}\n */\n\n BrowserModule.withServerTransition =
/**\n * Configures a browser-based application to transition from a server-rendered app, if\n * one is present on
the page. The specified parameters must include an application id,\n * which must match between the client and
server applications.\n * \\@experimental\n * @param {?} params\n * @return {?}\n */\n\n function
(params) {\n return {\n ngModule: BrowserModule,\n providers: [\n { provide: APP_ID,
useValue: params.appId },\n { provide: TRANSITION_ID, useExisting: APP_ID },\n
SERVER_TRANSITION_PROVIDERS,\n],\n };
};\n\n BrowserModule.decorators = [\n { type:
NgModule, args: [{\n providers: [\n BROWSER_SANITIZATION_PROVIDERS,\n
{ provide: ErrorHandler, useFactory: errorHandler, deps: [] },\n

```







```

this.store[key]; }; \n /** \n * Test whether a key exists in the store. \n * \n * Test whether a key exists
in the store. \n * @template T \n * @param {?} key \n * @return {?} \n * \n
TransferState.prototype.hasKey = /** \n * Test whether a key exists in the store. \n * @template T \n *
@param {?} key \n * @return {?} \n * \n function (key) { return this.store.hasOwnProperty(key); }; \n /** \n
* Register a callback to provide the value for a key when `toJson` is called. \n * \n * Register a callback
to provide the value for a key when `toJson` is called. \n * @template T \n * @param {?} key \n * @param
{?} callback \n * @return {?} \n * \n TransferState.prototype.onSerialize = /** \n * Register a callback to
provide the value for a key when `toJson` is called. \n * @template T \n * @param {?} key \n * @param {?}
callback \n * @return {?} \n * \n function (key, callback) { \n this.onSerializeCallbacks[key] = callback; \n
}; \n /** \n * Serialize the current state of the store to JSON. \n * \n * Serialize the current state of
the store to JSON. \n * @return {?} \n * \n TransferState.prototype.toJson = /** \n * Serialize the current
state of the store to JSON. \n * @return {?} \n * \n function () { \n // Call the onSerialize callbacks and put
those values into the store. \n for (var /** @type {?} */ key in this.onSerializeCallbacks) { \n if
(this.onSerializeCallbacks.hasOwnProperty(key)) { \n try { \n this.store[key] =
this.onSerializeCallbacks[key](); \n } \n catch (** @type {?} */ e) { \n
console.warn('Exception in onSerialize callback: ', e); \n } \n } \n return
JSON.stringify(this.store); \n }; \n TransferState.decorators = [\n { type: Injectable }, \n]; \n /**
@nocollapse \n TransferState.ctorParameters = function () { return []; }; \n return TransferState; \n }); \n /** \n
@param {?} doc \n * @param {?} appId \n * @return {?} \n * \n function initTransferState(doc, appId) { \n // Locate
the script tag with the JSON data transferred from the server. \n // The id of the script tag is set to the Angular
appId + 'state'. \n var /** @type {?} */ script = doc.getElementById(appId + '-state'); \n var /** @type {?} */
initialState = {}; \n if (script && script.textContent) { \n try { \n initialState =
JSON.parse(unescapeHtml(script.textContent)); \n } \n catch (** @type {?} */ e) { \n
console.warn('Exception while restoring TransferState for app ' + appId, e); \n } \n } \n return
TransferState.init(initialState); \n } \n /** \n * NgModule to install on the client side while using the `TransferState` to
transfer state from \n * server to client. \n * \n * \n * @experimental \n * \n * @ngmodule BrowserTransferStateModule = /** @class
*/ (function () { \n function BrowserTransferStateModule() { \n } \n BrowserTransferStateModule.decorators =
[\n { type: NgModule, args: [\n providers: [\n { provide: TransferState, useFactory: initTransferState,
deps: [DOCUMENT$1, APP_ID] }, \n], \n], \n]; \n /** @nocollapse \n
BrowserTransferStateModule.ctorParameters = function () { return []; }; \n return
BrowserTransferStateModule; \n }); \n /** \n * @fileoverview added by tsickle \n * @suppress {checkTypes}
checked by tsc \n * \n * @license \n * Copyright Google Inc. All Rights Reserved. \n * \n * Use of this source
code is governed by an MIT-style license that can be \n * found in the LICENSE file at https://angular.io/license \n
* \n * \n * Predicates for use with {@link DebugElement}'s query functions. \n * \n * \n * @experimental All
debugging apis are currently experimental. \n * \n * @ngmodule By = /** @class */ (function () { \n function By() { \n } \n
/** \n * Match all elements. \n * \n * ## Example \n * \n * { @example platform-
browser/dom/debug/ts/by/by.ts region='by_all' } \n * \n * ## Example \n
* \n * { @example platform-browser/dom/debug/ts/by/by.ts region='by_all' } \n * @return {?} \n * \n
By.all = /** \n * Match all elements. \n * \n * ## Example \n * \n * { @example platform-
browser/dom/debug/ts/by/by.ts region='by_all' } \n * @return {?} \n * \n function () { return function
(debugElement) { return true; }; }; \n /** \n * Match elements by the given CSS selector. \n * \n * ##
Example \n * \n * { @example platform-browser/dom/debug/ts/by/by.ts region='by_css' } \n * \n * ## \n
* Match elements by the given CSS selector. \n * \n * ## Example \n * \n * { @example platform-
browser/dom/debug/ts/by/by.ts region='by_css' } \n * @param {?} selector \n * @return {?} \n * \n By.css =
/** \n * Match elements by the given CSS selector. \n * \n * ## Example \n * \n * { @example platform-
browser/dom/debug/ts/by/by.ts region='by_css' } \n * @param {?} selector \n * @return {?} \n * \n function
(selector) { \n return function (debugElement) { \n return debugElement.nativeElement != null ? \n
getDOM().elementMatches(debugElement.nativeElement, selector) : \n false; \n }; \n }; \n /** \n *

```



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Author Tobias Koppers @sokra

\*/

Found in path(s):

\* /opt/cola/permits/1685982541\_1684869380.3505192/0/totvs-gps-rpw-0-0-1-tgz/package/dist/styles.bundle.js

No license file was found, but licenses were detected in source scan.

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\*/

/\*! \*\*\*\*\*

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\*/

Found in path(s):

\* /opt/cola/permits/1685982541\_1684869380.3505192/0/totvs-gps-rpw-0-0-1-tgz/package/dist/vendor.bundle.js

No license file was found, but licenses were detected in source scan.

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```





```

options));\n\t\t}\n\t\t\tstylesInDom[item.id] = {id: item.id, refs: 1, parts: parts};\n\t\t}\n\t\t}\n\t\t}\n\nfunction
listToStyles(list) {\n\t\tvar styles = [];\n\t\tvar newStyles = {};\n\t\tfor(var i = 0; i < list.length; i++) {\n\t\t\tvar item =
list[i];\n\t\t\tvar id = item[0];\n\t\t\tvar css = item[1];\n\t\t\tvar media = item[2];\n\t\t\tvar sourceMap = item[3];\n\t\t\tvar
part = {css: css, media: media, sourceMap: sourceMap};\n\t\t\tif(!newStyles[id])\n\t\t\t\tstyles.push(newStyles[id] =
{id: id, parts: [part]});\n\t\t\telse\n\t\t\t\tnewStyles[id].parts.push(part);\n\t\t\t}\n\t\t}\n\nfunction
insertStyleElement(options, styleElement) {\n\t\tvar head = getHeadElement();\n\t\tvar lastStyleElementInsertedAtTop
= styleElementsInsertedAtTop[styleElementsInsertedAtTop.length - 1];\n\t\tif (options.insertAt === \"top\")
{\n\t\t\tif(!lastStyleElementInsertedAtTop) {\n\t\t\t\tthead.insertBefore(styleElement, head.firstChild);\n\t\t\t} else
if(lastStyleElementInsertedAtTop.nextSibling) {\n\t\t\t\tthead.insertBefore(styleElement,
lastStyleElementInsertedAtTop.nextSibling);\n\t\t\t} else
{\n\t\t\t\tthead.appendChild(styleElement);\n\t\t\t}\n\t\t\tstyleElementsInsertedAtTop.push(styleElement);\n\t\t} else if
(options.insertAt === \"bottom\") {\n\t\t\tthead.appendChild(styleElement);\n\t\t} else {\n\t\t\tthrow new Error(\"Invalid
value for parameter 'insertAt'. Must be 'top' or 'bottom'.\");\n\t\t}\n\t\t}\n\nfunction removeStyleElement(styleElement)
{\n\t\tstyleElement.parentNode.removeChild(styleElement);\n\t\tvar idx =
styleElementsInsertedAtTop.indexOf(styleElement);\n\t\tif(idx >= 0) {\n\t\t\tstyleElementsInsertedAtTop.splice(idx,
1);\n\t\t}\n\t\t}\n\nfunction createStyleElement(options) {\n\t\tvar styleElement =
document.createElement(\"style\");\n\t\tstyleElement.type = \"text/css\";\n\t\tinsertStyleElement(options,
styleElement);\n\t\treturn styleElement;\n\t\t}\n\nfunction createLinkElement(options) {\n\t\tvar linkElement =
document.createElement(\"link\");\n\t\tlinkElement.rel = \"stylesheet\";\n\t\tinsertStyleElement(options,
linkElement);\n\t\treturn linkElement;\n\t\t}\n\nfunction addStyle(obj, options) {\n\t\tvar styleElement, update,
remove;\n\t\tif (options.singleton) {\n\t\t\tvar styleIndex = singletonCounter++;\n\t\t\tstyleElement = singletonElement
|| (singletonElement = createStyleElement(options));\n\t\t\tupdate = applyToSingletonTag.bind(null, styleElement,
styleIndex, false);\n\t\t\tremove = applyToSingletonTag.bind(null, styleElement, styleIndex, true);\n\t\t} else
if(obj.sourceMap &&\n\t\t\ttypeof URL === \"function\" &&\n\t\t\ttypeof URL.createObjectURL === \"function\"
&&\n\t\t\ttypeof URL.revokeObjectURL === \"function\" &&\n\t\t\ttypeof Blob === \"function\" &&\n\t\t\ttypeof btoa
=== \"function\") {\n\t\t\tstyleElement = createLinkElement(options);\n\t\t\tupdate = updateLink.bind(null,
styleElement);\n\t\t\tremove = function()
{\n\t\t\t\tremoveStyleElement(styleElement);\n\t\t\t\tif(styleElement.href)\n\t\t\t\t\tURL.revokeObjectURL(styleElement.
href);\n\t\t\t\t};\n\t\t} else {\n\t\t\tstyleElement = createStyleElement(options);\n\t\t\tupdate = applyToTag.bind(null,
styleElement);\n\t\t\tremove = function()
{\n\t\t\t\tremoveStyleElement(styleElement);\n\t\t\t\t};\n\t\t}\n\t\t}\n\n\t\t\tupdate(obj);\n\t\t\treturn function updateStyle(newObj)
{\n\t\t\t\tif(newObj) {\n\t\t\t\t\tif(newObj.css === obj.css && newObj.media === obj.media && newObj.sourceMap ===
obj.sourceMap)\n\t\t\t\t\t\treturn;\n\t\t\t\t\tupdate(obj = newObj);\n\t\t\t\t} else {\n\t\t\t\t\tremove();\n\t\t\t\t\t};\n\t\t\t}\n\t\t\tvar
replaceText = (function () {\n\t\t\t\tvar textStore = [];\n\t\t\t\treturn function (index, replacement) {\n\t\t\t\t\ttextStore[index] =
replacement;\n\t\t\t\t\treturn textStore.filter(Boolean).join(\"\\n\");\n\t\t\t\t};\n\t\t\t}\n\t\t\t}\n\n\t\t\tapplyToSingletonTag(styleElement, index, remove, obj) {\n\t\t\t\tvar css = remove ? \"\" : obj.css;\n\t\t\t\tif
(styleElement.styleSheet) {\n\t\t\t\t\tstyleElement.styleSheet.cssText = replaceText(index, css);\n\t\t\t\t} else {\n\t\t\t\t\tvar
cssNode = document.createTextNode(css);\n\t\t\t\t\tvar childNodes = styleElement.childNodes;\n\t\t\t\t\tif
(childNodes[index]) styleElement.removeChild(childNodes[index]);\n\t\t\t\t\tif (childNodes.length)
{\n\t\t\t\t\t\tstyleElement.insertBefore(cssNode, childNodes[index]);\n\t\t\t\t\t} else
{\n\t\t\t\t\t\tstyleElement.appendChild(cssNode);\n\t\t\t\t\t}\n\t\t\t\t}\n\t\t\t}\n\n\t\t\tfunction applyToTag(styleElement, obj) {\n\t\t\t\tvar css =
obj.css;\n\t\t\t\tvar media = obj.media;\n\t\t\t\tif(media) {\n\t\t\t\t\tstyleElement.setAttribute(\"media\",
media);\n\t\t\t\t}\n\t\t\t\tif(styleElement.styleSheet) {\n\t\t\t\t\tstyleElement.styleSheet.cssText = css;\n\t\t\t\t} else
{\n\t\t\t\t\twhile(styleElement.firstChild)
{\n\t\t\t\t\t\tstyleElement.removeChild(styleElement.firstChild);\n\t\t\t\t\t}\n\t\t\t\t\tstyleElement.appendChild(document.createText
Node(css));\n\t\t\t\t}\n\t\t\t}\n\t\t\t}\n\n\t\t\tfunction updateLink(linkElement, obj) {\n\t\t\t\tvar css = obj.css;\n\t\t\t\tvar sourceMap =
obj.sourceMap;\n\t\t\t\tif(sourceMap) {\n\t\t\t\t\t// http://stackoverflow.com/a/26603875\n\t\t\t\t\tcss += \"\\n/*#
sourceMappingURL=data:application/json;base64,\" +

```



components/totvs-gps-rpw/node\_modules/core-js/modules/\_iter-define.js", "C:/V11-THF2/totvs-hgp/totvs-thf2-components/totvs-gps-rpw/node\_modules/core-js/modules/\_iter-detect.js", "C:/V11-THF2/totvs-hgp/totvs-thf2-components/totvs-gps-rpw/node\_modules/core-js/modules/\_iter-step.js", "C:/V11-THF2/totvs-hgp/totvs-thf2-components/totvs-gps-rpw/node\_modules/core-js/modules/\_iterators.js", "C:/V11-THF2/totvs-hgp/totvs-thf2-components/totvs-gps-rpw/node\_modules/core-js/modules/\_library.js", "C:/V11-THF2/totvs-hgp/totvs-thf2-components/totvs-gps-rpw/node\_modules/core-js/modules/\_meta.js", "C:/V11-THF2/totvs-hgp/totvs-thf2-components/totvs-gps-rpw/node\_modules/core-js/modules/\_metadata.js", "C:/V11-THF2/totvs-hgp/totvs-thf2-components/totvs-gps-rpw/node\_modules/core-js/modules/\_object-assign.js", "C:/V11-THF2/totvs-hgp/totvs-thf2-components/totvs-gps-rpw/node\_modules/core-js/modules/\_object-create.js", 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;AACa;AACa,GAAG,YAAY;AACf;;AAEA;AACa;AACa;AACa;AACa;AACa;AACa;AACa;AACa;AACa;AACa  
;,,,,;ACtBA,iBAAiB;;AAEjB;AACa;AACa;,,,,;ACJa;AACb,SAAS,mBAAO,CAAC,2CAAc;AAC/B,aAAa,m  
BAAO,CAAC,+CAAKB;AACvC,kBAAkB,mBAAO,CAAC,8CAAiB;AAC3C,UAAU,mBAAO,CAAC,qCAAQ;A  
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AAC,6CAAgB;AAC1C,WAAW,mBAAO,CAAC,2CAAc;AACjC,iBAAiB,mBAAO,CAAC,6CAAgB;AACzC,kB  
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B;AAC/C;;AAEA;AACa;AACa;AACa;AACa;AACa;AACa;AACa,uBAAuB,OAAO;AAC9B;AACa;AACa;;AAEA;  
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;AAC3C,cAAc,mBAAO,CAAC,sCAAS;AAC/B,eAAe,mBAAO,CAAC,2CAAc;AACrC,eAAe,mBAAO,CAAC,2C  
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K;AACL;AACa,GAAG;AACH;AACa;AACa;AACa;AACa;AACa,GAAG;AACH;AACa;,,,,,;ACpFa;ACb,  
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Y,mBAAO,CAAC,uCAAU;AAC9B,kBAaKB,mBAAO,CAAC,6CAAgB;AAC1C,qBAAqB,mBAAO,CAAC,mDA  
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;AACa;AACa;AACa;AACa,OAAO;AACp;AACa,OAAO;AACp;AACa,OAAO,mCAAmC,gCAAgC,aAAa;A  
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E;AAC1E,CAAC;,,,,,;ACHD,eAAe,mBAAO,CAAC,2CAAc;AACrC,eAAe,mBAAO,CAAC,wCAAW;AACIC;A  
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,,,,,;ACPA,eAAe,mBAAO,CAAC,wCAAW;AACIC;,,,,,;ACDA,kBAaKB,mBAAO,CAAC,6CAAgB,MAAM,mB  
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A;AACa;AACa;,,,,,;ACLA;AACa,gBAaGB,mBAAO,CAAC,2CAAc;AACtC,eAAe,mBAAO,CAAC,qCAAQ;A  
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CAAS,qBAAqB,mBAAO,CAAC,qCAAQ,4BAA4B,aAAa,EAAE;;AAEjG;AACa,qDAAqD,4BAA4B;AACjF;AA  
CA;,,,,,;ACZa;AACb,cAAc,mBAAO,CAAC,yCAAY;AACIC,cAAc,mBAAO,CAAC,wCAAW;AACjC,eAAe,mB  
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C,kBAaKB,mBAAO,CAAC,6CAAgB;AAC1C,qBAAqB,mBAAO,CAAC,mDAAsB;AACnD,qBAAqB,mBAAO,C  
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A;AACa;AACa;AACa;AACa;AACa;AACa;AACa;AACa;AACa;AACa;AACa;AACa;AACa;AACa,qEAAqE,gB  
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CAAC;AACD;AACa;AACa;AACa;AACa;AACa;AACa;AACa;AACa;AACa,kEAAkE,0CAA0C;AA  
C5G;AACa;AACa,aAAa;AACb;AACa;AACa;AACa;AACa;AACa;AACa;AACa,CAAC;;AAED;AA  
CA;AACa;AACa;AACa;AACa;AACa;;AAEA,CAAC","file":"polyfills.bundle.js","sourcesContent":["/\*\n \*  
This file includes polyfills needed by Angular and is loaded before the app.\n \* You can add your own extra  
polyfills to this file.\n \* This file is divided into 2 sections:\n \* 1. Browser polyfills. These are applied before  
loading ZoneJS and are sorted by browsers.\n \* 2. Application imports. Files imported after ZoneJS that should be  
loaded before your main\n \* file.\n \* The current setup is for so-called \"evergreen\" browsers; the last  
versions of browsers that\n \* automatically update themselves. This includes Safari >= 10, Chrome >= 55 (including  
Opera),\n \* Edge >= 13 on the desktop, and iOS 10 and Chrome on mobile.\n \* Learn more in  
<https://angular.io/docs/ts/latest/guide/browser-support.html>\n \*\n\n\*\*\*\*\*  
\*\*\*\*\*\n \* BROWSER POLYFILLS\n \*\n\n\*\* IE9, IE10 and IE11 requires all of the following polyfills.  
\*\*\n\nimport 'core-js/es6/symbol';\nimport 'core-js/es6/object';\nimport 'core-js/es6/function';\nimport 'core-  
js/es6/promise';\nimport 'core-js/es6/string';\nimport 'core-js/es6/date';\nimport 'core-js/es6/array';\nimport 'core-  
js/es6/regexp';\nimport 'core-js/es6/map';\nimport 'core-js/es6/weak-map';\nimport 'core-js/es6/set';\n\n\*\*  
IE10 and IE11 requires the following for NgClass support on SVG elements \*\nimport 'classlist.js'; // Run `npm  
install --save classlist.js`\n\n\*\* IE10 and IE11 requires the following for the Reflect API. \*\nimport 'core-  
js/es6/reflect';\n\n\*\* Evergreen browsers require these. \*\*\n\nimport 'core-js/es7/reflect';\n\n\*\* Required to support Web  
Animations `@angular/platform-browser/animations`\n\n\* Needed for: All but Chrome, Firefox and Opera.  
<http://caniuse.com/#feat=web-animation>\n \*\*\nimport 'web-animations-js'; // Run `npm install --save web-  
animations-  
js`\n\n\n\*\*\*\*\*  
\*\*\*\*\*\n \* Zone JS is required by default for Angular itself.\n \*\nimport 'zone.js/dist/zone'; // Included































```

(global['Promise'] !== patches['ZoneAwarePromise']) {
 throw new Error('Zone.js has detected that
 ZoneAwarePromise `(window|global).Promise` '
 'has been overwritten.\\n' +
 'Most
 likely cause is that a Promise polyfill has been loaded '
 'after Zone.js (Polyfilling Promise api is not
 necessary when zone.js is loaded. '
 'If you must load one, do so before loading zone.js.);\\n
 }\\n
 };\\n
 Object.defineProperty(Zone, 'root', {
 get: function () {
 var zone =
 Zone.current;\\n
 while (zone.parent) {
 zone = zone.parent;\\n
 }\\n
 return
 zone;\\n
 },\\n
 enumerable: true,\\n
 configurable: true\\n
 });\\n
 Object.defineProperty(Zone,
 'current', {
 get: function () {
 return _currentZoneFrame.zone;\\n
 },\\n
 enumerable:
 true,\\n
 configurable: true\\n
 });\\n
 Object.defineProperty(Zone, 'currentTask', {
 get:
 function () {
 return _currentTask;\\n
 },\\n
 enumerable: true,\\n
 configurable: true\\n
 });\\n
 Zone.__load_patch = function (name, fn) {
 if (patches.hasOwnProperty(name)) {\\n
 throw Error('Already loaded patch: ' + name);\\n
 }\\n
 else if (!global['__Zone_disable_' + name]) {\\n
 var perfName = 'Zone:' + name;\\n
 mark(perfName);\\n
 patches[name] = fn(global, Zone,
 _api);\\n
 performanceMeasure(perfName, perfName);\\n
 }\\n
 };\\n
 Object.defineProperty(Zone.prototype, 'parent', {
 get: function () {
 return this._parent;\\n
 },\\n
 enumerable: true,\\n
 configurable: true\\n
 });\\n
 Object.defineProperty(Zone.prototype,
 'name', {
 get: function () {
 return this._name;\\n
 },\\n
 enumerable: true,\\n
 configurable: true\\n
 });\\n
 Zone.prototype.get = function (key) {
 var zone =
 this.getZoneWith(key);\\n
 if (zone)\\n
 return zone._properties[key];\\n
 };\\n
 Zone.prototype.getZoneWith = function (key) {
 var current = this;\\n
 while (current) {\\n
 if
 (current._properties.hasOwnProperty(key)) {\\n
 return current;\\n
 }\\n
 current =
 current._parent;\\n
 }\\n
 return null;\\n
 };\\n
 Zone.prototype.fork = function (zoneSpec) {
 if (!zoneSpec)\\n
 throw new Error('ZoneSpec required!');\\n
 return this._zoneDelegate.fork(this,
 zoneSpec);\\n
 };\\n
 Zone.prototype.wrap = function (callback, source) {
 if (typeof callback !==
 FUNCTION) {\\n
 throw new Error('Expecting function got: ' + callback);\\n
 }\\n
 var _callback
 = this._zoneDelegate.intercept(this, callback, source);\\n
 var zone = this;\\n
 return function () {\\n
 return zone.runGuarded(_callback, this, arguments, source);\\n
 };\\n
 };\\n
 Zone.prototype.run =
 function (callback, applyThis, applyArgs, source) {
 if (applyThis === void 0) {
 applyThis = undefined;
 }\\n
 if (applyArgs === void 0) {
 applyArgs = null;
 }\\n
 if (source === void 0) {
 source = null;
 }\\n
 _currentZoneFrame = {
 parent: _currentZoneFrame,
 zone: this
 };\\n
 try {\\n
 return
 this._zoneDelegate.invoke(this, callback, applyThis, applyArgs, source);\\n
 }\\n
 finally {\\n
 _currentZoneFrame = _currentZoneFrame.parent;\\n
 }\\n
 };\\n
 Zone.prototype.runGuarded = function
 (callback, applyThis, applyArgs, source) {
 if (applyThis === void 0) {
 applyThis = null;
 }\\n
 if
 (applyArgs === void 0) {
 applyArgs = null;
 }\\n
 if (source === void 0) {
 source = null;
 }\\n
 _currentZoneFrame = {
 parent: _currentZoneFrame,
 zone: this
 };\\n
 try {\\n
 try {\\n
 return
 this._zoneDelegate.invoke(this, callback, applyThis, applyArgs, source);\\n
 }\\n
 catch (error) {\\n
 if (this._zoneDelegate.handleError(this, error)) {\\n
 throw error;\\n
 }\\n
 }\\n
 }\\n
 }\\n
 finally {\\n
 _currentZoneFrame = _currentZoneFrame.parent;\\n
 }\\n
 };\\n
 Zone.prototype.runTask = function (task, applyThis, applyArgs) {
 if (task.zone !== this) {\\n
 throw
 new Error('A task can only be run in the zone of creation! (Creation: ' +
 (task.zone || NO_ZONE).name
 + '; Execution: ' + this.name + ');\\n
 }\\n
 // https://github.com/angular/zone.js/issues/778, sometimes
 eventTask\\n
 // will run in notScheduled(canceled) state, we should not try to\\n
 // run such kind of task
 but just return\\n
 // we have to define an variable here, if not\\n
 // typescript compiler will complain
 below\\n
 var isNotScheduled = task.state === notScheduled;\\n
 if (isNotScheduled && task.type ===
 eventTask) {\\n
 return;\\n
 }\\n
 var reEntryGuard = task.state !== running;\\n
 reEntryGuard
 && task._transitionTo(running, scheduled);\\n
 task.runCount++;\\n
 var previousTask = _currentTask;\\n
 _currentTask = task;\\n
 _currentZoneFrame = {
 parent: _currentZoneFrame,
 zone: this
 };\\n
 try {\\n
 if (task.type == macroTask && task.data && !task.data.isPeriodic) {\\n
 task.cancelFn = null;\\n

```



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 }\n try {\n return this._zoneDelegate.invokeTask(this, task, applyThis, applyArgs);\n }\n catch (error) {\n if (this._zoneDelegate.handleError(this, error)) {\n throw error;\n }\n }\n }\n finally {\n // if the task's state is notScheduled\n // or unknown, then it has already been cancelled\n // we should not reset the state to scheduled\n if\n (task.state !== notScheduled && task.state !== unknown) {\n if (task.type === eventTask || (task.data &&\n task.data.isPeriodic)) {\n reEntryGuard && task._transitionTo(scheduled, running);\n }\n else {\n task.runCount = 0;\n this._updateTaskCount(task, -1);\n reEntryGuard &&\n task._transitionTo(notScheduled, running, notScheduled);\n }\n }\n _currentZoneFrame = _currentZoneFrame.parent;\n _currentTask = previousTask;\n }\n};\nZone.prototype.scheduleTask = function (task) {\n if (task.zone && task.zone !== this)\n {\n // check if the task was rescheduled, the newZone\n // should not be the children of the\n original zone\n var newZone = this;\n while (newZone) {\n if (newZone ===\n task.zone) {\n throw Error(\"can not reschedule task to \" + this\n .name + \" which is\n descendants of the original zone \" + task.zone.name);\n }\n newZone = newZone.parent;\n }\n }\n task._transitionTo(scheduling, notScheduled);\n var zoneDelegates = [];\n task._zoneDelegates = zoneDelegates;\n task._zone = this;\n try {\n task =\n this._zoneDelegate.scheduleTask(this, task);\n }\n catch (err) {\n // should set task's state to\n unknown when scheduleTask throw error\n // because the err may from reschedule, so the fromState\n maybe notScheduled\n task._transitionTo(unknown, scheduling, notScheduled);\n // TODO:\n @JiaLiPassion, should we check the result from handleError?\n this._zoneDelegate.handleError(this,\n err);\n throw err;\n }\n if (task._zoneDelegates === zoneDelegates) {\n // we have\n to check because internally the delegate can reschedule the task.\n this._updateTaskCount(task, 1);\n }\n if (task.state === scheduling) {\n task._transitionTo(scheduled, scheduling);\n }\n return task;\n};\nZone.prototype.scheduleMicroTask = function (source, callback, data, customSchedule)\n{\n return this.scheduleTask(new ZoneTask(microTask, source, callback, data, customSchedule, null));\n};\nZone.prototype.scheduleMacroTask = function (source, callback, data, customSchedule, customCancel) {\n return this.scheduleTask(new ZoneTask(macroTask, source, callback, data, customSchedule,\n customCancel));\n};\nZone.prototype.scheduleEventTask = function (source, callback, data,\n customSchedule, customCancel) {\n return this.scheduleTask(new ZoneTask(eventTask, source, callback,\n data, customSchedule, customCancel));\n};\nZone.prototype.cancelTask = function (task) {\n if\n (task.zone !== this)\n {\n throw new Error('A task can only be cancelled in the zone of creation! (Creation: ' +\n (task.zone || NO_ZONE).name + '; Execution: ' + this.name + '));\n }\n task._transitionTo(canceling,\n scheduled, running);\n try {\n this._zoneDelegate.cancelTask(this, task);\n }\n catch\n (err) {\n // if error occurs when cancelTask, transit the state to unknown\n task._transitionTo(unknown, canceling);\n this._zoneDelegate.handleError(this, err);\n throw\n err;\n }\n this._updateTaskCount(task, -1);\n task._transitionTo(notScheduled, canceling);\n task.runCount = 0;\n return task;\n};\nZone.prototype._updateTaskCount = function (task, count)\n{\n var zoneDelegates = task._zoneDelegates;\n if (count === -1) {\n task._zoneDelegates =\n null;\n }\n for (var i = 0; i < zoneDelegates.length; i++) {\n zoneDelegates[i]._updateTaskCount(task.type, count);\n }\n};\nZone.__symbol__ = __symbol__;\nreturn Zone;\n})();\nvar DELEGATE_ZS = {\n name: \"\n onHasTask: function (delegate, _,\n target, hasTaskState) {\n return delegate.hasTask(target, hasTaskState);\n },\n onScheduleTask:\n function (delegate, _, target, task) {\n return delegate.scheduleTask(target, task);\n },\n onInvokeTask: function (delegate, _, target, task, applyThis, applyArgs) {\n return delegate.invokeTask(target, task,\n applyThis, applyArgs);\n },\n onCancelTask: function (delegate, _, target, task) {\n return\n delegate.cancelTask(target, task);\n }\n};\nvar ZoneDelegate = /** @class */ (function () {\n function\n ZoneDelegate(zone, parentDelegate, zoneSpec) {\n this._taskCounts = { 'microTask': 0, 'macroTask': 0,\n 'eventTask': 0 };\n this.zone = zone;\n this._parentDelegate = parentDelegate;\n this._forkZS =

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zoneSpec && (zoneSpec && zoneSpec.onFork ? zoneSpec : parentDelegate._forkZS);\n this._forkDlgt =
zoneSpec && (zoneSpec.onFork ? parentDelegate : parentDelegate._forkDlgt);\n this._forkCurrZone =
zoneSpec && (zoneSpec.onFork ? this.zone : parentDelegate.zone);\n this._interceptZS =\nzoneSpec && (zoneSpec.onIntercept ? zoneSpec : parentDelegate._interceptZS);\n this._interceptDlgt =\n zoneSpec && (zoneSpec.onIntercept ? parentDelegate : parentDelegate._interceptDlgt);\n this._interceptCurrZone =\n zoneSpec && (zoneSpec.onIntercept ? this.zone : parentDelegate.zone);\n this._invokeZS = zoneSpec && (zoneSpec.onInvoke ? zoneSpec : parentDelegate._invokeZS);\n this._invokeDlgt =\n zoneSpec && (zoneSpec.onInvoke ? parentDelegate :
parentDelegate._invokeDlgt);\n this._invokeCurrZone = zoneSpec && (zoneSpec.onInvoke ? this.zone :
parentDelegate.zone);\n this._handleErrorZS =\n zoneSpec && (zoneSpec.onHandleError ?
zoneSpec : parentDelegate._handleErrorZS);\n this._handleErrorDlgt =\n zoneSpec &&
(zoneSpec.onHandleError ? parentDelegate : parentDelegate._handleErrorDlgt);\n this._handleErrorCurrZone
=\n zoneSpec && (zoneSpec.onHandleError ? this.zone : parentDelegate.zone);\n this._scheduleTaskZS =\n zoneSpec && (zoneSpec.onScheduleTask ? zoneSpec :
parentDelegate._scheduleTaskZS);\n this._scheduleTaskDlgt =\n zoneSpec &&
(zoneSpec.onScheduleTask ? parentDelegate : parentDelegate._scheduleTaskDlgt);\n this._scheduleTaskCurrZone =\n zoneSpec && (zoneSpec.onScheduleTask ? this.zone :
parentDelegate.zone);\n this._invokeTaskZS =\n zoneSpec && (zoneSpec.onInvokeTask ?
zoneSpec : parentDelegate._invokeTaskZS);\n this._invokeTaskDlgt =\n zoneSpec &&
(zoneSpec.onInvokeTask ? parentDelegate : parentDelegate._invokeTaskDlgt);\n this._invokeTaskCurrZone
=\n zoneSpec && (zoneSpec.onInvokeTask ? this.zone : parentDelegate.zone);\n this._cancelTaskZS =\n zoneSpec && (zoneSpec.onCancelTask ? zoneSpec :
parentDelegate._cancelTaskZS);\n this._cancelTaskDlgt =\n zoneSpec &&
(zoneSpec.onCancelTask ? parentDelegate : parentDelegate._cancelTaskDlgt);\n this._cancelTaskCurrZone
=\n zoneSpec && (zoneSpec.onCancelTask ? this.zone : parentDelegate.zone);\n this._hasTaskZS =
null;\n this._hasTaskDlgt = null;\n this._hasTaskDlgtOwner = null;\n this._hasTaskCurrZone =
null;\n var zoneSpecHasTask = zoneSpec && zoneSpec.onHasTask;\n var parentHasTask =
parentDelegate && parentDelegate._hasTaskZS;\n if (zoneSpecHasTask || parentHasTask) {\n // If
we need to report hasTask, than this ZS needs to do ref counting on tasks. In such\n // a case all task related
interceptors must go through this ZD. We can't short circuit it.\n this._hasTaskZS = zoneSpecHasTask ?
zoneSpec : DELEGATE_ZS;\n this._hasTaskDlgt = parentDelegate;\n this._hasTaskDlgtOwner =
this;\n this._hasTaskCurrZone = zone;\n if (!zoneSpec.onScheduleTask) {\n
this._scheduleTaskZS = DELEGATE_ZS;\n this._scheduleTaskDlgt = parentDelegate;\n
this._scheduleTaskCurrZone = this.zone;\n }\n if (!zoneSpec.onInvokeTask) {\n
this._invokeTaskZS = DELEGATE_ZS;\n this._invokeTaskDlgt = parentDelegate;\n
this._invokeTaskCurrZone = this.zone;\n }\n if (!zoneSpec.onCancelTask) {\n
this._cancelTaskZS = DELEGATE_ZS;\n this._cancelTaskDlgt = parentDelegate;\n
this._cancelTaskCurrZone = this.zone;\n }\n }\n }\n ZoneDelegate.prototype.fork =
function (targetZone, zoneSpec) {\n return this._forkZS ? this._forkZS.onFork(this._forkDlgt, this.zone,
targetZone, zoneSpec) :\n new Zone(targetZone, zoneSpec);\n };\n ZoneDelegate.prototype.intercept = function (targetZone, callback, source) {\n return this._interceptZS ?\n this._interceptZS.onIntercept(this._interceptDlgt, this._interceptCurrZone, targetZone, callback, source) :\n callback;\n };\n ZoneDelegate.prototype.invoke = function (targetZone, callback, applyThis,
applyArgs, source) {\n return this._invokeZS ?\n this._invokeZS.onInvoke(this._invokeDlgt,
this._invokeCurrZone, targetZone, callback, applyThis, applyArgs, source) :\n callback.apply(applyThis,
applyArgs);\n };\n ZoneDelegate.prototype.handleError = function (targetZone, error) {\n return
this._handleErrorZS ?\n this._handleErrorZS.onHandleError(this._handleErrorDlgt,
this._handleErrorCurrZone, targetZone, error) :\n true;\n };\n

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ZoneDelegate.prototype.scheduleTask = function (targetZone, task) {\n var returnTask = task;\n if\n (this._scheduleTaskZS) {\n if (this._hasTaskZS) {\n returnTask._zoneDelegates.push(this._hasTaskDlgtOwner);\n }\n returnTask =\n this._scheduleTaskZS.onScheduleTask(this._scheduleTaskDlgt, this._scheduleTaskCurrZone, targetZone, task);\n if (!returnTask)\n returnTask = task;\n }\n else {\n if (task.scheduleFn) {\n task.scheduleFn(task);\n }\n else if (task.type == microTask) {\n scheduleMicroTask(task);\n }\n else {\n throw new Error("Task is missing\n scheduleFn.");\n }\n }\n return returnTask;\n };\n\nZoneDelegate.prototype.invokeTask = function (targetZone, task, applyThis, applyArgs) {\n return\n this._invokeTaskZS ?\n this._invokeTaskZS.onInvokeTask(this._invokeTaskDlgt,\n this._invokeTaskCurrZone, targetZone, task, applyThis, applyArgs) :\n task.callback.apply(applyThis,\n applyArgs);\n };\n\nZoneDelegate.prototype.cancelTask = function (targetZone, task) {\n var value;\n if (this._cancelTaskZS) {\n value = this._cancelTaskZS.onCancelTask(this._cancelTaskDlgt,\n this._cancelTaskCurrZone, targetZone, task);\n }\n else {\n if (!task.cancelFn) {\n throw Error("Task is not cancelable");\n }\n value = task.cancelFn(task);\n }\n return\n value;\n };\n\nZoneDelegate.prototype.hasTask = function (targetZone, isEmpty) {\n // hasTask\n should not throw error so other ZoneDelegate\n // can still trigger hasTask callback\n try {\n return this._hasTaskZS &&\n this._hasTaskZS.onHasTask(this._hasTaskDlgt, this._hasTaskCurrZone,\n targetZone, isEmpty);\n }\n catch (err) {\n this.handleError(targetZone, err);\n }\n };\n\nZoneDelegate.prototype._updateTaskCount = function (type, count) {\n var counts =\n this._taskCounts;\n var prev = counts[type];\n var next = counts[type] = prev + count;\n if (next\n < 0) {\n throw new Error("More tasks executed then were scheduled.");\n }\n if (prev == 0 ||\n next == 0) {\n var isEmpty = {\n microTask: counts['microTask'] > 0,\n macroTask: counts['macroTask'] > 0,\n eventTask: counts['eventTask'] > 0,\n change: type\n };\n this.hasTask(this.zone, isEmpty);\n }\n };\n return ZoneDelegate;\n }();\n\nvar ZoneTask = /** @class */ (function () {\n function ZoneTask(type, source, callback, options, scheduleFn,\n cancelFn) {\n this._zone = null;\n this.runCount = 0;\n this._zoneDelegates = null;\n this._state = 'notScheduled';\n this.type = type;\n this.source = source;\n this.data = options;\n this.scheduleFn = scheduleFn;\n this.cancelFn = cancelFn;\n this.callback = callback;\n var\n self = this;\n // TODO: @JiaLiPassion options should have interface\n if (type === eventTask &&\n options && options.useG) {\n this.invoke = ZoneTask.invokeTask;\n }\n else {\n this.invoke = function () {\n return ZoneTask.invokeTask.call(global, self, this, arguments);\n };\n }\n }\n ZoneTask.invokeTask = function (task, target, args) {\n if (!task) {\n task = this;\n }\n _numberOfNestedTaskFrames++;\n try {\n task.runCount++;\n return task.zone.runTask(task, target, args);\n }\n finally {\n if\n (_numberOfNestedTaskFrames == 1) {\n drainMicroTaskQueue();\n }\n _numberOfNestedTaskFrames--;\n }\n };\n Object.defineProperty(ZoneTask.prototype, "zone", {\n get: function () {\n return this._zone;\n },\n enumerable: true,\n configurable:\n true\n });\n Object.defineProperty(ZoneTask.prototype, "state", {\n get: function () {\n return this._state;\n },\n enumerable: true,\n configurable: true\n });\n\nZoneTask.prototype.cancelScheduleRequest = function () {\n this._transitionTo(notScheduled, scheduling);\n };\n ZoneTask.prototype._transitionTo = function (toState, fromState1, fromState2) {\n if (this._state\n === fromState1 || this._state === fromState2) {\n this._state = toState;\n if (toState ==\n notScheduled) {\n this._zoneDelegates = null;\n }\n }\n else {\n throw\n new Error(this.type + " " + this.source + "": can not transition to " + toState + "\", expecting state " + fromState1\n + " or " + (fromState2 ?\n ' or "' + fromState2 + '"' :\n "") + "\", was " + this._state + "");\n }\n };\n ZoneTask.prototype.toString = function () {\n if (this.data && typeof this.data.handleId\n !== 'undefined') {\n return this.data.handleId;\n }\n else {\n return\n }

```



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rejection instanceof Error ? rejection.message : rejection, ', Zone:', e.zone.name, ', Task:', e.task && e.task.source, ',
Value:', rejection, rejection instanceof Error ? rejection.stack : undefined);\n }\n else {\n
console.error(e);\n }\n });\n api.microtaskDrainDone = function () {\n while
(_uncaughtPromiseErrors.length) {\n var _loop_1 = function () {\n var uncaughtPromiseError =
_uncaughtPromiseErrors.shift();\n try {\n uncaughtPromiseError.zone.runGuarded(function ()
{\n throw uncaughtPromiseError;\n });\n }\n catch (error) {\n
handleUnhandledRejection(error);\n }\n };\n while (_uncaughtPromiseErrors.length) {\n
_loop_1();\n }\n };\n var UNHANDLED_PROMISE_REJECTION_HANDLER_SYMBOL
= __symbol__('unhandledPromiseRejectionHandler');\n function handleUnhandledRejection(e) {\n
api.onUnhandledError(e);\n try {\n var handler =
Zone[UNHANDLED_PROMISE_REJECTION_HANDLER_SYMBOL];\n if (handler && typeof handler
=== 'function') {\n handler.call(this, e);\n }\n } catch (err) {\n }\n } function
isThenable(value) {\n return value && value.then;\n } function forwardResolution(value) {\n return
value;\n } function forwardRejection(rejection) {\n return ZoneAwarePromise.reject(rejection);\n }\n
var symbolState = __symbol__('state');\n var symbolValue = __symbol__('value');\n var symbolFinally =
__symbol__('finally');\n var symbolParentPromiseValue = __symbol__('parentPromiseValue');\n var
symbolParentPromiseState = __symbol__('parentPromiseState');\n var source = 'Promise.then';\n var
UNRESOLVED = null;\n var RESOLVED = true;\n var REJECTED = false;\n var REJECTED_NO_CATCH
= 0;\n function makeResolver(promise, state) {\n return function (v) {\n try {\n
resolvePromise(promise, state, v);\n }\n catch (err) {\n resolvePromise(promise, false, err);\n
 }\n // Do not return value or you will break the Promise spec.\n };\n } var once = function ()
{\n var wasCalled = false;\n return function wrapper(wrapperFunction) {\n return function () {\n
 if (wasCalled) {\n return;\n }\n wasCalled = true;\n
 wrapperFunction.apply(null, arguments);\n };\n };\n } var TYPE_ERROR = 'Promise resolved
with itself';\n var CURRENT_TASK_TRACE_SYMBOL = __symbol__('currentTaskTrace');\n // Promise
Resolution\n function resolvePromise(promise, state, value) {\n var onceWrapper = once();\n if (promise
=== value) {\n throw new TypeError(TYPE_ERROR);\n }\n if (promise[symbolState] ===
UNRESOLVED) {\n // should only get value.then once based on promise spec.\n var then = null;\n
 try {\n if (typeof value === 'object' || typeof value === 'function') {\n then = value &&
value.then;\n }\n } catch (err) {\n onceWrapper(function () {\n
 resolvePromise(promise, false, err);\n })();\n return promise;\n }\n // if (value
instanceof ZoneAwarePromise) {\n if (state !== REJECTED && value instanceof ZoneAwarePromise && \n
 value.hasOwnProperty(symbolState) && value.hasOwnProperty(symbolValue) && \n
 value[symbolState] !== UNRESOLVED) {\n clearRejectedNoCatch(value);\n
 resolvePromise(promise, value[symbolState], value[symbolValue]);\n }\n else if (state !==
REJECTED && typeof then === 'function') {\n try {\n then.call(value,
onceWrapper(makeResolver(promise, state)), onceWrapper(makeResolver(promise, false))); \n }\n catch (err) {\n
 onceWrapper(function () {\n resolvePromise(promise, false, err);\n
 })();\n }\n }\n else {\n promise[symbolState] = state;\n var queue =
promise[symbolValue];\n promise[symbolValue] = value;\n if (promise[symbolFinally] ===
symbolFinally) {\n // the promise is generated by Promise.prototype.finally\n \n if (state
=== RESOLVED) {\n // the state is resolved, should ignore the value\n // and use
parent promise value\n promise[symbolState] = promise[symbolParentPromiseState];\n
 promise[symbolValue] = promise[symbolParentPromiseValue];\n }\n }\n // record
task information in value when error occurs, so we can\n // do some additional work such as render
longStackTrace\n if (state === REJECTED && value instanceof Error) {\n // check if
longStackTraceZone is here\n var trace = Zone.currentTask && Zone.currentTask.data && \n
 Zone.currentTask.data[creationTrace];\n if (trace) {\n // only keep the long stack trace

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into error when in longStackTraceZone\n
 Object.defineProperty(value,
CURRENT_TASK_TRACE_SYMBOL, { configurable: true, enumerable: false, writable: true, value: trace });\n
 }\n }\n for (var i = 0; i < queue.length;) {\n
scheduleResolveOrReject(promise, queue[i++], queue[i++], queue[i++], queue[i++]);\n }\n if
(queue.length == 0 && state == REJECTED) {\n promise[symbolState] = REJECTED_NO_CATCH;\n
 try {\n // try to print more readable error log\n throw new Error("Uncaught (in
promise): ' + readableObjectToString(value) +\n (value && value.stack ? '\\n' + value.stack : ''));\n
 }\n catch (err) {\n var error_1 = err;\n error_1.rejection = value;\n
 error_1.promise = promise;\n error_1.zone = Zone.current;\n error_1.task
= Zone.currentTask;\n _uncaughtPromiseErrors.push(error_1);\n
api.scheduleMicroTask(); // to make sure that it is running\n }\n }\n }\n }\n //
Resolving an already resolved promise is a noop.\n return promise;\n }\n var
REJECTION_HANDLED_HANDLER = __symbol__('rejectionHandledHandler');\n function
clearRejectedNoCatch(promise) {\n if (promise[symbolState] === REJECTED_NO_CATCH) {\n // if
the promise is rejected no catch status\n // and queue.length > 0, means there is a error handler\n //
here to handle the rejected promise, we should trigger\n // windows.rejectionhandled eventHandler or nodejs
rejectionHandled\n // eventHandler\n try {\n var handler =
Zone[REJECTION_HANDLED_HANDLER];\n if (handler && typeof handler === 'function') {\n
 handler.call(this, { rejection: promise[symbolValue], promise: promise });\n }\n }\n catch
(err) {\n }\n promise[symbolState] = REJECTED;\n for (var i = 0; i <
_uncaughtPromiseErrors.length; i++) {\n if (promise === _uncaughtPromiseErrors[i].promise) {\n
 _uncaughtPromiseErrors.splice(i, 1);\n }\n }\n }\n }\n function
scheduleResolveOrReject(promise, zone, chainPromise, onFulfilled, onRejected) {\n
clearRejectedNoCatch(promise);\n var promiseState = promise[symbolState];\n var delegate = promiseState
?\n (typeof onFulfilled === 'function') ? onFulfilled : forwardResolution :\n (typeof onRejected ===
'function') ? onRejected : forwardRejection;\n zone.scheduleMicroTask(source, function () {\n try {\n
 var parentPromiseValue = promise[symbolValue];\n var isFinallyPromise = chainPromise &&
symbolFinally === chainPromise[symbolFinally];\n if (isFinallyPromise) {\n // if the promise
is generated from finally call, keep parent promise's state and value\n
chainPromise[symbolParentPromiseValue] = parentPromiseValue;\n
chainPromise[symbolParentPromiseState] = promiseState;\n }\n // should not pass value to finally
callback\n var value = zone.run(delegate, undefined, isFinallyPromise && delegate !== forwardRejection
&& delegate !== forwardResolution ? [] : [parentPromiseValue]);\n resolvePromise(chainPromise, true,
value);\n }\n catch (error) {\n // if error occurs, should always return this error\n
resolvePromise(chainPromise, false, error);\n }\n }, chainPromise);\n }\n var
ZONE_AWARE_PROMISE_TO_STRING = 'function ZoneAwarePromise() { [native code] }';\n var
ZoneAwarePromise = /** @class */ (function () {\n function ZoneAwarePromise(executor) {\n var
promise = this;\n if (!(promise instanceof ZoneAwarePromise)) {\n throw new Error('Must be an
instanceof Promise.');

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 (promise = null || reject(error));\n }\n for (var _i = 0, values_1 = values; _i < values_1.length; _i++) {\n
 var value = values_1[_i];\n if (!isThenable(value)) {\n value = this.resolve(value);\n
 }\n value.then(onResolve, onReject);\n }\n return promise;\n };\n
ZoneAwarePromise.all = function (values) {\n var resolve;\n var reject;\n var promise = new
this(function (res, rej) {\n resolve = res;\n reject = rej;\n });\n var count = 0;\n
var resolvedValues = [];\n for (var _i = 0, values_2 = values; _i < values_2.length; _i++) {\n var
value = values_2[_i];\n if (!isThenable(value)) {\n value = this.resolve(value);\n }\n
 value.then((function (index) { return function (value) {\n resolvedValues[index] = value;\n
 count--;\n if (!count) {\n resolve(resolvedValues);\n }\n });
 })(count), reject);\n count++;\n }\n if (!count)\n resolve(resolvedValues);\n
return promise;\n };\n ZoneAwarePromise.prototype.then = function (onFulfilled, onRejected) {\n
var chainPromise = new this.constructor(null);\n var zone = Zone.current;\n if (this[symbolState] ==
UNRESOLVED) {\n this[symbolValue].push(zone, chainPromise, onFulfilled, onRejected);\n }\n
 else {\n scheduleResolveOrReject(this, zone, chainPromise, onFulfilled, onRejected);\n }\n
 return chainPromise;\n };\n ZoneAwarePromise.prototype.catch = function (onRejected) {\n return
this.then(null, onRejected);\n };\n ZoneAwarePromise.prototype.finally = function (onFinally) {\n
var chainPromise = new this.constructor(null);\n chainPromise[symbolFinally] = symbolFinally;\n var
zone = Zone.current;\n if (this[symbolState] == UNRESOLVED) {\n this[symbolValue].push(zone,
chainPromise, onFinally, onFinally);\n }\n else {\n scheduleResolveOrReject(this, zone,
chainPromise, onFinally, onFinally);\n }\n return chainPromise;\n };\n return
ZoneAwarePromise;\n }());\n // Protect against aggressive optimizers dropping seemingly unused properties.\n
// E.g. Closure Compiler in advanced mode.\n ZoneAwarePromise['resolve'] = ZoneAwarePromise.resolve;\n
ZoneAwarePromise['reject'] = ZoneAwarePromise.reject;\n ZoneAwarePromise['race'] =
ZoneAwarePromise.race;\n ZoneAwarePromise['all'] = ZoneAwarePromise.all;\n var NativePromise =
global[symbolPromise] = global['Promise'];\n var ZONE_AWARE_PROMISE =
Zone.__symbol__('ZoneAwarePromise');\n var desc = Object.getOwnPropertyDescriptor(global, 'Promise');\n if
(!desc || desc.configurable) {\n desc && delete desc.writable;\n desc && delete desc.value;\n if (!desc)
{\n desc = { configurable: true, enumerable: true };\n }\n desc.get = function () {\n // if we
already set ZoneAwarePromise, use patched one\n // otherwise return native one.\n return
global[ZONE_AWARE_PROMISE] ? global[ZONE_AWARE_PROMISE] : global[symbolPromise];\n };\n
 desc.set = function (NewNativePromise) {\n if (NewNativePromise === ZoneAwarePromise) {\n //
if the NewNativePromise is ZoneAwarePromise\n // save to global\n
global[ZONE_AWARE_PROMISE] = NewNativePromise;\n }\n else {\n // if the
NewNativePromise is not ZoneAwarePromise\n // for example: after load zone.js, some library just\n
// set es6-promise to global, if we set it to global\n // directly, assertZonePatched will fail and angular\n
// will not loaded, so we just set the NewNativePromise\n // to global[symbolPromise], so the result
is just like\n // we load ES6 Promise before zone.js\n global[symbolPromise] =
NewNativePromise;\n }\n if (!NewNativePromise.prototype[symbolThen]) {\n
patchThen(NewNativePromise);\n }\n api.setNativePromise(NewNativePromise);\n }\n
 };\n Object.defineProperty(global, 'Promise', desc);\n global['Promise'] = ZoneAwarePromise;\n var
symbolThenPatched = __symbol__('thenPatched');\n function patchThen(Ctor) {\n var proto =
Ctor.prototype;\n var prop = Object.getOwnPropertyDescriptor(proto, 'then');\n if (prop && (prop.writable
=== false || !prop.configurable)) {\n // check Ctor.prototype.then propertyDescriptor is writable or not\n
// in meteor env, writable is false, we should ignore such case\n return;\n }\n var originalThen =
proto.then;\n // Keep a reference to the original method.\n proto[symbolThen] = originalThen;\n
Ctor.prototype.then = function (onResolve, onReject) {\n var _this = this;\n var wrapped = new
ZoneAwarePromise(function (resolve, reject) {\n originalThen.call(_this, resolve, reject);\n });\n
 return wrapped.then(onResolve, onReject);\n };\n Ctor[symbolThenPatched] = true;\n }\n function

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zoneify(fn) {\n return function () {\n var resultPromise = fn.apply(this, arguments);\n if
(resultPromise instanceof ZoneAwarePromise) {\n return resultPromise;\n }\n var ctor =
resultPromise.constructor;\n if (!ctor[symbolThenPatched]) {\n patchThen(ctor);\n }\n
return resultPromise;\n };\n }\n if (NativePromise) {\n patchThen(NativePromise);\n var fetch_1 =
global['fetch'];\n if (typeof fetch_1 === 'function') {\n global['fetch'] = zoneify(fetch_1);\n }\n }\n
// This is not part of public API, but it is useful for tests, so we expose it.\n
Promise[Zone.__symbol__('uncaughtPromiseErrors')] = _uncaughtPromiseErrors;\n return
ZoneAwarePromise;\n});\n\n/**\n * @license\n * Copyright Google Inc. All Rights Reserved.\n *\n * Use of this
source code is governed by an MIT-style license that can be\n * found in the LICENSE file at
https://angular.io/license\n */\n\n * Suppress closure compiler errors about unknown 'Zone' variable\n *
@fileoverview\n * @suppress {undefinedVars,globalThis,missingRequire}\n */\n\n // issue #989, to reduce bundle
size, use short name\n\n /**\n * Object.getOwnPropertyDescriptor\n */\n\n var ObjectGetOwnPropertyDescriptor =
Object.getOwnPropertyDescriptor;\n\n /**\n * Object.defineProperty\n */\n\n var ObjectDefineProperty =
Object.defineProperty;\n\n /**\n * Object.getPrototypeOf\n */\n\n var ObjectGetPrototypeOf = Object.getPrototypeOf;\n\n /**\n * Object.create\n */\n\n var ObjectCreate = Object.create;\n\n /**\n * Array.prototype.slice\n */\n\n var ArraySlice =
Array.prototype.slice;\n\n /**\n * addEventListener string const\n */\n\n var ADD_EVENT_LISTENER_STR =
'addEventListener';\n\n /**\n * removeEventListener string const\n */\n\n var REMOVE_EVENT_LISTENER_STR =
'removeEventListener';\n\n /**\n * zoneSymbol addEventListener\n */\n\n var ZONE_SYMBOL_ADD_EVENT_LISTENER
= Zone.__symbol__(ADD_EVENT_LISTENER_STR);\n\n /**\n * zoneSymbol removeEventListener\n */\n\n var
ZONE_SYMBOL_REMOVE_EVENT_LISTENER =
Zone.__symbol__(REMOVE_EVENT_LISTENER_STR);\n\n /**\n * true string const\n */\n\n var TRUE_STR = 'true';\n\n /**\n *
false string const\n */\n\n var FALSE_STR = 'false';\n\n /**\n * __zone_symbol__ string const\n */\n\n var
ZONE_SYMBOL_PREFIX = '__zone_symbol__';\n\n function wrapWithCurrentZone(callback, source) {\n return
Zone.current.wrap(callback, source);\n }\n\n function scheduleMacroTaskWithCurrentZone(source, callback, data,
customSchedule, customCancel) {\n return Zone.current.scheduleMacroTask(source, callback, data,
customSchedule, customCancel);\n }\n\n var zoneSymbol = Zone.__symbol__;\n\n var isWindowExists = typeof window
!== 'undefined';\n\n var internalWindow = isWindowExists ? window : undefined;\n\n var _global = isWindowExists &&
internalWindow || typeof self === 'object' && self || global;\n\n var REMOVE_ATTRIBUTE = 'removeAttribute';\n\n var
NULL_ON_PROP_VALUE = [null];\n\n function bindArguments(args, source) {\n for (var i = args.length - 1; i >=
0; i--) {\n if (typeof args[i] === 'function') {\n args[i] = wrapWithCurrentZone(args[i], source + '_' + i);\n }\n }\n return args;\n }\n\n function patchPrototype(prototype, fnNames) {\n var source =
prototype.constructor['name'];\n var _loop_1 = function (i) {\n var name_1 = fnNames[i];\n var delegate =
prototype[name_1];\n if (delegate) {\n var prototypeDesc = ObjectGetOwnPropertyDescriptor(prototype,
name_1);\n if (!isPropertyWritable(prototypeDesc)) {\n return \"continue\";\n }\n
prototype[name_1] = (function (delegate) {\n var patched = function () {\n return
delegate.apply(this, bindArguments(arguments, source + '.' + name_1));\n };\n return
attachOriginToPatched(patched, delegate);\n })(delegate);\n }\n }; \n for
(var i = 0; i < fnNames.length; i++) {\n _loop_1(i);\n }\n }\n\n function isPropertyWritable(propertyDesc) {\n
return !!(propertyDesc) {\n return true;\n } \n if (propertyDesc.writable === false) {\n return false;\n }\n
return !(typeof propertyDesc.get === 'function' && typeof propertyDesc.set === 'undefined');\n }\n\n var isWebWorker
= (typeof WorkerGlobalScope !== 'undefined' && self instanceof WorkerGlobalScope);\n\n // Make sure to access
`process` through `_global` so that WebPack does not accidentally browserify\n\n // this code.\n\n var isNode = (!('nw' in
_global) && typeof _global.process !== 'undefined' && \n {}).toString.call(_global.process) === '[object
process]');\n\n var isBrowser = !isNode && !isWebWorker && !(isWindowExists &&
internalWindow['HTMLInputElement']);\n\n // we are in electron of nw, so we are both browser and nodejs\n\n // Make sure to
access `process` through `_global` so that WebPack does not accidentally browserify\n\n // this code.\n\n var isMix =
typeof _global.process !== 'undefined' && \n {}).toString.call(_global.process) === '[object process]' &&
!isWebWorker && \n !(isWindowExists && internalWindow['HTMLInputElement']);\n\n var zoneSymbolEventNames =

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};\nvar wrapFn = function (event) {\n // https://github.com/angular/zone.js/issues/911, in IE, sometimes\n // event will be undefined, so we need to use window.event\n event = event || _global.event;\n if (!event) {\n return;\n }\n var eventNameSymbol = zoneSymbolEventNames[event.type];\n if (!eventNameSymbol) {\n eventNameSymbol = zoneSymbolEventNames[event.type] = zoneSymbol('ON_PROPERTY' + event.type);\n }\n var target = this || event.target || _global;\n var listener = target[eventNameSymbol];\n var result = listener && listener.apply(this, arguments);\n if (result !== undefined && !result) {\n event.preventDefault();\n }\n return result;\n};\nfunction patchProperty(obj, prop, prototype) {\n var desc = ObjectGetOwnPropertyDescriptor(obj, prop);\n if (!desc && prototype) {\n // when patch window object, use prototype to check prop exist or not\n var prototypeDesc = ObjectGetOwnPropertyDescriptor(prototype, prop);\n if (prototypeDesc) {\n desc = { enumerable: true, configurable: true }; \n } \n } \n // if the descriptor not exists or is not configurable\n // just return\n if (!desc || !desc.configurable) {\n return;\n }\n // A property descriptor cannot have getter/setter and be writable\n // deleting the writable and value properties avoids this error:\n // TypeError: property descriptors must not specify a value or be writable when a\n // getter or setter has been specified\n delete desc.writable;\n delete desc.value;\n var originalDescGet = desc.get;\n var originalDescSet = desc.set;\n // substr(2) cuz 'onclick' -> 'click', etc\n var eventName = prop.substr(2);\n var eventNameSymbol = zoneSymbolEventNames[eventName];\n if (!eventNameSymbol) {\n eventNameSymbol = zoneSymbolEventNames[eventName] = zoneSymbol('ON_PROPERTY' + eventName);\n }\n desc.set = function (newValue) {\n // in some of windows's onproperty callback, this is undefined\n // so we need to check it\n var target = this;\n if (!target && obj === _global) {\n target = _global;\n }\n if (!target) {\n return;\n }\n var previousValue = target[eventNameSymbol];\n if (previousValue) {\n target.removeEventListener(eventName, wrapFn);\n } \n // issue #978, when onload handler was added before loading zone.js\n // we should remove it with originalDescSet\n if (originalDescSet) {\n originalDescSet.apply(target, NULL_ON_PROP_VALUE);\n }\n if (typeof newValue === 'function') {\n target[eventNameSymbol] = newValue;\n target.addEventListener(eventName, wrapFn, false);\n } \n else {\n target[eventNameSymbol] = null;\n } \n }; \n // The getter would return undefined for unassigned properties but the default value of an\n // unassigned property is null\n desc.get = function () {\n // in some of windows's onproperty callback, this is undefined\n // so we need to check it\n var target = this;\n if (!target && obj === _global) {\n target = _global;\n }\n if (!target) {\n return null;\n }\n var listener = target[eventNameSymbol];\n if (listener) {\n return listener;\n } \n else if (originalDescGet) {\n // result will be null when use inline event attribute,\n // such as <button\n onclick=\"func()\">OK</button>\n // because the onclick function is internal raw uncompiled handler\n // the onclick will be evaluated when first time event was triggered or\n // the property is accessed,\n // https://github.com/angular/zone.js/issues/525\n // so we should use original native get to retrieve the handler\n var value = originalDescGet && originalDescGet.call(this);\n if (value) {\n desc.set.call(this, value);\n if (typeof target[REMOVE_ATTRIBUTE] === 'function') {\n target.removeAttribute(prop);\n } \n return value;\n } \n } \n return null;\n }; \n Object.defineProperty(obj, prop, desc);\n}\nfunction patchOnProperties(obj, properties, prototype) {\n if (properties) {\n for (var i = 0; i < properties.length; i++) {\n patchProperty(obj, 'on' + properties[i], prototype);\n } \n } \n else {\n var onProperties = [];\n for (var prop in obj) {\n if (prop.substr(0, 2) === 'on') {\n onProperties.push(prop);\n } \n } \n for (var j = 0; j < onProperties.length; j++) {\n patchProperty(obj, onProperties[j], prototype);\n } \n } \n }\nvar originalInstanceKey = zoneSymbol('originalInstance');\n// wrap some native API on `window`\nfunction patchClass(className) {\n var OriginalClass = _global[className];\n if (!OriginalClass)\n return;\n // keep original class in global\n _global[zoneSymbol(className)] = OriginalClass;\n _global[className] = function () {\n var a = bindArguments(arguments, className);\n switch (a.length) {\n case 0:\n this[originalInstanceKey] = new OriginalClass();\n break;\n case 1:\n this[originalInstanceKey] = new OriginalClass(a[0]);\n break;\n case 2:\n

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this[ORIGINAL_DELEGATE_SYMBOL];\n if (originalDelegate) {\n if (typeof originalDelegate\n === 'function') {\n return originalFunctionToString.apply(this[ORIGINAL_DELEGATE_SYMBOL],\n arguments);\n }\n else {\n return Object.prototype.toString.call(originalDelegate);\n }\n }\n if (this === Promise) {\n var nativePromise = global[PROMISE_SYMBOL];\n if (nativePromise) {\n return originalFunctionToString.apply(nativePromise, arguments);\n }\n }\n if (this === Error) {\n var nativeError = global[ERROR_SYMBOL];\n if\n (nativeError) {\n return originalFunctionToString.apply(nativeError, arguments);\n }\n }\n return originalFunctionToString.apply(this, arguments);\n };\n\nnewFunctionToString[ORIGINAL_DELEGATE_SYMBOL] = originalFunctionToString;\nFunction.prototype.toString = newFunctionToString;\n // patch Object.prototype.toString to let them look like\nnative\n var originalObjectToString = Object.prototype.toString;\n var PROMISE_OBJECT_TO_STRING =\n '[object Promise]';\n Object.prototype.toString = function () {\n if (this instanceof Promise) {\n return\n PROMISE_OBJECT_TO_STRING;\n }\n return originalObjectToString.apply(this, arguments);\n }\n};\n\n**\n * @license\n * Copyright Google Inc. All Rights Reserved.\n * \n * Use of this source code is\n governed by an MIT-style license that can be\n * found in the LICENSE file at https://angular.io/license\n * \n**\n * @fileoverview\n * @suppress {missingRequire}\n * \n// an identifier to tell ZoneTask do not create a new invoke\n closure\nvar OPTIMIZED_ZONE_EVENT_TASK_DATA = {\n useG: true\n};\nvar zoneSymbolEventNames$1\n = {};\nvar globalSources = {};\nvar EVENT_NAME_SYMBOL_REGX =\n /^__zone_symbol__(\\w+)(true|false)$/;\nvar IMMEDIATE_PROPAGATION_SYMBOL =\n ('__zone_symbol__propagationStopped');\nfunction patchEventTarget(_global, apis, patchOptions) {\n var\n ADD_EVENT_LISTENER = (patchOptions && patchOptions.add) || ADD_EVENT_LISTENER_STR;\n var\n REMOVE_EVENT_LISTENER = (patchOptions && patchOptions.rm) || REMOVE_EVENT_LISTENER_STR;\n var\n LISTENERS_EVENT_LISTENER = (patchOptions && patchOptions.listeners) || 'eventListeners';\n var\n REMOVE_ALL_LISTENERS_EVENT_LISTENER = (patchOptions && patchOptions.rmAll) ||\n 'removeAllListeners';\n var\n zoneSymbolAddEventListener = zoneSymbol(ADD_EVENT_LISTENER);\n var\n ADD_EVENT_LISTENER_SOURCE = ' ' + ADD_EVENT_LISTENER + ' ';\n var\n PREPEND_EVENT_LISTENER = 'prependListener';\n var\n PREPEND_EVENT_LISTENER_SOURCE = ' ' +\n PREPEND_EVENT_LISTENER + ' ';\n var\n invokeTask = function (task, target, event) {\n // for better\n performance, check isRemoved which is set\n // by removeEventListener\n if (task.isRemoved) {\n return;\n }\n var\n delegate = task.callback;\n if (typeof delegate === 'object' && delegate.handleEvent)\n {\n // create the bind version of handleEvent when invoke\n task.callback = function (event) {\n return\n delegate.handleEvent(event); }\n task.originalDelegate = delegate;\n }\n // invoke static\n task.invoke\n task.invoke(task, target, [event]);\n var\n options = task.options;\n if (options && typeof\n options === 'object' && options.once) {\n // if options.once is true, after invoke once remove listener here\n // only browser need to do this, nodejs eventEmitter will cal removeListener\n // inside\n EventEmitter.once\n var\n delegate_1 = task.originalDelegate ? task.originalDelegate : task.callback;\n target[REMOVE_EVENT_LISTENER].call(target, event.type, delegate_1, options);\n }\n }; \n // global\n shared zoneAwareCallback to handle all event callback with capture = false\n var\n globalZoneAwareCallback =\n function (event) {\n // https://github.com/angular/zone.js/issues/911, in IE, sometimes\n // event will be\n undefined, so we need to use window.event\n event = event || _global.event;\n if (!event) {\n return;\n }\n // event.target is needed for Samsung TV and SourceBuffer\n // || global is needed\n https://github.com/angular/zone.js/issues/190\n var\n target = this || event.target || _global;\n var\n tasks =\n target[zoneSymbolEventNames$1[event.type][FALSE_STR]];\n if (tasks) {\n // invoke all tasks which\n attached to current target with given event.type and capture = false\n // for performance concern, if\n task.length === 1, just invoke\n if (tasks.length === 1) {\n invokeTask(tasks[0], target, event);\n }\n else {\n // https://github.com/angular/zone.js/issues/836\n // copy the tasks array\n before invoke, to avoid\n // the callback will remove itself or other listener\n var\n copyTasks =\n tasks.slice();\n for (var\n i = 0; i < copyTasks.length; i++) {\n if (event &&

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event[IMMEDIATE_PROPAGATION_SYMBOL] === true) {\n break;\n }\n
invokeTask(copyTasks[i], target, event);\n }\n }\n };\n // global shared
zoneAwareCallback to handle all event callback with capture = true\n var globalZoneAwareCaptureCallback =
function (event) {\n // https://github.com/angular/zone.js/issues/911, in IE, sometimes\n // event will be
undefined, so we need to use window.event\n event = event || _global.event;\n if (!event) {\n
return;\n }\n // event.target is needed for Samsung TV and SourceBuffer\n // || global is needed
https://github.com/angular/zone.js/issues/190\n var target = this || event.target || _global;\n var tasks =
target[zoneSymbolEventNames$1[event.type][TRUE_STR]];\n if (tasks) {\n // invoke all tasks which
attached to current target with given event.type and capture = false\n // for performance concern, if
task.length === 1, just invoke\n if (tasks.length === 1) {\n invokeTask(tasks[0], target, event);\n
}\n else {\n // https://github.com/angular/zone.js/issues/836\n // copy the tasks array
before invoke, to avoid\n // the callback will remove itself or other listener\n var copyTasks =
tasks.slice();\n for (var i = 0; i < copyTasks.length; i++) {\n if (event &&
event[IMMEDIATE_PROPAGATION_SYMBOL] === true) {\n break;\n }\n
invokeTask(copyTasks[i], target, event);\n }\n }\n }\n };\n function
patchEventTargetMethods(obj, patchOptions) {\n if (!obj) {\n return false;\n }\n var
useGlobalCallback = true;\n if (patchOptions && patchOptions.useG !== undefined) {\n
useGlobalCallback = patchOptions.useG;\n }\n var validateHandler = patchOptions && patchOptions.vh;\n
var checkDuplicate = true;\n if (patchOptions && patchOptions.chkDup !== undefined) {\n
checkDuplicate = patchOptions.chkDup;\n }\n var returnTarget = false;\n if (patchOptions &&
patchOptions.rt !== undefined) {\n returnTarget = patchOptions.rt;\n }\n var proto = obj;\n
while (proto && !proto.hasOwnProperty(ADD_EVENT_LISTENER)) {\n proto =
ObjectGetPrototypeOf(proto);\n }\n if (!proto && obj[ADD_EVENT_LISTENER]) {\n // somehow
we did not find it, but we can see it. This happens on IE for Window properties.\n proto = obj;\n }\n
if (!proto) {\n return false;\n }\n if (proto[zoneSymbolAddEventListener]) {\n return false;\n
}\n // a shared global taskData to pass data for scheduleEventTask\n // so we do not need to create a new
object just for pass some data\n var taskData = {};\n var nativeAddEventListener =
proto[zoneSymbolAddEventListener] = proto[ADD_EVENT_LISTENER];\n var nativeRemoveEventListener
= proto[zoneSymbol(REMOVE_EVENT_LISTENER)] =\n proto[REMOVE_EVENT_LISTENER];\n
var nativeListeners = proto[zoneSymbol(LISTENERS_EVENT_LISTENER)] =\n
proto[LISTENERS_EVENT_LISTENER];\n var nativeRemoveAllListeners =
proto[zoneSymbol(REMOVE_ALL_LISTENERS_EVENT_LISTENER)] =\n
proto[REMOVE_ALL_LISTENERS_EVENT_LISTENER];\n var nativePrependEventListener;\n if
(patchOptions && patchOptions.prepend) {\n nativePrependEventListener =
proto[zoneSymbol(patchOptions.prepend)] =\n proto[patchOptions.prepend];\n }\n var
customScheduleGlobal = function () {\n // if there is already a task for the eventName + capture,\n //
just return, because we use the shared globalZoneAwareCallback here.\n if (taskData.isExisting) {\n
return;\n }\n return nativeAddEventListener.call(taskData.target, taskData.eventName,
taskData.capture ? globalZoneAwareCaptureCallback : globalZoneAwareCallback, taskData.options);\n
};\n var customCancelGlobal = function (task) {\n // if task is not marked as isRemoved, this call is directly\n
// from Zone.prototype.cancelTask, we should remove the task\n // from tasksList of target first\n if
(!task.isRemoved) {\n var symbolEventNames = zoneSymbolEventNames$1[task.eventName];\n
var symbolEventName = void 0;\n if (symbolEventNames) {\n symbolEventName =
symbolEventNames[task.capture ? TRUE_STR : FALSE_STR];\n }\n var existingTasks =
symbolEventName && task.target[symbolEventName];\n if (existingTasks) {\n for (var i = 0; i
< existingTasks.length; i++) {\n var existingTask = existingTasks[i];\n if (existingTask
=== task) {\n existingTasks.splice(i, 1);\n // set isRemoved to data for faster
invokeTask check\n task.isRemoved = true;\n if (existingTasks.length === 0) {\n

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function () {\n
 var target = this || _global;\n
 var eventName = arguments[0];\n
 var listeners = [];\n
 var tasks = findEventTasks(target, eventName);\n
 for (var i = 0; i < tasks.length; i++) {\n
 var task = tasks[i];\n
 var delegate = task.originalDelegate ? task.originalDelegate : task.callback;\n
 listeners.push(delegate);\n
 }\n
 return listeners;\n
};\n
proto[REMOVE_ALL_LISTENERS_EVENT_LISTENER] = function () {\n
 var target = this || _global;\n
 var eventName = arguments[0];\n
 if (!eventName) {\n
 var keys = Object.keys(target);\n
 for (var i = 0; i < keys.length; i++) {\n
 var prop = keys[i];\n
 var match = EVENT_NAME_SYMBOL_REGX.exec(prop);\n
 var evtName = match && match[1];\n
 // used for monitoring the removeListener call,\n
 // so just keep removeListener eventListener until\n
 // all other eventListeners are removed\n
 if (evtName && evtName !== 'removeListener') {\n
 this[REMOVE_ALL_LISTENERS_EVENT_LISTENER].call(this, evtName);\n
 }\n
 // remove removeListener listener finally\n
 this[REMOVE_ALL_LISTENERS_EVENT_LISTENER].call(this, 'removeListener');\n
 }\n
 else {\n
 var symbolEventNames = zoneSymbolEventNames$1[eventName];\n
 if (symbolEventNames) {\n
 var symbolEventName = symbolEventNames[FALSE_STR];\n
 var symbolCaptureEventName = symbolEventNames[TRUE_STR];\n
 var tasks = target[symbolEventName];\n
 var captureTasks = target[symbolCaptureEventName];\n
 if (tasks) {\n
 var removeTasks = tasks.slice();\n
 for (var i = 0; i < removeTasks.length; i++) {\n
 var task = removeTasks[i];\n
 var delegate = task.originalDelegate ? task.originalDelegate : task.callback;\n
 this[REMOVE_EVENT_LISTENER].call(this, eventName, delegate, task.options);\n
 }\n
 if (captureTasks) {\n
 var removeTasks = captureTasks.slice();\n
 for (var i = 0; i < removeTasks.length; i++) {\n
 var task = removeTasks[i];\n
 var delegate = task.originalDelegate ? task.originalDelegate : task.callback;\n
 this[REMOVE_EVENT_LISTENER].call(this, eventName, delegate, task.options);\n
 }\n
 }\n
 }\n
 }\n
 if (returnTarget) {\n
 return this;\n
 }\n
 }\n
 }\n
 // for native\n
 attachOriginToPatched(proto[ADD_EVENT_LISTENER], nativeAddEventListener);\n
 attachOriginToPatched(proto[REMOVE_EVENT_LISTENER], nativeRemoveEventListener);\n
 if (nativeRemoveAllListeners) {\n
 attachOriginToPatched(proto[REMOVE_ALL_LISTENERS_EVENT_LISTENER], nativeRemoveAllListeners);\n
 }\n
 if (nativeListeners) {\n
 attachOriginToPatched(proto[LISTENERS_EVENT_LISTENER], nativeListeners);\n
 }\n
 return true;\n
};\n
var results = [];\n
for (var i = 0; i < apis.length; i++) {\n
 results[i] = patchEventTargetMethods(apis[i], patchOptions);\n
}\n
return results;\n
}\nfunction\n
findEventTasks(target, eventName) {\n
 var foundTasks = [];\n
 for (var prop in target) {\n
 var match = EVENT_NAME_SYMBOL_REGX.exec(prop);\n
 var evtName = match && match[1];\n
 if (evtName && (!eventName || evtName === eventName)) {\n
 var tasks = target[prop];\n
 if (tasks) {\n
 for (var i = 0; i < tasks.length; i++) {\n
 foundTasks.push(tasks[i]);\n
 }\n
 }\n
 }\n
 }\n
 return foundTasks;\n
}\nfunction patchEventPrototype(global, api) {\n
 var Event = global['Event'];\n
 if (Event && Event.prototype) {\n
 api.patchMethod(Event.prototype, 'stopImmediatePropagation', function (delegate) {\n
 return function (self, args) {\n
 self[IMMEDIATE_PROPAGATION_SYMBOL] = true;\n
 // we need\n
 // to call the native stopImmediatePropagation\n
 // in case in some hybrid application, some part of\n
 // application will be controlled by zone, some are not\n
 delegate && delegate.apply(self, args);\n
 }; });\n
 }\n
}\n\n/**\n * @license\n * Copyright Google Inc. All Rights Reserved.\n * Use of this source code is\n * governed by an MIT-style license that can be\n * found in the LICENSE file at https://angular.io/license\n */\n\n**\n * @fileoverview\n * @suppress {missingRequire}\n */\nvar taskSymbol = zoneSymbol('zoneTask');\nfunction\n
patchTimer(window, setName, cancelName, nameSuffix) {\n
 var setNative = null;\n
 var clearNative = null;\n
 setName += nameSuffix;\n
 cancelName += nameSuffix;\n
 var tasksByHandleId = {};\n
 function\n
 scheduleTask(task) {\n
 var data = task.data;\n
 function timer() {\n
 try {\n

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task.invoke.apply(this, arguments);\n }\n finally {\n // issue-934, task will be cancelled\n // even it is a periodic task such as\n // setInterval\n if (!(task.data && task.data.isPeriodic))\n {\n if (typeof data.handleId === 'number') {\n // in non-nodejs env, we remove timerId\n // from local cache\n delete tasksByHandleId[data.handleId];\n }\n else if (data.handleId) {\n // Node returns complex objects as handleIds\n // we remove\n // task reference from timer object\n data.handleId[taskSymbol] = null;\n }\n }\n data.args[0] = timer;\n data.handleId = setNative.apply(window, data.args);\n return\n task;\n }\n function clearTask(task) {\n return clearNative(task.data.handleId);\n }\n setNative =\n patchMethod(window, setName, function (delegate) {\n return function (self, args) {\n if (typeof args[0] ===\n 'function') {\n var options = {\n handleId: null,\n isPeriodic: nameSuffix ===\n 'Interval',\n delay: (nameSuffix === 'Timeout' || nameSuffix === 'Interval') ? args[1] || 0 : null,\n args: args\n };\n var task = scheduleMacroTaskWithCurrentZone(setName, args[0], options,\n scheduleTask, clearTask);\n if (!task) {\n return task;\n }\n // Node.js must\n // additionally support the ref and unref functions.\n var handle = task.data.handleId;\n if (typeof\n handle === 'number') {\n // for non nodejs env, we save handleId: task\n // mapping in local\n // cache for clearTimeout\n tasksByHandleId[handle] = task;\n }\n else if (handle) {\n // for nodejs env, we save task\n // reference in timerId Object for clearTimeout\n handle[taskSymbol] = task;\n }\n // check whether handle is null, because some polyfill or\n // browser\n // may return undefined from setTimeout/setInterval/setImmediate/requestAnimationFrame\n if (handle && handle.ref && handle.unref && typeof handle.ref === 'function' &&\n typeof\n handle.unref === 'function') {\n task.ref = handle.ref.bind(handle);\n task.unref =\n handle.unref.bind(handle);\n }\n if (typeof handle === 'number' || handle) {\n return\n handle;\n }\n return task;\n }\n else {\n // cause an error by calling it\n // directly.\n return delegate.apply(window, args);\n }\n };\n });\n clearNative =\n patchMethod(window, cancelName, function (delegate) {\n return function (self, args) {\n var id = args[0];\n var task;\n if (typeof id === 'number') {\n // non nodejs env.\n task =\n tasksByHandleId[id];\n }\n else {\n // nodejs env.\n task = id && id[taskSymbol];\n }\n // other environments.\n if (!task) {\n task = id;\n }\n if\n (task && typeof task.type === 'string') {\n if (task.state !== 'notScheduled' &&\n (task.cancelFn && task.data.isPeriodic || task.runCount === 0)) {\n if (typeof id === 'number') {\n delete tasksByHandleId[id];\n }\n else if (id) {\n id[taskSymbol] =\n null;\n }\n // Do not cancel already canceled functions\n }\n task.zone.cancelTask(task);\n }\n else {\n // cause an error by calling it\n // directly.\n delegate.apply(window, args);\n }\n };\n });\n}\n\n**\n * @license\n * Copyright\n * Google Inc. All Rights Reserved.\n * Use of this source code is governed by an MIT-style license that can be\n * found in the LICENSE file at https://angular.io/license\n * ^\n * This is necessary for Chrome and Chrome\n * mobile, to enable\n * things like redefining `createdCallback` on an element.\n * ^\n * nvar _defineProperty =\n * Object[zoneSymbol('defineProperty')] = Object.defineProperty;\n * nvar _getOwnPropertyDescriptor =\n * Object[zoneSymbol('getOwnPropertyDescriptor')] =\n * Object.getOwnPropertyDescriptor;\n * nvar _create =\n * Object.create;\n * nvar unconfigurablesKey = zoneSymbol('unconfigurables');\n * nfunction propertyPatch() {\n * Object.defineProperty = function (obj, prop, desc) {\n * if (isUnconfigurable(obj, prop)) {\n * throw new\n * TypeError('Cannot assign to read only property \'' + prop + '\'' of ' + obj);\n * }\n * var\n * originalConfigurableFlag = desc.configurable;\n * if (prop !== 'prototype') {\n * desc =\n * rewriteDescriptor(obj, prop, desc);\n * }\n * return _tryDefineProperty(obj, prop, desc,\n * originalConfigurableFlag);\n * }; \n * Object.defineProperties = function (obj, props) {\n * Object.keys(props).forEach(function (prop) {\n * Object.defineProperty(obj, prop, props[prop]);\n * });\n * return obj;\n * }; \n * Object.create = function (obj, proto) {\n * if (typeof proto === 'object' &&\n * !Object.isFrozen(proto)) {\n * Object.keys(proto).forEach(function (prop) {\n * proto[prop] =

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'close',\n 'contextmenu',\n 'curechange',\n 'dblclick',\n 'drag',\n 'dragend',\n 'dragenter',\n 'dragexit',\n
'dragleave',\n 'dragover',\n 'drop',\n 'durationchange',\n 'emptied',\n 'ended',\n 'error',\n 'focus',\n
'focusin',\n 'focusout',\n 'gotpointercapture',\n 'input',\n 'invalid',\n 'keydown',\n 'keypress',\n 'keyup',\n
'load',\n 'loadstart',\n 'loadeddata',\n 'loadedmetadata',\n 'lostpointercapture',\n 'mousedown',\n
'mouseenter',\n 'mouseleave',\n 'mousemove',\n 'mouseout',\n 'mouseover',\n 'mouseup',\n 'mousewheel',\n
'orientationchange',\n 'pause',\n 'play',\n 'playing',\n 'pointercancel',\n 'pointerdown',\n 'pointerenter',\n
'pointerleave',\n 'pointerlockchange',\n 'mozpointerlockchange',\n 'webkitpointerlockerchange',\n
'pointerlockerror',\n 'mozpointerlockerror',\n 'webkitpointerlockerror',\n 'pointermove',\n 'pointout',\n
'pointerover',\n 'pointerup',\n 'progress',\n 'ratechange',\n 'reset',\n 'resize',\n 'scroll',\n 'seeked',\n
'seeking',\n 'select',\n 'selectionchange',\n 'selectstart',\n 'show',\n 'sort',\n 'stalled',\n 'submit',\n
'suspend',\n 'timeupdate',\n 'volumechange',\n 'touchcancel',\n 'touchmove',\n 'touchstart',\n 'touchend',\n
'transitioncancel',\n 'transitionend',\n 'waiting',\n 'wheel'\n];\nvar documentEventNames = [\n
'afterscriptexecute', 'beforescriptexecute', 'DOMContentLoaded', 'fullscreenchange',\n 'mozfullscreenchange',
'webkitfullscreenchange', 'msfullscreenchange', 'fullscreenerror',\n 'mozfullscreenerror', 'webkitfullscreenerror',
'msfullscreenerror', 'readystatechange',\n 'visibilitychange'\n];\nvar windowEventNames = [\n
'absolutedeviceorientation',\n 'afterinput',\n 'afterprint',\n 'appinstalled',\n 'beforeinstallprompt',\n
'beforeprint',\n 'beforeunload',\n 'devicelight',\n 'devicemotion',\n 'deviceorientation',\n
'deviceorientationabsolute',\n 'deviceproximity',\n 'hashchange',\n 'languagechange',\n 'message',\n
'mozbeforepaint',\n 'offline',\n 'online',\n 'paint',\n 'pageshow',\n 'pagehide',\n 'popstate',\n
'rejectionhandled',\n 'storage',\n 'unhandledrejection',\n 'unload',\n 'userproximity',\n 'vrdisplyconnected',\n
'vrdisplaydisconnected',\n 'vrdisplaypresentchange'\n];\nvar htmlElementEventNames = [\n 'beforecopy',
'beforecut', 'beforepaste', 'copy', 'cut', 'paste', 'dragstart', 'loadend',\n 'animationstart', 'search', 'transitionrun',
'transitionstart', 'webkitanimationend',\n 'webkitanimationiteration', 'webkitanimationstart',
'webkittransitionend'\n];\nvar mediaElementEventNames = ['encrypted', 'waitingforkey', 'msneedkey',
'mozinterruptbegin', 'mozinterruptend'];\nvar ieElementEventNames = [\n 'activate',\n 'afterupdate',\n
'ariarequest',\n 'beforeactivate',\n 'beforedeactivate',\n 'beforeeditfocus',\n 'beforeupdate',\n 'cellchange',\n
'controlselect',\n 'dataavailable',\n 'datasetchanged',\n 'datasetcomplete',\n 'errorupdate',\n 'filterchange',\n
'layoutcomplete',\n 'losecapture',\n 'move',\n 'moveend',\n 'movestart',\n 'propertychange',\n 'resizeend',\n
'resizestart',\n 'rowenter',\n 'rowexit',\n 'rowsdelete',\n 'rowsinserted',\n 'command',\n
'compassneedscaleibration',\n 'deactivate',\n 'help',\n 'mscontentzoom',\n 'msmanipulationstatechanged',\n
'msgesturechange',\n 'msgesturedoubletap',\n 'msgestureend',\n 'msgesturehold',\n 'msgesturestart',\n
'msgesturetap',\n 'msgotpointercapture',\n 'msinertiastart',\n 'mslostpointercapture',\n 'mspointercancel',\n
'mspointerdown',\n 'mspointerenter',\n 'mspointerhover',\n 'mspointerleave',\n 'mspointermove',\n
'mspointerout',\n 'mspointerover',\n 'mspointerup',\n 'pointerout',\n 'mssitemmodejumplistitemremoved',\n
'mstumbnailclick',\n 'stop',\n 'storagecommit'\n];\nvar webglEventNames = ['webglcontextrestored',
'webglcontextlost', 'webglcontextcreationerror'];\nvar formEventNames = ['autocomplete', 'autocompleteerror'];\nvar
detailEventNames = ['toggle'];\nvar frameEventNames = ['load'];\nvar frameSetEventNames = ['blur', 'error', 'focus',
'load', 'resize', 'scroll', 'messageerror'];\nvar marqueeEventNames = ['bounce', 'finish', 'start'];\nvar
XMLHttpRequestEventNames = [\n 'loadstart', 'progress', 'abort', 'error', 'load', 'progress', 'timeout', 'loadend',\n
'readystatechange'\n];\nvar IDBIndexEventNames = ['upgradeneeded', 'complete', 'abort', 'success', 'error', 'blocked',
'versionchange', 'close'];\nvar websocketEventNames = ['close', 'error', 'open', 'message'];\nvar workerEventNames =
['error', 'message'];\nvar eventNames = globalEventHandlersEventNames.concat(webglEventNames,
formEventNames, detailEventNames, documentEventNames, windowEventNames, htmlElementEventNames,
ieElementEventNames);\nfunction filterProperties(target, onProperties, ignoreProperties) {\n if (!ignoreProperties)
{\n return onProperties;\n }}\n var tip = ignoreProperties.filter(function (ip) { return ip.target === target;
});\n if (!tip || tip.length === 0) {\n return onProperties;\n }}\n var targetIgnoreProperties =
tip[0].ignoreProperties;\n return onProperties.filter(function (op) { return targetIgnoreProperties.indexOf(op) ===
-1; });\n}\nfunction patchFilteredProperties(target, onProperties, ignoreProperties, prototype) {\n // check whether

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target is available, sometimes target will be undefined\n // because different browser or some 3rd party plugin.\n
if (!target) {\n return;\n }\n var filteredProperties = filterProperties(target, onProperties, ignoreProperties);\n
patchOnProperties(target, filteredProperties, prototype);\n}\nfunction propertyDescriptorPatch(api, _global) {\n if
(isNode && !isMix) {\n return;\n }\n var supportsWebSocket = typeof WebSocket !== 'undefined';\n if
(canPatchViaPropertyDescriptor()) {\n var ignoreProperties = _global.__Zone_ignore_on_properties;\n //
for browsers that we can patch the descriptor: Chrome & Firefox\n if (isBrowser) {\n var
internalWindow = window;\n // in IE/Edge, onProp not exist in window object, but in WindowPrototype\n
// so we need to pass WindowPrototype to check onProp exist or not\n
patchFilteredProperties(internalWindow, eventNames.concat(['messageerror']), ignoreProperties,
ObjectGetPrototypeOf(internalWindow));\n patchFilteredProperties(Document.prototype, eventNames,
ignoreProperties);\n if (typeof internalWindow['SVGElement'] !== 'undefined') {\n
patchFilteredProperties(internalWindow['SVGElement'].prototype, eventNames, ignoreProperties);\n }\n
patchFilteredProperties(Element.prototype, eventNames, ignoreProperties);\n
patchFilteredProperties(HTMLElement.prototype, eventNames, ignoreProperties);\n
patchFilteredProperties(HTMLMediaElement.prototype, mediaElementEventNames, ignoreProperties);\n
patchFilteredProperties(HTMLFrameSetElement.prototype, windowEventNames.concat(frameSetEventNames),
ignoreProperties);\n patchFilteredProperties(HTMLBodyElement.prototype,
windowEventNames.concat(frameSetEventNames), ignoreProperties);\n
patchFilteredProperties(HTMLFrameElement.prototype, frameEventNames, ignoreProperties);\n
patchFilteredProperties(HTMLIFrameElement.prototype, frameEventNames, ignoreProperties);\n var
HTMLMarqueeElement_1 = internalWindow['HTMLMarqueeElement'];\n if (HTMLMarqueeElement_1)
{\n patchFilteredProperties(HTMLMarqueeElement_1.prototype, marqueeEventNames,
ignoreProperties);\n }\n var Worker_1 = internalWindow['Worker'];\n if (Worker_1) {\n
patchFilteredProperties(Worker_1.prototype, workerEventNames, ignoreProperties);\n }\n }\n
patchFilteredProperties(XMLHttpRequest.prototype, XMLHttpRequestEventNames, ignoreProperties);\n var
XMLHttpRequestEventTarget = _global['XMLHttpRequestEventTarget'];\n if (XMLHttpRequestEventTarget)
{\n patchFilteredProperties(XMLHttpRequestEventTarget && XMLHttpRequestEventTarget.prototype,
XMLHttpRequestEventNames, ignoreProperties);\n }\n if (typeof IDBIndex !== 'undefined') {\n
patchFilteredProperties(IDBIndex.prototype, IDBIndexEventNames, ignoreProperties);\n
patchFilteredProperties(IDBRequest.prototype, IDBIndexEventNames, ignoreProperties);\n
patchFilteredProperties(IDBOpenDBRequest.prototype, IDBIndexEventNames, ignoreProperties);\n
patchFilteredProperties(IDBDatabase.prototype, IDBIndexEventNames, ignoreProperties);\n
patchFilteredProperties(IDBTransaction.prototype, IDBIndexEventNames, ignoreProperties);\n
patchFilteredProperties(IDBCursor.prototype, IDBIndexEventNames, ignoreProperties);\n }\n if
(supportsWebSocket) {\n patchFilteredProperties(WebSocket.prototype, websocketEventNames,
ignoreProperties);\n }\n }\n else {\n // Safari, Android browsers (Jelly Bean)\n
patchViaCapturingAllTheEvents();\n patchClass('XMLHttpRequest');\n if (supportsWebSocket) {\n
apply(api, _global);\n }\n }\n }\n}\nfunction canPatchViaPropertyDescriptor() {\n if ((isBrowser || isMix) &&
!ObjectGetOwnPropertyDescriptor(HTMLElement.prototype, 'onclick') &&\n typeof Element !== 'undefined')
{\n // WebKit https://bugs.webkit.org/show_bug.cgi?id=134364\n // IDL interface attributes are not
configurable\n var desc = ObjectGetOwnPropertyDescriptor(Element.prototype, 'onclick');\n if (desc &&
!desc.configurable)\n return false;\n }\n var ON_READY_STATE_CHANGE = 'onreadystatechange';\n
var XMLHttpRequestPrototype = XMLHttpRequest.prototype;\n var xhrDesc =
ObjectGetOwnPropertyDescriptor(XMLHttpRequestPrototype, ON_READY_STATE_CHANGE);\n // add
enumerable and configurable here because in opera\n // by default
XMLHttpRequest.prototype.onreadystatechange is undefined\n // without adding enumerable and configurable
will cause onreadystatechange\n // non-configurable\n // and if XMLHttpRequest.prototype.onreadystatechange
is undefined,\n // we should set a real desc instead a fake one\n if (xhrDesc) {\n

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zoneSymbolEventNames$1[eventName][FALSE_STR] = symbol;\n
zoneSymbolEventNames$1[eventName][TRUE_STR] = symbolCapture;\n } \n // predefine all task.source
string\n for (var i = 0; i < WTF_ISSUE_555.length; i++) {\n var target = WTF_ISSUE_555_ARRAY[i];\n
var targets = globalSources[target] = {};\n for (var j = 0; j < eventNames.length; j++) {\n var eventName
= eventNames[j];\n targets[eventName] = target + ADD_EVENT_LISTENER_SOURCE + eventName;\n
 }\n } \n var checkIEAndCrossContext = function (nativeDelegate, delegate, target, args) {\n if
(!isDisableIECheck && ieOrEdge) {\n if (isEnabledCrossContextCheck) {\n try {\n var
testString = delegate.toString();\n if ((testString === FUNCTION_WRAPPER || testString ==
BROWSER_TOOLS)) {\n nativeDelegate.apply(target, args);\n return false;\n
 }\n }\n catch (error) {\n nativeDelegate.apply(target, args);\n return
false;\n }\n }\n else {\n var testString = delegate.toString();\n if
((testString === FUNCTION_WRAPPER || testString == BROWSER_TOOLS)) {\n nativeDelegate.apply(target, args);\n
 return false;\n }\n }\n }\n else if
(isEnableCrossContextCheck) {\n try {\n delegate.toString();\n }\n catch (error) {\n
 nativeDelegate.apply(target, args);\n return false;\n }\n }\n return true;\n };\n var
apiTypes = [];\n for (var i = 0; i < apis.length; i++) {\n var type = _global[apis[i]];\n apiTypes.push(type
&& type.prototype);\n } \n // vh is validateHandler to check event handler\n // is valid or not(for security
check)\n patchEventTarget(_global, apiTypes, { vh: checkIEAndCrossContext });\n api.patchEventTarget =
patchEventTarget;\n return true;\n}\n\nfunction patchEvent(global, api) {\n patchEventPrototype(global,
api);\n}\n\n/**\n * @license\n * Copyright Google Inc. All Rights Reserved.\n *\n * Use of this source code is
governed by an MIT-style license that can be\n * found in the LICENSE file at https://angular.io/license\n
*\n\nfunction registerElementPatch(_global) {\n if ((!isBrowser && !isMix) || !(registerElement in
_global.document)) {\n return;\n }\n var _registerElement = document.registerElement;\n var callbacks =
['createdCallback', 'attachedCallback', 'detachedCallback', 'attributeChangedCallback'];\n
 document.registerElement = function (name, opts) {\n if (opts && opts.prototype) {\n
 callbacks.forEach(function (callback) {\n var source = 'Document.registerElement::' + callback;\n
 var prototype = opts.prototype;\n if (prototype.hasOwnProperty(callback)) {\n var descriptor =
ObjectGetOwnPropertyDescriptor(prototype, callback);\n if (descriptor && descriptor.value) {\n
 descriptor.value = wrapWithCurrentZone(descriptor.value, source);\n
 _redefineProperty(opts.prototype, callback, descriptor);\n }\n }
 else {\n prototype[callback] = wrapWithCurrentZone(prototype[callback], source);\n
 }\n }\n }\n else if (prototype[callback]) {\n prototype[callback] = wrapWithCurrentZone(prototype[callback],
source);\n }\n });\n}\n return _registerElement.call(document, name, opts);\n };\n
attachOriginToPatched(document.registerElement, _registerElement);\n}\n\n/**\n * @license\n * Copyright Google
Inc. All Rights Reserved.\n *\n * Use of this source code is governed by an MIT-style license that can be\n * found
in the LICENSE file at https://angular.io/license\n *\n\nfunction __load_patch('util', function (global, Zone, api) {\n api.patchOnProperties = patchOnProperties;\n
 api.patchMethod = patchMethod;\n api.bindArguments = bindArguments;\n});\n\nZone.__load_patch('timers',
function (global) {\n var set = 'set';\n var clear = 'clear';\n patchTimer(global, set, clear, 'Timeout');\n
 patchTimer(global, set, clear, 'Interval');\n patchTimer(global, set, clear,
'Immediate');\n});\n\nZone.__load_patch('requestAnimationFrame', function (global) {\n patchTimer(global,
'request', 'cancel', 'AnimationFrame');\n patchTimer(global, 'mozRequest', 'mozCancel', 'AnimationFrame');\n
 patchTimer(global, 'webkitRequest', 'webkitCancel', 'AnimationFrame');\n});\n\nZone.__load_patch('blocking',
function (global, Zone) {\n var blockingMethods = ['alert', 'prompt', 'confirm'];\n for (var i = 0; i <
blockingMethods.length; i++) {\n var name_1 = blockingMethods[i];\n patchMethod(global, name_1,
function (delegate, symbol, name) {\n return function (s, args) {\n return Zone.current.run(delegate,
global, args, name);\n };\n });\n }\n});\n\nZone.__load_patch('EventTarget', function (global, Zone, api)
{\n // load blackListEvents from global\n var SYMBOL_BLACK_LISTED_EVENTS =

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Zone.__symbol__('BLACK_LISTED_EVENTS');\n if (global[SYMBOL_BLACK_LISTED_EVENTS]) {\n
Zone[SYMBOL_BLACK_LISTED_EVENTS] = global[SYMBOL_BLACK_LISTED_EVENTS];\n }\n
patchEvent(global, api);\n eventTargetPatch(global, api);\n // patch XMLHttpRequestEventTarget's
addEventListener/removeEventListener\n var XMLHttpRequestEventTarget =
global['XMLHttpRequestEventTarget'];\n if (XMLHttpRequestEventTarget &&
XMLHttpRequestEventTarget.prototype) {\n api.patchEventTarget(global,
[XMLHttpRequestEventTarget.prototype]);\n }\n patchClass('MutationObserver');\n
patchClass('WebKitMutationObserver');\n patchClass('IntersectionObserver');\n
patchClass('FileReader');\n});\nZone.__load_patch('on_property', function (global, Zone, api) {\n
propertyDescriptorPatch(api, global);\n propertyPatch();\n
registerElementPatch(global);\n});\nZone.__load_patch('canvas', function (global) {\n var HTMLCanvasElement
= global['HTMLCanvasElement'];\n if (typeof HTMLCanvasElement !== 'undefined' &&
HTMLCanvasElement.prototype &&\n HTMLCanvasElement.prototype.toBlob) {\n
patchMacroTask(HTMLCanvasElement.prototype, 'toBlob', function (self, args) {\n return { name:
'HTMLCanvasElement.toBlob', target: self, cbIdx: 0, args: args }; \n });\n });\n});\nZone.__load_patch('XHR',
function (global, Zone) {\n // Treat XMLHttpRequest as a macrotask.\n patchXHR(global);\n var XHR_TASK
= zoneSymbol('xhrTask');\n var XHR_SYNC = zoneSymbol('xhrSync');\n var XHR_LISTENER =
zoneSymbol('xhrListener');\n var XHR_SCHEDULED = zoneSymbol('xhrScheduled');\n var XHR_URL =
zoneSymbol('xhrURL');\n function patchXHR(window) {\n var XMLHttpRequestPrototype =
XMLHttpRequest.prototype;\n function findPendingTask(target) {\n return target[XHR_TASK];\n
 }\n var oriAddListener = XMLHttpRequestPrototype[ZONE_SYMBOL_ADD_EVENT_LISTENER];\n
var oriRemoveListener = XMLHttpRequestPrototype[ZONE_SYMBOL_REMOVE_EVENT_LISTENER];\n
if (!oriAddListener) {\n var XMLHttpRequestEventTarget = window['XMLHttpRequestEventTarget'];\n
 if (XMLHttpRequestEventTarget) {\n var XMLHttpRequestEventTargetPrototype =
XMLHttpRequestEventTarget.prototype;\n oriAddListener =
XMLHttpRequestEventTargetPrototype[ZONE_SYMBOL_ADD_EVENT_LISTENER];\n
oriRemoveListener =
XMLHttpRequestEventTargetPrototype[ZONE_SYMBOL_REMOVE_EVENT_LISTENER];\n }\n }\n
XMLHttpRequestEventTargetPrototype[ZONE_SYMBOL_REMOVE_EVENT_LISTENER];\n }\n }\n
var READY_STATE_CHANGE = 'readystatechange';\n var SCHEDULED = 'scheduled';\n function
scheduleTask(task) {\n XMLHttpRequest[XHR_SCHEDULED] = false;\n var data = task.data;\n
var target = data.target;\n // remove existing event listener\n var listener =
target[XHR_LISTENER];\n if (!oriAddListener) {\n oriAddListener =
target[ZONE_SYMBOL_ADD_EVENT_LISTENER];\n oriRemoveListener =
target[ZONE_SYMBOL_REMOVE_EVENT_LISTENER];\n }\n if (listener) {\n
oriRemoveListener.call(target, READY_STATE_CHANGE, listener);\n }\n var newListener =
target[XHR_LISTENER] = function () {\n if (target.readyState === target.DONE) {\n //
sometimes on some browsers XMLHttpRequest will fire onreadystatechange with\n // readyState=4
multiple times, so we need to check task state here\n if (!data.aborted &&
XMLHttpRequest[XHR_SCHEDULED] && task.state === SCHEDULED) {\n task.invoke();\n
 }\n }\n }; \n oriAddListener.call(target, READY_STATE_CHANGE, newListener);\n
var storedTask = target[XHR_TASK];\n if (!storedTask) {\n target[XHR_TASK] = task;\n
 }\n sendNative.apply(target, data.args);\n XMLHttpRequest[XHR_SCHEDULED] = true;\n
return task;\n }\n function placeholderCallback() { }\n function clearTask(task) {\n var data =
task.data;\n // Note - ideally, we would call data.target.removeEventListener here, but it's too late\n
// to prevent it from firing. So instead, we store info for the event listener.\n data.aborted = true;\n
return abortNative.apply(data.target, data.args);\n }\n var openNative = patchMethod(XMLHttpRequestPrototype,
'open', function () { return function (self, args) {\n self[XHR_SYNC] = args[2] === false;\n
self[XHR_URL] = args[1];\n return openNative.apply(self, args);\n }; });\n var

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## 1.77 xz-java 1.8

### 1.77.1 Available under license :

//opt/ws\_local/PERMITS\_SQL/1024750274\_1585404755.89/0/xz-1-8-sources-jar/org/tukaani/xz/DeltaDecoder.java: \* This file has been put into the public domain.

## 1.78 selenium 3.11.0

### 1.78.1 Available under license :

No license file was found, but licenses were detected in source scan.

Metadata-Version: 1.1  
Name: selenium  
Version: 3.11.0  
Summary: Python bindings for Selenium  
Home-page: <https://github.com/SeleniumHQ/selenium/>  
Author: UNKNOWN  
Author-email: UNKNOWN  
License: Apache 2.0  
Description-Content-Type: UNKNOWN  
Description: =====

Selenium Client Driver

=====

Introduction

=====

Python language bindings for Selenium WebDriver.

The `selenium` package is used to automate web browser interaction from Python.

```
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| **Home** | http://www.seleniumhq.org |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| **Docs** | `selenium` package API <https://seleniumhq.github.io/selenium/docs/api/py/api.html>`_ |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| **Dev** | https://github.com/SeleniumHQ/Selenium |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| **PyPI** | https://pypi.python.org/pypi/selenium |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
```

|\*\*IRC\*\*:  
+-----+

Several browsers/drivers are supported (Firefox, Chrome, Internet Explorer), as well as the Remote protocol.

### Supported Python Versions

=====

\* Python 2.7, 3.4+

### Installing

=====

If you have `pip` <<https://pip.pypa.io/>> on your system, you can simply install or upgrade the Python bindings::

```
pip install -U selenium
```

Alternately, you can download the source distribution from `PyPI` <<http://pypi.python.org/pypi/selenium>> (e.g. `selenium-3.11.0.tar.gz`), unarchive it, and run::

```
python setup.py install
```

Note: You may want to consider using `virtualenv` <<http://www.virtualenv.org/>> to create isolated Python environments.

### Drivers

=====

Selenium requires a driver to interface with the chosen browser. Firefox, for example, requires `geckodriver` <<https://github.com/mozilla/geckodriver/releases>>, which needs to be installed before the below examples can be run. Make sure it's in your `PATH`, e. g., place it in `/usr/bin` or `/usr/local/bin`.

Failure to observe this step will give you an error `selenium.common.exceptions.WebDriverException: Message: 'geckodriver' executable needs to be in PATH.`

Other supported browsers will have their own drivers available. Links to some of the more popular browser drivers follow.

+-----+  
|\*\*Chrome\*\*:  
+-----+  
|\*\*Edge\*\*:  
+-----+  
|\*\*Firefox\*\*:  
+-----+  
|\*\*Safari\*\*:  
+-----+



```

class GoogleTestCase(unittest.TestCase):

 def setUp(self):
 self.browser = webdriver.Firefox()
 self.addCleanup(self.browser.quit)

 def testPageTitle(self):
 self.browser.get('http://www.google.com')
 self.assertIn('Google', self.browser.title)

if __name__ == '__main__':
 unittest.main(verbosity=2)

```

#### Selenium Server (optional)

=====

For normal WebDriver scripts (non-Remote), the Java server is not needed.

However, to use Selenium Webdriver Remote or the legacy Selenium API (Selenium-RC), you need to also run the Selenium server. The server requires a Java Runtime Environment (JRE).

Download the server separately, from: <http://selenium-release.storage.googleapis.com/3.11/selenium-server-standalone-3.11.0.jar>

Run the server from the command line::

```
java -jar selenium-server-standalone-3.11.0.jar
```

Then run your Python client scripts.

Use The Source Luke!

=====

View source code online:

```

+-----+-----+
| official: | https://github.com/SeleniumHQ/selenium/tree/master/py |
+-----+-----+

```

Platform: UNKNOWN

Classifier: Development Status :: 5 - Production/Stable

Classifier: Intended Audience :: Developers

Classifier: License :: OSI Approved :: Apache Software License

Classifier: Operating System :: POSIX

Classifier: Operating System :: Microsoft :: Windows

Classifier: Operating System :: MacOS :: MacOS X

Classifier: Topic :: Software Development :: Testing

Classifier: Topic :: Software Development :: Libraries

Classifier: Programming Language :: Python

Classifier: Programming Language :: Python :: 2.7

Classifier: Programming Language :: Python :: 3.4

Classifier: Programming Language :: Python :: 3.5

Classifier: Programming Language :: Python :: 3.6

Found in path(s):

\* /opt/cola/permits/1685982332\_1684869309.439767/0/selenium-3-11-0-1-tar-gz/selenium-3.11.0/selenium.egg-info/PKG-INFO

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\* /opt/cola/permits/1685982332\_1684869309.439767/0/selenium-3-11-0-1-tar-gz/selenium-3.11.0/selenium/webdriver/chrome/webdriver.py

\* /opt/cola/permits/1685982332\_1684869309.439767/0/selenium-3-11-0-1-tar-gz/selenium-3.11.0/selenium/webdriver/firefox/webdriver.py

\* /opt/cola/permits/1685982332\_1684869309.439767/0/selenium-3-11-0-1-tar-gz/selenium-3.11.0/selenium/webdriver/support/color.py

\* /opt/cola/permits/1685982332\_1684869309.439767/0/selenium-3-11-0-1-tar-gz/selenium-3.11.0/selenium/webdriver/edge/\_\_init\_\_.py

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\* /opt/cola/permits/1685982332\_1684869309.439767/0/selenium-3-11-0-1-tar-gz/selenium-3.11.0/selenium/webdriver/ie/\_\_init\_\_.py

\* /opt/cola/permits/1685982332\_1684869309.439767/0/selenium-3-11-0-1-tar-gz/selenium-3.11.0/selenium/webdriver/safari/service.py

\* /opt/cola/permits/1685982332\_1684869309.439767/0/selenium-3-11-0-1-tar-gz/selenium-3.11.0/selenium/webdriver/firefox/service.py

\* /opt/cola/permits/1685982332\_1684869309.439767/0/selenium-3-11-0-1-tar-gz/selenium-3.11.0/selenium/webdriver/firefox/firefox\_profile.py

\* /opt/cola/permits/1685982332\_1684869309.439767/0/selenium-3-11-0-1-tar-gz/selenium-3.11.0/selenium/webdriver/support/select.py

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\* /opt/cola/permits/1685982332\_1684869309.439767/0/selenium-3-11-0-1-tar-gz/selenium-3.11.0/selenium/webdriver/support/events.py

\* /opt/cola/permits/1685982332\_1684869309.439767/0/selenium-3-11-0-1-tar-gz/selenium-3.11.0/selenium/webdriver/firefox/remote\_connection.py

\* /opt/cola/permits/1685982332\_1684869309.439767/0/selenium-3-11-0-1-tar-gz/selenium-3.11.0/selenium/webdriver/common/desired\_capabilities.py

\* /opt/cola/permits/1685982332\_1684869309.439767/0/selenium-3-11-0-1-tar-gz/selenium-3.11.0/selenium/webdriver/chrome/remote\_connection.py

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\* /opt/cola/permits/1685982332\_1684869309.439767/0/selenium-3-11-0-1-tar-gz/selenium-3.11.0/selenium/webdriver/remote/remote\_connection.py

\* /opt/cola/permits/1685982332\_1684869309.439767/0/selenium-3-11-0-1-tar-gz/selenium-3.11.0/selenium/webdriver/common/service.py

\* /opt/cola/permits/1685982332\_1684869309.439767/0/selenium-3-11-0-1-tar-gz/selenium-3.11.0/selenium/webdriver/ie/options.py

\* /opt/cola/permits/1685982332\_1684869309.439767/0/selenium-3-11-0-1-tar-gz/selenium-3.11.0/selenium/webdriver/phantomjs/webdriver.py

\* /opt/cola/permits/1685982332\_1684869309.439767/0/selenium-3-11-0-1-tar-gz/selenium-3.11.0/selenium/webdriver/chrome/service.py

\* /opt/cola/permits/1685982332\_1684869309.439767/0/selenium-3-11-0-1-tar-gz/selenium-3.11.0/selenium/webdriver/support/event\_firing\_webdriver.py

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\* /opt/cola/permits/1685982332\_1684869309.439767/0/selenium-3-11-0-1-tar-gz/selenium-3.11.0/setup.py

\* /opt/cola/permits/1685982332\_1684869309.439767/0/selenium-3-11-0-1-tar-gz/selenium-3.11.0/selenium/webdriver/common/actions/key\_actions.py

\* /opt/cola/permits/1685982332\_1684869309.439767/0/selenium-3-11-0-1-tar-gz/selenium-3.11.0/selenium/webdriver/android/webdriver.py

\* /opt/cola/permits/1685982332\_1684869309.439767/0/selenium-3-11-0-1-tar-gz/selenium-3.11.0/selenium/webdriver/remote/errorhandler.py

\* /opt/cola/permits/1685982332\_1684869309.439767/0/selenium-3-11-0-1-tar-gz/selenium-3.11.0/selenium/common/\_\_init\_\_.py

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\* /opt/cola/permits/1685982332\_1684869309.439767/0/selenium-3-11-0-1-tar-gz/selenium-3.11.0/selenium/webdriver/webkitgtk/webdriver.py

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3.11.0/selenium/webdriver/blackberry/webdriver.py  
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3.11.0/selenium/webdriver/remote/utils.py  
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3.11.0/selenium/webdriver/firefox/extension\_connection.py  
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3.11.0/selenium/webdriver/remote/webdriver.py  
\* /opt/cola/permits/1685982332\_1684869309.439767/0/selenium-3-11-0-1-tar-gz/selenium-  
3.11.0/selenium/webdriver/common/utils.py  
\* /opt/cola/permits/1685982332\_1684869309.439767/0/selenium-3-11-0-1-tar-gz/selenium-  
3.11.0/selenium/webdriver/common/actions/key\_input.py  
\* /opt/cola/permits/1685982332\_1684869309.439767/0/selenium-3-11-0-1-tar-gz/selenium-  
3.11.0/selenium/webdriver/webkitgtk/options.py  
\* /opt/cola/permits/1685982332\_1684869309.439767/0/selenium-3-11-0-1-tar-gz/selenium-  
3.11.0/selenium/webdriver/common/actions/input\_device.py  
\* /opt/cola/permits/1685982332\_1684869309.439767/0/selenium-3-11-0-1-tar-gz/selenium-  
3.11.0/selenium/webdriver/support/wait.py  
\* /opt/cola/permits/1685982332\_1684869309.439767/0/selenium-3-11-0-1-tar-gz/selenium-  
3.11.0/selenium/webdriver/chrome/options.py  
\* /opt/cola/permits/1685982332\_1684869309.439767/0/selenium-3-11-0-1-tar-gz/selenium-  
3.11.0/selenium/webdriver/common/actions/\_\_init\_\_.py  
\* /opt/cola/permits/1685982332\_1684869309.439767/0/selenium-3-11-0-1-tar-gz/selenium-  
3.11.0/selenium/webdriver/phantomjs/\_\_init\_\_.py  
\* /opt/cola/permits/1685982332\_1684869309.439767/0/selenium-3-11-0-1-tar-gz/selenium-  
3.11.0/selenium/webdriver/remote/\_\_init\_\_.py  
\* /opt/cola/permits/1685982332\_1684869309.439767/0/selenium-3-11-0-1-tar-gz/selenium-  
3.11.0/selenium/webdriver/remote/switch\_to.py  
\* /opt/cola/permits/1685982332\_1684869309.439767/0/selenium-3-11-0-1-tar-gz/selenium-  
3.11.0/selenium/webdriver/android/\_\_init\_\_.py  
\* /opt/cola/permits/1685982332\_1684869309.439767/0/selenium-3-11-0-1-tar-gz/selenium-  
3.11.0/selenium/webdriver/firefox/\_\_init\_\_.py

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Found in path(s):

\* /opt/cola/permits/1685982332\_1684869309.439767/0/selenium-3-11-0-1-tar-gz/selenium-3.11.0/selenium/webdriver/remote/isDisplayed.js

## 1.79 findbugs-jsr305 3.0.1

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```
<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/maven-v4_0_0.xsd">
 <modelVersion>4.0.0</modelVersion>
 <parent>
 <groupId>org.sonatype.oss</groupId>
 <artifactId>oss-parent</artifactId>
 <version>7</version>
 <relativePath />
 </parent>

 <groupId>com.google.code.findbugs</groupId>
 <artifactId>jsr305</artifactId>
 <version>3.0.1</version>
 <packaging>jar</packaging>

 <url>http://findbugs.sourceforge.net/</url>
 <name>FindBugs-jsr305</name>
```

```
<description>JSR305 Annotations for Findbugs</description>
<licenses>
 <license>
 <name>The Apache Software License, Version 2.0</name>
 <url>http://www.apache.org/licenses/LICENSE-2.0.txt</url>
 <distribution>repo</distribution>
 </license>
</licenses>

<prerequisites>
 <maven>3.0</maven>
</prerequisites>

<scm>
 <connection>scm:git:https://code.google.com/p/jsr-305/</connection>
 <developerConnection>scm:git:https://code.google.com/p/jsr-305/</developerConnection>
 <url>https://code.google.com/p/jsr-305/</url>
</scm>

<build>
 <plugins>
 <plugin>
 <groupId>org.apache.maven.plugins</groupId>
 <artifactId>maven-javadoc-plugin</artifactId>
 <version>2.9.1</version>
 <executions>
 <execution>
 <phase>package</phase>
 <goals>
 <goal>jar</goal>
 </goals>
 <configuration>
 <quiet>>true</quiet>
 </configuration>
 </execution>
 </executions>
 </plugin>
 <plugin>
 <groupId>org.apache.maven.plugins</groupId>
 <artifactId>maven-compiler-plugin</artifactId>
 <version>3.0</version>
 <configuration>
 <source>1.5</source>
 <target>1.5</target>
 </configuration>
 </plugin>
 </plugins>
 <plugin>
 <groupId>org.apache.maven.plugins</groupId>
```

```

<artifactId>maven-source-plugin</artifactId>
<version>2.4</version>
<executions>
 <execution>
 <id>attach-sources</id>
 <goals>
 <goal>jar-no-fork</goal>
 </goals>
 </execution>
</executions>
</plugin>
<plugin>
 <groupId>org.apache.felix</groupId>
 <artifactId>maven-bundle-plugin</artifactId>
 <version>2.4.0</version>
 <extensions>>true</extensions>
 <executions>
 <execution>
 <id>bundle-manifest</id>
 <phase>process-classes</phase>
 <goals>
 <goal>manifest</goal>
 </goals>
 </execution>
 </executions>
 <configuration>
 <instructions>
 <Bundle-SymbolicName>org.jsr-305</Bundle-SymbolicName>
 <Bundle-Name>${project.name}</Bundle-Name>
 <Export-Package>javax.annotation;javax.annotation.concurrent;javax.annotation.meta</Export-Package>
 </instructions>
 </configuration>
</plugin>
<plugin>
 <groupId>org.apache.maven.plugins</groupId>
 <artifactId>maven-jar-plugin</artifactId>
 <version>2.4</version>
 <configuration>
 <archive>
 <manifestFile>${project.build.outputDirectory}/META-INF/MANIFEST.MF</manifestFile>
 </archive>
 </configuration>
</plugin>
<plugin>
 <groupId>org.sonatype.plugins</groupId>
 <artifactId>nexus-staging-maven-plugin</artifactId>
 <version>1.6.3</version>
 <extensions>>true</extensions>

```

```
<configuration>
 <serverId>ossrh</serverId>
 <nexusUrl>https://oss.sonatype.org/</nexusUrl>
 <autoReleaseAfterClose>true</autoReleaseAfterClose>
</configuration>
</plugin>
<plugin>
 <groupId>org.apache.maven.plugins</groupId>
 <artifactId>maven-gpg-plugin</artifactId>
 <version>1.5</version>
 <executions>
 <execution>
 <id>sign-artifacts</id>
 <phase>verify</phase>
 <goals>
 <goal>sign</goal>
 </goals>
 </execution>
 </executions>
</plugin>
</plugins>
</build>
</project>
```

Found in path(s):

\* /opt/cola/permits/1012082893\_1648836067.25/0/jsr305-3-0-1-10-jar/META-INF/maven/com.google.code.findbugs/jsr305/pom.xml

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Manifest-Version: 1.0

Export-Package: javax.annotation;uses:="javax.annotation.meta";version="3.0.1",javax.annotation.concurrent;version="3.0.1",javax.annotation.meta;uses:="javax.annotation";version="3.0.1"

Built-By: lan

Tool: Bnd-2.1.0.20130426-122213

Bundle-Name: FindBugs-jsr305

Created-By: Apache Maven Bundle Plugin

Build-Jdk: 1.7.0\_80

Bundle-Version: 3.0.1

Bnd-LastModified: 1444367176355

Bundle-ManifestVersion: 2

Bundle-Description: JSR305 Annotations for Findbugs

Bundle-License: <http://www.apache.org/licenses/LICENSE-2.0.txt>

Bundle-SymbolicName: org.jsr-305

Archiver-Version: Plexus Archiver

Found in path(s):

\* /opt/cola/permits/1012082893\_1648836067.25/0/jsr305-3-0-1-10-jar/META-INF/MANIFEST.MF

# 1.80 guava-listenablefuture-only 9999.0-empty-to-avoid-conflict-with-guava

## 1.80.1 Available under license :

Doug Lea

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## 1.81 headjs 1.0.3

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# 1.82 scala-xml 1.0.5

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# 1.83 okio 1.13.0

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\* /opt/ws\_local/PERMITS\_SQL/1018348639\_1594201437.99/0/okio-1-13-0-sources-jar/okio/ByteString.java

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\* /opt/ws\_local/PERMITS\_SQL/1018348639\_1594201437.99/0/okio-1-13-0-sources-jar/okio/HashingSink.java

\* /opt/ws\_local/PERMITS\_SQL/1018348639\_1594201437.99/0/okio-1-13-0-sources-jar/okio/Options.java

\* /opt/ws\_local/PERMITS\_SQL/1018348639\_1594201437.99/0/okio-1-13-0-sources-jar/okio/HashingSource.java

\* /opt/ws\_local/PERMITS\_SQL/1018348639\_1594201437.99/0/okio-1-13-0-sources-jar/okio/Pipe.java

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\* /opt/ws\_local/PERMITS\_SQL/1018348639\_1594201437.99/0/okio-1-13-0-sources-jar/okio/ForwardingTimeout.java

\* /opt/ws\_local/PERMITS\_SQL/1018348639\_1594201437.99/0/okio-1-13-0-sources-jar/okio/SegmentedByteString.java

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\* /opt/ws\_local/PERMITS\_SQL/1018348639\_1594201437.99/0/okio-1-13-0-sources-jar/okio/ForwardingSource.java  
\* /opt/ws\_local/PERMITS\_SQL/1018348639\_1594201437.99/0/okio-1-13-0-sources-jar/okio/RealBufferedSink.java  
\* /opt/ws\_local/PERMITS\_SQL/1018348639\_1594201437.99/0/okio-1-13-0-sources-jar/okio/BufferedSink.java  
\* /opt/ws\_local/PERMITS\_SQL/1018348639\_1594201437.99/0/okio-1-13-0-sources-jar/okio/ForwardingSink.java  
\* /opt/ws\_local/PERMITS\_SQL/1018348639\_1594201437.99/0/okio-1-13-0-sources-jar/okio/Sink.java  
\* /opt/ws\_local/PERMITS\_SQL/1018348639\_1594201437.99/0/okio-1-13-0-sources-jar/okio/Okio.java  
\* /opt/ws\_local/PERMITS\_SQL/1018348639\_1594201437.99/0/okio-1-13-0-sources-jar/okio/GzipSink.java  
\* /opt/ws\_local/PERMITS\_SQL/1018348639\_1594201437.99/0/okio-1-13-0-sources-jar/okio/Timeout.java  
\* /opt/ws\_local/PERMITS\_SQL/1018348639\_1594201437.99/0/okio-1-13-0-sources-jar/okio/BufferedSource.java  
\* /opt/ws\_local/PERMITS\_SQL/1018348639\_1594201437.99/0/okio-1-13-0-sources-jar/okio/Buffer.java  
\* /opt/ws\_local/PERMITS\_SQL/1018348639\_1594201437.99/0/okio-1-13-0-sources-jar/okio/RealBufferedSource.java  
\* /opt/ws\_local/PERMITS\_SQL/1018348639\_1594201437.99/0/okio-1-13-0-sources-jar/okio/Segment.java  
\* /opt/ws\_local/PERMITS\_SQL/1018348639\_1594201437.99/0/okio-1-13-0-sources-jar/okio/Source.java  
\* /opt/ws\_local/PERMITS\_SQL/1018348639\_1594201437.99/0/okio-1-13-0-sources-jar/okio/SegmentPool.java  
\* /opt/ws\_local/PERMITS\_SQL/1018348639\_1594201437.99/0/okio-1-13-0-sources-jar/okio/Util.java  
\* /opt/ws\_local/PERMITS\_SQL/1018348639\_1594201437.99/0/okio-1-13-0-sources-jar/okio/AsyncTimeout.java  
\* /opt/ws\_local/PERMITS\_SQL/1018348639\_1594201437.99/0/okio-1-13-0-sources-jar/okio/DeflaterSink.java  
\* /opt/ws\_local/PERMITS\_SQL/1018348639\_1594201437.99/0/okio-1-13-0-sources-jar/okio/InflaterSource.java  
\* /opt/ws\_local/PERMITS\_SQL/1018348639\_1594201437.99/0/okio-1-13-0-sources-jar/okio/GzipSource.java

## 1.84 io.spray:spray-json\_2.11 1.3.2

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\* /opt/cola/permits/1685982351\_1684944477.517231/0/spray-json-2-11-1-3-2-sources-jar/spray/json/DefaultJsonProtocol.scala

\* /opt/cola/permits/1685982351\_1684944477.517231/0/spray-json-2-11-1-3-2-sources-jar/spray/json/CollectionFormats.scala

\* /opt/cola/permits/1685982351\_1684944477.517231/0/spray-json-2-11-1-3-2-sources-jar/spray/json/JsonFormat.scala

\* /opt/cola/permits/1685982351\_1684944477.517231/0/spray-json-2-11-1-3-2-sources-jar/spray/json/StandardFormats.scala

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\* /opt/cola/permits/1685982351\_1684944477.517231/0/spray-json-2-11-1-3-2-sources-jar/spray/json/package.scala

## 1.85 java-servlet-api 3.1.0

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- \* /opt/cola/permits/1130988593\_1612871608.58/0/j2objc-annotations-1-1-sources-4-jar/com/google/j2objc/annotations/RetainedLocalRef.java
- \* /opt/cola/permits/1130988593\_1612871608.58/0/j2objc-annotations-1-1-sources-4-jar/com/google/j2objc/annotations/Property.java
- \* /opt/cola/permits/1130988593\_1612871608.58/0/j2objc-annotations-1-1-sources-4-jar/com/google/j2objc/annotations/LoopTranslation.java
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- \* /opt/cola/permits/1130988593\_1612871608.58/0/j2objc-annotations-1-1-sources-4-jar/com/google/j2objc/annotations/RetainedWith.java
- \* /opt/cola/permits/1130988593\_1612871608.58/0/j2objc-annotations-1-1-sources-4-jar/com/google/j2objc/annotations/J2ObjCIncompatible.java

## 1.88 apache-commons-i-o 2.5

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```

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/* -*- Mode: java; tab-width: 4; indent-tabs-mode: 1; c-basic-offset: 4 -*-
```

```
*
```

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```

```
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```

```
* file, You can obtain one at http://mozilla.org/MPL/2.0/. */
```

```
Found in path(s):
```

```
* /opt/cola/permits/1685982655_1684869290.66224/0/closure-compiler-rhino-v20140407-sources-1-
jar/org/mozilla/javascript/IdScriptableObject.java
* /opt/cola/permits/1685982655_1684869290.66224/0/closure-compiler-rhino-v20140407-sources-1-
jar/org/mozilla/javascript/NativeMath.java
* /opt/cola/permits/1685982655_1684869290.66224/0/closure-compiler-rhino-v20140407-sources-1-
jar/org/mozilla/javascript/NativeJSON.java
* /opt/cola/permits/1685982655_1684869290.66224/0/closure-compiler-rhino-v20140407-sources-1-
jar/org/mozilla/javascript/json/JsonParser.java
```

```
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```

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```
* /opt/cola/permits/1685982655_1684869290.66224/0/closure-compiler-rhino-v20140407-sources-1-
jar/org/mozilla/javascript/v8dtoa/CachedPowers.java
* /opt/cola/permits/1685982655_1684869290.66224/0/closure-compiler-rhino-v20140407-sources-1-
jar/org/mozilla/javascript/v8dtoa/DiyFp.java
* /opt/cola/permits/1685982655_1684869290.66224/0/closure-compiler-rhino-v20140407-sources-1-
jar/org/mozilla/javascript/v8dtoa/DoubleHelper.java
* /opt/cola/permits/1685982655_1684869290.66224/0/closure-compiler-rhino-v20140407-sources-1-
jar/org/mozilla/javascript/v8dtoa/FastDtoa.java
```

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## USING IDSWITCH GENERATOR TOOL

Usage:

```
java org.mozilla.javascript.tools.idswitch.Main <SINGLE-JAVA-SOURCE>
```

The main purpose of this utility is to generate Java code to map strings to some ids that can be used, for example, in a switch statement.

The utility scans the input file for lines with the following structure:

```
// #string_id_map#
... <DEFINITION AREA>
// #generated#
...<GENERATED AREA>
// #/generated#
... <DEFINITION AREA>
// #/string_id_map#
```

Then every line in <DEFINITION AREA> is scanned for the pattern:

```
^[\t]*Id_([0-9a-zA-Z_]+)[\t]*=.*$
```

Each such patterns adds a mapping from string \$1 to Id\_\ $\backslash$ \$ or if the line also contains the pattern

```
//\s*#string=\s*(^[^#]+)\s*#, then it adds map of $1 in this pattern to Id_\ \backslash $
```



After that lines in <GENERATED AREA> are replaced by a code block that sets variable "id" to Id\_<name> if variable "s" equals <name> (or value defined by `//#string=...#` construction in the line with Id\_<name>) or 0 otherwise.

If the new code for <GENERATED AREA> is identical to old one, the file is not touched otherwise <GENERATED AREA> is overwritten by the new code and a time stamp is appended after `#generated#`.

For example, if file x.java contains:

```
// #string_id_map#

private int getId(String s) {
 int id;
// #generated# Initial version
// #/generated#
 return id;
}

private static final int
 Id_x = 1,
 Id_y = 2,
 Id_hello = 3, // #string = Hello, World! #
 Id_symbols = 4, // #string=<<*<Symbols*>>#
 Id_nice = 5,
 Id_for = 6,
 Id_bar = 7;

// #/string_id_map#

....

private double getFieldValue(String s) {

// #string_id_map#
final int
 Id_field1 = 1,
 Id_field2 = 2,
 Id_field3 = 3,
 Id_one_more_field = 4; // #string = ONE%MORE%FIELD#

 int id;
// #generated# Initial version
// #/generated#
// #string_id_map#
 switch (id) {
 case Id_field1: return field1;
 case Id_field2: return field2;
 case Id_field3: return field3;
 case Id_one_more_field: return one_more_field;
 }
}
```

```

 }
 throw new RuntimeException("No such field");
}

```

then invocation

```
java org.mozilla.javascript.tools.idswitch.Main x.java
```

would replace that by a code fragment similar to:

```

// #string_id_map#

private int getId(String s) {
 int id;
// #generated# Last update: 2001-05-25 18:00:24 GMT+02:00
 L0: { id = 0; String X = null; int c;
 L: switch (s.length()) {
 case 1: c=s.charAt(0);
 if (c=='x') { id=Id_x; break L0; }
 else if (c=='y') { id=Id_y; break L0; }
 break L;
 case 3: c=s.charAt(0);
 if (c=='b') { if (s.charAt(2)=='r' && s.charAt(1)=='a') {id=Id_bar; break L0;} }
 else if (c=='f') { if (s.charAt(2)=='r' && s.charAt(1)=='o') {id=Id_for; break L0;} }
 break L;
 case 4: X="nice";id=Id_nice; break L;
 case 13: c=s.charAt(0);
 if (c=='<') { X="<<*Symbols*>>";id=Id_symbols; }
 else if (c=='H') { X="Hello, World!";id=Id_hello; }
 break L;
 }
 if (X!=null && X!=s && !X.equals(s)) id = 0;
 }
// #generated#
 return id;
}

private static final int
 Id_x = 1,
 Id_y = 2,
 Id_hello = 3, // #string = Hello, World! #
 Id_symbols = 4, // #string=<<*Symbols*>>#
 Id_nice = 5,
 Id_for = 6,
 Id_bar = 7;

// #/string_id_map#

```

....

```
private double getFieldValue(String s) {

// #string_id_map#
final int
 Id_field1 = 1,
 Id_field2 = 2,
 Id_field3 = 3,
 Id_one_more_field = 4; // #string = ONE%MORE%FIELD#

 int id;
// #generated# Last update: 2001-05-25 16:48:50 GMT+02:00
 L0: { id = 0; String X = null; int c;
 int s_length = s.length();
 if (s_length==6) {
 c=s.charAt(5);
 if (c=='1') { X="field1";id=Id_field1; }
 else if (c=='2') { X="field2";id=Id_field2; }
 else if (c=='3') { X="field3";id=Id_field3; }
 }
 else if (s_length==14) { X="ONE%MORE%FIELD";id=Id_one_more_field; }
 if (X!=null && X!=s && !X.equals(s)) id = 0;
 }
// #/generated#
// #string_id_map#
 switch (id) {
 case Id_field1: return field1;
 case Id_field2: return field2;
 case Id_field3: return field3;
 case Id_one_more_field: return one_more_field;
 }
 throw new RuntimeException("No such field");
}
}
```

Found in path(s):

\* /opt/cola/permits/1685982655\_1684869290.66224/0/closure-compiler-rhino-v20140407-sources-1-jar/org/mozilla/javascript/tools/idswitch/README

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Found in path(s):

\* /opt/cola/permits/1685982655\_1684869290.66224/0/closure-compiler-rhino-v20140407-sources-1-jar/build.xml

\* /opt/cola/permits/1685982655\_1684869290.66224/0/closure-compiler-rhino-v20140407-sources-1-

```
jar/org/mozilla/javascript/commonjs/module/provider/package.html
* /opt/cola/permits/1685982655_1684869290.66224/0/closure-compiler-rhino-v20140407-sources-1-
jar/org/mozilla/javascript/tools/debugger/build.xml
* /opt/cola/permits/1685982655_1684869290.66224/0/closure-compiler-rhino-v20140407-sources-1-
jar/org/mozilla/javascript/commonjs/module/package.html
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```

```
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* file, You can obtain one at http://mozilla.org/MPL/2.0/. */
// throws a special exception. This ensures execution of all pending
```

```
Found in path(s):
* /opt/cola/permits/1685982655_1684869290.66224/0/closure-compiler-rhino-v20140407-sources-1-
jar/org/mozilla/javascript/NativeGenerator.java
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```

```
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* License, v. 2.0. If a copy of the MPL was not distributed with this
* file, You can obtain one at http://mozilla.org/MPL/2.0/. */
/*
* During the great date rewrite of 1.3, we tried to track the
* evolving ECMA standard, which then had a definition of
* getYear which always subtracted 1900. Which we
* implemented, not realizing that it was incompatible with
* the old behavior... now, rather than thrash the behavior
* yet again, we've decided to leave it with the - 1900
* behavior and point people to the getFullYear method. But
* we try to protect existing scripts that have specified a
* version...
*/
```

```
Found in path(s):
* /opt/cola/permits/1685982655_1684869290.66224/0/closure-compiler-rhino-v20140407-sources-1-
jar/org/mozilla/javascript/ContextFactory.java
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* /opt/cola/permits/1685982655_1684869290.66224/0/closure-compiler-rhino-v20140407-sources-1-
jar/org/mozilla/javascript/resources/Messages.properties
* /opt/cola/permits/1685982655_1684869290.66224/0/closure-compiler-rhino-v20140407-sources-1-
jar/org/mozilla/javascript/resources/Messages_fr.properties
```

\* /opt/cola/permits/1685982655\_1684869290.66224/0/closure-compiler-rhino-v20140407-sources-1-jar/org/mozilla/javascript/tools/resources/Messages.properties  
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 * file, You can obtain one at http://mozilla.org/MPL/2.0/. */
/**
 * This interface defines a protocol for the reporting of
 * errors during JavaScript translation in IDE-mode.
 * If the {@link org.mozilla.javascript.Parser}'s error reporter is
 * set to an instance of this interface, then this interface's
 * {@link #warning} and {@link #error} methods are called instead
 * of the {@link org.mozilla.javascript.ErrorReporter} versions. <p>
 *
 * These methods take a source char offset and a length. The
 * rationale is that in interactive IDE-type environments, the source
 * is available and the IDE will want to indicate where the error
 * occurred and how much code participates in it. The start and length
 * are generally chosen to fit within a single line, for readability,
 * but the client is free to use the AST to determine the affected
 * node(s) from the start position and change the error or warning's
 * display bounds.<p>
 *
 */
```

Found in path(s):

\* /opt/cola/permits/1685982655\_1684869290.66224/0/closure-compiler-rhino-v20140407-sources-1-jar/org/mozilla/javascript/ast/IdeErrorReporter.java  
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\* /opt/cola/permits/1685982655\_1684869290.66224/0/closure-compiler-rhino-v20140407-sources-1-jar/org/mozilla/javascript/DToA.java

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/\* -\*- Mode: java; tab-width: 8; indent-tabs-mode: nil; c-basic-offset: 4 -\*-

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Found in path(s):

\* /opt/cola/permits/1685982655\_1684869290.66224/0/closure-compiler-rhino-v20140407-sources-1-jar/org/mozilla/javascript/ast/ThrowStatement.java  
\* /opt/cola/permits/1685982655\_1684869290.66224/0/closure-compiler-rhino-v20140407-sources-1-jar/org/mozilla/javascript/ast/TryStatement.java  
\* /opt/cola/permits/1685982655\_1684869290.66224/0/closure-compiler-rhino-v20140407-sources-1-jar/org/mozilla/javascript/BaseFunction.java  
\* /opt/cola/permits/1685982655\_1684869290.66224/0/closure-compiler-rhino-v20140407-sources-1-jar/org/mozilla/classfile/ByteCode.java  
\* /opt/cola/permits/1685982655\_1684869290.66224/0/closure-compiler-rhino-v20140407-sources-1-jar/org/mozilla/javascript/ContinuationPending.java  
\* /opt/cola/permits/1685982655\_1684869290.66224/0/closure-compiler-rhino-v20140407-sources-1-jar/org/mozilla/javascript/Kit.java  
\* /opt/cola/permits/1685982655\_1684869290.66224/0/closure-compiler-rhino-v20140407-sources-1-jar/org/mozilla/javascript/CompilerEnvirons.java  
\* /opt/cola/permits/1685982655\_1684869290.66224/0/closure-compiler-rhino-v20140407-sources-1-jar/org/mozilla/javascript/debug/DebuggableScript.java  
\* /opt/cola/permits/1685982655\_1684869290.66224/0/closure-compiler-rhino-v20140407-sources-1-jar/org/mozilla/javascript/ast/NodeVisitor.java  
\* /opt/cola/permits/1685982655\_1684869290.66224/0/closure-compiler-rhino-v20140407-sources-1-jar/org/mozilla/javascript/Icode.java  
\* /opt/cola/permits/1685982655\_1684869290.66224/0/closure-compiler-rhino-v20140407-sources-1-jar/org/mozilla/javascript/UniqueTag.java  
\* /opt/cola/permits/1685982655\_1684869290.66224/0/closure-compiler-rhino-v20140407-sources-1-jar/org/mozilla/javascript/ast/ScriptNode.java  
\* /opt/cola/permits/1685982655\_1684869290.66224/0/closure-compiler-rhino-v20140407-sources-1-jar/org/mozilla/javascript/NativeJavaArray.java  
\* /opt/cola/permits/1685982655\_1684869290.66224/0/closure-compiler-rhino-v20140407-sources-1-

jar/org/mozilla/javascript/NativeJavaTopPackage.java  
\* /opt/cola/permits/1685982655\_1684869290.66224/0/closure-compiler-rhino-v20140407-sources-1-  
jar/org/mozilla/javascript/ast/ErrorNode.java  
\* /opt/cola/permits/1685982655\_1684869290.66224/0/closure-compiler-rhino-v20140407-sources-1-  
jar/org/mozilla/javascript/JavaScriptException.java  
\* /opt/cola/permits/1685982655\_1684869290.66224/0/closure-compiler-rhino-v20140407-sources-1-  
jar/org/mozilla/javascript/ast/FunctionCall.java  
\* /opt/cola/permits/1685982655\_1684869290.66224/0/closure-compiler-rhino-v20140407-sources-1-  
jar/org/mozilla/javascript/regexp/NativeRegExp.java  
\* /opt/cola/permits/1685982655\_1684869290.66224/0/closure-compiler-rhino-v20140407-sources-1-  
jar/org/mozilla/javascript/Script.java  
\* /opt/cola/permits/1685982655\_1684869290.66224/0/closure-compiler-rhino-v20140407-sources-1-  
jar/org/mozilla/javascript/Callable.java  
\* /opt/cola/permits/1685982655\_1684869290.66224/0/closure-compiler-rhino-v20140407-sources-1-  
jar/org/mozilla/javascript/NativeJavaObject.java  
\* /opt/cola/permits/1685982655\_1684869290.66224/0/closure-compiler-rhino-v20140407-sources-1-  
jar/org/mozilla/javascript/ast/AstRoot.java  
\* /opt/cola/permits/1685982655\_1684869290.66224/0/closure-compiler-rhino-v20140407-sources-1-  
jar/org/mozilla/javascript/NativeWith.java  
\* /opt/cola/permits/1685982655\_1684869290.66224/0/closure-compiler-rhino-v20140407-sources-1-  
jar/org/mozilla/javascript/ast/ConditionalExpression.java  
\* /opt/cola/permits/1685982655\_1684869290.66224/0/closure-compiler-rhino-v20140407-sources-1-  
jar/org/mozilla/javascript/ast/ErrorCollector.java  
\* /opt/cola/permits/1685982655\_1684869290.66224/0/closure-compiler-rhino-v20140407-sources-1-  
jar/org/mozilla/javascript/ClassShutter.java  
\* /opt/cola/permits/1685982655\_1684869290.66224/0/closure-compiler-rhino-v20140407-sources-1-  
jar/org/mozilla/classfile/ClassFileWriter.java  
\* /opt/cola/permits/1685982655\_1684869290.66224/0/closure-compiler-rhino-v20140407-sources-1-  
jar/org/mozilla/javascript/ast/ArrayComprehensionLoop.java  
\* /opt/cola/permits/1685982655\_1684869290.66224/0/closure-compiler-rhino-v20140407-sources-1-  
jar/org/mozilla/javascript/NativeBoolean.java  
\* /opt/cola/permits/1685982655\_1684869290.66224/0/closure-compiler-rhino-v20140407-sources-1-  
jar/org/mozilla/javascript/ast/ParseProblem.java  
\* /opt/cola/permits/1685982655\_1684869290.66224/0/closure-compiler-rhino-v20140407-sources-1-  
jar/org/mozilla/javascript/optimizer/ClassCompiler.java  
\* /opt/cola/permits/1685982655\_1684869290.66224/0/closure-compiler-rhino-v20140407-sources-1-  
jar/org/mozilla/javascript/Context.java  
\* /opt/cola/permits/1685982655\_1684869290.66224/0/closure-compiler-rhino-v20140407-sources-1-  
jar/org/mozilla/javascript/TopLevel.java  
\* /opt/cola/permits/1685982655\_1684869290.66224/0/closure-compiler-rhino-v20140407-sources-1-  
jar/org/mozilla/javascript/RefCallable.java  
\* /opt/cola/permits/1685982655\_1684869290.66224/0/closure-compiler-rhino-v20140407-sources-1-  
jar/org/mozilla/javascript/ast/Label.java  
\* /opt/cola/permits/1685982655\_1684869290.66224/0/closure-compiler-rhino-v20140407-sources-1-  
jar/org/mozilla/javascript/Delegator.java  
\* /opt/cola/permits/1685982655\_1684869290.66224/0/closure-compiler-rhino-v20140407-sources-1-  
jar/org/mozilla/javascript/ast/NewExpression.java  
\* /opt/cola/permits/1685982655\_1684869290.66224/0/closure-compiler-rhino-v20140407-sources-1-

jar/org/mozilla/javascript/JavaAdapter.java  
\* /opt/cola/permits/1685982655\_1684869290.66224/0/closure-compiler-rhino-v20140407-sources-1-  
jar/org/mozilla/javascript/NativeObject.java  
\* /opt/cola/permits/1685982655\_1684869290.66224/0/closure-compiler-rhino-v20140407-sources-1-  
jar/org/mozilla/javascript/ScriptRuntime.java  
\* /opt/cola/permits/1685982655\_1684869290.66224/0/closure-compiler-rhino-v20140407-sources-1-  
jar/org/mozilla/javascript/ast/XmlExpression.java  
\* /opt/cola/permits/1685982655\_1684869290.66224/0/closure-compiler-rhino-v20140407-sources-1-  
jar/org/mozilla/javascript/ScriptableObject.java  
\* /opt/cola/permits/1685982655\_1684869290.66224/0/closure-compiler-rhino-v20140407-sources-1-  
jar/org/mozilla/javascript/ast/ObjectLiteral.java  
\* /opt/cola/permits/1685982655\_1684869290.66224/0/closure-compiler-rhino-v20140407-sources-1-  
jar/org/mozilla/javascript/ast/ObjectProperty.java  
\* /opt/cola/permits/1685982655\_1684869290.66224/0/closure-compiler-rhino-v20140407-sources-1-  
jar/org/mozilla/javascript/DefaultErrorReporter.java  
\* /opt/cola/permits/1685982655\_1684869290.66224/0/closure-compiler-rhino-v20140407-sources-1-  
jar/org/mozilla/javascript/NativeCall.java  
\* /opt/cola/permits/1685982655\_1684869290.66224/0/closure-compiler-rhino-v20140407-sources-1-  
jar/org/mozilla/javascript/MemberBox.java  
\* /opt/cola/permits/1685982655\_1684869290.66224/0/closure-compiler-rhino-v20140407-sources-1-  
jar/org/mozilla/javascript/serialize/ScriptableOutputStream.java  
\* /opt/cola/permits/1685982655\_1684869290.66224/0/closure-compiler-rhino-v20140407-sources-1-  
jar/org/mozilla/javascript/NativeContinuation.java  
\* /opt/cola/permits/1685982655\_1684869290.66224/0/closure-compiler-rhino-v20140407-sources-1-  
jar/org/mozilla/javascript/tools/debugger/test.js  
\* /opt/cola/permits/1685982655\_1684869290.66224/0/closure-compiler-rhino-v20140407-sources-1-  
jar/org/mozilla/javascript/ast/XmlMemberGet.java  
\* /opt/cola/permits/1685982655\_1684869290.66224/0/closure-compiler-rhino-v20140407-sources-1-  
jar/org/mozilla/javascript/regexp/RegExpImpl.java  
\* /opt/cola/permits/1685982655\_1684869290.66224/0/closure-compiler-rhino-v20140407-sources-1-  
jar/org/mozilla/javascript/SecurityController.java  
\* /opt/cola/permits/1685982655\_1684869290.66224/0/closure-compiler-rhino-v20140407-sources-1-  
jar/org/mozilla/javascript/NativeArray.java  
\* /opt/cola/permits/1685982655\_1684869290.66224/0/closure-compiler-rhino-v20140407-sources-1-  
jar/org/mozilla/javascript/ast/LetNode.java  
\* /opt/cola/permits/1685982655\_1684869290.66224/0/closure-compiler-rhino-v20140407-sources-1-  
jar/org/mozilla/javascript/ast/DestructuringForm.java  
\* /opt/cola/permits/1685982655\_1684869290.66224/0/closure-compiler-rhino-v20140407-sources-1-  
jar/org/mozilla/javascript/ast/ForInLoop.java  
\* /opt/cola/permits/1685982655\_1684869290.66224/0/closure-compiler-rhino-v20140407-sources-1-  
jar/org/mozilla/javascript/ast/BreakStatement.java  
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## 1.91 plexus-io-components 3.0.1

### 1.91.1 Available under license :

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- \* /opt/cola/permits/1685982397\_1684947285.8019888/0/plexus-io-3-0-1-sources-jar/org/codehaus/plexus/components/io/filemappers/PrefixFileMapper.java
- \* /opt/cola/permits/1685982397\_1684947285.8019888/0/plexus-io-3-0-1-sources-jar/org/codehaus/plexus/components/io/resources/AbstractPlexusIoArchiveResourceCollection.java
- \* /opt/cola/permits/1685982397\_1684947285.8019888/0/plexus-io-3-0-1-sources-jar/org/codehaus/plexus/components/io/attributes/SimpleResourceAttributes.java
- \* /opt/cola/permits/1685982397\_1684947285.8019888/0/plexus-io-3-0-1-sources-jar/org/codehaus/plexus/components/io/resources/PlexusIoCompressedFileResourceCollection.java
- \* /opt/cola/permits/1685982397\_1684947285.8019888/0/plexus-io-3-0-1-sources-jar/org/codehaus/plexus/components/io/resources/AbstractPlexusIoResource.java
- \* /opt/cola/permits/1685982397\_1684947285.8019888/0/plexus-io-3-0-1-sources-jar/org/codehaus/plexus/components/io/attributes/FileAttributes.java
- \* /opt/cola/permits/1685982397\_1684947285.8019888/0/plexus-io-3-0-1-sources-jar/org/codehaus/plexus/components/io/resources/LinefeedMode.java
- \* /opt/cola/permits/1685982397\_1684947285.8019888/0/plexus-io-3-0-1-sources-jar/org/codehaus/plexus/components/io/resources/PlexusIoResource.java
- \* /opt/cola/permits/1685982397\_1684947285.8019888/0/plexus-io-3-0-1-sources-jar/org/codehaus/plexus/components/io/filemappers/IdentityMapper.java
- \* /opt/cola/permits/1685982397\_1684947285.8019888/0/plexus-io-3-0-1-sources-jar/org/codehaus/plexus/components/io/attributes/PlexusIoResourceAttributes.java
- \* /opt/cola/permits/1685982397\_1684947285.8019888/0/plexus-io-3-0-1-sources-

jar/org/codehaus/plexus/components/io/resources/PlexusIoFileResource.java  
\* /opt/cola/permits/1685982397\_1684947285.8019888/0/plexus-io-3-0-1-sources-  
jar/org/codehaus/plexus/components/io/fileselectors/AllFilesFileSelector.java  
\* /opt/cola/permits/1685982397\_1684947285.8019888/0/plexus-io-3-0-1-sources-  
jar/org/codehaus/plexus/components/io/resources/proxy/PlexusIoProxyResourceCollection.java  
\* /opt/cola/permits/1685982397\_1684947285.8019888/0/plexus-io-3-0-1-sources-  
jar/org/codehaus/plexus/components/io/filemappers/MergeFileMapper.java  
\* /opt/cola/permits/1685982397\_1684947285.8019888/0/plexus-io-3-0-1-sources-  
jar/org/codehaus/plexus/components/io/attributes/PlexusIoResourceAttributeUtils.java  
\* /opt/cola/permits/1685982397\_1684947285.8019888/0/plexus-io-3-0-1-sources-  
jar/org/codehaus/plexus/components/io/fileselectors/IncludeExcludeFileSelector.java  
\* /opt/cola/permits/1685982397\_1684947285.8019888/0/plexus-io-3-0-1-sources-  
jar/org/codehaus/plexus/components/io/resources/AbstractPlexusIoResourceCollection.java  
\* /opt/cola/permits/1685982397\_1684947285.8019888/0/plexus-io-3-0-1-sources-  
jar/org/codehaus/plexus/components/io/resources/PlexusIoArchivedResourceCollection.java  
\* /opt/cola/permits/1685982397\_1684947285.8019888/0/plexus-io-3-0-1-sources-  
jar/org/codehaus/plexus/components/io/resources/PlexusIoFileResourceCollection.java  
\* /opt/cola/permits/1685982397\_1684947285.8019888/0/plexus-io-3-0-1-sources-  
jar/org/codehaus/plexus/components/io/filemappers/RegExpFileMapper.java  
\* /opt/cola/permits/1685982397\_1684947285.8019888/0/plexus-io-3-0-1-sources-  
jar/org/codehaus/plexus/components/io/filemappers/FileMapper.java  
\* /opt/cola/permits/1685982397\_1684947285.8019888/0/plexus-io-3-0-1-sources-  
jar/org/codehaus/plexus/components/io/fileselectors/FileInfo.java  
\* /opt/cola/permits/1685982397\_1684947285.8019888/0/plexus-io-3-0-1-sources-  
jar/org/codehaus/plexus/components/io/filemappers/FileExtensionMapper.java  
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```

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```
* /opt/cola/permits/1685982397_1684947285.8019888/0/plexus-io-3-0-1-sources-
jar/org/codehaus/plexus/components/io/functions/ContentSupplier.java
* /opt/cola/permits/1685982397_1684947285.8019888/0/plexus-io-3-0-1-sources-
jar/org/codehaus/plexus/components/io/functions/PlexusIoResourceConsumer.java
```

\* /opt/cola/permits/1685982397\_1684947285.8019888/0/plexus-io-3-0-1-sources-jar/org/codehaus/plexus/components/io/resources/proxy/ResourceInvocationHandler.java  
\* /opt/cola/permits/1685982397\_1684947285.8019888/0/plexus-io-3-0-1-sources-jar/org/codehaus/plexus/components/io/functions/ResourceAttributeSupplier.java  
\* /opt/cola/permits/1685982397\_1684947285.8019888/0/plexus-io-3-0-1-sources-jar/org/codehaus/plexus/components/io/attributes/SymlinkUtils.java  
\* /opt/cola/permits/1685982397\_1684947285.8019888/0/plexus-io-3-0-1-sources-jar/org/codehaus/plexus/components/io/resources/Deferred.java  
\* /opt/cola/permits/1685982397\_1684947285.8019888/0/plexus-io-3-0-1-sources-jar/org/codehaus/plexus/components/io/attributes/AttributeUtils.java  
\* /opt/cola/permits/1685982397\_1684947285.8019888/0/plexus-io-3-0-1-sources-jar/org/codehaus/plexus/components/io/resources/proxy/ForwardingIterator.java  
\* /opt/cola/permits/1685982397\_1684947285.8019888/0/plexus-io-3-0-1-sources-jar/org/codehaus/plexus/components/io/functions/FileSupplier.java  
\* /opt/cola/permits/1685982397\_1684947285.8019888/0/plexus-io-3-0-1-sources-jar/org/codehaus/plexus/components/io/functions/InputStreamTransformer.java  
\* /opt/cola/permits/1685982397\_1684947285.8019888/0/plexus-io-3-0-1-sources-jar/org/codehaus/plexus/components/io/functions/SymlinkDestinationSupplier.java  
\* /opt/cola/permits/1685982397\_1684947285.8019888/0/plexus-io-3-0-1-sources-jar/org/codehaus/plexus/components/io/resources/proxy/ProxyFactory.java  
\* /opt/cola/permits/1685982397\_1684947285.8019888/0/plexus-io-3-0-1-sources-jar/org/codehaus/plexus/components/io/functions/NameSupplier.java  
\* /opt/cola/permits/1685982397\_1684947285.8019888/0/plexus-io-3-0-1-sources-jar/org/codehaus/plexus/components/io/functions/SizeSupplier.java  
\* /opt/cola/permits/1685982397\_1684947285.8019888/0/plexus-io-3-0-1-sources-jar/org/codehaus/plexus/components/io/resources/EncodingSupported.java  
\* /opt/cola/permits/1685982397\_1684947285.8019888/0/plexus-io-3-0-1-sources-jar/org/codehaus/plexus/components/io/resources/Stream.java

## 1.92 plexus-classworlds 2.2.2

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Found in path(s):

- \* /opt/cola/permits/1685982729\_1684869258.3749938/0/plexus-classworlds-2-2-2-sources-2-jar/org/codehaus/plexus/classworlds/ClassWorldException.java
- \* /opt/cola/permits/1685982729\_1684869258.3749938/0/plexus-classworlds-2-2-2-sources-2-jar/org/codehaus/plexus/classworlds/launcher/Launcher.java
- \* /opt/cola/permits/1685982729\_1684869258.3749938/0/plexus-classworlds-2-2-2-sources-2-jar/org/codehaus/plexus/classworlds/realm/DuplicateRealmException.java
- \* /opt/cola/permits/1685982729\_1684869258.3749938/0/plexus-classworlds-2-2-2-sources-2-jar/org/codehaus/plexus/classworlds/realm/Entry.java
- \* /opt/cola/permits/1685982729\_1684869258.3749938/0/plexus-classworlds-2-2-2-sources-2-jar/org/codehaus/plexus/classworlds/strategy/Strategy.java
- \* /opt/cola/permits/1685982729\_1684869258.3749938/0/plexus-classworlds-2-2-2-sources-2-jar/org/codehaus/plexus/classworlds/realm/NoSuchRealmException.java
- \* /opt/cola/permits/1685982729\_1684869258.3749938/0/plexus-classworlds-2-2-2-sources-2-jar/org/codehaus/plexus/classworlds/launcher/ConfigurationParser.java
- \* /opt/cola/permits/1685982729\_1684869258.3749938/0/plexus-classworlds-2-2-2-sources-2-jar/org/codehaus/plexus/classworlds/strategy/AbstractStrategy.java
- \* /opt/cola/permits/1685982729\_1684869258.3749938/0/plexus-classworlds-2-2-2-sources-2-jar/org/codehaus/plexus/classworlds/launcher/Configurator.java
- \* /opt/cola/permits/1685982729\_1684869258.3749938/0/plexus-classworlds-2-2-2-sources-2-jar/org/codehaus/plexus/classworlds/ClassWorld.java
- \* /opt/cola/permits/1685982729\_1684869258.3749938/0/plexus-classworlds-2-2-2-sources-2-jar/org/codehaus/plexus/classworlds/launcher/ConfigurationHandler.java
- \* /opt/cola/permits/1685982729\_1684869258.3749938/0/plexus-classworlds-2-2-2-sources-2-jar/org/codehaus/plexus/classworlds/launcher/ConfigurationException.java
- \* /opt/cola/permits/1685982729\_1684869258.3749938/0/plexus-classworlds-2-2-2-sources-2-jar/org/codehaus/plexus/classworlds/realm/ClassRealm.java
- \* /opt/cola/permits/1685982729\_1684869258.3749938/0/plexus-classworlds-2-2-2-sources-2-jar/org/codehaus/plexus/classworlds/strategy/StrategyFactory.java
- \* /opt/cola/permits/1685982729\_1684869258.3749938/0/plexus-classworlds-2-2-2-sources-2-jar/org/codehaus/plexus/classworlds/UrlUtils.java

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\* /opt/cola/permits/1685982729\_1684869258.3749938/0/plexus-classworlds-2-2-2-sources-2-

jar/org/codehaus/classworlds/NoSuchRealmException.java  
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jar/org/codehaus/plexus/classworlds/strategy/SelfFirstStrategy.java
* /opt/cola/permits/1685982729_1684869258.3749938/0/plexus-classworlds-2-2-2-sources-2-
jar/org/codehaus/plexus/classworlds/strategy/ParentFirstStrategy.java
```

## 1.93 selenium 3.3.1

### 1.93.1 Available under license :

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Metadata-Version: 1.1

Name: selenium

Version: 3.3.1

Summary: Python bindings for Selenium

Home-page: <https://github.com/SeleniumHQ/selenium/>

Author: UNKNOWN

Author-email: UNKNOWN

License: Apache 2.0

Description: =====

Selenium Client Driver

=====

Introduction

=====

Python language bindings for Selenium WebDriver.

The `selenium` package is used to automate web browser interaction from Python.

<b>Home</b>	<a href="http://www.seleniumhq.org">http://www.seleniumhq.org</a>
<b>Docs</b>	<a href="https://seleniumhq.github.io/selenium/docs/api/py/api.html">`selenium package API &lt;https://seleniumhq.github.io/selenium/docs/api/py/api.html&gt;`</a>
<b>Dev</b>	<a href="https://github.com/SeleniumHQ/Selenium">https://github.com/SeleniumHQ/Selenium</a>
<b>PyPI</b>	<a href="https://pypi.python.org/pypi/selenium">https://pypi.python.org/pypi/selenium</a>
<b>IRC</b>	<a href="#">`#selenium` channel on freenode</a>

Several browsers/drivers are supported (Firefox, Chrome, Internet Explorer, PhantomJS), as well as the Remote protocol.

### Supported Python Versions

=====

- \* Python 2.6, 2.7
- \* Python 3.3+

### Installing

=====

If you have `pip` [<https://pip.pypa.io/>](https://pip.pypa.io/) on your system, you can simply install or upgrade the Python bindings::

```
pip install -U selenium
```

Alternately, you can download the source distribution from `PyPI` [\(<http://pypi.python.org/pypi/selenium>](http://pypi.python.org/pypi/selenium) (e.g. `selenium-3.3.1.tar.gz`), unarchive it, and run::

```
python setup.py install
```

Note: both of the methods described above install `selenium` as a system-wide package. That will require administrative/root access to their machine. You may consider using a `virtualenv` [\(<http://www.virtualenv.org/>](http://www.virtualenv.org/) to create isolated Python environments instead.

### Drivers

=====

Selenium requires a driver to interface with the chosen browser. Firefox, for example, requires `geckodriver` [\(<https://github.com/mozilla/geckodriver/releases>](https://github.com/mozilla/geckodriver/releases), which needs to be installed before the below examples can be run. Make sure it's in your `PATH`, e. g., place it in `usr/bin` or `usr/local/bin`.

Failure to observe this step will give you an error `selenium.common.exceptions.WebDriverException`:



Message: 'geckodriver' executable needs to be in PATH.`

Other supported browsers will have their own drivers available. Links to some of the more popular browser drivers follow.

```
+-----+
| **Chrome**: | https://sites.google.com/a/chromium.org/chromedriver/downloads |
+-----+
| **Edge**: | https://developer.microsoft.com/en-us/microsoft-edge/tools/webdriver/ |
+-----+
| **Firefox**: | https://github.com/mozilla/geckodriver/releases |
+-----+
| **Safari**: | https://webkit.org/blog/6900/webdriver-support-in-safari-10/ |
+-----+
```

Example 0:

```
=====
```

- \* open a new Firefox browser
- \* load the page at the given URL

```
::
```

```
from selenium import webdriver

browser = webdriver.Firefox()
browser.get('http://seleniumhq.org/')
```

Example 1:

```
=====
```

- \* open a new Firefox browser
- \* load the Yahoo homepage
- \* search for "seleniumhq"
- \* close the browser

```
::
```

```
from selenium import webdriver
from selenium.webdriver.common.keys import Keys

browser = webdriver.Firefox()

browser.get('http://www.yahoo.com')
assert 'Yahoo!' in browser.title

elem = browser.find_element_by_name('p') # Find the search box
elem.send_keys('seleniumhq' + Keys.RETURN)
```

```
browser.quit()
```

Example 2:

```
=====
```

Selenium WebDriver is often used as a basis for testing web applications. Here is a simple example using Python's standard `unittest` [library](http://docs.python.org/3/library/unittest.html):

```
::

import unittest

class GoogleTestCase(unittest.TestCase):

 def setUp(self):
 self.browser = webdriver.Firefox()
 self.addCleanup(self.browser.quit)

 def testPageTitle(self):
 self.browser.get('http://www.google.com')
 self.assertIn('Google', self.browser.title)

if __name__ == '__main__':
 unittest.main(verbosity=2)
```

Selenium Server (optional)

```
=====
```

For normal WebDriver scripts (non-Remote), the Java server is not needed.

However, to use Selenium WebDriver Remote or the legacy Selenium API (Selenium-RC), you need to also run the Selenium server. The server requires a Java Runtime Environment (JRE).

Download the server separately, from: <http://selenium-release.storage.googleapis.com/3.3/selenium-server-standalone-3.3.1.jar>

Run the server from the command line::

```
java -jar selenium-server-standalone-3.3.1.jar
```

Then run your Python client scripts.

Use The Source Luke!

```
=====
```

View source code online:

```
+-----+-----+
| official: | https://github.com/SeleniumHQ/selenium/tree/master/py |
+-----+-----+
```

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\* /opt/cola/permits/1685982331\_1684869208.2362442/0/selenium-3-3-1-tar-gz/selenium-3.3.1/selenium.egg-info/PKG-INFO

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\* /opt/cola/permits/1685982331\_1684869208.2362442/0/selenium-3-3-1-tar-gz/selenium-3.3.1/selenium/webdriver/remote/switch\_to.py

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\* /opt/cola/permits/1685982331\_1684869208.2362442/0/selenium-3-3-1-tar-gz/selenium-3.3.1/selenium/webdriver/common/keys.py

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\* /opt/cola/permits/1685982331\_1684869208.2362442/0/selenium-3-3-1-tar-gz/selenium-3.3.1/selenium/webdriver/firefox/firefox\_binary.py  
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\* /opt/cola/permits/1685982331\_1684869208.2362442/0/selenium-3-3-1-tar-gz/selenium-3.3.1/selenium/webdriver/ie/webdriver.py  
\* /opt/cola/permits/1685982331\_1684869208.2362442/0/selenium-3-3-1-tar-gz/selenium-3.3.1/selenium/webdriver/edge/options.py  
\* /opt/cola/permits/1685982331\_1684869208.2362442/0/selenium-3-3-1-tar-gz/selenium-3.3.1/selenium/webdriver/chrome/remote\_connection.py  
\* /opt/cola/permits/1685982331\_1684869208.2362442/0/selenium-3-3-1-tar-gz/selenium-3.3.1/selenium/webdriver/common/html5/\_\_init\_\_.py  
\* /opt/cola/permits/1685982331\_1684869208.2362442/0/selenium-3-3-1-tar-gz/selenium-3.3.1/selenium/webdriver/safari/\_\_init\_\_.py

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## 1.95 scala 2.11.11

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```
/**
 * Latch used to implement waiting on a DefaultPromise's result.
 *
 * Inspired by: http://gee.cs.oswego.edu/cgi-bin/viewcvs.cgi/jsr166/src/main/java/util/concurrent/locks/AbstractQueuedSynchronizer.java
 * Written by Doug Lea with assistance from members of JCP JSR-166
 * Expert Group and released to the public domain, as explained at
 * http://creativecommons.org/publicdomain/zero/1.0/
 */
```

Found in path(s):

```
*/opt/cola/permits/1011581111_1611240383.69/0/scala-library-2-11-11-sources-jar/scala/concurrent/impl/Promise.scala
```

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```
/**
 *
 * A `ClassTag[T]` stores the erased class of a given type `T`, accessible via the `runtimeClass`
 * field. This is particularly useful for instantiating `Array`s whose element types are unknown
 * at compile time.
 *
 * `ClassTag`s are a weaker special case of [[scala.reflect.api.TypeTags#TypeTag]]s, in that they
 * wrap only the runtime class of a given type, whereas a `TypeTag` contains all static type
 * information. That is, `ClassTag`s are constructed from knowing only the top-level class of a
 * type, without necessarily knowing all of its argument types. This runtime information is enough
 * for runtime `Array` creation.
 *
 * For example:
 * {{{
 * scala> def mkArray[T : ClassTag](elems: T*) = Array[T](elems: _*)
 * mkArray: [T](elems: T*)(implicit evidence$1: scala.reflect.ClassTag[T])Array[T]
 *
 * scala> mkArray(42, 13)
 * res0: Array[Int] = Array(42, 13)
 *
 * scala> mkArray("Japan", "Brazil", "Germany")
 * res1: Array[String] = Array(Japan, Brazil, Germany)
 * }}}
 *
 * See [[scala.reflect.api.TypeTags]] for more examples, or the
 * [[http://docs.scala-lang.org/overviews/reflection/typetags-manifests.html Reflection Guide: TypeTags]]
 * for more details.
 */
```

Found in path(s):

\* /opt/cola/permits/1011581111\_1611240383.69/0/scala-library-2-11-11-sources-jar/scala/reflect/ClassTag.scala

# 1.96 apache-commons-cli 1.3.1

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INF/maven/com.google.protobuf/protobuf-java/pom.xml

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Manifest-Version: 1.0

Bnd-LastModified: 1362700108682

Build-Jdk: 1.7.0-google-v5

Built-By: xiaofeng

Bundle-Description: Protocol Buffers are a way of encoding structured data in an efficient yet extensible format.

Bundle-DocURL: <http://code.google.com/p/protobuf>

Bundle-License: <http://www.opensource.org/licenses/bsd-license.php>

Bundle-ManifestVersion: 2

Bundle-Name: Protocol Buffer Java API

Bundle-SymbolicName: com.google.protobuf

Bundle-Vendor: Google

Bundle-Version: 2.5.0

Created-By: Apache Maven Bundle Plugin

Export-Package: com.google.protobuf;version="2.5.0"

Tool: Bnd-1.50.0

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\* /opt/cola/permits/1474112832\_1668526993.4060051/0/protobuf-java-2-5-0-11-jar/META-INF/MANIFEST.MF

## 1.99 antlr 3.1.3

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\*/

```
group Java implements ANTLRCore;
```

```
javaTypeInitMap ::= [
```

```
 "int": "0",
```

```
 "long": "0",
```

```
 "float": "0.0f",
```

```
 "double": "0.0",
```

```
 "boolean": "false",
```

```
 "byte": "0",
```

```
 "short": "0",
```

```
 "char": "0",
```

```
 default: "null" // anything other than an atomic type
```

```
]
```

```
/** The overall file structure of a recognizer; stores methods for rules
```

```
 * and cyclic DFAs plus support code.
```

```
*/
```

```
outputFile(LEXER,PARSER,TREE_PARSER, actionScope, actions,
```

```
 docComment, recognizer,
```

```
 name, tokens, tokenNames, rules, cyclicDFAs,
```

```
 bitsets, buildTemplate, buildAST, rewriteMode, profile,
```

```
 backtracking, synpreds, memoize, numRules,
```

```
 fileName, ANTLRVersion, generatedTimestamp, trace,
```

```
 scopes, superClass, literals) ::=
```

```
<<
```

```
// $ANTLR <ANTLRVersion> <fileName> <generatedTimestamp>
```

```
<actions.(actionScope).header>
```

```
<@imports>
```

```
import org.antlr.runtime.*;
```

```
<if(TREE_PARSER)>
```

```
import org.antlr.runtime.tree.*;
```

```
<endif>
```

```

import java.util.Stack;
import java.util.List;
import java.util.ArrayList;
<if(backtracking)>
import java.util.Map;
import java.util.HashMap;
<endif>
<@end>

<docComment>
<recognizer>
>>

lexer(grammar, name, tokens, scopes, rules, numRules, labelType="Token",
 filterMode, superClass="Lexer") ::= <<
public class <grammar.recognizerName> extends <@superClassName><superClass><@end> {
 <tokens:{public static final int <it.name>=<it.type>; separator="\n">
 <scopes:{<if(it.isDynamicGlobalScope)><globalAttributeScope(scope=it)><endif>}>
 <actions.lexer.members>

 // delegates
 <grammar.delegates:
 {g|public <g.recognizerName> <g.delegateName(>); separator="\n">
 // delegators
 <grammar.delegators:
 {g|public <g.recognizerName> <g.delegateName(>); separator="\n">
 <last(grammar.delegators):{g|public <g.recognizerName> gParent;}>

 public <grammar.recognizerName>() {;} <! needed by subclasses !>
 public <grammar.recognizerName>(CharStream input<grammar.delegators:{g|, <g.recognizerName>
 <g.delegateName(>}>)} {
 this(input, new RecognizerSharedState()<grammar.delegators:{g|, <g.delegateName(>}>);
 }
 public <grammar.recognizerName>(CharStream input, RecognizerSharedState state<grammar.delegators:{g|,
 <g.recognizerName> <g.delegateName(>}>)} {
 super(input,state);
 <if(memoize)>
 <if(grammar.grammarIsRoot)>
 state.ruleMemo = new HashMap[<numRules>+1];<\n> <! index from 1..n !>
 <endif>
 <endif>

 <grammar.directDelegates:
 {g|<g.delegateName(> = new <g.recognizerName>(input, state<trunc(g.delegators):{p|,
 <p.delegateName(>}>, this);}; separator="\n">
 <grammar.delegators:
 {g|this.<g.delegateName(> = <g.delegateName(>}; separator="\n">
 <last(grammar.delegators):{g|gParent = <g.delegateName(>};}>
 }

```



```

public String getGrammarFileName() { return "<fileName>"; }

<if(filterMode)>
 <filteringNextToken()>
<endif>
<rules; separator="\n\n">

<synpreds:{p | <lexerSynpred(p)>}>

<cyclicDFAs:{dfa | protected DFA<dfa.decisionNumber> dfa<dfa.decisionNumber> = new
DFA<dfa.decisionNumber>(this);}; separator="\n">
<cyclicDFAs:cyclicDFA()> <! dump tables for all DFA !>

}
>>

/** A override of Lexer.nextToken() that backtracks over mTokens() looking
 * for matches. No error can be generated upon error; just rewind, consume
 * a token and then try again. backtracking needs to be set as well.
 * Make rule memoization happen only at levels above 1 as we start mTokens
 * at backtracking==1.
 */
filteringNextToken() ::= <<
public Token nextToken() {
 while (true) {
 if (input.LA(1)==CharStream.EOF) {
 return Token.EOF_TOKEN;
 }
 state.token = null;
state.channel = Token.DEFAULT_CHANNEL;
 state.tokenStartCharIndex = input.index();
 state.tokenStartCharPositionInLine = input.getCharPositionInLine();
 state.tokenStartLine = input.getLine();
state.text = null;
 try {
 int m = input.mark();
 state.backtracking=1; <! means we won't throw slow exception !>
 state.failed=false;
 mTokens();
 state.backtracking=0;
 <! mTokens backtracks with synpred at backtracking==2
 and we set the synpredgate to allow actions at level 1. !>
 if (state.failed) {
 input.rewind(m);
 input.consume(); <! advance one char and try again !>
 }
 }
 else {
 emit();
 }
 }
}

```

```

 return state.token;
 }
}
catch (RecognitionException re) {
 // shouldn't happen in backtracking mode, but...
 reportError(re);
 recover(re);
}
}
}

public void memoize(IntStream input,
 int ruleIndex,
 int ruleStartIndex)
{
if (state.backtracking>1) super.memoize(input, ruleIndex, ruleStartIndex);
}

public boolean alreadyParsedRule(IntStream input, int ruleIndex) {
if (state.backtracking>1) return super.alreadyParsedRule(input, ruleIndex);
return false;
}
>>

actionGate() ::= "state.backtracking==0"

filteringActionGate() ::= "state.backtracking==1"

/** How to generate a parser */
genericParser(grammar, name, scopes, tokens, tokenNames, rules, numRules,
 bitsets, inputStreamType, superClass,
 ASTLabelType="Object", labelType, members, rewriteElementType,
 filterMode) ::= <<
public class <grammar.recognizerName> extends <@superClassName><superClass><@end> {
<if(grammar.grammarIsRoot)>
 public static final String[] tokenNames = new String[] {
 "\<invalid>", "\<EOR>", "\<DOWN>", "\<UP>", <tokenNames; separator=", ">
 };<\n>
<endif>
 <tokens:{public static final int <it.name>=<it.type>;}; separator="\n">

 // delegates
 <grammar.delegates:
 {g|public <g.recognizerName> <g.delegateName()>;}; separator="\n">
 // delegators
 <grammar.delegators:
 {g|public <g.recognizerName> <g.delegateName()>;}; separator="\n">
 <last(grammar.delegators):{g|public <g.recognizerName> gParent;}>

```

```

<scopes:{<if(it.isDynamicGlobalScope)><globalAttributeScope(scope=it)><endif>}>
<@members>
<! WARNING. bug in ST: this is cut-n-paste into Dbg.stg !>
public <grammar.recognizerName><(<inputStreamType> input<grammar.delegators:{g|,<g.recognizerName>
<g.delegateName()>}>)> {
 this(input, new RecognizerSharedState()<grammar.delegators:{g|,<g.delegateName()>}>);
}
public <grammar.recognizerName><(<inputStreamType> input, RecognizerSharedState
state<grammar.delegators:{g|,<g.recognizerName> <g.delegateName()>}>)> {
 super(input, state);
 <parserCtorBody()>
 <grammar.directDelegates:
 {g|<g.delegateName()> = new <g.recognizerName>(input, state<trunc(g.delegators):{p|,
<p.delegateName()>}>, this); separator="\n">
 <grammar.indirectDelegates:{g | <g.delegateName()> = <g.delegator.delegateName()>.<g.delegateName()>;}
separator="\n">
 <last(grammar.delegators):{g|gParent = <g.delegateName()>;}>
}
<@end>

public String[] getTokenNames() { return <grammar.composite.rootGrammar.recognizerName>.tokenNames; }
public String getGrammarFileName() { return "<fileName>"; }

<members>

<rules; separator="\n\n">

<! generate rule/method definitions for imported rules so they
appear to be defined in this recognizer. !>
// Delegated rules
<grammar.delegatedRules:{ruleDescriptor|
 public <returnType()> <ruleDescriptor.name><(<ruleDescriptor.parameterScope:parameterScope(scope=it)>
throws RecognitionException \{ <if(ruleDescriptor.hasReturnValue)>return
<endif><ruleDescriptor.grammar:delegateName()>.<ruleDescriptor.name><(<ruleDescriptor.parameterScope.attribut
es:{a|<a.name>; separator=", ">}; separator=", ">); \} }>; separator="\n">

 <synpreds:{p | <synpred(p)>}>

 <cyclicDFAs:{dfa | protected DFA<dfa.decisionNumber> dfa<dfa.decisionNumber> = new
DFA<dfa.decisionNumber>(this);}; separator="\n">
 <cyclicDFAs:cyclicDFA()> <! dump tables for all DFA !>

 <bitsets:bitset(name={FOLLOW_<it.name>_in_<it.inName><it.tokenIndex>},
 words64=it.bits)>
}
>>

```

```

parserCtorBody() ::= <<
<if(memoize)>
<if(grammar.grammarIsRoot)>
this.state.ruleMemo = new HashMap[<length(grammar.allImportedRules)>+1];<\n> <! index from 1..n !>
<endif>
<endif>
<grammar.delegators:
{g|this.<g.delegateName()> = <g.delegateName()>; separator="\n">
>>

parser(grammar, name, scopes, tokens, tokenNames, rules, numRules, bitsets,
 ASTLabelType="Object", superClass="Parser", labelType="Token",
 members={<actions.parser.members>}) ::= <<
<genericParser(inputStreamType="TokenStream", rewriteElementType="Token", ...)>
>>

/** How to generate a tree parser; same as parser except the input
 * stream is a different type.
 */
treeParser(grammar, name, scopes, tokens, tokenNames, globalAction, rules,
 numRules, bitsets, labelType={<ASTLabelType>}, ASTLabelType="Object",
superClass={<if(filterMode)><if(buildAST)>TreeRewriter<else>TreeFilter<endif><else>TreeParser<endif>},
members={<actions.treeparser.members>},
 filterMode) ::= <<
<genericParser(inputStreamType="TreeNodeStream", rewriteElementType="Node", ...)>
>>

/** A simpler version of a rule template that is specific to the imaginary
 * rules created for syntactic predicates. As they never have return values
 * nor parameters etc..., just give simplest possible method. Don't do
 * any of the normal memoization stuff in here either; it's a waste.
 * As predicates cannot be inlined into the invoking rule, they need to
 * be in a rule by themselves.
 */
synpredRule(ruleName, ruleDescriptor, block, description, nakedBlock) ::=
<<
// $ANTLR start <ruleName>
public final void <ruleName>_fragment(<ruleDescriptor.parameterScope:parameterScope(scope=it)>) throws
RecognitionException {
 <ruleLabelDefs()>
<if(trace)>
 traceIn("<ruleName>_fragment", <ruleDescriptor.index>);
 try {
 <block>
 }
 finally {
 traceOut("<ruleName>_fragment", <ruleDescriptor.index>);
 }
}

```

```

<else>
 <block>
<endif>
}
// $ANTLR end <ruleName>
>>

synpred(name) ::= <<
public final boolean <name>() {
 state.backtracking++;
 <@start()>
 int start = input.mark();
 try {
 <name>_fragment(); // can never throw exception
 } catch (RecognitionException re) {
 System.err.println("impossible: "+re);
 }
 boolean success = !state.failed;
 input.rewind(start);
 <@stop()>
 state.backtracking--;
 state.failed=false;
 return success;
}<\n>
>>

lexerSynpred(name) ::= <<
<synpred(name)>
>>

ruleMemoization(name) ::= <<
<if(memoize)>
if (state.backtracking>0 && alreadyParsedRule(input, <ruleDescriptor.index>)) { return <ruleReturnValue()>; }
<endif>
>>

/** How to test for failure and return from rule */
checkRuleBacktrackFailure() ::= <<
<if(backtracking)>if (state.failed) return <ruleReturnValue()>;<endif>
>>

/** This rule has failed, exit indicating failure during backtrack */
ruleBacktrackFailure() ::= <<
<if(backtracking)>if (state.backtracking>0) { state.failed=true; return <ruleReturnValue()>;}<endif>
>>

/** How to generate code for a rule. This includes any return type
 * data aggregates required for multiple return values.

```

```

*/
rule(ruleName,ruleDescriptor,block,emptyRule,description,exceptions,finally,memoize) ::= <<
<ruleAttributeScope(scope=ruleDescriptor.ruleScope)>
<returnScope(scope=ruleDescriptor.returnScope)>

// $ANTLR start "<ruleName>"
// <fileName>:<description>
public final <returnType()> <ruleName>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>) throws
RecognitionException {
 <if(trace)>traceIn("<ruleName>", <ruleDescriptor.index>);<endif>
 <ruleScopeSetUp()>
 <ruleDeclarations()>
 <ruleLabelDefs()>
 <ruleDescriptor.actions.init>
 <@preamble()>
 try {
 <ruleMemoization(name=ruleName)>
 <block>
 <ruleCleanUp()>
 <(ruleDescriptor.actions.after):execAction()>
 }
 <if(exceptions)>
 <exceptions:{e|<catch(decl=e.decl,action=e.action)><\n}>>
 <else>
 <if(!emptyRule)>
 <if(actions.(actionScope).rulecatch)>
 <actions.(actionScope).rulecatch>
 <else>
 catch (RecognitionException re) {
 reportError(re);
 recover(input,re);
 <@setErrorReturnValue()>
 }<\n>
 <endif>
 <endif>
 <endif>
 finally {
 <if(trace)>traceOut("<ruleName>", <ruleDescriptor.index>);<endif>
 <memoize()>
 <ruleScopeCleanUp()>
 <finally>
 }
 <@postamble()>
 return <ruleReturnValue()>;
}
// $ANTLR end "<ruleName>"
>>

```

```

catch(decl,action) ::= <<
catch (<e.decl>) {
 <e.action>
}
>>

ruleDeclarations() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<returnType()> retval = new <returnType()>();
retval.start = input.LT(1);<\n>
<else>
<ruleDescriptor.returnScope.attributes:{ a |
<a.type> <a.name> = <if(a.initValue)><a.initValue><else><initValue(a.type)><endif>;
}>
<endif>
<if(memoize)>
int <ruleDescriptor.name>_startIndex = input.index();
<endif>
>>

ruleScopeSetUp() ::= <<
<ruleDescriptor.useScopes:{<it>_stack.push(new <it>_scope());}; separator="\n">
<ruleDescriptor.ruleScope:{<it.name>_stack.push(new <it.name>_scope());}; separator="\n">
>>

ruleScopeCleanUp() ::= <<
<ruleDescriptor.useScopes:{<it>_stack.pop();}; separator="\n">
<ruleDescriptor.ruleScope:{<it.name>_stack.pop();}; separator="\n">
>>

ruleLabelDefs() ::= <<
<[ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels,
ruleDescriptor.wildcardTreeLabels,ruleDescriptor.wildcardTreeListLabels]
: {<labelType> <it.label.text>=null;}; separator="\n"
>
<[ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels,ruleDescriptor.wildcardTreeListLabels]
: {List list_<it.label.text>=null;}; separator="\n"
>
<ruleDescriptor.ruleLabels:ruleLabelDef(label=it); separator="\n">
<ruleDescriptor.ruleListLabels:{ll<ll:ruleLabelDef(label=it)> <ll.label.text> = null;}; separator="\n">
>>

lexerRuleLabelDefs() ::= <<
<[ruleDescriptor.tokenLabels,
ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleLabels]
: {<labelType> <it.label.text>=null;}; separator="\n"
>

```

```

<ruleDescriptor.charLabels:{int <it.label.text>;}; separator="\n">
<[ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleListLabels]
:{List list_<it.label.text>=null;}; separator="\n"
>
>>

ruleReturnValue() ::= <<
<if(!ruleDescriptor.isSynPred)>
<if(ruleDescriptor.hasReturnValue)>
<if(ruleDescriptor.hasSingleReturnValue)>
<ruleDescriptor.singleValueReturnName>
<else>
retval
<endif>
<endif>
<endif>
>>

ruleCleanUp() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<if(!TREE_PARSER)>
retval.stop = input.LT(-1);<\n>
<endif>
<endif>
>>

memoize() ::= <<
<if(memoize)>
<if(backtracking)>
if (state.backtracking>0) { memoize(input, <ruleDescriptor.index>, <ruleDescriptor.name>_StartIndex); }
<endif>
<endif>
>>

/** How to generate a rule in the lexer; naked blocks are used for
 * fragment rules.
 */
lexerRule(ruleName,nakedBlock,ruleDescriptor,block,memoize) ::= <<
// $ANTLR start "<ruleName>"
public final void m<ruleName>(<ruleDescriptor.parameterScope;parameterScope(scope=it)>) throws
RecognitionException {
<if(trace)>traceIn("<ruleName>", <ruleDescriptor.index>);<endif>
<ruleScopeSetUp()>
<ruleDeclarations()>
try {
<if(nakedBlock)>
<ruleMemoization(name=ruleName)>

```



```

 <lexerRuleLabelDefs()>
 <ruleDescriptor.actions.init>
 <block><\n>
<else>
 int _type = <ruleName>;
 int _channel = DEFAULT_TOKEN_CHANNEL;
 <ruleMemoization(name=ruleName)>
 <lexerRuleLabelDefs()>
 <ruleDescriptor.actions.init>
 <block>
 <ruleCleanUp()>
 state.type = _type;
 state.channel = _channel;
 <(ruleDescriptor.actions.after):execAction()>
<endif>
}
finally {
 <if(trace)>traceOut("<ruleName>", <ruleDescriptor.index>);<endif>
 <ruleScopeCleanUp()>
 <memoize()>
}
}
// $ANTLR end "<ruleName>"
>>

```

```

/** How to generate code for the implicitly-defined lexer grammar rule
 * that chooses between lexer rules.
 */

```

```

tokensRule(ruleName,nakedBlock,args,block,ruleDescriptor) ::= <<
public void mTokens() throws RecognitionException {
 <block><\n>
}
>>

```

```

// S U B R U L E S

```

```

/** A (...) subrule with multiple alternatives */

```

```

block(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// <fileName>:<description>
int alt<decisionNumber>=<maxAlt>;
<decls>
<@predecision()>
<decision>
<@postdecision()>
<@prebranch()>
switch (alt<decisionNumber>) {
 <alts:altSwitchCase()>
}

```

```

<@postbranch()>
>>

/** A rule block with multiple alternatives */
ruleBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// <fileName>:<description>
int alt<decisionNumber>=<maxAlt>;
<decls>
<@predecision()>
<decision>
<@postdecision()>
switch (alt<decisionNumber>) {
 <alts:altSwitchCase()>
}
>>

ruleBlockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
// <fileName>:<description>
<decls>
<@prealt()>
<alts>
<@postalt()>
>>

/** A special case of a (...) subrule with a single alternative */
blockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
// <fileName>:<description>
<decls>
<@prealt()>
<alts>
<@postalt()>
>>

/** A (..)+ block with 1 or more alternatives */
positiveClosureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// <fileName>:<description>
int cnt<decisionNumber>=0;
<decls>
<@preloop()>
loop<decisionNumber>:
do {
 int alt<decisionNumber>=<maxAlt>;
 <@predecision()>
 <decision>
 <@postdecision()>
 switch (alt<decisionNumber>) {
 <alts:altSwitchCase()>

```

```

default :
 if (cnt<decisionNumber> >= 1) break loop<decisionNumber>;
 <ruleBacktrackFailure()>
 EarlyExitException eee =
 new EarlyExitException(<decisionNumber>, input);
 <@earlyExitException()>
 throw eee;
 }
 cnt<decisionNumber>++;
} while (true);
<@postloop()>
>>

```

positiveClosureBlockSingleAlt ::= positiveClosureBlock

```

/** A (..)* block with 1 or more alternatives */
closureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::=
<<
// <fileName>:<description>
<decls>
<@preloop()>
loop<decisionNumber>:
do {
 int alt<decisionNumber>=<maxAlt>;
 <@predecision()>
 <decision>
 <@postdecision()>
 switch (alt<decisionNumber>) {
<alts:altSwitchCase()>
 default :
 break loop<decisionNumber>;
 }
} while (true);
<@postloop()>
>>

```

closureBlockSingleAlt ::= closureBlock

```

/** Optional blocks (x)? are translated to (x|) by before code generation
 * so we can just use the normal block template
 */

```

optionalBlock ::= block

optionalBlockSingleAlt ::= block

```

/** A case in a switch that jumps to an alternative given the alternative
 * number. A DFA predicts the alternative and then a simple switch
 * does the jump to the code that actually matches that alternative.

```

```

*/
altSwitchCase() ::= <<
case <i> :
 <@prealt(>
 <it>
 break;<\n>
>>

/** An alternative is just a list of elements; at outermost level */
alt(elements,altNum,description,autoAST,outerAlt,treeLevel,rew) ::= <<
// <fileName>:<description>
{
<@declarations(>
<elements:element(>
<rew>
<@cleanup(>
}
>>

/** What to emit when there is no rewrite. For auto build
* mode, does nothing.
*/
noRewrite(rewriteBlockLevel, treeLevel) ::= ""

// E L E M E N T S

/** Dump the elements one per line */
element() ::= <<
<@prematch(>
<it.el><\n>
>>

/** match a token optionally with a label in front */
tokenRef(token,label,elementIndex,hetero) ::= <<
<if(label)><label>=<labelType><endif>match(input,<token>,FOLLOW_<token>_in_<ruleName><elementIndex
>); <checkRuleBacktrackFailure(>
>>

/** ids+=ID */
tokenRefAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRef(...>
<listLabel(elem=label,...>
>>

listLabel(label,elem) ::= <<
if (list_<label>==null) list_<label>=new ArrayList();
list_<label>.add(<elem>);<\n>
>>

```

```

/** match a character */
charRef(char,label) ::= <<
<if(label)>
<label> = input.LA(1);<\n>
<endif>
match(<char>); <checkRuleBacktrackFailure()>
>>

/** match a character range */
charRangeRef(a,b,label) ::= <<
<if(label)>
<label> = input.LA(1);<\n>
<endif>
matchRange(<a>,); <checkRuleBacktrackFailure()>
>>

/** For now, sets are interval tests and must be tested inline */
matchSet(s,label,elementIndex,postmatchCode="") ::= <<
<if(label)>
<if(LEXER)>
<label>= input.LA(1);<\n>
<else>
<label>=(<labelType>)input.LT(1);<\n>
<endif>
<endif>
if (<s>) {
 input.consume();
 <postmatchCode>
<if(!LEXER)>
 state.errorRecovery=false;
<endif>
 <if(backtracking)>state.failed=false;<endif>
}
else {
 <ruleBacktrackFailure()>
 MismatchedSetException mse = new MismatchedSetException(null,input);
 <@mismatchedSetException()>
<if(LEXER)>
 recover(mse);
 throw mse;
<else>
 throw mse;
 <! use following code to make it recover inline; remove throw mse;
 recoverFromMismatchedSet(input,mse,FOLLOW_set_in_<ruleName><elementIndex>);
 !>
<endif>
}<\n>

```

>>

```
matchRuleBlockSet ::= matchSet
```

```
matchSetAndListLabel(s,label,elementIndex,postmatchCode) ::= <<
<matchSet(...)>
<listLabel(elem=label,...)>
>>
```

```
/** Match a string literal */
lexerStringRef(string,label) ::= <<
<if(label)>
int <label>Start = getCharIndex();
match(<string>); <checkRuleBacktrackFailure()>
<label> = new CommonToken(input, Token.INVALID_TOKEN_TYPE, Token.DEFAULT_CHANNEL,
<label>Start, getCharIndex()-1);
<else>
match(<string>); <checkRuleBacktrackFailure()><\n>
<endif>
>>
```

```
wildcard(label,elementIndex) ::= <<
<if(label)>
<label>=(<labelType>)input.LT(1);<\n>
<endif>
matchAny(input); <checkRuleBacktrackFailure()>
>>
```

```
wildcardAndListLabel(label,elementIndex) ::= <<
<wildcard(...)>
<listLabel(elem=label,...)>
>>
```

```
/** Match . wildcard in lexer */
wildcardChar(label, elementIndex) ::= <<
<if(label)>
<label> = input.LA(1);<\n>
<endif>
matchAny(); <checkRuleBacktrackFailure()>
>>
```

```
wildcardCharListLabel(label, elementIndex) ::= <<
<wildcardChar(...)>
<listLabel(elem=label,...)>
>>
```

```
/** Match a rule reference by invoking it possibly with arguments
* and a return value or values. The 'rule' argument was the
```

```

* target rule name, but now is type Rule, whose toString is
* same: the rule name. Now though you can access full rule
* descriptor stuff.
*/
ruleRef(rule,label,elementIndex,args,scope) ::= <<
pushFollow(FOLLOW_<rule.name>_in_<ruleName><elementIndex>);
<if(label)><label>=<endif><if(scope)><scope:delegateName()>.<endif><rule.name>(<args; separator=", ">);<\n>
state._fsp--;
<checkRuleBacktrackFailure()>
>>

/** ids+=r */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>
<listLabel(elem=label,...)>
>>

/** A lexer rule reference.
*
* The 'rule' argument was the target rule name, but now
* is type Rule, whose toString is same: the rule name.
* Now though you can access full rule descriptor stuff.
*/
lexerRuleRef(rule,label,args,elementIndex,scope) ::= <<
<if(label)>
int <label>Start<elementIndex> = getCharIndex();
<if(scope)><scope:delegateName()>.<endif>m<rule.name>(<args; separator=", ">);
<checkRuleBacktrackFailure()>
<label> = new CommonToken(input, Token.INVALID_TOKEN_TYPE, Token.DEFAULT_CHANNEL,
<label>Start<elementIndex>, getCharIndex()-1);
<else>
<if(scope)><scope:delegateName()>.<endif>m<rule.name>(<args; separator=", ">);
<checkRuleBacktrackFailure()>
<endif>
>>

/** i+=INT in lexer */
lexerRuleRefAndListLabel(rule,label,args,elementIndex,scope) ::= <<
<lexerRuleRef(...)>
<listLabel(elem=label,...)>
>>

/** EOF in the lexer */
lexerMatchEOF(label,elementIndex) ::= <<
<if(label)>
int <label>Start<elementIndex> = getCharIndex();
match(EOF); <checkRuleBacktrackFailure()>
<labelType> <label> = new CommonToken(input, EOF, Token.DEFAULT_CHANNEL,

```

```

<label>Start<elementIndex>, getCharIndex()-1);
<else>
match(EOF); <checkRuleBacktrackFailure()>
<endif>
>>

/** match ^(root children) in tree parser */
tree(root, actionsAfterRoot, children, nullableChildList,
 enclosingTreeLevel, treeLevel) ::= <<
<root:element()>
<actionsAfterRoot:element()>
<if(nullableChildList)>
if (input.LA(1)==Token.DOWN) {
 match(input, Token.DOWN, null); <checkRuleBacktrackFailure()>
 <children:element()>
 match(input, Token.UP, null); <checkRuleBacktrackFailure()>
}
<else>
match(input, Token.DOWN, null); <checkRuleBacktrackFailure()>
<children:element()>
match(input, Token.UP, null); <checkRuleBacktrackFailure()>
<endif>
>>

/** Every predicate is used as a validating predicate (even when it is
 * also hoisted into a prediction expression).
 */
validateSemanticPredicate(pred,description) ::= <<
if (!(<evalPredicate(...)>)) {
 <ruleBacktrackFailure()>
 throw new FailedPredicateException(input, "<ruleName>", "<description>");
}
>>

// F i x e d D F A (if-then-else)

dfaState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
int LA<decisionNumber>_<stateNumber> = input.LA(<k>);<\n>
<edges; separator="\nelse ">
else {
<if(eotPredictsAlt)>
 alt<decisionNumber>=<eotPredictsAlt>;
<else>
 <ruleBacktrackFailure()>
 NoViableAltException nvae =
 new NoViableAltException("<description>", <decisionNumber>, <stateNumber>, input);<\n>
 <@noViableAltException()>
 throw nvae;<\n>

```



```

<endif>
}
>>

/** Same as a normal DFA state except that we don't examine lookahead
 * for the bypass alternative. It delays error detection but this
 * is faster, smaller, and more what people expect. For (X)? people
 * expect "if (LA(1)==X) match(X);" and that's it.
 */
dfaOptionalBlockState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
int LA<decisionNumber>_<stateNumber> = input.LA(<k>);<\n>
<edges; separator="\nelse ">
>>

/** A DFA state that is actually the loopback decision of a closure
 * loop. If end-of-token (EOT) predicts any of the targets then it
 * should act like a default clause (i.e., no error can be generated).
 * This is used only in the lexer so that for ('a')* on the end of a rule
 * anything other than 'a' predicts exiting.
 */
dfaLoopbackState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
int LA<decisionNumber>_<stateNumber> = input.LA(<k>);<\n>
<edges; separator="\nelse "><\n>
<if(eotPredictsAlt)>
<if(!edges)>
alt<decisionNumber>=<eotPredictsAlt>; <! if no edges, don't gen ELSE !>
<else>
else {
 alt<decisionNumber>=<eotPredictsAlt>;
}<\n>
<endif>
<endif>
>>

/** An accept state indicates a unique alternative has been predicted */
dfaAcceptState(alt) ::= "alt<decisionNumber>=<alt>";

/** A simple edge with an expression. If the expression is satisfied,
 * enter to the target state. To handle gated productions, we may
 * have to evaluate some predicates for this edge.
 */
dfaEdge(labelExpr, targetState, predicates) ::= <<
if ((<labelExpr> <if(predicates)>&& (<predicates>)<endif>) {
 <targetState>
}
>>

// F i x e d D F A (switch case)

```

```

/** A DFA state where a SWITCH may be generated. The code generator
 * decides if this is possible: CodeGenerator.canGenerateSwitch().
 */
dfaStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch (input.LA(<k>)) {
<edges; separator="\n">
default:
<if(eotPredictsAlt)>
 alt<decisionNumber>=<eotPredictsAlt>;
<else>
 <ruleBacktrackFailure()>
 NoViableAltException nvae =
 new NoViableAltException("<description>", <decisionNumber>, <stateNumber>, input);<\n>
 <@noViableAltException()>
 throw nvae;<\n>
<endif>
}<\n>
>>

dfaOptionalBlockStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch (input.LA(<k>)) {
 <edges; separator="\n">
}<\n>
>>

dfaLoopbackStateSwitch(k, edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch (input.LA(<k>)) {
<edges; separator="\n"><\n>
<if(eotPredictsAlt)>
default:
 alt<decisionNumber>=<eotPredictsAlt>;
 break;<\n>
<endif>
}<\n>
>>

dfaEdgeSwitch(labels, targetState) ::= <<
<labels:{case <it>:}; separator="\n">
{
 <targetState>
}
break;
>>

// C y c l i c D F A

/** The code to initiate execution of a cyclic DFA; this is used

```

```

* in the rule to predict an alt just like the fixed DFA case.
* The <name> attribute is inherited via the parser, lexer, ...
*/
dfaDecision(decisionNumber,description) ::= <<
alt<decisionNumber> = dfa<decisionNumber>.predict(input);
>>

/* Dump DFA tables as run-length-encoded Strings of octal values.
* Can't use hex as compiler translates them before compilation.
* These strings are split into multiple, concatenated strings.
* Java puts them back together at compile time thankfully.
* Java cannot handle large static arrays, so we're stuck with this
* encode/decode approach. See analysis and runtime DFA for
* the encoding methods.
*/
cyclicDFA(dfa) ::= <<
static final String DFA<dfa.decisionNumber>_eotS =
 "<dfa.javaCompressedEOT; wrap=\""+\n \>";
static final String DFA<dfa.decisionNumber>_eofS =
 "<dfa.javaCompressedEOF; wrap=\""+\n \>";
static final String DFA<dfa.decisionNumber>_minS =
 "<dfa.javaCompressedMin; wrap=\""+\n \>";
static final String DFA<dfa.decisionNumber>_maxS =
 "<dfa.javaCompressedMax; wrap=\""+\n \>";
static final String DFA<dfa.decisionNumber>_acceptS =
 "<dfa.javaCompressedAccept; wrap=\""+\n \>";
static final String DFA<dfa.decisionNumber>_specialS =
 "<dfa.javaCompressedSpecial; wrap=\""+\n \>}>";
static final String[] DFA<dfa.decisionNumber>_transitionS = {
 <dfa.javaCompressedTransition:{s|<s; wrap=\""+\n\>"}; separator=",\n">
};

static final short[] DFA<dfa.decisionNumber>_eot =
DFA.unpackEncodedString(DFA<dfa.decisionNumber>_eotS);
static final short[] DFA<dfa.decisionNumber>_eof =
DFA.unpackEncodedString(DFA<dfa.decisionNumber>_eofS);
static final char[] DFA<dfa.decisionNumber>_min =
DFA.unpackEncodedStringToUnsignedChars(DFA<dfa.decisionNumber>_minS);
static final char[] DFA<dfa.decisionNumber>_max =
DFA.unpackEncodedStringToUnsignedChars(DFA<dfa.decisionNumber>_maxS);
static final short[] DFA<dfa.decisionNumber>_accept =
DFA.unpackEncodedString(DFA<dfa.decisionNumber>_acceptS);
static final short[] DFA<dfa.decisionNumber>_special =
DFA.unpackEncodedString(DFA<dfa.decisionNumber>_specialS);
static final short[][] DFA<dfa.decisionNumber>_transition;

static {
 int numStates = DFA<dfa.decisionNumber>_transitionS.length;

```

```

DFA<dfa.decisionNumber>_transition = new short[numStates][];
for (int i=0; i<numStates; i++) {
 DFA<dfa.decisionNumber>_transition[i] =
DFA.unpackEncodedString(DFA<dfa.decisionNumber>_transitionS[i]);
}
}

class DFA<dfa.decisionNumber> extends DFA {

 public DFA<dfa.decisionNumber>(BaseRecognizer recognizer) {
 this.recognizer = recognizer;
 this.decisionNumber = <dfa.decisionNumber>;
 this.eot = DFA<dfa.decisionNumber>_eot;
 this.eof = DFA<dfa.decisionNumber>_eof;
 this.min = DFA<dfa.decisionNumber>_min;
 this.max = DFA<dfa.decisionNumber>_max;
 this.accept = DFA<dfa.decisionNumber>_accept;
 this.special = DFA<dfa.decisionNumber>_special;
 this.transition = DFA<dfa.decisionNumber>_transition;
 }
 public String getDescription() {
 return "<dfa.description>";
 }
 <@errorMethod()>
 <if(dfa.specialStateSTs)>
 public int specialStateTransition(int s, IntStream _input) throws NoViableAltException {
 <if(LEXER)>
 IntStream input = _input;
 <endif>
 <if(PARSER)>
 TokenStream input = (TokenStream)_input;
 <endif>
 <if(TREE_PARSER)>
 TreeNodeStream input = (TreeNodeStream)_input;
 <endif>
 int _s = s;
 switch (s) {
 <dfa.specialStateSTs:{state |
 case <i0> : <! compressed special state numbers 0..n-1 !>
 <state>; separator="\n">
 }
 }
 <if(backtracking)>
 if (state.backtracking>0) {state.failed=true; return -1;}<\n>
 <endif>
 NoViableAltException nvae =
 new NoViableAltException(getDescription(), <dfa.decisionNumber>, _s, input);
 error(nvae);
 throw nvae;
 }
}

```

```

 }<\n>
<endif>
} <\n>
>>

/** A state in a cyclic DFA; it's a special state and part of a big switch on
 * state.
 */
cyclicDFAState(decisionNumber,stateNumber,edges,needErrorClause,semPredState) ::= <<
int LA<decisionNumber>_<stateNumber> = input.LA(1);<\n>
<if(semPredState)> <! get next lookahead symbol to test edges, then rewind !>
int index<decisionNumber>_<stateNumber> = input.index();
input.rewind();<\n>
<endif>
s = -1;
<edges; separator="\nelse ">
<if(semPredState)> <! return input cursor to state before we rewound !>
input.seek(index<decisionNumber>_<stateNumber>);<\n>
<endif>
if (s>=0) return s;
break;
>>

/** Just like a fixed DFA edge, test the lookahead and indicate what
 * state to jump to next if successful.
 */
cyclicDFAEdge(labelExpr, targetStateNumber, edgeNumber, predicates) ::= <<
if ((<labelExpr> <if(predicates)>&& (<predicates>)<endif>) { s = <targetStateNumber>; }<\n>
>>

/** An edge pointing at end-of-token; essentially matches any char;
 * always jump to the target.
 */
eotDFAEdge(targetStateNumber,edgeNumber, predicates) ::= <<
s = <targetStateNumber>;<\n>
>>

// D F A E X P R E S S I O N S

andPredicates(left,right) ::= "<left>&&<right>"

orPredicates(operands) ::= "<first(operands)><rest(operands):{ o | ||<o> }>"

notPredicate(pred) ::= "!(<evalPredicate(...)>)"

evalPredicate(pred,description) ::= "<pred>"

```

```

evalSynPredicate(pred,description) ::= "<pred>()"

lookaheadTest(atom,k,atomAsInt) ::= "LA<decisionNumber>_<stateNumber>===<atom>"

/** Sometimes a lookahead test cannot assume that LA(k) is in a temp variable
 * somewhere. Must ask for the lookahead directly.
 */
isolatedLookaheadTest(atom,k,atomAsInt) ::= "input.LA(<k>)===<atom>"

lookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= <<
(LA<decisionNumber>_<stateNumber>)\>=<lower> && LA<decisionNumber>_<stateNumber>\<=<upper>
>>

isolatedLookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= "(input.LA(<k>))\>=<lower>
&& input.LA(<k>)\<=<upper>"

setTest(ranges) ::= "<ranges; separator=\\\"\\\">"

// A T T R I B U T E S

globalAttributeScope(scope) ::= <<
<if(scope.attributes)>
protected static class <scope.name>_scope {
 <scope.attributes:{<it.decl>;}; separator="\n">
}
protected Stack <scope.name>_stack = new Stack();<\n>
<endif>
>>

ruleAttributeScope(scope) ::= <<
<if(scope.attributes)>
protected static class <scope.name>_scope {
 <scope.attributes:{<it.decl>;}; separator="\n">
}
protected Stack <scope.name>_stack = new Stack();<\n>
<endif>
>>

returnStructName() ::= "<it.name>_return"

returnType() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<ruleDescriptor.grammar.recognizerName>.<ruleDescriptor:returnStructName()>
<else>
<if(ruleDescriptor.hasSingleReturnValue)>
<ruleDescriptor.singleValueReturnType>
<else>
void

```

```

<endif>
<endif>
>>

/** Generate the Java type associated with a single or multiple return
 * values.
 */
ruleLabelType(referencedRule) ::= <<
<if(referencedRule.hasMultipleReturnValues)>
<referencedRule.grammar.recognizerName>.<referencedRule.name>_return
<else>
<if(referencedRule.hasSingleReturnValue)>
<referencedRule.singleValueReturnType>
<else>
void
<endif>
<endif>
>>

delegateName() ::= <<
<if(it.label)><it.label><else>g<it.name><endif>
>>

/** Using a type to init value map, try to init a type; if not in table
 * must be an object, default value is "null".
 */
initValue(typeName) ::= <<
<javaTypeInitMap.(typeName)>
>>

/** Define a rule label including default value */
ruleLabelDef(label) ::= <<
<ruleLabelType(referencedRule=label.referencedRule)> <label.label.text> =
<initValue(typeName=ruleLabelType(referencedRule=label.referencedRule))>;<\n>
>>

/** Define a return struct for a rule if the code needs to access its
 * start/stop tokens, tree stuff, attributes, ... Leave a hole for
 * subgroups to stick in members.
 */
returnScope(scope) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
public static class <ruleDescriptor:returnStructName()> extends
<if(TREE_PARSER)>Tree<else>Parser<endif>RuleReturnScope {
 <scope.attributes:{public <it.decl>;}; separator="\n">
 <@ruleReturnMembers()>
};
<endif>

```

>>

```
parameterScope(scope) ::= <<
<scope.attributes:{<it.decl>}; separator=", ">
>>
```

```
parameterAttributeRef(attr) ::= "<attr.name>"
parameterSetAttributeRef(attr,expr) ::= "<attr.name> =<expr>";
```

```
scopeAttributeRef(scope,attr,index,negIndex) ::= <<
<if(negIndex)>
((<scope>_scope)<scope>_stack.elementAt(<scope>_stack.size()-<negIndex>-1)).<attr.name>
<else>
<if(index)>
((<scope>_scope)<scope>_stack.elementAt(<index>)).<attr.name>
<else>
((<scope>_scope)<scope>_stack.peek()).<attr.name>
<endif>
<endif>
>>
```

```
scopeSetAttributeRef(scope,attr,expr,index,negIndex) ::= <<
<if(negIndex)>
((<scope>_scope)<scope>_stack.elementAt(<scope>_stack.size()-<negIndex>-1)).<attr.name> =<expr>;
<else>
<if(index)>
((<scope>_scope)<scope>_stack.elementAt(<index>)).<attr.name> =<expr>;
<else>
((<scope>_scope)<scope>_stack.peek()).<attr.name> =<expr>;
<endif>
<endif>
>>
```

```
/** $x is either global scope or x is rule with dynamic scope; refers
 * to stack itself not top of stack. This is useful for predicates
 * like {$function.size()>0 && $function::name.equals("foo")}?
 */
```

```
isolatedDynamicScopeRef(scope) ::= "<scope>_stack"
```

```
/** reference an attribute of rule; might only have single return value */
```

```
ruleLabelRef(referencedRule,scope,attr) ::= <<
<if(referencedRule.hasMultipleReturnValues)>
(<scope>!=null?<scope>.<attr.name>:<initValue(attr.type)>)
<else>
<scope>
<endif>
>>
```



```

returnAttributeRef(ruleDescriptor,attr) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
retval.<attr.name>
<else>
<attr.name>
<endif>
>>

returnSetAttributeRef(ruleDescriptor,attr,expr) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
retval.<attr.name> =<expr>;
<else>
<attr.name> =<expr>;
<endif>
>>

/** How to translate $tokenLabel */
tokenLabelRef(label) ::= "<label>"

/** ids+=ID {$ids} or e+=expr {$e} */
listLabelRef(label) ::= "list_<label>"

// not sure the next are the right approach

tokenLabelPropertyRef_text(scope,attr) ::= "(<scope>!=null?<scope>.getText():null)"
tokenLabelPropertyRef_type(scope,attr) ::= "(<scope>!=null?<scope>.getType():0)"
tokenLabelPropertyRef_line(scope,attr) ::= "(<scope>!=null?<scope>.getLine():0)"
tokenLabelPropertyRef_pos(scope,attr) ::= "(<scope>!=null?<scope>.getCharPositionInLine():0)"
tokenLabelPropertyRef_channel(scope,attr) ::= "(<scope>!=null?<scope>.getChannel():0)"
tokenLabelPropertyRef_index(scope,attr) ::= "(<scope>!=null?<scope>.getTokenIndex():0)"
tokenLabelPropertyRef_tree(scope,attr) ::= "<scope>_tree"
tokenLabelPropertyRef_int(scope,attr) ::= "(<scope>!=null?Integer.valueOf(<scope>.getText()):0)"

ruleLabelPropertyRef_start(scope,attr) ::= "(<scope>!=null?((<labelType><scope>.start):null)"
ruleLabelPropertyRef_stop(scope,attr) ::= "(<scope>!=null?((<labelType><scope>.stop):null)"
ruleLabelPropertyRef_tree(scope,attr) ::= "(<scope>!=null?((<ASTLabelType><scope>.tree):null)"
ruleLabelPropertyRef_text(scope,attr) ::= <<
<if(TREE_PARSER)>
(<scope>!=null?(input.getTokenStream().toString(
input.getTreeAdaptor().getTokenStartIndex(<scope>.start),
input.getTreeAdaptor().getTokenStopIndex(<scope>.start)):null)
<else>
(<scope>!=null?input.toString(<scope>.start,<scope>.stop):null)
<endif>
>>

ruleLabelPropertyRef_st(scope,attr) ::= "(<scope>!=null?<scope>.st:null)"

```

```

/** Isolated $RULE ref ok in lexer as it's a Token */
lexerRuleLabel(label) ::= "<label>"

lexerRuleLabelPropertyRef_type(scope,attr) ::=
 "<scope>!=null?<scope>.getType():0)"
lexerRuleLabelPropertyRef_line(scope,attr) ::=
 "<scope>!=null?<scope>.getLine():0)"
lexerRuleLabelPropertyRef_pos(scope,attr) ::=
 "<scope>!=null?<scope>.getCharPositionInLine():-1)"
lexerRuleLabelPropertyRef_channel(scope,attr) ::=
 "<scope>!=null?<scope>.getChannel():0)"
lexerRuleLabelPropertyRef_index(scope,attr) ::=
 "<scope>!=null?<scope>.getTokenIndex():0)"
lexerRuleLabelPropertyRef_text(scope,attr) ::=
 "<scope>!=null?<scope>.getText():null)"
lexerRuleLabelPropertyRef_int(scope,attr) ::=
 "<scope>!=null?Integer.valueOf(<scope>.getText()):0)"

// Somebody may ref $template or $tree or $stop within a rule:
rulePropertyRef_start(scope,attr) ::= "((<labelType>)retval.start)"
rulePropertyRef_stop(scope,attr) ::= "((<labelType>)retval.stop)"
rulePropertyRef_tree(scope,attr) ::= "((<ASTLabelType>)retval.tree)"
rulePropertyRef_text(scope,attr) ::= <<
<if(TREE_PARSER)>
input.getTokenStream().toString(
 input.getTreeAdaptor().getTokenStartIndex(retval.start),
 input.getTreeAdaptor().getTokenStopIndex(retval.start))
<else>
input.toString(retval.start,input.LT(-1))
<endif>
>>
rulePropertyRef_st(scope,attr) ::= "retval.st"

lexerRulePropertyRef_text(scope,attr) ::= "getText()"
lexerRulePropertyRef_type(scope,attr) ::= "_type"
lexerRulePropertyRef_line(scope,attr) ::= "state.tokenStartLine"
lexerRulePropertyRef_pos(scope,attr) ::= "state.tokenStartCharPositionInLine"
lexerRulePropertyRef_index(scope,attr) ::= "-1" // undefined token index in lexer
lexerRulePropertyRef_channel(scope,attr) ::= "_channel"
lexerRulePropertyRef_start(scope,attr) ::= "state.tokenStartCharIndex"
lexerRulePropertyRef_stop(scope,attr) ::= "(getCharIndex()-1)"
lexerRulePropertyRef_int(scope,attr) ::= "Integer.valueOf(<scope>.getText())"

// setting $st and $tree is allowed in local rule. everything else
// is flagged as error
ruleSetPropertyRef_tree(scope,attr,expr) ::= "retval.tree =<expr>;"
ruleSetPropertyRef_st(scope,attr,expr) ::= "retval.st =<expr>;"

```

```

/** How to execute an action (only when not backtracking) */
execAction(action) ::= <<
<if(backtracking)>
if (<actions.(actionScope).synpredgate>) {
 <action>
}
<else>
<action>
<endif>
>>

/** How to always execute an action even when backtracking */
execForcedAction(action) ::= "<action>"

// M I S C (properties, etc...)

bitset(name, words64) ::= <<
public static final BitSet <name> = new BitSet(new long[] { <words64: { <it>L }; separator="," > }); <\n>
>>

codeFileExtension() ::= ".java"

true() ::= "true"
false() ::= "false"

```

Found in path(s):

```

* /opt/cola/permits/1204005060_1631853129.56/0/antlr-3-1-3-sources-4-
jar/org/antlr/codegen/templates/Java/Java.stg

```

No license file was found, but licenses were detected in source scan.

/\*

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```
*/
```

```
/** Template overrides to add debugging to normal Python output;
```

```
* If ASTs are built, then you'll also get ASTDbg.stg loaded.
```

```
*/
```

```
group Dbg;
```

```
@outputFile.imports() ::= <<
```

```
<@super.imports(>
```

```
from antlr3.debug import *
```

```
>>
```

```
@genericParser.args() ::= <<
```

```
debug_socket = kwargs.pop('debug_socket', None)
```

```
port = kwargs.pop('port', None)
```

```
>>
```

```
@genericParser.init() ::= <<
```

```
self.ruleLevel = 0
```

```
if self._dbg is None:
```

```
 <createListenerAndHandshake(>
```

```
>>
```

```
createListenerAndHandshake() ::= <<
```

```
<if(TREE_PARSER)>
```

```
proxy = DebugEventSocketProxy(self, adaptor=self.input.getTreeAdaptor(),
```

```
 debug=debug_socket, port=port)<\n>
```

```
<else>
```

```
proxy = DebugEventSocketProxy(self, debug=debug_socket, port=port)<\n>
```

```
<endif>
```

```
self.setDebugListener(proxy)
```

```
proxy.handshake()
```

```
>>
```

```
@genericParser.members() ::= <<
```

```
<if(grammar.grammarIsRoot)>
```

```
ruleNames = [
```

```

 "invalidRule", <grammar.allImportedRules:{rST | "<rST.name>"}; wrap="\n ", separator=", ">
]<\n>
<endif>
<if(grammar.grammarIsRoot)> <! grammar imports other grammar(s) !>
def getRuleLevel(self):
 return self.ruleLevel

def incRuleLevel(self):
 self.ruleLevel += 1

def decRuleLevel(self):
 self.ruleLevel -= 1

<if(profile)>
 <ctorForProfilingRootGrammar()>
<else>
 <ctorForRootGrammar()>
<endif>
<ctorForPredefinedListener()>
<else> <! imported grammar !>
def getRuleLevel(self):
 return <grammar.delegators:{g| <g.delegateName()>}>.getRuleLevel()

def incRuleLevel(self):
 <grammar.delegators:{g| <g.delegateName()>}>.incRuleLevel()

def decRuleLevel(self):
 <grammar.delegators:{g| <g.delegateName()>}>.decRuleLevel()

<ctorForDelegateGrammar()>
<endif>
<if(profile)>
 FIXME(2)
 public boolean alreadyParsedRule(IntStream input, int ruleIndex) {
 ((Profiler)self._dbg).examineRuleMemoization(input, ruleIndex,
 <grammar.composite.rootGrammar.recognizerName>.ruleNames[ruleIndex]);
 return super.alreadyParsedRule(input, ruleIndex);
 }<\n>
 FIXME(3)
 public void memoize(IntStream input,
 int ruleIndex,
 int ruleStartIndex)
 {
 ((Profiler)self._dbg).memoize(input, ruleIndex, ruleStartIndex,
 <grammar.composite.rootGrammar.recognizerName>.ruleNames[ruleIndex]);
 super.memoize(input, ruleIndex, ruleStartIndex);
 }<\n>
<endif>

```

```

def evalPredicate(self, result, predicate):
 self._dbg.semanticPredicate(result, predicate)
 return result
<\n>
>>

```

```

ctorForRootGrammar() ::= <<
<! bug: can't use <@super.members()> cut-n-paste instead !>
<! Same except we add port number and profile stuff if root grammar !>
<!
public <name>(<inputStreamType> input) {
 this(input, DebugEventSocketProxy.DEFAULT_DEBUGGER_PORT, new RecognizerSharedState());
}
public <name>(<inputStreamType> input, int port, RecognizerSharedState state) {
 super(input, state);
 <parserCtorBody()>
 <createListenerAndHandshake()>
 <grammar.directDelegates:{g|<g.delegateName()> = new <g.recognizerName>(input, self._dbg, this.state,
this<grammar.delegates:{g|, <g.delegateName()>}>);}; separator="\n">
 <@finally()>
}<\n>
!>
>>

```

```

ctorForProfilingRootGrammar() ::= <<
<! bug: can't use <@super.members()> cut-n-paste instead !>
public <name>(<inputStreamType> input) {
 this(input, new Profiler(null), new RecognizerSharedState());
}
public <name>(<inputStreamType> input, DebugEventListener self.dbg, RecognizerSharedState state) {
 super(input, self.dbg, state);
 Profiler p = (Profiler)self.dbg;
 p.setParser(this);
 <parserCtorBody()>
 <grammar.directDelegates:
 {g|<g.delegateName()> = new <g.recognizerName>(input, self.dbg, this.state, this<grammar.delegates:{g|,
<g.delegateName()>}>);}; separator="\n">
 <@finally()>
}
<\n>
>>

```

/\*\* Basically we don't want to set any dbg listeners are root will have it. \*/

```

ctorForDelegateGrammar() ::= <<
<!
public <name>(<inputStreamType> input, DebugEventListener self.dbg, RecognizerSharedState
state<grammar.delegates:{g|, <g.recognizerName> <g.delegateName()>}>) {
 super(input, dbg, state);

```

```

 <parserCtorBody()>
 <grammar.directDelegates:
 {g|<g.delegateName()> = new <g.recognizerName>(input, this, this.state<grammar.delegates:{g|,
<g.delegateName()>>});}; separator="\n">
 }<\n>
 !>
 >>

ctorForPredefinedListener() ::= <<
<!
public <name>(<inputStreamType> input, DebugEventListener dbg) {
 <@superClassRef>super(input, dbg, new RecognizerSharedState());<@end>
<if(profile)>
 Profiler p = (Profiler)dbg;
 p.setParser(this);
<endif>
 <parserCtorBody()>
 <grammar.directDelegates:{g|<g.delegateName()> = new <g.recognizerName>(input, self._dbg, this.state,
this<grammar.delegates:{g|, <g.delegateName()>>});}; separator="\n">
 <@finally()>
}<\n>
!>
>>

@genericParser.superClassName() ::= "Debug<@super.superClassName()>"

@rule.body() ::= <<
try:
 self._dbg.enterRule(self.getGrammarFileName(), "<ruleName>")
 if self.getRuleLevel() == 0:
 self._dbg.commence();
 self.incRuleLevel()
 self._dbg.location(<ruleDescriptor.tree.line>, <ruleDescriptor.tree.column>)

 <@super.body()>

 self._dbg.location(<ruleDescriptor.EORNode.line>, <ruleDescriptor.EORNode.column>)
finally:
 self._dbg.exitRule(self.getGrammarFileName(), "<ruleName>")
 self.decRuleLevel()
 if self.getRuleLevel() == 0:
 self._dbg.terminate()

>>

@synpred.start() ::= "self._dbg.beginBacktrack(self._state.backtracking)"

@synpred.stop() ::= "self._dbg.endBacktrack(self._state.backtracking, success)"

```

```

// Common debug event triggers used by region overrides below

enterSubRule() ::=
 "try { self._dbg.enterSubRule(<decisionNumber>);<\n>"

exitSubRule() ::=
 "} finally {self._dbg.exitSubRule(<decisionNumber>);}<\n>"

enterDecision() ::=
 "try { self._dbg.enterDecision(<decisionNumber>);<\n>"

exitDecision() ::=
 "} finally {self._dbg.exitDecision(<decisionNumber>);}<\n>"

enterAlt(n) ::= "self._dbg.enterAlt(<n>)<\n>"

// Region overrides that tell various constructs to add debugging triggers

@block.body() ::= <<
try:
 self._dbg.enterSubRule(<decisionNumber>)
 <@super.body()>
finally:
 self._dbg.exitSubRule(<decisionNumber>)
>>

@blockBody.decision() ::= <<
try:
 self._dbg.enterDecision(<decisionNumber>)
 <@super.decision()>
finally:
 self._dbg.exitDecision(<decisionNumber>)
>>

@ruleBlock.decision() ::= <<
try:
 self._dbg.enterDecision(<decisionNumber>)
 <@super.decision()>
finally:
 self._dbg.exitDecision(<decisionNumber>)
>>

@ruleBlockSingleAlt.preal() ::= "<enterAlt(n=\"1\")>"

@blockSingleAlt.preal() ::= "<enterAlt(n=\"1\")>"

@positiveClosureBlock.loopBody() ::= <<

```



```

try:
 self._dbg.enterSubRule(<decisionNumber>)
 <@super.loopBody()>
finally:
 self._dbg.exitSubRule(<decisionNumber>)<\n>
>>

@positiveClosureBlockLoop.decisionBody() ::= <<
try:
 self._dbg.enterDecision(<decisionNumber>)
 <@super.decisionBody()>
finally:
 self._dbg.exitDecision(<decisionNumber>)
>>

@positiveClosureBlockLoop.earlyExitException() ::=
 "self._dbg.recognitionException(eee)<\n>"

@closureBlock.loopBody() ::= <<
try:
 self._dbg.enterSubRule(<decisionNumber>)
 <@super.loopBody()>
finally:
 self._dbg.exitSubRule(<decisionNumber>)<\n>
>>

@closureBlockLoop.decisionBody() ::= <<
try:
 self._dbg.enterDecision(<decisionNumber>)
 <@super.decisionBody()>
finally:
 self._dbg.exitDecision(<decisionNumber>)
>>

@altSwitchCase.preal() ::= "<enterAlt(n=i)>"

@element.prematch() ::=
 "self._dbg.location(<it.line>, <it.pos>)"

@matchSet.mismatchedSetException() ::=
 "self._dbg.recognitionException(mse)"

@dfaState.noViableAltException() ::= "self._dbg.recognitionException(nvae)"

@dfaStateSwitch.noViableAltException() ::= "self._dbg.recognitionException(nvae)"

dfaDecision(decisionNumber,description) ::= <<
try:

```

```

self.isCyclicDecision = True
<super.dfaDecision(...)>

except NoViableAltException, nvae:
 self._dbg.recognitionException(nvae)
 raise

>>

@cyclicDFA.errorMethod() ::= <<
def error(self, nvae):
 self._dbg.recognitionException(nvae)

>>

/** Force predicate validation to trigger an event */
evalPredicate(pred,description) ::= <<
self.evalPredicate(<pred>,"<description>")
>>

Found in path(s):
* /opt/cola/permits/1204005060_1631853129.56/0/antlr-3-1-3-sources-4-
jar/org/antlr/codegen/templates/Python/Dbg.stg
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\*/

/\*\* Template overrides to add debugging to normal Java output;

\* If ASTs are built, then you'll also get ASTDbg.stg loaded.

\*/

group Dbg;

@outputFile.debugPreprocessor() ::= "#define ANTLR\_DEBUG"

@outputFile.imports() ::= <<

<@super.imports(>

using Antlr.Runtime.Debug;

using IOException = System.IO.IOException;

>>

@genericParser.members() ::= <<

<if(grammar.isRoot)>

public static readonly string[] ruleNames = new string[] {

    "invalidRule", <grammar.allImportedRules:{rST | "<rST.name>"}; wrap="\n ", separator=", ">

};<\n>

<endif>

<if(grammar.isRoot)> <! grammar imports other grammar(s) !>

    private int ruleLevel = 0;

    public int RuleLevel {

        get { return ruleLevel; }

    }

    public void IncRuleLevel() { ruleLevel++; }

    public void DecRuleLevel() { ruleLevel--; }

<if(profile)>

    <ctorForProfilingRootGrammar(>

<else>

    <ctorForRootGrammar(>

<endif>

<ctorForPredefinedListener(>

<else> <! imported grammar !>

    public int RuleLevel {

        get { return <grammar.delegators:{g| <g.delegateName(>>}.RuleLevel; }

    }

    public void IncRuleLevel() { <grammar.delegators:{g| <g.delegateName(>>}.IncRuleLevel(); }

    public void DecRuleLevel() { <grammar.delegators:{g| <g.delegateName(>>}.DecRuleLevel(); }

    <ctorForDelegateGrammar(>

<endif>

<if(profile)>

override public bool AlreadyParsedRule(IIntStream input, int ruleIndex)

```

{
 ((Profiler)dbg).ExamineRuleMemoization(input, ruleIndex,
<grammar.composite.rootGrammar.recognizerName>.ruleNames[ruleIndex]);
 return base.AlreadyParsedRule(input, ruleIndex);
}<\n>
override public void Memoize(IIntStream input,
 int ruleIndex,
 int ruleStartIndex)
{
 ((Profiler)dbg).Memoize(input, ruleIndex, ruleStartIndex,
<grammar.composite.rootGrammar.recognizerName>.ruleNames[ruleIndex]);
 base.Memoize(input, ruleIndex, ruleStartIndex);
}<\n>
<endif>
protected bool EvalPredicate(bool result, string predicate)
{
 dbg.SemanticPredicate(result, predicate);
 return result;
}<\n>
>>

ctorForRootGrammar() ::= <<
<! bug: can't use <@super.members()> cut-n-paste instead !>
<! Same except we add port number and profile stuff if root grammar !>
public <name>(<inputStreamType> input)
 : this(input, DebugEventSocketProxy.DEFAULT_DEBUGGER_PORT, new RecognizerSharedState()) {
}

public <name>(<inputStreamType> input, int port, RecognizerSharedState state)
 : base(input, state) {
 <createListenerAndHandshake()>
 <parserCtorBody()>
 <grammar.directDelegates:{g|<g:delegateName()> = new <g.recognizerName>(input, dbg, this.state,
this<grammar.delegates:{g|, <g:delegateName()>}>);}; separator="\n">
 <@finally()>
}<\n>
>>

@parserCtorBody.initializeCyclicDFAs() ::= <<
InitializeCyclicDFAs(dbg);
>>

ctorForProfilingRootGrammar() ::= <<
<! bug: can't use <@super.members()> cut-n-paste instead !>
public <name>(<inputStreamType> input) {
 this(input, new Profiler(null), new RecognizerSharedState());
}

```

```

public <name>(<inputStreamType> input, IDebugEventListener dbg, RecognizerSharedState state)
 : base(input, dbg, state) {
 Profiler p = (Profiler)dbg;
 p.setParser(this);
 <parserCtorBody()>
 <grammar.directDelegates:
 {g|<g.delegateName()> = new <g.recognizerName>(input, dbg, this.state, this<grammar.delegates:{g|,
<g.delegateName()>}>}); separator="\n">
 <@finally()>
 }
<\n>
>>

```

```

/** Basically we don't want to set any dbg listeners are root will have it. */
ctorForDelegateGrammar() ::= <<
public <name>(<inputStreamType> input, IDebugEventListener dbg, RecognizerSharedState
state<grammar.delegates:{g|, <g.recognizerName> <g.delegateName()>}>)
 : base(input, dbg, state) {
 <parserCtorBody()>
 <grammar.directDelegates:
 {g|<g.delegateName()> = new <g.recognizerName>(input, this, this.state<grammar.delegates:{g|,
<g.delegateName()>}>}); separator="\n">
 }<\n>
>>

```

```

ctorForPredefinedListener() ::= <<
public <name>(<inputStreamType> input, IDebugEventListener dbg)
 : <@superClassRef>base(input, dbg, new RecognizerSharedState())<@end> {
<if(profile)>
 Profiler p = (Profiler)dbg;
 p.setParser(this);
<endif>
 <parserCtorBody()>
 <grammar.directDelegates:{g|<g.delegateName()> = new <g.recognizerName>(input, dbg, this.state,
this<grammar.delegates:{g|, <g.delegateName()>}>}); separator="\n">
 <@finally()>
 }<\n>
>>

```

```

createListenerAndHandshake() ::= <<
<if(TREE_PARSER)>
DebugEventSocketProxy dbg = new DebugEventSocketProxy(this, port, input.TreeAdaptor);
<else>
DebugEventSocketProxy dbg = new DebugEventSocketProxy(this, port, null);
<endif>
DebugListener = dbg;
try

```

```

{
 dbg.Handshake();
}
catch (IOException ioe)
{
 ReportError(ioe);
}
>>

@genericParser.superClassName() ::= "Debug<@super.superClassName()>"

@rule.preamble() ::= <<
try {
 dbg.EnterRule(GrammarFileName, "<ruleName>");
 if (RuleLevel==0) {dbg.Commence();}
 IncRuleLevel();
 dbg.Location(<ruleDescriptor.tree.line>, <ruleDescriptor.tree.column>);<\n>
}
>>

@lexer.debugInitializeCyclicDFAs() ::= "IDebugEventListener dbg"

@lexer.debugAddition() ::= ", dbg"

@genericParser.debugInitializeCyclicDFAs() ::= "IDebugEventListener dbg"

@genericParser.debugAddition() ::= ", dbg"

@rule.postamble() ::= <<
dbg.Location(<ruleDescriptor.EORNode.line>, <ruleDescriptor.EORNode.column>);<\n>
}
finally {
 dbg.ExitRule(GrammarFileName, "<ruleName>");
 DecRuleLevel();
 if (RuleLevel==0) {dbg.Terminate();}
}<\n>
>>

@synpred.start() ::= "dbg.BeginBacktrack(state.backtracking);"

@synpred.stop() ::= "dbg.EndBacktrack(state.backtracking, success);"

// Common debug event triggers used by region overrides below

enterSubRule() ::=
 "try { dbg.EnterSubRule(<decisionNumber>);<\n>"

exitSubRule() ::=
 "} finally { dbg.ExitSubRule(<decisionNumber>); }<\n>"

```

```

enterDecision() ::=
 "try { dbg.EnterDecision(<decisionNumber>);<\n>"

exitDecision() ::=
 "} finally { dbg.ExitDecision(<decisionNumber>); }<\n>"

enterAlt(n) ::= "dbg.EnterAlt(<n>);<\n>"

// Region overrides that tell various constructs to add debugging triggers

@block.predecision() ::= "<enterSubRule()><enterDecision()>"

@block.postdecision() ::= "<exitDecision()>"

@block.postbranch() ::= "<exitSubRule()>"

@ruleBlock.predecision() ::= "<enterDecision()>"

@ruleBlock.postdecision() ::= "<exitDecision()>"

@ruleBlockSingleAlt.preal() ::= "<enterAlt(n=\"1\")>"

@blockSingleAlt.preal() ::= "<enterAlt(n=\"1\")>"

@positiveClosureBlock.preloop() ::= "<enterSubRule()>"

@positiveClosureBlock.postloop() ::= "<exitSubRule()>"

@positiveClosureBlock.predecision() ::= "<enterDecision()>"

@positiveClosureBlock.postdecision() ::= "<exitDecision()>"

@positiveClosureBlock.earlyExitException() ::=
 "dbg.RecognitionException(eee<decisionNumber>);<\n>"

@closureBlock.preloop() ::= "<enterSubRule()>"

@closureBlock.postloop() ::= "<exitSubRule()>"

@closureBlock.predecision() ::= "<enterDecision()>"

@closureBlock.postdecision() ::= "<exitDecision()>"

@altSwitchCase.preal() ::= "<enterAlt(n=i)>"

@element.prematch() ::=
 "dbg.Location(<it.line>,<it.pos>);"

```

```

@matchSet.mismatchedSetException() ::=
 "dbg.RecognitionException(mse);"

@dfaState.noViableAltException() ::= "dbg.RecognitionException(nvae_d<decisionNumber>s<stateNumber>);"

@dfaStateSwitch.noViableAltException() ::=
"dbg.RecognitionException(nvae_d<decisionNumber>s<stateNumber>);"

dfaDecision(decisionNumber,description) ::= <<
try
{
 isCyclicDecision = true;
 <super.dfaDecision(...)>
}
catch (NoViableAltException nvae)
{
 dbg.RecognitionException(nvae);
 throw nvae;
}
>>

@cyclicDFA.dbgCtor() ::= <<
 public DFA<dfa.decisionNumber>(BaseRecognizer recognizer, IDebugEventListener dbg) : this(recognizer)
 {
 this.dbg = dbg;
 }
>>

@cyclicDFA.debugMember() ::= <<
IDebugEventListener dbg;

>>

@cyclicDFA.errorMethod() ::= <<
public override void Error(NoViableAltException nvae)
{
 dbg.RecognitionException(nvae);
}
>>

/** Force predicate validation to trigger an event */
evalPredicate(pred,description) ::= <<
EvalPredicate(<pred>,"<description>")
>>

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* /opt/cola/permits/1204005060_1631853129.56/0/antlr-3-1-3-sources-4-

```



jar/org/antlr/codegen/templates/CSharp2/Dbg.stg

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\*/

group ASTDbg;

/\*

parserMembers() ::= <<

protected TreeAdaptor adaptor =

new DebugTreeAdaptor(dbg,new CommonTreeAdaptor());

public void setTreeAdaptor(TreeAdaptor adaptor) {

    this.adaptor = new DebugTreeAdaptor(dbg,adaptor);

}

public TreeAdaptor getTreeAdaptor() {

    return adaptor;

}<n>

>>

\*/

@treeParserHeaderFile.superClassName ::= "ANTLRDebugTreeParser"

```
@rewriteElement.pregen() ::= "[debugListener locationLine:<e.line> column:<e.pos>];"
```

Found in path(s):

```
* /opt/cola/permits/1204005060_1631853129.56/0/antlr-3-1-3-sources-4-jar/org/antlr/codegen/templates/ObjC/ASTDbg.stg
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```
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\*/

/\*\* Templates for building ASTs during normal parsing.

\*

\* Deal with many combinations. Dimensions are:

\* Auto build or rewrite

\* no label, label, list label (label/no-label handled together)

\* child, root

\* token, set, rule, wildcard

\*

\* The situation is not too bad as rewrite (->) usage makes ^ and !

\* invalid. There is no huge explosion of combinations.

\*/

group ASTParser;

```
@rule.setErrorReturnValue() ::= <<
```

```
RetVal.Tree := Adaptor.ErrorNode(Input, RetVal.Start as IToken,
```

```
Input.LT(-1), RE) as I<ASTLabelType>;
```

```
>>
```

```
// TOKEN AST STUFF
```

```
/** ID and output=AST */
```

```
tokenRef(token,label,elementIndex,hetero) ::= <<
```

```
<super.tokenRef(...)>
```

```
<if(backtracking)>
```

```
if (State.Backtracking = 0) then
```

```
begin<\n>
```

```

<endif>
<label>_tree := <createNodeFromToken(...)>;
Adaptor.AddChild(Root[0], <label>_tree);
<if(backtracking)>
end;
<endif>
>>

/** ID! and output=AST (same as plain tokenRef) */
tokenRefBang(token,label,elementIndex) ::= "<super.tokenRef(...)>"

/** ID^ and output=AST */
tokenRefRuleRoot(token,label,elementIndex,hetero) ::= <<
<super.tokenRef(...)>
<if(backtracking)>
if (State.Backtracking = 0) then
begin
<endif>
<label>_tree := <createNodeFromToken(...)>;
Root[0] := Adaptor.BecomeRoot(<label>_tree, Root[0]) as I<ASTLabelType>;
<if(backtracking)>
end;
<endif>
>>

/** ids+=ID! and output=AST */
tokenRefBangAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRefBang(...)>
<listLabel(elem=label,...)>
>>

/** label+=TOKEN when output=AST but not rewrite alt */
tokenRefAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRef(...)>
<listLabel(elem=label,...)>
>>

/** Match label+=TOKEN^ when output=AST but not rewrite alt */
tokenRefRuleRootAndListLabel(token,label,hetero,elementIndex) ::= <<
<tokenRefRuleRoot(...)>
<listLabel(elem=label,...)>
>>

// SET AST

// the match set stuff is interesting in that it uses an argument list
// to pass code to the default matchSet; another possible way to alter
// inherited code. I don't use the region stuff because I need to pass

```

```

// different chunks depending on the operator. I don't like making
// the template name have the operator as the number of templates gets
// large but this is the most flexible--this is as opposed to having
// the code generator call matchSet then add root code or ruleroot code
// plus list label plus ... The combinations might require complicated
// rather than just added on code. Investigate that refactoring when
// I have more time.

matchSet(s,label,hetero,elementIndex,postmatchCode) ::= <<
<super.matchSet(..., postmatchCode={<if(backtracking)>if (State.Backtracking = 0) then
<endif>Adaptor.AddChild(Root[0], <createNodeFromToken(...)>);}>
>>

matchRuleBlockSet(s,label,hetero,elementIndex,postmatchCode,treeLevel="0") ::= <<
<matchSet(...)>
>>

matchSetBang(s,label,elementIndex,postmatchCode) ::= "<super.matchSet(...)>"

// note there is no matchSetTrack because -> rewrites force sets to be
// plain old blocks of alts: (A|B|...|C)

matchSetRuleRoot(s,label,hetero,elementIndex,debug) ::= <<
<if(label)>
<label> := Input.LT(1) as I<labelType>;<\n>
<endif>
<super.matchSet(..., postmatchCode={<if(backtracking)>if (State.Backtracking = 0) then <endif>Root[0] :=
Adaptor.BecomeRoot(<createNodeFromToken(...)>, Root[0]) as I<ASTLabelType>};}>
>>

// RULE REF AST

/** rule when output=AST */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(...)>
<if(backtracking)>if (State.Backtracking = 0) then <endif>Adaptor.AddChild(Root[0], <label>.Tree);
>>

/** rule! is same as normal rule ref */
ruleRefBang(rule,label,elementIndex,args,scope) ::= "<super.ruleRef(...)>"

/** rule^ */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(...)>
<if(backtracking)>if (State.Backtracking = 0) then <endif>Root[0] := Adaptor.BecomeRoot(<label>.Tree, Root[0])
as I<ASTLabelType>;
>>

```

```

/** x+=rule when output=AST */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>
<listLabel(elem=label+".Tree",...)>
>>

/** x+=rule! when output=AST is a rule ref with list addition */
ruleRefBangAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefBang(...)>
<listLabel(elem=label+".Tree",...)>
>>

/** x+=rule^ */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...)>
<listLabel(elem=label+".Tree",...)>
>>

// WILDCARD AST

wildcard(label,elementIndex) ::= <<
<super.wildcard(...)>
<if(backtracking)>
if (State.Backtracking = 0) then
begin
<endif>
<label>_tree := Adaptor.CreateNode(<label>) as I<ASTLabelType>;
Adaptor.AddChild(Root[0], <label>_tree);
<if(backtracking)>
end;
<endif>
>>

wildcardBang(label,elementIndex) ::= "<super.wildcard(...)>"

wildcardRuleRoot(label,elementIndex) ::= <<
<super.wildcard(...)>
<if(backtracking)>
if (State.Backtracking = 0) then
begin
<endif>
<label>_tree := Adaptor.CreateNode(<label>) as I<ASTLabelType>;
Root[0] := Adaptor.BecomeRoot(<label>_tree, Root[0]) as I<ASTLabelType>;
<if(backtracking)>
end;
<endif>
>>

```

```

createNodeFromToken(label,hetero) ::= <<
<if(hetero)>
T<hetero>.Create(<label>) <! new MethodNode(IDLabel) !>
<else>
Adaptor.CreateNode(<label>) as I<ASTLabelType>
<endif>
>>

ruleCleanUp() ::= <<
<super.ruleCleanUp()>
<if(backtracking)>
if (State.Backtracking = 0) then
begin<\n>
<endif>
RetVal.Tree := Adaptor.RulePostProcessing(Root[0]) as I<ASTLabelType>;
<if(!TREE_PARSER)>
Adaptor.SetTokenBoundaries(RetVal.Tree, RetVal.Start as IToken, RetVal.Stop as IToken);
<endif>
<if(backtracking)>
<\n>end;
<endif>
>>

```

Found in path(s):

```
* /opt/cola/permits/1204005060_1631853129.56/0/antlr-3-1-3-sources-4-
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\*/

interface ANTLRCore;

/\*\* The overall file structure of a recognizer; stores methods for rules  
\* and cyclic DFAs plus support code.

\*/

outputFile(LEXER,PARSER,TREE\_PARSER, actionScope, actions,  
docComment, recognizer,  
name, tokens, tokenNames, rules, cyclicDFAs,  
bitsets, buildTemplate, buildAST, rewriteMode, profile,  
backtracking, synpreds, memoize, numRules,  
fileName, ANTLRVersion, generatedTimestamp, trace,  
scopes, superClass, literals);

/\*\* The header file; make sure to define headerFileExtension() below \*/

optional

headerFile(LEXER,PARSER,TREE\_PARSER, actionScope, actions,  
docComment, recognizer,  
name, tokens, tokenNames, rules, cyclicDFAs,  
bitsets, buildTemplate, buildAST, rewriteMode, profile,  
backtracking, synpreds, memoize, numRules,  
fileName, ANTLRVersion, generatedTimestamp, trace,  
scopes, superClass, literals);

lexer(grammar, name, tokens, scopes, rules, numRules, labelType,  
filterMode, superClass);

parser(grammar, name, scopes, tokens, tokenNames, rules, numRules,  
bitsets, ASTLabelType, superClass,  
labelType, members);

/\*\* How to generate a tree parser; same as parser except the input

\* stream is a different type.

\*/

treeParser(grammar, name, scopes, tokens, tokenNames, globalAction, rules,  
numRules, bitsets, labelType, ASTLabelType,  
superClass, members, filterMode);

/\*\* A simpler version of a rule template that is specific to the imaginary

\* rules created for syntactic predicates. As they never have return values

\* nor parameters etc..., just give simplest possible method. Don't do



```

* any of the normal memoization stuff in here either; it's a waste.
* As predicates cannot be inlined into the invoking rule, they need to
* be in a rule by themselves.
*/
synpredRule(ruleName, ruleDescriptor, block, description, nakedBlock);

/** How to generate code for a rule. This includes any return type
* data aggregates required for multiple return values.
*/
rule(ruleName,ruleDescriptor,block,emptyRule,description,exceptions,finally,memoize);

/** How to generate a rule in the lexer; naked blocks are used for
* fragment rules.
*/
lexerRule(ruleName,nakedBlock,ruleDescriptor,block,memoize);

/** How to generate code for the implicitly-defined lexer grammar rule
* that chooses between lexer rules.
*/
tokensRule(ruleName,nakedBlock,args,block,ruleDescriptor);

filteringNextToken();

filteringActionGate();

// S U B R U L E S

/** A (...) subrule with multiple alternatives */
block(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description);

/** A rule block with multiple alternatives */
ruleBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description);

ruleBlockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description);

/** A special case of a (...) subrule with a single alternative */
blockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description);

/** A (..)+ block with 0 or more alternatives */
positiveClosureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description);

positiveClosureBlockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description);

/** A (..)* block with 0 or more alternatives */
closureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description);

```

```

closureBlockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description);

/** Optional blocks (x)? are translated to (x|) by before code generation
 * so we can just use the normal block template
 */
optionalBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description);

optionalBlockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description);

/** An alternative is just a list of elements; at outermost level */
alt(elements,altNum,description,autoAST,outerAlt,treeLevel,rew);

// E L E M E N T S

/** match a token optionally with a label in front */
tokenRef(token,label,elementIndex,hetero);

/** ids+=ID */
tokenRefAndListLabel(token,label,elementIndex,hetero);

listLabel(label,elem);

/** match a character */
charRef(char,label);

/** match a character range */
charRangeRef(a,b,label);

/** For now, sets are interval tests and must be tested inline */
matchSet(s,label,elementIndex,postmatchCode);

matchSetAndListLabel(s,label,elementIndex,postmatchCode);

/** Match a string literal */
lexerStringRef(string,label);

wildcard(label,elementIndex);

wildcardAndListLabel(label,elementIndex);

/** Match . wildcard in lexer */
wildcardChar(label, elementIndex);

wildcardCharListLabel(label, elementIndex);

/** Match a rule reference by invoking it possibly with arguments

```

```

* and a return value or values.
*/
ruleRef(rule,label,elementIndex,args,scope);

/** ids+=ID */
ruleRefAndListLabel(rule,label,elementIndex,args,scope);

/** A lexer rule reference */
lexerRuleRef(rule,label,args,elementIndex,scope);

/** i+=INT in lexer */
lexerRuleRefAndListLabel(rule,label,args,elementIndex,scope);

/** EOF in the lexer */
lexerMatchEOF(label,elementIndex);

/** match ^(root children) in tree parser */
tree(root, actionsAfterRoot, children, nullableChildList,
 enclosingTreeLevel, treeLevel);

/** Every predicate is used as a validating predicate (even when it is
* also hoisted into a prediction expression).
*/
validateSemanticPredicate(pred,description);

// F i x e d D F A (if-then-else)

dfaState(k,edges,eotPredictsAlt,description,stateNumber,semPredState);

/** Same as a normal DFA state except that we don't examine lookahead
* for the bypass alternative. It delays error detection but this
* is faster, smaller, and more what people expect. For (X)? people
* expect "if (LA(1)==X) match(X);" and that's it.
*
* If a semPredState, don't force lookahead lookup; preds might not
* need.
*/
dfaOptionalBlockState(k,edges,eotPredictsAlt,description,stateNumber,semPredState);

/** A DFA state that is actually the loopback decision of a closure
* loop. If end-of-token (EOT) predicts any of the targets then it
* should act like a default clause (i.e., no error can be generated).
* This is used only in the lexer so that for ('a')* on the end of a
* rule anything other than 'a' predicts exiting.
*
* If a semPredState, don't force lookahead lookup; preds might not
* need.
*/

```

```

dfaLoopbackState(k,edges,eotPredictsAlt,description,stateNumber,semPredState);

/** An accept state indicates a unique alternative has been predicted */
dfaAcceptState(alt);

/** A simple edge with an expression. If the expression is satisfied,
 * enter to the target state. To handle gated productions, we may
 * have to evaluate some predicates for this edge.
 */
dfaEdge(labelExpr, targetState, predicates);

// F i x e d D F A (switch case)

/** A DFA state where a SWITCH may be generated. The code generator
 * decides if this is possible: CodeGenerator.canGenerateSwitch().
 */
dfaStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState);

dfaOptionalBlockStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState);

dfaLoopbackStateSwitch(k, edges,eotPredictsAlt,description,stateNumber,semPredState);

dfaEdgeSwitch(labels, targetState);

// C y c l i c D F A

/** The code to initiate execution of a cyclic DFA; this is used
 * in the rule to predict an alt just like the fixed DFA case.
 * The <name> attribute is inherited via the parser, lexer, ...
 */
dfaDecision(decisionNumber,description);

/** Generate the tables and support code needed for the DFASState object
 * argument. Unless there is a semantic predicate (or syn pred, which
 * become sem preds), all states should be encoded in the state tables.
 * Consequently, cyclicDFASState/cyclicDFAEdge,eotDFAEdge templates are
 * not used except for special DFA states that cannot be encoded as
 * a transition table.
 */
cyclicDFA(dfa);

/** A special state in a cyclic DFA; special means has a semantic predicate
 * or it's a huge set of symbols to check.
 */
cyclicDFASState(decisionNumber,stateNumber,edges,needErrorClause,semPredState);

/** Just like a fixed DFA edge, test the lookahead and indicate what
 * state to jump to next if successful. Again, this is for special

```

```

* states.
*/
cyclicDFAEdge(labelExpr, targetStateNumber, edgeNumber, predicates);

/** An edge pointing at end-of-token; essentially matches any char;
* always jump to the target.
*/
eotDFAEdge(targetStateNumber,edgeNumber, predicates);

// D F A E X P R E S S I O N S

andPredicates(left,right);

orPredicates(operands);

notPredicate(pred);

evalPredicate(pred,description);

evalSynPredicate(pred,description);

lookaheadTest(atom,k,atomAsInt);

/** Sometimes a lookahead test cannot assume that LA(k) is in a temp variable
* somewhere. Must ask for the lookahead directly.
*/
isolatedLookaheadTest(atom,k,atomAsInt);

lookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt);

isolatedLookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt);

setTest(ranges);

// A T T R I B U T E S

parameterAttributeRef(attr);
parameterSetAttributeRef(attr,expr);

scopeAttributeRef(scope,attr,index,negIndex);
scopeSetAttributeRef(scope,attr,expr,index,negIndex);

/** $x is either global scope or x is rule with dynamic scope; refers
* to stack itself not top of stack. This is useful for predicates
* like {$function.size(>0) && $function::name.equals("foo")}?
*/
isolatedDynamicScopeRef(scope);

```

```

/** reference an attribute of rule; might only have single return value */
ruleLabelRef(referencedRule,scope,attr);

returnAttributeRef(ruleDescriptor,attr);
returnSetAttributeRef(ruleDescriptor,attr,expr);

/** How to translate $tokenLabel */
tokenLabelRef(label);

/** ids+=ID {$ids} or e+=expr {$e} */
listLabelRef(label);

// not sure the next are the right approach; and they are evaluated early;
// they cannot see TREE_PARSER or PARSER attributes for example. :(

tokenLabelPropertyRef_text(scope,attr);
tokenLabelPropertyRef_type(scope,attr);
tokenLabelPropertyRef_line(scope,attr);
tokenLabelPropertyRef_pos(scope,attr);
tokenLabelPropertyRef_channel(scope,attr);
tokenLabelPropertyRef_index(scope,attr);
tokenLabelPropertyRef_tree(scope,attr);

ruleLabelPropertyRef_start(scope,attr);
ruleLabelPropertyRef_stop(scope,attr);
ruleLabelPropertyRef_tree(scope,attr);
ruleLabelPropertyRef_text(scope,attr);
ruleLabelPropertyRef_st(scope,attr);

/** Isolated $RULE ref ok in lexer as it's a Token */
lexerRuleLabel(label);

lexerRuleLabelPropertyRef_type(scope,attr);
lexerRuleLabelPropertyRef_line(scope,attr);
lexerRuleLabelPropertyRef_pos(scope,attr);
lexerRuleLabelPropertyRef_channel(scope,attr);
lexerRuleLabelPropertyRef_index(scope,attr);
lexerRuleLabelPropertyRef_text(scope,attr);

// Somebody may ref $template or $tree or $stop within a rule:
rulePropertyRef_start(scope,attr);
rulePropertyRef_stop(scope,attr);
rulePropertyRef_tree(scope,attr);
rulePropertyRef_text(scope,attr);
rulePropertyRef_st(scope,attr);

lexerRulePropertyRef_text(scope,attr);
lexerRulePropertyRef_type(scope,attr);

```

```

lexerRulePropertyRef_line(scope,attr);
lexerRulePropertyRef_pos(scope,attr);
/** Undefined, but present for consistency with Token attributes; set to -1 */
lexerRulePropertyRef_index(scope,attr);
lexerRulePropertyRef_channel(scope,attr);
lexerRulePropertyRef_start(scope,attr);
lexerRulePropertyRef_stop(scope,attr);

ruleSetPropertyRef_tree(scope,attr,expr);
ruleSetPropertyRef_st(scope,attr,expr);

/** How to execute an action */
execAction(action);

// M I S C (properties, etc...)

codeFileExtension();

/** Your language needs a header file; e.g., ".h" */
optional headerFileExtension();

true();
false();

```

Found in path(s):

```
* /opt/cola/permits/1204005060_1631853129.56/0/antlr-3-1-3-sources-4-
jar/org/antlr/codegen/templates/ANTLRCore.sti
```

No license file was found, but licenses were detected in source scan.

```
/*
```

[The "BSD licence"]

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\*/

```
group CSharp2 implements ANTLRCore;
```

```
/** The overall file structure of a recognizer; stores methods for rules
```

```
* and cyclic DFAs plus support code.
```

```
*/
```

```
outputFile(LEXER,PARSER,TREE_PARSER, actionScope, actions,
 docComment, recognizer,
 name, tokens, tokenNames, rules, cyclicDFAs,
 bitsets, buildTemplate, buildAST, rewriteMode, profile,
 backtracking, synpreds, memoize, numRules,
 fileName, ANTLRVersion, generatedTimestamp, trace,
 scopes, superClass, literals) ::=
```

```
<<
```

```
// $ANTLR <ANTLRVersion> <fileName> <generatedTimestamp>
```

```
<@debugPreprocessor(>
```

```
// The variable 'variable' is assigned but its value is never used.
```

```
#pragma warning disable 168, 219
```

```
// Unreachable code detected.
```

```
#pragma warning disable 162
```

```
<actions.(actionScope).header>
```

```
<@imports>
```

```
using System;
```

```
using Antlr.Runtime;
```

```
<if(TREE_PARSER)>
```

```
using Antlr.Runtime.Tree;
```

```
<endif>
```

```
using IList = System.Collections.IList;
```

```
using ArrayList = System.Collections.ArrayList;
```

```
using Stack = Antlr.Runtime.Collections.StackList;
```

```
<if(backtracking)>
```

```
using IDictionary = System.Collections.IDictionary;
```

```
using Hashtable = System.Collections.Hashtable;
```

```
<endif>
```



```

<@end>

<if(actions.(actionScope).namespace)>
namespace <actions.(actionScope).namespace>
{
<endif>

<docComment>
<recognizer>
<if(actions.(actionScope).namespace)>
}
<endif>
>>

lexer(grammar, name, tokens, scopes, rules, numRules, labelType="IToken",
 filterMode, superClass="Lexer") ::= <<
public partial class <grammar.recognizerName> : <@superClassName><superClass><@end> {
 <tokens:{public const int <it.name> = <it.type>;}; separator="\n">
 <scopes:{<if(it.isDynamicGlobalScope)><globalAttributeScope(scope=it)><endif>}>
 <actions.lexer.members>

 // delegates
 <grammar.delegates:
 {g|public <g.recognizerName> <g.delegateName()>;}; separator="\n">
 // delegators
 <grammar.delegators:
 {g|public <g.recognizerName> <g.delegateName()>;}; separator="\n">
 <last(grammar.delegators):{g|public <g.recognizerName> gParent;}>

 public <grammar.recognizerName>() <! needed by subclasses !>
 {
 InitializeCyclicDFAs();
 }
 public <grammar.recognizerName>(ICharStream input<grammar.delegators:{g|, <g.recognizerName>
<g.delegateName()>}>>
 : this(input, null<grammar.delegators:{g|, <g.delegateName()>}>) {
 }
 public <grammar.recognizerName>(ICharStream input, RecognizerSharedState state<grammar.delegators:{g|,
<g.recognizerName> <g.delegateName()>}>>
 : base(input, state) {
 InitializeCyclicDFAs(); <! Necessary in C#??? Not removed yet. !>
 <if(memoize)>
 <if(grammar.grammarIsRoot)>
 state.ruleMemo = new Hashtable[<numRules>+1];<\n> <! index from 1..n !>
 <endif>
 <endif>

 <grammar.directDelegates:
 {g|<g.delegateName()> = new <g.recognizerName>(input, state<trunc(g.delegators):{p|,

```

```

<p:delegateName(>>, this);}; separator="\n">
 <grammar.delegators:
 {g|this.<g:delegateName(> = <g:delegateName(>}; separator="\n">
 <last(grammar.delegators):{g|gParent = <g:delegateName(>};}>
 }

 override public string GrammarFileName
 {
 get { return "<fileName>";}
 }

<if(filterMode)>
 <filteringNextToken(>
<endif>
 <rules; separator="\n\n">

 <synpreds:{p | <lexerSynpred(p)>}>

 <cyclicDFAs:{dfa | protected DFA<dfa.decisionNumber> dfa<dfa.decisionNumber>}; separator="\n">
 private void InitializeCyclicDFAs(<@debugInitializeCyclicDFAs(>)
 {
 <cyclicDFAs:{dfa | this.dfa<dfa.decisionNumber> = new
 DFA<dfa.decisionNumber>(this<@debugAddition(>);}; separator="\n">
 <cyclicDFAs:{dfa | <if(dfa.specialStateSTs)>this.dfa<dfa.decisionNumber>.specialStateTransitionHandler = new
 DFA.SpecialStateTransitionHandler(DFA<dfa.decisionNumber>_SpecialStateTransition);<endif>};
 separator="\n">
 }

 <cyclicDFAs:cyclicDFA(> <! dump tables for all DFA !>

 }
>>

/** A override of Lexer.nextToken() that backtracks over mTokens() looking
 * for matches. No error can be generated upon error; just rewind, consume
 * a token and then try again. backtracking needs to be set as well.
 *
 * Make rule memoization happen only at levels above 1 as we start mTokens
 * at backtracking==1.
 */
filteringNextToken() ::= <<
override public IToken NextToken()
{
 while (true)
 {
 if (input.LA(1) == (int)CharStreamConstants.EOF)
 {
 return Token.EOF_TOKEN;

```

```

 }

 state.token = null;
state.channel = Token.DEFAULT_CHANNEL;
 state.tokenStartCharIndex = input.Index();
 state.tokenStartCharPositionInLine = input.CharPositionInLine;
 state.tokenStartLine = input.Line;
state.text = null;
 try
 {
 int m = input.Mark();
 state.backtracking = 1; <! means we won't throw slow exception !>
 state.failed = false;
 mTokens();
 state.backtracking = 0;
<!
mTokens backtracks with synpred at backtracking==2
and we set the synpredgate to allow actions at level 1.
!>
 if (state.failed)
 {
 input.Rewind(m);
 input.Consume(); <! // advance one char and try again !>
 }
 else
 {
 Emit();
 return state.token;
 }
 }
 catch (RecognitionException re)
 {
 // shouldn't happen in backtracking mode, but...
 ReportError(re);
 Recover(re);
 }
}

override public void Memoize(IIntStream input, int ruleIndex, int ruleStartIndex)
{
 if (state.backtracking > 1)
 base.Memoize(input, ruleIndex, ruleStartIndex);
}

override public bool AlreadyParsedRule(IIntStream input, int ruleIndex)
{
 if (state.backtracking>1)

```

```

 return base.AlreadyParsedRule(input, ruleIndex);
 return false;
}
>>

actionGate() ::= "(state.backtracking==0)"

filteringActionGate() ::= "(state.backtracking == 1)"

/** How to generate a parser */
genericParser(grammar, name, scopes, tokens, tokenNames, rules, numRules,
 bitsets, inputStreamType, superClass, filterMode,
 ASTLabelType="object", labelType, members, rewriteElementType) ::= <<
public partial class <grammar.recognizerName> : <@superClassName><superClass><@end>
{
<if(grammar.grammarIsRoot)>
 public static readonly string[] tokenNames = new string[]
 {
 "\<invalid>",
 "\<EOR>",
 "\<DOWN>",
 "\<UP>",
 <tokenNames; separator=", \n">
 };<\n>
<endif>

 <tokens:{public const int <it.name> = <it.type>;}; separator="\n">

 // delegates
 <grammar.delegates:
 {g|public <g.recognizerName> <g.delegateName()>;}; separator="\n">
 // delegators
 <grammar.delegators:
 {g|public <g.recognizerName> <g.delegateName()>;}; separator="\n">
 <last(grammar.delegators):{g|public <g.recognizerName> gParent;}>

 <scopes:{<if(it.isDynamicGlobalScope)><globalAttributeScope(scope=it)><endif>}>
 <@members>
 <! WARNING. bug in ST: this is cut-n-paste into Dbg.stg !>

 public <grammar.recognizerName>(<inputStreamType> input<grammar.delegators:{g|, <g.recognizerName>
 <g.delegateName()>}>)
 : this(input, new RecognizerSharedState(<grammar.delegators:{g|, <g.delegateName()>}>)) {
 }

 public <grammar.recognizerName>(<inputStreamType> input, RecognizerSharedState
 state<grammar.delegators:{g|, <g.recognizerName> <g.delegateName()>}>)
 : base(input, state) {

```

```

 <parserCtorBody()>
 <grammar.directDelegates:
 {g|<g.delegateName()> = new <g.recognizerName>(input, state<trunc(g.delegators):{p|,
<p.delegateName()>>, this);}; separator="\n">
 <grammar.indirectDelegates:{g | <g.delegateName()> = <g.delegator.delegateName()>.<g.delegateName()>};
separator="\n">
 <last(grammar.delegators):{g|gParent = <g.delegateName()>};>
 }
 <@end>

 override public string[] TokenNames {
 get { return <grammar.composite.rootGrammar.recognizerName>.tokenNames; }
 }

 override public string GrammarFileName {
 get { return "<fileName>"; }
 }

 <members>

 <rules; separator="\n\n">

 <! generate rule/method definitions for imported rules so they
 appear to be defined in this recognizer. !>
 // Delegated rules
 <grammar.delegatedRules:{ruleDescriptor|
 public <returnType()> <ruleDescriptor.name>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>) //
 throws RecognitionException
 \{
 <if(ruleDescriptor.hasReturnValue)>return
 <endif><ruleDescriptor.grammar:delegateName()>.<ruleDescriptor.name>(<ruleDescriptor.parameterScope.attributes:
 {a|<a.name>}; separator=", ">);
 \}}; separator="\n">

 <synpreds:{p | <synpred(p)>>

 <cyclicDFAs:{dfa | protected DFA<dfa.decisionNumber> dfa<dfa.decisionNumber>;}; separator="\n">
 private void InitializeCyclicDFAs(<@debugInitializeCyclicDFAs()>)
 {
 <cyclicDFAs:{dfa | this.dfa<dfa.decisionNumber> = new
 DFA<dfa.decisionNumber>(this<@debugAddition()>);}; separator="\n">
 <cyclicDFAs:{dfa | <if(dfa.specialStateSTs)>this.dfa<dfa.decisionNumber>.specialStateTransitionHandler = new
 DFA.SpecialStateTransitionHandler(DFA<dfa.decisionNumber>_SpecialStateTransition);<endif>};
 separator="\n">
 }

 <cyclicDFAs:cyclicDFA()> <! dump tables for all DFA !>

```

```

 <bitsets:bitset(name={FOLLOW_<it.name>_in_<it.inName><it.tokenIndex>},
 words64=it.bits)>
}
>>

parserCtorBody() ::= <<
<@initializeCyclicDFAs>InitializeCyclicDFAs();<@end>
<if(memoize)>
<if(grammar.grammarIsRoot)>
this.state.ruleMemo = new Hashtable[<length(grammar.allImportedRules)>+1];<\n> <! index from 1..n !>
<endif>
<endif>
<grammar.delegators:
{g|this.<g:delegateName()> = <g:delegateName()>; separator="\n">
>>

parser(grammar, name, scopes, tokens, tokenNames, rules, numRules, bitsets, ASTLabelType, superClass="Parser",
labelType="IToken", members={<actions.parser.members>}) ::= <<
<genericParser(inputStreamType="ITokenStream", rewriteElementType="Token", ...)>
>>

/** How to generate a tree parser; same as parser except the input
 * stream is a different type.
 */
treeParser(grammar, name, scopes, tokens, tokenNames, globalAction, rules, numRules, bitsets,
labelType={<ASTLabelType>}, ASTLabelType="object", superClass="TreeParser",
members={<actions.treeparser.members>}, filterMode) ::= <<
<genericParser(inputStreamType="ITreeNodeStream", rewriteElementType="Node", ...)>
>>

/** A simpler version of a rule template that is specific to the imaginary
 * rules created for syntactic predicates. As they never have return values
 * nor parameters etc..., just give simplest possible method. Don't do
 * any of the normal memoization stuff in here either; it's a waste.
 * As predicates cannot be inlined into the invoking rule, they need to
 * be in a rule by themselves.
 */
synpredRule(ruleName, ruleDescriptor, block, description, nakedBlock) ::=
<<
// $ANTLR start "<ruleName>"
public void <ruleName>_fragment(<ruleDescriptor.parameterScope:parameterScope(scope=it)>) {
 <ruleLabelDefs()>
<if(trace)>
 TraceIn("<ruleName>_fragment", <ruleDescriptor.index>);
 try
 {
 <block>
 }
}

```

```

 finally
 {
 TraceOut("<ruleName>_fragment", <ruleDescriptor.index>);
 }
<else>
 <block>
<endif>
}
// $ANTLR end "<ruleName>"
>>

synpredDecls(name) ::= <<
SynPredPointer <name>;<\n>
>>

synpred(name) ::= <<
public bool <name>()
{
 state.backtracking++;
 <@start()>
 int start = input.Mark();
 try
 {
 <name>_fragment(); // can never throw exception
 }
 catch (RecognitionException re)
 {
 Console.Error.WriteLine("impossible: "+re);
 }
 bool success = !state.failed;
 input.Rewind(start);
 <@stop()>
 state.backtracking--;
 state.failed = false;
 return success;
}<\n>
>>

lexerSynpred(name) ::= <<
<synpred(name)>
>>

ruleMemoization(name) ::= <<
<if(memoize)>
if ((state.backtracking > 0) && AlreadyParsedRule(input, <ruleDescriptor.index>))
{
 return <ruleReturnValue()>;
}

```

```

<endif>
>>

/** How to test for failure and return from rule */
checkRuleBacktrackFailure() ::= <<
<if(backtracking)>if (state.failed) return <ruleReturnValue(>>;<endif>
>>

/** This rule has failed, exit indicating failure during backtrack */
ruleBacktrackFailure() ::= <<
<if(backtracking)>if (state.backtracking > 0) {state.failed = true; return <ruleReturnValue(>>};<endif>
>>

/** How to generate code for a rule. This includes any return type
 * data aggregates required for multiple return values.
 */
rule(ruleName,ruleDescriptor,block,emptyRule,description,exceptions,finally,memoize) ::= <<
<ruleAttributeScope(scope=ruleDescriptor.ruleScope)>
<returnScope(scope=ruleDescriptor.returnScope)>

// $ANTLR start "<ruleName>"
// <fileName>:<description>
public <returnType(>> <ruleName>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>>) // throws
RecognitionException [1]
{
 <if(trace)>TraceIn("<ruleName>", <ruleDescriptor.index>);<endif>
 <ruleScopeSetUp(>>
 <ruleDeclarations(>>
 <ruleLabelDefs(>>
 <ruleDescriptor.actions.init>
 <@preamble(>>
 try
 {
 <ruleMemoization(name=ruleName)>
 <block>
 <ruleCleanUp(>>
 <(ruleDescriptor.actions.after):execAction(>>
 }
 <if(exceptions)>
 <exceptions:{e|<catch(decl=e.decl,action=e.action)><n>}>
 <else>
 <if(!emptyRule)>
 <if(actions.(actionScope).rulecatch)>
 <actions.(actionScope).rulecatch>
 <else>
 catch (RecognitionException re)
 {
 ReportError(re);

```



```

 Recover(input,re);
<@setErrorReturnValue(>
 }<\n>
<endif>
<endif>
<endif>
 finally
 {
 <if(trace)>TraceOut("<ruleName>", <ruleDescriptor.index>);<endif>
 <memoize(>
 <ruleScopeCleanUp(>
 <finally>
 }
 <@postamble(>
 return <ruleReturnValue(>;
}
// $ANTLR end "<ruleName>"
>>

catch(decl,action) ::= <<
catch (<e.decl>)
{
 <e.action>
}
>>

ruleDeclarations() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<returnType(> retval = new <returnType(>());
retval.Start = input.LT(1);<\n>
<else>
<ruleDescriptor.returnScope.attributes: { a |
<a.type> <a.name> = <if(a.initValue)><a.initValue><else><initValue(a.type)><endif>;
}>
<endif>
<if(memoize)>
int <ruleDescriptor.name>_startIndex = input.Index();
<endif>
>>

ruleScopeSetUp() ::= <<
<ruleDescriptor.useScopes: {<it>_stack.Push(new <it>_scope());}; separator="\n">
<ruleDescriptor.ruleScope: {<it.name>_stack.Push(new <it.name>_scope());}; separator="\n">
>>

ruleScopeCleanUp() ::= <<
<ruleDescriptor.useScopes: {<it>_stack.Pop();}; separator="\n">
<ruleDescriptor.ruleScope: {<it.name>_stack.Pop();}; separator="\n">

```

>>

```
ruleLabelDefs() ::= <<
<[ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels,
ruleDescriptor.wildcardTreeLabels,ruleDescriptor.wildcardTreeListLabels]
: {<labelType> <it.label.text> = null;}; separator="\n"
>
<[ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels,ruleDescriptor.wildcardTreeListLabels]
: {IList list_<it.label.text> = null;}; separator="\n"
>
<ruleDescriptor.ruleLabels:ruleLabelDef(label=it); separator="\n">
<ruleDescriptor.ruleListLabels: {I|<I:ruleLabelDef(label=it)> <I.list.text> = null;}; separator="\n">
>>
```

```
lexerRuleLabelDefs() ::= <<
<[ruleDescriptor.tokenLabels,
ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleLabels]
: {<labelType> <it.label.text> = null;}; separator="\n"
>
<ruleDescriptor.charLabels: {int <it.label.text>;}; separator="\n">
<[ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleListLabels]
: {IList list_<it.label.text> = null;}; separator="\n"
>
>>
```

```
ruleReturnValue() ::= <<
<if(!ruleDescriptor.isSynPred)>
<if(ruleDescriptor.hasReturnValue)>
<if(ruleDescriptor.hasSingleReturnValue)>
<ruleDescriptor.singleValueReturnName>
<else>
retval
<endif>
<endif>
<endif>
>>
```

```
ruleCleanUp() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<if(!TREE_PARSER)>
retval.Stop = input.LT(-1);<\n>
<endif>
<endif>
>>
```

```
memoize() ::= <<
```

```

<if(memoize)>
<if(backtracking)>
if (state.backtracking > 0)
{
Memoize(input, <ruleDescriptor.index>, <ruleDescriptor.name>_StartIndex);
}
<endif>
<endif>
>>

/** How to generate a rule in the lexer; naked blocks are used for
 * fragment rules.
 */
lexerRule(ruleName,nakedBlock,ruleDescriptor,block,memoize) ::= <<
// $ANTLR start "<ruleName>"
public void m<ruleName>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>) // throws
RecognitionException [2]
{
<ruleAttributeScope(scope=ruleDescriptor.ruleScope)>
<if(trace)>TraceIn("<ruleName>", <ruleDescriptor.index>);<endif>
<ruleScopeSetUp()>
<ruleDeclarations()>
try
{
<if(nakedBlock)>
<ruleMemoization(name=ruleName)>
<lexerRuleLabelDefs()>
<ruleDescriptor.actions.init>
<block><\n>
<else>
int _type = <ruleName>;
int _channel = DEFAULT_TOKEN_CHANNEL;
<ruleMemoization(name=ruleName)>
<lexerRuleLabelDefs()>
<ruleDescriptor.actions.init>
<block>
<ruleCleanUp()>
state.type = _type;
state.channel = _channel;
<(ruleDescriptor.actions.after):execAction()>
<endif>
}
finally
{
<if(trace)>TraceOut("<ruleName>", <ruleDescriptor.index>);<endif>
<ruleScopeCleanUp()>
<memoize()>
}
}

```

```

}
// $ANTLR end "<ruleName>"
>>

/** How to generate code for the implicitly-defined lexer grammar rule
 * that chooses between lexer rules.
 */
tokensRule(ruleName,nakedBlock,args,block,ruleDescriptor) ::= <<
override public void mTokens() // throws RecognitionException
{
 <block><\n>
}
>>

// S U B R U L E S

/** A (...) subrule with multiple alternatives */
block(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// <fileName>:<description>
int alt<decisionNumber> = <maxAlt>;
<decls>
<@predecision()>
<decision>
<@postdecision()>
<@prebranch()>
switch (alt<decisionNumber>)
{
 <alts:altSwitchCase()>
}
<@postbranch()>
>>

/** A rule block with multiple alternatives */
ruleBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// <fileName>:<description>
int alt<decisionNumber> = <maxAlt>;
<decls>
<@predecision()>
<decision>
<@postdecision()>
switch (alt<decisionNumber>)
{
 <alts:altSwitchCase()>
}
>>

ruleBlockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
// <fileName>:<description>

```

```

<decls>
<@prealt()>
<alts>
<@postalt()>
>>

/** A special case of a (...) subrule with a single alternative */
blockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
// <fileName>:<description>
<decls>
<@prealt()>
<alts>
<@postalt()>
>>

/** A (..)+ block with 1 or more alternatives */
positiveClosureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,descriptio
n) ::= <<
// <fileName>:<description>
int cnt<decisionNumber> = 0;
<decls>
<@preloop()>
do
{
 int alt<decisionNumber> = <maxAlt>;
 <@predecision()>
 <decision>
 <@postdecision()>
 switch (alt<decisionNumber>)
 {
 <alts:altSwitchCase()>
 default:
 if (cnt<decisionNumber> >= 1) goto loop<decisionNumber>;
 <ruleBacktrackFailure()>
 EarlyExitException eee<decisionNumber> =
 new EarlyExitException(<decisionNumber>, input);
 <@earlyExitException()>
 throw eee<decisionNumber>;
 }
 cnt<decisionNumber>++;
} while (true);

loop<decisionNumber>:
; // Stops C# compiler whining that label 'loop<decisionNumber>' has no statements
<@postloop()>
>>

positiveClosureBlockSingleAlt ::= positiveClosureBlock

```

```

/** A (.)* block with 1 or more alternatives */
closureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::=
<<
// <fileName>:<description>
<decls>
<@preloop()>
do
{
 int alt<decisionNumber> = <maxAlt>;
 <@predecision()>
 <decision>
 <@postdecision()>
 switch (alt<decisionNumber>)
 {
 <alts:altSwitchCase()>
 default:
 goto loop<decisionNumber>;
 }
} while (true);

loop<decisionNumber>:
; // Stops C# compiler whining that label 'loop<decisionNumber>' has no statements
<@postloop()>
>>

closureBlockSingleAlt ::= closureBlock

/** Optional blocks (x)? are translated to (x|) by before code generation
 * so we can just use the normal block template
 */
optionalBlock ::= block

optionalBlockSingleAlt ::= block

/** A case in a switch that jumps to an alternative given the alternative
 * number. A DFA predicts the alternative and then a simple switch
 * does the jump to the code that actually matches that alternative.
 */
altSwitchCase() ::= <<
case <i> :
 <@prealt()>
 <it>
 break;<\n>
>>

/** An alternative is just a list of elements; at outermost level */
alt(elements,altNum,description,autoAST,outerAlt,treeLevel,rew) ::= <<

```

```

// <fileName>:<description>
{
 <@declarations()>
 <elements:element()>
 <rew>
 <@cleanup()>
}
>>

/** What to emit when there is no rewrite. For auto build
 * mode, does nothing.
 */
noRewrite(rewriteBlockLevel, treeLevel) ::= ""

// E L E M E N T S

/** Dump the elements one per line */
element() ::= <<
 <@prematch()>
 <it.el><\n>
>>

/** match a token optionally with a label in front */
tokenRef(token,label,elementIndex,hetero) ::= <<
 <if(label)><label>=<(<labelType>)<endif>Match(input,<token>,FOLLOW_<token>_in_<ruleName><elementIndex
 >); <checkRuleBacktrackFailure()>
>>

/** ids+=ID */
tokenRefAndListLabel(token,label,elementIndex,hetero) ::= <<
 <tokenRef(...)>
 <listLabel(elem=label,...)>
>>

listLabel(label,elem) ::= <<
 if (list_<label> == null) list_<label> = new ArrayList();
 list_<label>.Add(<elem>);<\n>
>>

/** match a character */
charRef(char,label) ::= <<
 <if(label)>
 <label> = input.LA(1);<\n>
 <endif>
 Match(<char>); <checkRuleBacktrackFailure()>
>>

/** match a character range */

```

```

charRangeRef(a,b,label) ::= <<
<if(label)>
<label> = input.LA(1);<\n>
<endif>
MatchRange(<a>,); <checkRuleBacktrackFailure()>
>>

/** For now, sets are interval tests and must be tested inline */
matchSet(s,label,elementIndex,postmatchCode="") ::= <<
<if(label)>
<if(LEXER)>
<label>= input.LA(1);<\n>
<else>
<label> = (<labelType>)input.LT(1);<\n>
<endif>
<endif>
if (<s>)
{
input.Consume();
<postmatchCode>
<if(!LEXER)>
state.errorRecovery = false;
<endif>
<if(backtracking)>state.failed = false;<endif>
}
else
{
<ruleBacktrackFailure()>
MismatchedSetException mse = new MismatchedSetException(null,input);
<@mismatchedSetException()>
<if(LEXER)>
Recover(mse);
throw mse;
<else>
throw mse;
<! use following code to make it recover inline; remove throw mse;
RecoverFromMismatchedSet(input,mse,FOLLOW_set_in_<ruleName><elementIndex>);
!>
<endif>
}<\n>
>>

matchRuleBlockSet ::= matchSet

matchSetAndListLabel(s,label,elementIndex,postmatchCode) ::= <<
<matchSet(...)>
<listLabel(elem=label,...)>
>>

```



```

/** Match a string literal */
lexerStringRef(string,label) ::= <<
<if(label)>
int <label>Start = CharIndex;
Match(<string>); <checkRuleBacktrackFailure()>
<label> = new CommonToken(input, Token.INVALID_TOKEN_TYPE, Token.DEFAULT_CHANNEL,
<label>Start, CharIndex-1);
<else>
Match(<string>); <checkRuleBacktrackFailure()><\n>
<endif>
>>

```

```

wildcard(label,elementIndex) ::= <<
<if(label)>
<label> = (<labelType>)input.LT(1);<\n>
<endif>
MatchAny(input); <checkRuleBacktrackFailure()>
>>

```

```

wildcardAndListLabel(label,elementIndex) ::= <<
<wildcard(...)>
<listLabel(elem=label,...)>
>>

```

```

/** Match . wildcard in lexer */
wildcardChar(label, elementIndex) ::= <<
<if(label)>
<label> = input.LA(1);<\n>
<endif>
MatchAny(); <checkRuleBacktrackFailure()>
>>

```

```

wildcardCharListLabel(label, elementIndex) ::= <<
<wildcardChar(...)>
<listLabel(elem=label,...)>
>>

```

```

/** Match a rule reference by invoking it possibly with arguments
 * and a return value or values. The 'rule' argument was the
 * target rule name, but now is type Rule, whose toString is
 * same: the rule name. Now though you can access full rule
 * descriptor stuff.
 */

```

```

ruleRef(rule,label,elementIndex,args,scope) ::= <<
PushFollow(FOLLOW_<rule.name>_in_<ruleName><elementIndex>);
<if(label)>
<label> = <if(scope)><scope.delegateName()>.<endif><rule.name>(<args; separator=", ">);<\n>

```

```

<else>
<if(scope)><scope.delegateName()>.<endif><rule.name>(<args; separator=", ">);<\n>
<endif>
state.followingStackPointer--;
<checkRuleBacktrackFailure()>
>>

/** ids+=r */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>
<listLabel(elem=label,...)>
>>

/** A lexer rule reference.
*
* The 'rule' argument was the target rule name, but now
* is type Rule, whose toString is same: the rule name.
* Now though you can access full rule descriptor stuff.
*/
lexerRuleRef(rule,label,args,elementIndex,scope) ::= <<
<if(label)>
int <label>Start<elementIndex> = CharIndex;
<if(scope)><scope.delegateName()>.<endif>m<rule.name>(<args; separator=", ">);
<checkRuleBacktrackFailure()>
<label> = new CommonToken(input, Token.INVALID_TOKEN_TYPE, Token.DEFAULT_CHANNEL,
<label>Start<elementIndex>, CharIndex-1);
<else>
<if(scope)><scope.delegateName()>.<endif>m<rule.name>(<args; separator=", ">);
<checkRuleBacktrackFailure()>
<endif>
>>

/** i+=INT in lexer */
lexerRuleRefAndListLabel(rule,label,args,elementIndex,scope) ::= <<
<lexerRuleRef(...)>
<listLabel(elem=label,...)>
>>

/** EOF in the lexer */
lexerMatchEOF(label,elementIndex) ::= <<
<if(label)>
int <label>Start<elementIndex> = CharIndex;
Match(EOF); <checkRuleBacktrackFailure()>
<labelType> <label> = new CommonToken(input, EOF, Token.DEFAULT_CHANNEL,
<label>Start<elementIndex>, CharIndex-1);
<else>
Match(EOF); <checkRuleBacktrackFailure()>
<endif>

```

```

>>

/** match ^(root children) in tree parser */
tree(root, actionsAfterRoot, children, nullableChildList,
 enclosingTreeLevel, treeLevel) ::= <<
<root:element()>
<actionsAfterRoot:element()>
<if(nullableChildList)>
if (input.LA(1) == Token.DOWN)
{
 Match(input, Token.DOWN, null); <checkRuleBacktrackFailure()>
 <children:element()>
 Match(input, Token.UP, null); <checkRuleBacktrackFailure()>
}
<else>
Match(input, Token.DOWN, null); <checkRuleBacktrackFailure()>
<children:element()>
Match(input, Token.UP, null); <checkRuleBacktrackFailure()>
<endif>
>>

/** Every predicate is used as a validating predicate (even when it is
 * also hoisted into a prediction expression).
 */
validateSemanticPredicate(pred,description) ::= <<
if (!(<evalPredicate(...)>))
{
 <ruleBacktrackFailure()>
 throw new FailedPredicateException(input, "<ruleName>", "<description>");
}
>>

// F i x e d D F A (if-then-else)

dfaState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
int LA<decisionNumber>_<stateNumber> = input.LA(<k>);<\n>
<edges; separator="\nelse ">
else
{
<if(eotPredictsAlt)>
 alt<decisionNumber> = <eotPredictsAlt>;
<else>
 <ruleBacktrackFailure()>
 NoViableAltException nvae_d<decisionNumber>s<stateNumber> =
 new NoViableAltException("<description>", <decisionNumber>, <stateNumber>, input);<\n>
 <@noViableAltException()>
 throw nvae_d<decisionNumber>s<stateNumber>;<\n>
<endif>

```

```

}
>>

/** Same as a normal DFA state except that we don't examine lookahead
 * for the bypass alternative. It delays error detection but this
 * is faster, smaller, and more what people expect. For (X)? people
 * expect "if (LA(1)==X) match(X);" and that's it.
 */
dfaOptionalBlockState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
int LA<decisionNumber>_<stateNumber> = input.LA(<k>);<\n>
<edges; separator="\nelse ">
>>

/** A DFA state that is actually the loopback decision of a closure
 * loop. If end-of-token (EOT) predicts any of the targets then it
 * should act like a default clause (i.e., no error can be generated).
 * This is used only in the lexer so that for ('a')* on the end of a rule
 * anything other than 'a' predicts exiting.
 */
dfaLoopbackState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
int LA<decisionNumber>_<stateNumber> = input.LA(<k>);<\n>
<edges; separator="\nelse "><\n>
<if(eotPredictsAlt)>
<if(!edges)>
alt<decisionNumber>=<eotPredictsAlt>; <! if no edges, don't gen ELSE !>
<else>
else
{
alt<decisionNumber> = <eotPredictsAlt>;
}<\n>
<endif>
<endif>
>>

/** An accept state indicates a unique alternative has been predicted */
dfaAcceptState(alt) ::= "alt<decisionNumber> = <alt>;"

/** A simple edge with an expression. If the expression is satisfied,
 * enter to the target state. To handle gated productions, we may
 * have to evaluate some predicates for this edge.
 */
dfaEdge(labelExpr, targetState, predicates) ::= <<
if ((<labelExpr> <if(predicates)>&& (<predicates>) <endif>)
{
<targetState>
}
>>

```

```

// F i x e d D F A (switch case)

/** A DFA state where a SWITCH may be generated. The code generator
 * decides if this is possible: CodeGenerator.canGenerateSwitch().
 */
dfaStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch (input.LA(<k>)
{
<edges; separator="\n">
default:
<if(eotPredictsAlt)>
 alt<decisionNumber> = <eotPredictsAlt>;
 break;
<else>
 <ruleBacktrackFailure()>
 NoViableAltException nvae_d<decisionNumber>s<stateNumber> =
 new NoViableAltException("<description>", <decisionNumber>, <stateNumber>, input);<\n>
 <@noViableAltException()>
 throw nvae_d<decisionNumber>s<stateNumber>;<\n>
<endif>
}<\n>
>>

dfaOptionalBlockStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch (input.LA(<k>)
{
 <edges; separator="\n">
}<\n>
>>

dfaLoopbackStateSwitch(k, edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch (input.LA(<k>)
{
<edges; separator="\n"><\n>
<if(eotPredictsAlt)>
default:
 alt<decisionNumber> = <eotPredictsAlt>;
 break;<\n>
<endif>
}<\n>
>>

dfaEdgeSwitch(labels, targetState) ::= <<
<labels: { case <it>: }; separator="\n">
{
 <targetState>
}
break;

```

```

>>

// C y c l i c D F A

/** The code to initiate execution of a cyclic DFA; this is used
 * in the rule to predict an alt just like the fixed DFA case.
 * The <name> attribute is inherited via the parser, lexer, ...
 */
dfaDecision(decisionNumber,description) ::= <<
alt<decisionNumber> = dfa<decisionNumber>.Predict(input);
>>

/* Dump DFA tables.
 */
cyclicDFA(dfa) ::= <<
const string DFA<dfa.decisionNumber>_eotS =
 "<dfa.javaCompressedEOT; wrap="\n \>";
const string DFA<dfa.decisionNumber>_eofS =
 "<dfa.javaCompressedEOF; wrap="\n \>";
const string DFA<dfa.decisionNumber>_minS =
 "<dfa.javaCompressedMin; wrap="\n \>";
const string DFA<dfa.decisionNumber>_maxS =
 "<dfa.javaCompressedMax; wrap="\n \>";
const string DFA<dfa.decisionNumber>_acceptS =
 "<dfa.javaCompressedAccept; wrap="\n \>";
const string DFA<dfa.decisionNumber>_specialS =
 "<dfa.javaCompressedSpecial; wrap="\n \>}>";
static readonly string[] DFA<dfa.decisionNumber>_transitionS = {
 <dfa.javaCompressedTransition:{s|<s; wrap="\n \>"}; separator=",\n">
};

static readonly short[] DFA<dfa.decisionNumber>_eot =
DFA.UnpackEncodedString(DFA<dfa.decisionNumber>_eotS);
static readonly short[] DFA<dfa.decisionNumber>_eof =
DFA.UnpackEncodedString(DFA<dfa.decisionNumber>_eofS);
static readonly char[] DFA<dfa.decisionNumber>_min =
DFA.UnpackEncodedStringToUnsignedChars(DFA<dfa.decisionNumber>_minS);
static readonly char[] DFA<dfa.decisionNumber>_max =
DFA.UnpackEncodedStringToUnsignedChars(DFA<dfa.decisionNumber>_maxS);
static readonly short[] DFA<dfa.decisionNumber>_accept =
DFA.UnpackEncodedString(DFA<dfa.decisionNumber>_acceptS);
static readonly short[] DFA<dfa.decisionNumber>_special =
DFA.UnpackEncodedString(DFA<dfa.decisionNumber>_specialS);
static readonly short[][] DFA<dfa.decisionNumber>_transition =
DFA.UnpackEncodedStringArray(DFA<dfa.decisionNumber>_transitionS);

protected class DFA<dfa.decisionNumber> : DFA
{

```

```

<@debugMember(>
public DFA<dfa.decisionNumber>(BaseRecognizer recognizer)
{
 this.recognizer = recognizer;
 this.decisionNumber = <dfa.decisionNumber>;
 this.eot = DFA<dfa.decisionNumber>_eot;
 this.eof = DFA<dfa.decisionNumber>_eof;
 this.min = DFA<dfa.decisionNumber>_min;
 this.max = DFA<dfa.decisionNumber>_max;
 this.accept = DFA<dfa.decisionNumber>_accept;
 this.special = DFA<dfa.decisionNumber>_special;
 this.transition = DFA<dfa.decisionNumber>_transition;

}
<@dbgCtor(>

override public string Description
{
 get { return "<dfa.description>"; }
}

<@errorMethod(>
}<\n>
<if(dfa.specialStateSTs)>

protected internal int DFA<dfa.decisionNumber>_SpecialStateTransition(DFA dfa, int s, IIntStream _input)
//throws NoViableAltException
{
 <if(LEXER)>
 IIntStream input = _input;
 <endif>
 <if(PARSER)>
 ITokenStream input = (ITokenStream)_input;
 <endif>
 <if(TREE_PARSER)>
 ITreeNodeStream input = (ITreeNodeStream)_input;
 <endif>
 int _s = s;
 switch (s)
 {
 <dfa.specialStateSTs:{state |
 case <i0> : <! compressed special state numbers 0..n-1 !>
 <state>}; separator="\n">
 }
 <if(backtracking)>
 if (state.backtracking > 0) {state.failed = true; return -1;}<\n>
 <endif>
 NoViableAltException nvae<dfa.decisionNumber> =

```

```

 new NoViableAltException(dfa.Description, <dfa.decisionNumber>, _s, input);
 dfa.Error(nvae<dfa.decisionNumber>);
 throw nvae<dfa.decisionNumber>;
}<\n>
<endif>
>>

/** A state in a cyclic DFA; it's a special state and part of a big switch on
 * state.
 */
cyclicDFAState(decisionNumber,stateNumber,edges,needErrorClause,semPredState) ::= <<
int LA<decisionNumber>_<stateNumber> = input.LA(1);<\n>
<if(semPredState)> <! get next lookahead symbol to test edges, then rewind !>
int index<decisionNumber>_<stateNumber> = input.Index();
input.Rewind();<\n>
<endif>
s = -1;
<edges; separator="\nelse ">
<if(semPredState)> <! return input cursor to state before we rewound !>
input.Seek(index<decisionNumber>_<stateNumber>);<\n>
<endif>
if (s >= 0) return s;
break;
>>

/** Just like a fixed DFA edge, test the lookahead and indicate what
 * state to jump to next if successful.
 */
cyclicDFAEdge(labelExpr, targetStateNumber, edgeNumber, predicates) ::= <<
if ((<labelExpr> <if(predicates)>&& (<predicates>) <endif>) { s = <targetStateNumber>; }<\n>
>>

/** An edge pointing at end-of-token; essentially matches any char;
 * always jump to the target.
 */
eotDFAEdge(targetStateNumber,edgeNumber, predicates) ::= <<
s = <targetStateNumber>;<\n>
>>

// D F A E X P R E S S I O N S

andPredicates(left,right) ::= "(<left> && <right>)"

orPredicates(operands) ::= "(<first(operands)><rest(operands):{o | || <o>}>)"

notPredicate(pred) ::= "!(<evalPredicate(...)>)"

```



```

evalPredicate(pred,description) ::= "<pred>"

evalSynPredicate(pred,description) ::= "<pred>()"

lookaheadTest(atom,k,atomAsInt) ::= "LA<decisionNumber>_<stateNumber> == <atom>"

/** Sometimes a lookahead test cannot assume that LA(k) is in a temp variable
 * somewhere. Must ask for the lookahead directly.
 */
isolatedLookaheadTest(atom,k,atomAsInt) ::= "input.LA(<k>) == <atom>"

lookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= <<
(LA<decisionNumber>_<stateNumber> \>= <lower> && LA<decisionNumber>_<stateNumber> \<= <upper>)
>>

isolatedLookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= "(input.LA(<k>) \>=
<lower> && input.LA(<k>) \<= <upper>)"

setTest(ranges) ::= "<ranges; separator=\" || \">"

// A T T R I B U T E S

globalAttributeScope(scope) ::= <<
<if(scope.attributes)>
protected class <scope.name>_scope
{
 <scope.attributes:{protected internal <it.decl>;}; separator="\n">
}
protected Stack <scope.name>_stack = new Stack();<\n>
<endif>
>>

ruleAttributeScope(scope) ::= <<
<if(scope.attributes)>
protected class <scope.name>_scope
{
 <scope.attributes:{protected internal <it.decl>;}; separator="\n">
}
protected Stack <scope.name>_stack = new Stack();<\n>
<endif>
>>

returnStructName() ::= "<it.name>_return"

returnType() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<ruleDescriptor.grammar.recognizerName>.<ruleDescriptor:returnStructName()>
<else>

```

```

<if(ruleDescriptor.hasSingleReturnValue)>
<ruleDescriptor.singleValueReturnType>
<else>
void
<endif>
<endif>
>>

/** Generate the C# type associated with a single or multiple return
 * values.
 */
ruleLabelType(referencedRule) ::= <<
<if(referencedRule.hasMultipleReturnValues)>
<referencedRule.grammar.recognizerName>.<referencedRule.name>_return
<else>
<if(referencedRule.hasSingleReturnValue)>
<referencedRule.singleValueReturnType>
<else>
void
<endif>
<endif>
>>

delegateName() ::= <<
<if(it.label)><it.label><else>g<it.name><endif>
>>

/** Using a type to init value map, try to init a type; if not in table
 * must be an object, default value is "null".
 */
initValue(typeName) ::= <<
default(<typeName>)
>>

/** Define a rule label including default value */
ruleLabelDef(label) ::= <<
<ruleLabelType(referencedRule=label.referencedRule)> <label.label.text> =
<initValue(typeName=ruleLabelType(referencedRule=label.referencedRule))>;<\n>
>>

/** Define a return struct for a rule if the code needs to access its
 * start/stop tokens, tree stuff, attributes, ... Leave a hole for
 * subgroups to stick in members.
 */
returnScope(scope) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
public class <ruleDescriptor.returnStructName()> :
<if(TREE_PARSER)>Tree<else>Parser<endif>RuleReturnScope

```

```

{
 <scope.attributes:{public <it.decl>;}; separator="\n">
 <@ruleReturnMembers()>
};
<endif>
>>

parameterScope(scope) ::= <<
<scope.attributes:{<it.decl>}; separator=", ">
>>

parameterAttributeRef(attr) ::= "<attr.name>"
parameterSetAttributeRef(attr,expr) ::= "<attr.name> = <expr>";

scopeAttributeRef(scope,attr,index,negIndex) ::= <<
<if(negIndex)>
((<scope>_scope)<scope>_stack[<scope>_stack.Count-<negIndex>-1]).<attr.name>
<else>
<if(index)>
((<scope>_scope)<scope>_stack[<index>]).<attr.name>
<else>
((<scope>_scope)<scope>_stack.Peek()).<attr.name>
<endif>
<endif>
>>

scopeSetAttributeRef(scope,attr,expr,index,negIndex) ::= <<
<if(negIndex)>
((<scope>_scope)<scope>_stack[<scope>_stack.Count-<negIndex>-1]).<attr.name> = <expr>;
<else>
<if(index)>
((<scope>_scope)<scope>_stack[<index>]).<attr.name> = <expr>;
<else>
((<scope>_scope)<scope>_stack.Peek()).<attr.name> = <expr>;
<endif>
<endif>
>>

/** $x is either global scope or x is rule with dynamic scope; refers
 * to stack itself not top of stack. This is useful for predicates
 * like {$function.size()>0 && $function::name.equals("foo")}?
 */
isolatedDynamicScopeRef(scope) ::= "<scope>_stack"

/** reference an attribute of rule; might only have single return value */
ruleLabelRef(referencedRule,scope,attr) ::= <<
<if(referencedRule.hasMultipleReturnValues)>
((<scope> != null) ? <scope>.<attr.name> : <initValue(attr.type)>)

```

```

<else>
<scope>
<endif>
>>

returnAttributeRef(ruleDescriptor,attr) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
retval.<attr.name>
<else>
<attr.name>
<endif>
>>

returnSetAttributeRef(ruleDescriptor,attr,expr) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
retval.<attr.name> = <expr>;
<else>
<attr.name> = <expr>;
<endif>
>>

/** How to translate $tokenLabel */
tokenLabelRef(label) ::= "<label>"

/** ids+=ID {$ids} or e+=expr {$e} */
listLabelRef(label) ::= "list_<label>"

// not sure the next are the right approach

tokenLabelPropertyRef_text(scope,attr) ::= "((<scope> != null) ? <scope>.Text : null)"
tokenLabelPropertyRef_type(scope,attr) ::= "((<scope> != null) ? <scope>.Type : 0)"
tokenLabelPropertyRef_line(scope,attr) ::= "((<scope> != null) ? <scope>.Line : 0)"
tokenLabelPropertyRef_pos(scope,attr) ::= "((<scope> != null) ? <scope>.CharPositionInLine : 0)"
tokenLabelPropertyRef_channel(scope,attr) ::= "((<scope> != null) ? <scope>.Channel : 0)"
tokenLabelPropertyRef_index(scope,attr) ::= "((<scope> != null) ? <scope>.TokenIndex : 0)"
tokenLabelPropertyRef_tree(scope,attr) ::= "<scope>_tree"
tokenLabelPropertyRef_int(scope,attr) ::= "(<scope>!=null?int.Parse(<scope>.Text):0)"

ruleLabelPropertyRef_start(scope,attr) ::= "((<scope> != null) ? ((<labelType>)<scope>.Start) : null)"
ruleLabelPropertyRef_stop(scope,attr) ::= "((<scope> != null) ? ((<labelType>)<scope>.Stop) : null)"
ruleLabelPropertyRef_tree(scope,attr) ::= "((<scope> != null) ? ((<ASTLabelType>)<scope>.Tree) : null)"
ruleLabelPropertyRef_text(scope,attr) ::= <<
<if(TREE_PARSER)>
((<scope> != null) ? input.TokenStream.ToString(
input.TreeAdaptor.GetTokenStartIndex(<scope>.Start),
input.TreeAdaptor.GetTokenStopIndex(<scope>.Start)) : null)
<else>

```

```

((<scope> != null) ? input.ToString((IToken)(<scope>.Start),(IToken)(<scope>.Stop)) : null)
<endif>
>>
ruleLabelPropertyRef_st(scope,attr) ::= "((<scope> != null) ? <scope>.ST : null)"

/** Isolated $RULE ref ok in lexer as it's a Token */
lexerRuleLabel(label) ::= "<label>"

lexerRuleLabelPropertyRef_type(scope,attr) ::= "((<scope> != null) ? <scope>.Type : 0)"
lexerRuleLabelPropertyRef_line(scope,attr) ::= "((<scope> != null) ? <scope>.Line : 0)"
lexerRuleLabelPropertyRef_pos(scope,attr) ::= "((<scope> != null) ? <scope>.CharPositionInLine : -1)"
lexerRuleLabelPropertyRef_channel(scope,attr) ::= "((<scope> != null) ? <scope>.Channel : 0)"
lexerRuleLabelPropertyRef_index(scope,attr) ::= "((<scope> != null) ? <scope>.TokenIndex : 0)"
lexerRuleLabelPropertyRef_text(scope,attr) ::= "((<scope> != null) ? <scope>.Text : null)"
lexerRuleLabelPropertyRef_int(scope,attr) ::= "(<scope>!=null?int.Parse(<scope>.Text):0)"

// Somebody may ref $template or $tree or $stop within a rule:
rulePropertyRef_start(scope,attr) ::= "((<labelType>)retval.Start)"
rulePropertyRef_stop(scope,attr) ::= "((<labelType>)retval.Stop)"
rulePropertyRef_tree(scope,attr) ::= "((<ASTLabelType>)retval.Tree)"
rulePropertyRef_text(scope,attr) ::= <<
<if(TREE_PARSER)>
input.TokenStream.ToString(
input.TreeAdaptor.GetTokenStartIndex(retval.Start),
input.TreeAdaptor.GetTokenStopIndex(retval.Start))
<else>
input.ToString((IToken)retval.Start,input.LT(-1))
<endif>
>>
rulePropertyRef_st(scope,attr) ::= "retval.ST"

lexerRulePropertyRef_text(scope,attr) ::= "Text"
lexerRulePropertyRef_type(scope,attr) ::= "_type"
lexerRulePropertyRef_line(scope,attr) ::= "state.tokenStartLine"
lexerRulePropertyRef_pos(scope,attr) ::= "state.tokenStartCharPositionInLine"
lexerRulePropertyRef_index(scope,attr) ::= "-1" // undefined token index in lexer
lexerRulePropertyRef_channel(scope,attr) ::= "_channel"
lexerRulePropertyRef_start(scope,attr) ::= "state.tokenStartCharIndex"
lexerRulePropertyRef_stop(scope,attr) ::= "(CharIndex-1)"
lexerRulePropertyRef_int(scope,attr) ::= "int.Parse(<scope>.Text)"

// setting $st and $tree is allowed in local rule. everything else
// is flagged as error
ruleSetPropertyRef_tree(scope,attr,expr) ::= "retval.Tree = <expr>;"
ruleSetPropertyRef_st(scope,attr,expr) ::= "retval.ST = <expr>;"

/** How to execute an action (only when not backtracking) */

```

```

execAction(action) ::= <<
<if(backtracking)>
if (<actions.(actionScope).synpredgate>)
{
<action>
}
<else>
<action>
<endif>
>>

```

```

/** How to always execute an action even when backtracking */
execForcedAction(action) ::= "<action>"

```

```

// M I S C (properties, etc...)

```

```

bitset(name, words64) ::= <<
public static readonly BitSet <name> = new BitSet(new ulong[] { <words64: { <it>UL }; separator="," > }); <\n>
>>

```

```

codeFileExtension() ::= ".cs"

```

```

true() ::= "true"

```

```

false() ::= "false"

```

```

Found in path(s):

```

```

* /opt/cola/permits/1204005060_1631853129.56/0/antlr-3-1-3-sources-4-
jar/org/antlr/codegen/templates/CSharp2/CSharp2.stg

```

```

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```

```

/*

```

```

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\* /opt/cola/permits/1204005060\_1631853129.56/0/antlr-3-1-3-sources-4-jar/org/antlr/codegen/templates/ObjC/Dbg.stg

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\*/

/\*\* Template subgroup to add template rewrite output

\* If debugging, then you'll also get STDbg.stg loaded.

\*/

```

group ST;

@outputFile.imports() ::= <<
<@super.imports()>
using Antlr.StringTemplate;
using Antlr.StringTemplate.Language;
<if(!backtracking)>
using Hashtable = System.Collections.Hashtable;
<endif>

>>

/** Add this to each rule's return value struct */
@returnScope.ruleReturnMembers() ::= <<
private StringTemplate st;
public StringTemplate ST { get { return st; } set { st = value; } }
public override object Template { get { return st; } }
public override string ToString() { return (st == null) ? null : st.ToString(); }
>>

@genericParser.members() ::= <<
<@super.members()>
protected StringTemplateGroup templateLib =
 new StringTemplateGroup("<name>Templates", typeof(AngleBracketTemplateLexer));

public StringTemplateGroup TemplateLib
{
 get { return this.templateLib; }
 set { this.templateLib = value; }
}

/// \<summary> Allows convenient multi-value initialization:
/// "new STAttrMap().Add(...).Add(...)"
/// \</summary>
protected class STAttrMap : Hashtable
{
 public STAttrMap Add(string attrName, object value)
 {
 base.Add(attrName, value);
 return this;
 }
 public STAttrMap Add(string attrName, int value)
 {
 base.Add(attrName, value);
 return this;
 }
}
>>

```



```

/** x+=rule when output=template */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>
<listLabel(elem=label+".Template",...)>
>>

```

```

rewriteTemplate(alts) ::= <<

```

```

// TEMPLATE REWRITE
<if(backtracking)>
if (<actions.(actionScope).synpredgate>)
{
<alts:rewriteTemplateAlt(); separator="else ">
<if(rewriteMode)><replaceTextInLine()><endif>
}
<else>
<alts:rewriteTemplateAlt(); separator="else ">
<if(rewriteMode)><replaceTextInLine()><endif>
<endif>
>>

```

```

replaceTextInLine() ::= <<
<if(TREE_PARSER)>
((TokenRewriteStream)input.TokenStream).Replace(
input.TreeAdaptor.GetTokenStartIndex(retval.Start),
input.TreeAdaptor.GetTokenStopIndex(retval.Start),
retval.ST);
<else>
((TokenRewriteStream)input).Replace(
((IToken)retval.Start).TokenIndex,
input.LT(-1).TokenIndex,
retval.ST);
<endif>
>>

```

```

rewriteTemplateAlt() ::= <<
// <it.description>
<if(it.pred)>
if (<it.pred>) {
retval.ST = <it.alt>;
}<\n>
<else>
{
retval.ST = <it.alt>;
}<\n>
<endif>
>>

```

```

rewriteEmptyTemplate(alts) ::= <<
null;
>>

/** Invoke a template with a set of attribute name/value pairs.
 * Set the value of the rule's template after having set
 * the attributes because the rule's template might be used as
 * an attribute to build a bigger template; you get a self-embedded
 * template.
 */
rewriteExternalTemplate(name,args) ::= <<
templateLib.GetInstanceOf("<name><if(args)>",
new STAttrMap(<args:{a | .Add("<a.name>", <a.value>)}>
<endif>)
>>

/** expr is a string expression that says what template to load */
rewriteIndirectTemplate(expr,args) ::= <<
templateLib.GetInstanceOf(<expr><if(args)>",
new STAttrMap(<args:{a | .Add("<a.name>", <a.value>)}>
<endif>)
>>

/** Invoke an inline template with a set of attribute name/value pairs */
rewriteInlineTemplate(args, template) ::= <<
new StringTemplate(templateLib, "<template><if(args)>",
new STAttrMap(<args:{a | .Add("<a.name>", <a.value>)}>
<endif>)
>>

/** plain -> {foo} action */
rewriteAction(action) ::= <<
<action>
>>

/** An action has %st.attrName=expr; or % {st}.attrName=expr; */
actionSetAttribute(st,attrName,expr) ::= <<
(<st>).SetAttribute("<attrName>",<expr>);
>>

/** Translate % {stringExpr} */
actionStringConstructor(stringExpr) ::= <<
new StringTemplate(templateLib,<stringExpr>)
>>

Found in path(s):
* /opt/cola/permits/1204005060_1631853129.56/0/antlr-3-1-3-sources-4-

```

jar/org/antlr/codegen/templates/CSharp2/ST.stg  
\* /opt/cola/permits/1204005060\_1631853129.56/0/antlr-3-1-3-sources-4-  
jar/org/antlr/codegen/templates/CSharp/ST.stg  
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```
* /opt/cola/permits/1204005060_1631853129.56/0/antlr-3-1-3-sources-4-
jar/org/antlr/codegen/templates/Java/ASTParser.stg
* /opt/cola/permits/1204005060_1631853129.56/0/antlr-3-1-3-sources-4-jar/org/antlr/tool/serialize.g
* /opt/cola/permits/1204005060_1631853129.56/0/antlr-3-1-3-sources-4-
jar/org/antlr/codegen/templates/Python/AST.stg
* /opt/cola/permits/1204005060_1631853129.56/0/antlr-3-1-3-sources-4-
jar/org/antlr/codegen/templates/Python/ST.stg
* /opt/cola/permits/1204005060_1631853129.56/0/antlr-3-1-3-sources-4-
jar/org/antlr/codegen/templates/ActionScript/ASTParser.stg
* /opt/cola/permits/1204005060_1631853129.56/0/antlr-3-1-3-sources-4-
jar/org/antlr/codegen/templates/Python/ASTDbg.stg
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\*/

/\*

New style messages. This file contains the actual layout of the messages emitted by ANTLR.

The text itself is coming out of the languages/\*stg files, according to the chosen locale.

This file contains the default format ANTLR uses.

\*/

group antlr;

location(file, line, column) ::= "<file>(<line>,<column>)"

message(id, text) ::= "error <id> : <text>"

report(location, message, type) ::= "<location> : <type> <message.id> : <message.text>"

wantsSingleLineMessage() ::= "true"

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\* /opt/cola/permits/1204005060\_1631853129.56/0/antlr-3-1-3-sources-4-jar/org/antlr/tool/templates/messages/formats/vs2005.stg

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\*/

/\*\* Template overrides to add debugging to normal Java output;

```

* If ASTs are built, then you'll also get ASTDbg.stg loaded.
*/
group Dbg;

@outputFile.debugPreprocessor() ::= "#define ANTLR_DEBUG"

@outputFile.imports() ::= <<
<@super.imports()>
using Antlr.Runtime.Debug;
using IOException = System.IO.IOException;
>>

@genericParser.members() ::= <<
<if(grammar.grammarIsRoot)>
public static readonly string[] ruleNames = new string[] {
 "invalidRule", <grammar.allImportedRules:{rST | "<rST.name>"}; wrap="\n ", separator=", ">
};<\n>
<endif>
<if(grammar.grammarIsRoot)> <! grammar imports other grammar(s) !>
 private int ruleLevel = 0;
 public int RuleLevel {
 get { return ruleLevel; }
 }
 public void IncRuleLevel() { ruleLevel++; }
 public void DecRuleLevel() { ruleLevel--; }
<if(profile)>
 <ctorForProfilingRootGrammar()>
<else>
 <ctorForRootGrammar()>
<endif>
<ctorForPredefinedListener()>
<else> <! imported grammar !>
 public int RuleLevel {
 get { return <grammar.delegators:{g| <g:delegateName()>>}.RuleLevel; }
 }
 public void IncRuleLevel() { <grammar.delegators:{g| <g:delegateName()>>}.IncRuleLevel(); }
 public void DecRuleLevel() { <grammar.delegators:{g| <g:delegateName()>>}.DecRuleLevel(); }
 <ctorForDelegateGrammar()>
<endif>
<if(profile)>
override public bool AlreadyParsedRule(IIntStream input, int ruleIndex)
{
 ((Profiler)dbg).ExamineRuleMemoization(input, ruleIndex,
<grammar.composite.rootGrammar.recognizerName>.ruleNames[ruleIndex]);
 return base.AlreadyParsedRule(input, ruleIndex);
}<\n>
override public void Memoize(IIntStream input,
 int ruleIndex,

```

```

 int ruleStartIndex)
 {
 ((Profiler)dbg).Memoize(input, ruleIndex, ruleStartIndex,
<grammar.composite.rootGrammar.recognizerName>.ruleNames[ruleIndex]);
 base.Memoize(input, ruleIndex, ruleStartIndex);
 }<\n>
<endif>
protected bool EvalPredicate(bool result, string predicate)
{
 dbg.SemanticPredicate(result, predicate);
 return result;
}<\n>
>>

ctorForRootGrammar() ::= <<
<! bug: can't use <@super.members()> cut-n-paste instead !>
<! Same except we add port number and profile stuff if root grammar !>
public <name>(<inputStreamType> input)
 : this(input, DebugEventSocketProxy.DEFAULT_DEBUGGER_PORT, new RecognizerSharedState()) {
}

public <name>(<inputStreamType> input, int port, RecognizerSharedState state)
 : base(input, state) {
 <parserCtorBody()>
 <createListenerAndHandshake()>
 <grammar.directDelegates: {g|<g:delegateName()> = new <g.recognizerName>(input, dbg, this.state,
this<grammar.delegates: {g|, <g:delegateName()>}>);}; separator="\n">
 <@finally()>
}<\n>
>>

@parserCtorBody.initializeCyclicDFAs() ::= <<
InitializeCyclicDFAs(dbg);
>>

ctorForProfilingRootGrammar() ::= <<
<! bug: can't use <@super.members()> cut-n-paste instead !>
public <name>(<inputStreamType> input) {
 this(input, new Profiler(null), new RecognizerSharedState());
}

public <name>(<inputStreamType> input, IDebugEventListener dbg, RecognizerSharedState state)
 : base(input, dbg, state) {
 Profiler p = (Profiler)dbg;
 p.setParser(this);
 <parserCtorBody()>
 <grammar.directDelegates:
 {g|<g:delegateName()> = new <g.recognizerName>(input, dbg, this.state, this<grammar.delegates: {g|,

```

```

<g:delegateName(>}>}); separator="\n">
 <@finally(>
}
<\n>
>>

/** Basically we don't want to set any dbg listeners are root will have it. */
ctorForDelegateGrammar() ::= <<
public <name>(<inputStreamType> input, IDebugEventListener dbg, RecognizerSharedState
state<grammar.delegators:{g|, <g.recognizerName> <g:delegateName(>}>})
: base(input, dbg, state) {
 <parserCtorBody(>
 <grammar.directDelegates:
 {g|<g:delegateName(>= new <g.recognizerName>(input, this, this.state<grammar.delegators:{g|,
<g:delegateName(>}>}); separator="\n">
}<\n>
>>

ctorForPredefinedListener() ::= <<
public <name>(<inputStreamType> input, IDebugEventListener dbg)
: <@superClassRef>base(input, dbg, new RecognizerSharedState())<@end> {
<if(profile)>
 Profiler p = (Profiler)dbg;
 p.setParser(this);
<endif>
 <parserCtorBody(>
 <grammar.directDelegates:{g|<g:delegateName(>= new <g.recognizerName>(input, dbg, this.state,
this<grammar.delegators:{g|, <g:delegateName(>}>}); separator="\n">
 <@finally(>
}<\n>
>>

createListenerAndHandshake() ::= <<
<if(TREE_PARSER)>
DebugEventSocketProxy proxy = new DebugEventSocketProxy(this, port, input.TreeAdaptor);
<else>
DebugEventSocketProxy proxy = new DebugEventSocketProxy(this, port, null);
<endif>
DebugListener = proxy;
try
{
 proxy.Handshake();
}
catch (IOException ioe)
{
 ReportError(ioe);
}

```



```

>>

@genericParser.superClassName() ::= "Debug<@super.superClassName()>"

@rule.preamble() ::= <<
try {
 dbg.EnterRule(GrammarFileName, "<ruleName>");
 if (RuleLevel==0) {dbg.Commence();}
 IncRuleLevel();
 dbg.Location(<ruleDescriptor.tree.line>, <ruleDescriptor.tree.column>);<\n>
}>>

@lexer.debugInitializeCyclicDFAs() ::= "IDebugEventListener dbg"

@lexer.debugAddition() ::= ", dbg"

@genericParser.debugInitializeCyclicDFAs() ::= "IDebugEventListener dbg"

@genericParser.debugAddition() ::= ", dbg"

@rule.postamble() ::= <<
dbg.Location(<ruleDescriptor.EORNode.line>, <ruleDescriptor.EORNode.column>);<\n>
}
finally {
 dbg.ExitRule(GrammarFileName, "<ruleName>");
 DecRuleLevel();
 if (RuleLevel==0) {dbg.Terminate();}
}<\n>
}>>

@synpred.start() ::= "dbg.BeginBacktrack(state.backtracking);"

@synpred.stop() ::= "dbg.EndBacktrack(state.backtracking, success);"

// Common debug event triggers used by region overrides below

enterSubRule() ::=
 "try { dbg.EnterSubRule(<decisionNumber>);<\n>"

exitSubRule() ::=
 "} finally { dbg.ExitSubRule(<decisionNumber>); }<\n>"

enterDecision() ::=
 "try { dbg.EnterDecision(<decisionNumber>);<\n>"

exitDecision() ::=
 "} finally { dbg.ExitDecision(<decisionNumber>); }<\n>"

```

```

enterAlt(n) ::= "dbg.EnterAlt(<n>);<\n>"

// Region overrides that tell various constructs to add debugging triggers

@block.predecision() ::= "<enterSubRule()><enterDecision()>"

@block.postdecision() ::= "<exitDecision()>"

@block.postbranch() ::= "<exitSubRule()>"

@ruleBlock.predecision() ::= "<enterDecision()>"

@ruleBlock.postdecision() ::= "<exitDecision()>"

@ruleBlockSingleAlt.prealt() ::= "<enterAlt(n=\"1\")>"

@blockSingleAlt.prealt() ::= "<enterAlt(n=\"1\")>"

@positiveClosureBlock.preloop() ::= "<enterSubRule()>"

@positiveClosureBlock.postloop() ::= "<exitSubRule()>"

@positiveClosureBlock.predecision() ::= "<enterDecision()>"

@positiveClosureBlock.postdecision() ::= "<exitDecision()>"

@positiveClosureBlock.earlyExitException() ::=
 "dbg.RecognitionException(eee<decisionNumber>);<\n>"

@closureBlock.preloop() ::= "<enterSubRule()>"

@closureBlock.postloop() ::= "<exitSubRule()>"

@closureBlock.predecision() ::= "<enterDecision()>"

@closureBlock.postdecision() ::= "<exitDecision()>"

@altSwitchCase.prealt() ::= "<enterAlt(n=i)>"

@element.prematch() ::=
 "dbg.Location(<it.line>,<it.pos>);"

@matchSet.mismatchedSetException() ::=
 "dbg.RecognitionException(mse);"

@dfaState.noViableAltException() ::= "dbg.RecognitionException(nvae_d<decisionNumber>s<stateNumber>);"

@dfaStateSwitch.noViableAltException() ::=

```

```
"dbg.RecognitionException(nvae_d<decisionNumber>s<stateNumber>);"
```

```
dfaDecision(decisionNumber,description) ::= <<
try
{
 isCyclicDecision = true;
 <super.dfaDecision(...)>
}
catch (NoViableAltException nvae)
{
 dbg.RecognitionException(nvae);
 throw nvae;
}
>>
```

```
@cyclicDFA.dbgCtor() ::= <<
 public DFA<dfa.decisionNumber>(BaseRecognizer recognizer, IDebugEventListener dbg) : this(recognizer)
 {
 this.dbg = dbg;
 }
>>
```

```
@cyclicDFA.debugMember() ::= <<
IDebugEventListener dbg;

>>
```

```
@cyclicDFA.errorMethod() ::= <<
public override void Error(NoViableAltException nvae)
{
 dbg.RecognitionException(nvae);
}
>>
```

```
/** Force predicate validation to trigger an event */
evalPredicate(pred,description) ::= <<
EvalPredicate(<pred>,"<description>")
>>
```

Found in path(s):

```
* /opt/cola/permits/1204005060_1631853129.56/0/antlr-3-1-3-sources-4-
jar/org/antlr/codegen/templates/CSharp/Dbg.stg
```

No license file was found, but licenses were detected in source scan.

```
/*
* [The "BSD licence"]
* Copyright (c) 2005-2008 Terence Parr
* All rights reserved.
```

```

*
* Conversion to C#:
* Copyright (c) 2008-2009 Sam Harwell, Pixel Mine, Inc.
* All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
* notice, this list of conditions and the following disclaimer.
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* OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
* IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
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* DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
* THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
* (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
* THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/

```

```

group CSharp3 implements ANTLRCore;

```

```

csharpVisibilityMap ::= [
 "private":"private",
 "protected":"protected",
 "public":"public",
 "fragment":"private",
 default:"private"
]

```

```

/** The overall file structure of a recognizer; stores methods for rules
* and cyclic DFAs plus support code.
*/

```

```

outputFile(LEXER,PARSER,TREE_PARSER, actionScope, actions,
 docComment, recognizer,
 name, tokens, tokenNames, rules, cyclicDFAs,
 bitsets, buildTemplate, buildAST, rewriteMode, profile,
 backtracking, synpreds, memoize, numRules,
 fileName, ANTLRVersion, generatedTimestamp, trace,
 scopes, superClass, literals) ::=

```

```

<<

```

```

// $ANTLR <ANTLRVersion> <fileName> <generatedTimestamp>

// The variable 'variable' is assigned but its value is never used.
#pragma warning disable 219
// Unreachable code detected.
#pragma warning disable 162

<actions.(actionScope).header>

<@imports>
using System.Collections.Generic;
using Antlr.Runtime;
<if(TREE_PARSER)>
using Antlr.Runtime.Tree;
using RewriteRuleITokenStream = Antlr.Runtime.Tree.RewriteRuleTokenStream;
<endif>
using Stack = System.Collections.Generic.Stack<object>;
using List = System.Collections.IList;
using ArrayList = System.Collections.Generic.List<object>;
<if(backtracking)>
using Map = System.Collections.IDictionary;
using HashMap = System.Collections.Generic.Dictionary<object, object>;
<endif>
<@end>

<if(actions.(actionScope).namespace)>
namespace <actions.(actionScope).namespace>
{
<endif>

<docComment>
<recognizer>
<if(actions.(actionScope).namespace)>

} // namespace <actions.(actionScope).namespace>

<endif>
>>

lexer(grammar, name, tokens, scopes, rules, numRules, labelType="IToken",
 filterMode, superClass="Lexer") ::= <<
public partial class <grammar.recognizerName> : <@superClassName><superClass><@end>
{
<tokens:{ public const int <it.name>=<it.type>;}; separator="\n">
<scopes:{ <if(it.isDynamicGlobalScope)><globalAttributeScope(scope=it)><endif>}>
<actions.lexer.members>

// delegates

```

```

<grammar.delegates:
 {g|public <g.recognizerName> <g.delegateName(>);}; separator="\n">
// delegators
<grammar.delegators:
 {g|public <g.recognizerName> <g.delegateName(>);}; separator="\n">
<last(grammar.delegators):{g|public <g.recognizerName> gParent;}>

public <grammar.recognizerName>() {}<! needed by subclasses !>
public <grammar.recognizerName>(ICharStream input<grammar.delegates:{g|, <g.recognizerName>
<g.delegateName(>}>>)
: this(input, new RecognizerSharedState(<grammar.delegates:{g|, <g.delegateName(>}>>)
{
}
public <grammar.recognizerName>(ICharStream input, RecognizerSharedState state<grammar.delegates:{g|,
<g.recognizerName> <g.delegateName(>}>>)
: base(input, state)
{
<if(memoize)>
<if(grammar.grammarIsRoot)>
 state.ruleMemo = new System.Collections.Generic.Dictionary<int, int>[<numRules>+1];<\n><! index from 1..n !>
<endif>
<endif>
 <grammar.directDelegates:
 {g|<g.delegateName(> = new <g.recognizerName>(input, state<trunc(g.delegates):{p|, <p.delegateName(>}>},
this);}; separator="\n">
 <grammar.delegators:
 {g|this.<g.delegateName(> = <g.delegateName(>);}; separator="\n">
 <last(grammar.delegators):{g|gParent = <g.delegateName(>};}>
}
public override string GrammarFileName { get { return "<fileName>"; } }

<if(filterMode)>
<filteringNextToken(>
<endif>
<rules; separator="\n\n">

<synpreds:{p | <lexerSynpred(p)>}>

#region DFA
<cyclicDFAs:{dfa | DFA<dfa.decisionNumber> dfa<dfa.decisionNumber>}; separator="\n">

protected override void InitDFAs()
{
 base.InitDFAs();
 <cyclicDFAs:{dfa | dfa<dfa.decisionNumber> = new DFA<dfa.decisionNumber>(this<if(dfa.specialStateSTs)>,
new SpecialStateTransitionHandler(specialStateTransition<dfa.decisionNumber>)<endif>);}; separator="\n">
}

```

```

<cyclicDFAs:cyclicDFA(>> <! dump tables for all DFA !>
#endregion

}
>>

/** A override of Lexer.nextToken() that backtracks over mTokens() looking
 * for matches. No error can be generated upon error; just rewind, consume
 * a token and then try again. backtracking needs to be set as well.
 * Make rule memoization happen only at levels above 1 as we start mTokens
 * at backtracking==1.
 */
filteringNextToken() ::= <<
public override IToken NextToken()
{
for (; ;)
{
if (input.LA(1)==CharStreamConstants.EOF)
{
return TokenConstants.EOF_TOKEN;
}
state.token = null;
state.channel = TokenConstants.DEFAULT_CHANNEL;
state.tokenStartCharIndex = input.Index;
state.tokenStartCharPositionInLine = input.CharPositionInLine;
state.tokenStartLine = input.Line;
state.text = null;
try
{
int m = input.Mark();
state.backtracking=1;<! means we won't throw slow exception !>
state.failed=false;
mTokens();
state.backtracking=0;
<! mTokens backtracks with synpred at backtracking==2
and we set the synpredgate to allow actions at level 1. !>
if (state.failed)
{
input.Rewind(m);
input.Consume(); <! advance one char and try again !>
}
else
{
Emit();
return state.token;
}
}
}
catch (RecognitionException re)

```

```

{
// shouldn't happen in backtracking mode, but...
ReportError(re);
Recover(re);
}
}
}

public override void Memoize(IIntStream input, int ruleIndex, int ruleStartIndex)
{
if (state.backtracking > 1)
base.Memoize(input, ruleIndex, ruleStartIndex);
}

public override bool AlreadyParsedRule(IIntStream input, int ruleIndex)
{
if (state.backtracking > 1)
return base.AlreadyParsedRule(input, ruleIndex);

return false;
}
>>

actionGate() ::= "state.backtracking == 0"

filteringActionGate() ::= "state.backtracking==1"

/** How to generate a parser */
genericParser(grammar, name, scopes, tokens, tokenNames, rules, numRules,
bitsets, inputStreamType, superClass,
ASTLabelType="object", labelType, members, rewriteElementType,
filterMode) ::= <<
public partial class <grammar.recognizerName> : <@superClassName><superClass><@end>
{
<if(grammar.grammarIsRoot)>
public static readonly string[] tokenNames = new string[] {
"\<invalid>", "\<EOR>", "\<DOWN>", "\<UP>", <tokenNames; separator=", ">
};<\n>
<endif>
<tokens:{ public const int <it.name>=<it.type>;}; separator="\n">

// delegates
<grammar.delegates:
{ g|public <g.recognizerName> <g.delegateName()>;}; separator="\n">
// delegators
<grammar.delegators:
{ g|public <g.recognizerName> <g.delegateName()>;}; separator="\n">
<last(grammar.delegators):{ g|public <g.recognizerName> gParent;}>

```



```

<scopes:{<if(it.isDynamicGlobalScope)><globalAttributeScope(scope=it)><endif>>}>
<@members>
<! WARNING. bug in ST: this is cut-n-paste into Dbg.stg !>
public <grammar.recognizerName>(<inputStreamType> input<grammar.delegators:{g|, <g.recognizerName>
<g.delegateName()>}>)
: this(input, new RecognizerSharedState()<grammar.delegators:{g|, <g.delegateName()>}>)
{
}
public <grammar.recognizerName>(<inputStreamType> input, RecognizerSharedState
state<grammar.delegators:{g|, <g.recognizerName> <g.delegateName()>}>)
: base(input, state)
{
<parserCtorBody()>
<grammar.directDelegates:
{g|<g.delegateName()> = new <g.recognizerName>(input, state<trunc(g.delegators):{p|, <p.delegateName()>}>,
this);}; separator="\n">
<grammar.indirectDelegates:{g | <g.delegateName()> = <g.delegator.delegateName()>.<g.delegateName()>;};
separator="\n">
<last(grammar.delegators):{g|gParent = <g.delegateName()>;}>
}
<@end>

public override string[] GetTokenNames() { return
<grammar.composite.rootGrammar.recognizerName>.tokenNames; }
public override string GrammarFileName { get { return "<fileName>"; } }

<members>

#region Rules
<rules; separator="\n\n">
#endregion

<! generate rule/method definitions for imported rules so they
appear to be defined in this recognizer. !>
// Delegated rules
<grammar.delegatedRules:{ruleDescriptor|
public <returnType()> <ruleDescriptor.name>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>)
<!throws RecognitionException !>{ <if(ruleDescriptor.hasReturnValue)>return
<endif><ruleDescriptor.grammar:delegateName()>.<ruleDescriptor.name>(<ruleDescriptor.parameterScope.attribute:
es:{a|<a.name>}; separator=", ">); \} }; separator="\n">

#region Synpreds
<synpreds:{p | <synpred(p)>}>
#endregion

#region DFA
<cyclicDFAs:{dfa | DFA<dfa.decisionNumber> dfa<dfa.decisionNumber>;}; separator="\n">

```

```

protected override void InitDFAs()
{
 base.InitDFAs();
 <cyclicDFAs:{ dfa | dfa<dfa.decisionNumber> = new DFA<dfa.decisionNumber>(this<if(dfa.specialStateSTs)>,
new SpecialStateTransitionHandler(specialStateTransition<dfa.decisionNumber>)<endif>);}; separator="\n">
}

<cyclicDFAs:cyclicDFA()><! dump tables for all DFA !>
#endregion

#region Follow Sets
public static class Follow
{
 <bitsets:bitset(name={_<it.name>_in_<it.inName><it.tokenIndex>},
 words64=it.bits)>
}
#endregion
}
>>

parserCtorBody() ::= <<
<if(memoize)>
<if(grammar.grammarIsRoot)>
this.state.ruleMemo = new System.Collections.Generic.Dictionary<int,
int>[<length(grammar.allImportedRules)>+1];<\n><! index from 1..n !>
<endif>
<endif>
<grammar.delegators:
{g|this.<g:delegateName()> = <g:delegateName()>;}; separator="\n">
>>

parser(grammar, name, scopes, tokens, tokenNames, rules, numRules, bitsets,
 ASTLabelType="object", superClass="Parser", labelType="IToken",
 members={<actions.parser.members>}) ::= <<
<genericParser(inputStreamType="ITokenStream", rewriteElementType="IToken", ...)>
>>

/** How to generate a tree parser; same as parser except the input
 * stream is a different type.
 */
treeParser(grammar, name, scopes, tokens, tokenNames, globalAction, rules,
 numRules, bitsets, labelType={<ASTLabelType>}, ASTLabelType="object",
 superClass={<if(filterMode)><if(buildAST)>TreeRewriter<else>TreeFilter<endif><else>TreeParser<endif>},
 members={<actions.treeparser.members>},
 filterMode) ::= <<
<genericParser(inputStreamType="ITreeNodeStream", rewriteElementType="Node", ...)>
>>

```

```

/** A simpler version of a rule template that is specific to the imaginary
 * rules created for syntactic predicates. As they never have return values
 * nor parameters etc..., just give simplest possible method. Don't do
 * any of the normal memoization stuff in here either; it's a waste.
 * As predicates cannot be inlined into the invoking rule, they need to
 * be in a rule by themselves.
 */
synpredRule(ruleName, ruleDescriptor, block, description, nakedBlock) ::=
<<
// $ANTLR start <ruleName>
public <!final !>void <ruleName>_fragment(<ruleDescriptor.parameterScope:parameterScope(scope=it)>><! throws
RecognitionException!>
{
 <ruleLabelDefs()>
 <if(trace)>
 traceIn("<ruleName>_fragment", <ruleDescriptor.index>);
 try
 {
 <block>
 }
 finally
 {
 traceOut("<ruleName>_fragment", <ruleDescriptor.index>);
 }
 <else>
 <block>
 <endif>
}
// $ANTLR end <ruleName>
>>

synpred(name) ::= <<
public <!final !>bool <name>()
{
 state.backtracking++;
 <@start()>
 int start = input.Mark();
 try
 {
 <name>_fragment(); // can never throw exception
 }
 catch (RecognitionException re)
 {
 System.Console.Error.WriteLine("impossible: "+re);
 }
 bool success = !state.failed;
 input.Rewind(start);
}

```

```

<@stop(>
state.backtracking--;
state.failed=false;
return success;
}<\n>
>>

lexerSynpred(name) ::= <<
<synpred(name)>
>>

ruleMemoization(name) ::= <<
<if(memoize)>
if (state.backtracking>0 && AlreadyParsedRule(input, <ruleDescriptor.index>)) { return <ruleReturnValue(>; }
<endif>
>>

/** How to test for failure and return from rule */
checkRuleBacktrackFailure() ::= <<
<if(backtracking)>if (state.failed) return <ruleReturnValue(>;<endif>
>>

/** This rule has failed, exit indicating failure during backtrack */
ruleBacktrackFailure() ::= <<
<if(backtracking)>if (state.backtracking>0) { state.failed=true; return <ruleReturnValue(>;}<endif>
>>

/** How to generate code for a rule. This includes any return type
 * data aggregates required for multiple return values.
 */
rule(ruleName,ruleDescriptor,block,emptyRule,description,exceptions,finally,memoize) ::= <<
<ruleAttributeScope(scope=ruleDescriptor.ruleScope)>
<returnScope(scope=ruleDescriptor.returnScope)>

// $ANTLR start "<ruleName>"
// <fileName>:<description>
<csharpVisibilityMap.(ruleDescriptor.modifier)> <returnType(> <ruleName>(
<ruleDescriptor.parameterScope:parameterScope(scope=it)>)<! throws RecognitionException!>
{
<if(trace)>traceIn("<ruleName>", <ruleDescriptor.index>);<endif>
<ruleScopeSetUp(>
<ruleDeclarations(>
<ruleLabelDefs(>
<ruleDescriptor.actions.init>
<@preamble(>
try
{
<ruleMemoization(name=ruleName)>

```

```

<block>
 <ruleCleanup()>
 <(ruleDescriptor.actions.after):execAction()>
 }
<if(exceptions)>
 <exceptions: { e|<catch(decl=e.decl,action=e.action)><\n> }>
<else>
 <if(!emptyRule)>
 <if(actions.(actionScope).rulecatch)>
 <actions.(actionScope).rulecatch>
<else>
 catch (RecognitionException re)
 {
 ReportError(re);
 Recover(input,re);
 <@setErrorReturnValue()>
 }<\n>
<endif>
<endif>
<endif>
 finally
 {
 <if(trace)>traceOut("<ruleName>", <ruleDescriptor.index>);<endif>
 <memoize()>
 <ruleScopeCleanup()>
 <finally>
 }
 <@postamble()>
 return <ruleReturnValue()>;
}
// $ANTLR end "<ruleName>"
>>

catch(decl,action) ::= <<
catch (<e.decl>)
{
 <e.action>
}
>>

ruleDeclarations() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<returnType()> retval = new <returnType()>();
retval.start = input.LT(1);<\n>
<else>
<ruleDescriptor.returnScope.attributes: { a |
<a.type> <a.name> = <if(a.initValue)><a.initValue><else><initValue(a.type)><endif>;
}>

```

```

<endif>
<if(memoize)>
int <ruleDescriptor.name>_startIndex = input.Index;
<endif>
>>

ruleScopeSetUp() ::= <<
<ruleDescriptor.useScopes:{<it>_scope.PushScope(this);}; separator="\n">
<ruleDescriptor.ruleScope:{<it.name>_scope.PushScope(this);}; separator="\n">
>>

ruleScopeCleanUp() ::= <<
<ruleDescriptor.useScopes:{<it>_scope.PopScope(this);}; separator="\n">
<ruleDescriptor.ruleScope:{<it.name>_scope.PopScope(this);}; separator="\n">
>>

ruleLabelDefs() ::= <<
<[ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels,ruleDescriptor.wildcardTreeLabels,ruleDescriptor.wildcardTreeListLabels]
: {<labelType> <it.label.text>=null;}; separator="\n"
>
<[ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels,ruleDescriptor.wildcardTreeListLabels]
: {List list_<it.label.text>=null;}; separator="\n"
>
<ruleDescriptor.ruleLabels:ruleLabelDef(label=it); separator="\n">
<ruleDescriptor.ruleListLabels:ruleLabelDef(label=it); separator="\n">
>>

lexerRuleLabelDefs() ::= <<
<[ruleDescriptor.tokenLabels,
ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleLabels]
: {<labelType> <it.label.text>=null;}; separator="\n"
>
<ruleDescriptor.charLabels:{int <it.label.text>;}; separator="\n">
<[ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleListLabels]
: {List list_<it.label.text>=null;}; separator="\n"
>
>>

ruleReturnValue() ::= <<
<if(!ruleDescriptor.isSynPred)>
<if(ruleDescriptor.hasReturnValue)>
<if(ruleDescriptor.hasSingleReturnValue)>
<ruleDescriptor.singleValueReturnName>
<else>
retval

```

```

<endif>
<endif>
<endif>
>>

ruleCleanup() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<if(!TREE_PARSER)>
retval.stop = input.LT(-1);<\n>
<endif>
<endif>
>>

memoize() ::= <<
<if(memoize)>
<if(backtracking)>
if (state.backtracking>0) { Memoize(input, <ruleDescriptor.index>, <ruleDescriptor.name>_startIndex); }
<endif>
<endif>
>>

/** How to generate a rule in the lexer; naked blocks are used for
 * fragment rules.
 */
lexerRule(ruleName,nakedBlock,ruleDescriptor,block,memoize) ::= <<
// $ANTLR start "<ruleName>"
<csharpVisibilityMap.(ruleDescriptor.modifier)> void
m<ruleName>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>)
{
<if(trace)>traceIn("<ruleName>", <ruleDescriptor.index>);<endif>
<ruleScopeSetUp()>
<ruleDeclarations()>
try
{
<if(nakedBlock)>
<ruleMemoization(name=ruleName)>
<lexerRuleLabelDefs()>
<ruleDescriptor.actions.init>
<block><\n>
<else>
int _type = <ruleName>;
int _channel = DEFAULT_TOKEN_CHANNEL;
<ruleMemoization(name=ruleName)>
<lexerRuleLabelDefs()>
<ruleDescriptor.actions.init>
<block>
<ruleCleanup()>
state.type = _type;

```

```

state.channel = _channel;
<(ruleDescriptor.actions.after):execAction()>
<endif>
}
finally
{
<if(trace)>traceOut("<ruleName>", <ruleDescriptor.index>);<endif>
<ruleScopeCleanUp()>
<memoize()>
}
}
// $ANTLR end "<ruleName>"
>>

```

```

/** How to generate code for the implicitly-defined lexer grammar rule
 * that chooses between lexer rules.
 */

```

```

tokensRule(ruleName,nakedBlock,args,block,ruleDescriptor) ::= <<
public override void mTokens()<! throws RecognitionException!>
{
<block><\n>
}
>>

```

```

// S U B R U L E S

```

```

/** A (...) subrule with multiple alternatives */

```

```

block(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// <fileName>:<description>
int alt<decisionNumber>=<maxAlt>;
<decls>
<@predecision()>
<decision>
<@postdecision()>
<@prebranch()>
switch (alt<decisionNumber>)
{
<alts:altSwitchCase()>
}
<@postbranch()>
>>

```

```

/** A rule block with multiple alternatives */

```

```

ruleBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// <fileName>:<description>
int alt<decisionNumber>=<maxAlt>;
<decls>
<@predecision()>

```



```

<decision>
<@postdecision()>
switch (alt<decisionNumber>)
{
<alts:altSwitchCase()>
}
>>

ruleBlockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
// <fileName>:<description>
<decls>
<@prealt()>
<alts>
<@postalt()>
>>

/** A special case of a (...) subrule with a single alternative */
blockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
// <fileName>:<description>
<decls>
<@prealt()>
<alts>
<@postalt()>
>>

/** A (..)+ block with 1 or more alternatives */
positiveClosureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// <fileName>:<description>
int cnt<decisionNumber>=0;
<decls>
<@preloop()>
for (; ;)
{
int alt<decisionNumber>=<maxAlt>;
<@predecision()>
<decision>
<@postdecision()>
switch (alt<decisionNumber>)
{
<alts:altSwitchCase()>
default:
if (cnt<decisionNumber> >= 1)
goto loop<decisionNumber>;

<ruleBacktrackFailure()>
EarlyExitException eee<decisionNumber> = new EarlyExitException(<decisionNumber>, input);
<@earlyExitException()>

```

```

 throw eee<decisionNumber>;
 }
 cnt<decisionNumber>++;
}
loop<decisionNumber>:
;

<@postloop()>
>>

positiveClosureBlockSingleAlt ::= positiveClosureBlock

/** A (.)* block with 1 or more alternatives */
closureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::=
<<
// <fileName>:<description>
<decls>
<@preloop()>
for (; ;)
{
 int alt<decisionNumber>=<maxAlt>;
 <@predecision()>
 <decision>
 <@postdecision()>
 switch (alt<decisionNumber>)
 {
 <alts:altSwitchCase()>
 default:
 goto loop<decisionNumber>;
 }
}

loop<decisionNumber>:
;

<@postloop()>
>>

closureBlockSingleAlt ::= closureBlock

/** Optional blocks (x)? are translated to (x|) by before code generation
 * so we can just use the normal block template
 */
optionalBlock ::= block

optionalBlockSingleAlt ::= block

/** A case in a switch that jumps to an alternative given the alternative

```

```

* number. A DFA predicts the alternative and then a simple switch
* does the jump to the code that actually matches that alternative.
*/
altSwitchCase() ::= <<
case <i>:
 <@prealt(>
 <it>
 break;<\n>
>>

/** An alternative is just a list of elements; at outermost level */
alt(elements,altNum,description,autoAST,outerAlt,treeLevel,rew) ::= <<
// <fileName>:<description>
{
 <@declarations(>
 <elements:element(>
 <rew>
 <@cleanup(>
 }
>>

/** What to emit when there is no rewrite. For auto build
* mode, does nothing.
*/
noRewrite(rewriteBlockLevel, treeLevel) ::= ""

// E L E M E N T S

/** Dump the elements one per line */
element() ::= <<
<@prematch(>
<it.el><\n>
>>

/** match a token optionally with a label in front */
tokenRef(token,label,elementIndex,hetero) ::= <<
<if(label)><label>=<(<labelType>)<endif>Match(input,<token>,Follow._<token>_in_<ruleName><elementIndex>);
<checkRuleBacktrackFailure(>
>>

/** ids+=ID */
tokenRefAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRef(...)>
<listLabel(elem=label,...)>
>>

listLabel(label,elem) ::= <<
if (list_<label>==null) list_<label>=new ArrayList();

```

```

list_<label>.Add(<elem>);<\n>
>>

/** match a character */
charRef(char,label) ::= <<
<if(label)>
<label> = input.LA(1);<\n>
<endif>
Match(<char>); <checkRuleBacktrackFailure()>
>>

/** match a character range */
charRangeRef(a,b,label) ::= <<
<if(label)>
<label> = input.LA(1);<\n>
<endif>
MatchRange(<a>,); <checkRuleBacktrackFailure()>
>>

/** For now, sets are interval tests and must be tested inline */
matchSet(s,label,elementIndex,postmatchCode="") ::= <<
<if(label)>
<if(LEXER)>
<label>= input.LA(1);<\n>
<else>
<label>=(<labelType>)input.LT(1);<\n>
<endif>
<endif>
if (<s>)
{
input.Consume();
<postmatchCode>
<if(!LEXER)>
state.errorRecovery=false;
<endif>
<if(backtracking)>state.failed=false;<endif>
}
else
{
<ruleBacktrackFailure()>
MismatchedSetException mse = new MismatchedSetException(null,input);
<@mismatchedSetException()>
<if(LEXER)>
Recover(mse);
throw mse;
<else>
throw mse;
<!\ use following code to make it recover inline; remove throw mse;

```

```

recoverFromMismatchedSet(input,mse,Follow._set_in_<ruleName><elementIndex>);
!>
<endif>
}<\n>
>>

```

```

matchSetUnchecked(s,label,elementIndex,postmatchCode="") ::= <<
<if(label)>
<if(LEXER)>
<label>= input.LA(1);<\n>
<else>
<label>=(<labelType>)input.LT(1);<\n>
<endif>
<endif>
input.Consume();
<postmatchCode>
<if(!LEXER)>
state.errorRecovery=false;
<endif>
<if(backtracking)>state.failed=false;<endif>
>>

```

```

matchRuleBlockSet ::= matchSet

```

```

matchSetAndListLabel(s,label,elementIndex,postmatchCode) ::= <<
<matchSet(...)>
<listLabel(elem=label,...)>
>>

```

```

/** Match a string literal */
lexerStringRef(string,label) ::= <<
<if(label)>
int <label>Start = GetCharIndex();
Match(<string>); <checkRuleBacktrackFailure()>
<label> = new CommonToken(input, TokenConstants.INVALID_TOKEN_TYPE,
TokenConstants.DEFAULT_CHANNEL, <label>Start, GetCharIndex()-1);
<else>
Match(<string>); <checkRuleBacktrackFailure()><\n>
<endif>
>>

```

```

wildcard(label,elementIndex) ::= <<
<if(label)>
<label>=(<labelType>)input.LT(1);<\n>
<endif>
MatchAny(input); <checkRuleBacktrackFailure()>
>>

```

```

wildcardAndListLabel(label,elementIndex) ::= <<
<wildcard(...)>
<listLabel(elem=label,...)>
>>

/** Match . wildcard in lexer */
wildcardChar(label, elementIndex) ::= <<
<if(label)>
<label> = input.LA(1);<\n>
<endif>
MatchAny(); <checkRuleBacktrackFailure()>
>>

wildcardCharListLabel(label, elementIndex) ::= <<
<wildcardChar(...)>
<listLabel(elem=label,...)>
>>

/** Match a rule reference by invoking it possibly with arguments
 * and a return value or values. The 'rule' argument was the
 * target rule name, but now is type Rule, whose toString is
 * same: the rule name. Now though you can access full rule
 * descriptor stuff.
 */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
PushFollow(Follow._<rule.name>_in_<ruleName><elementIndex>);
<if(label)><label>=<endif><if(scope)><scope:delegateName()>.<endif><rule.name><(args; separator="," ">);<\n>
state._fsp--;
<checkRuleBacktrackFailure()>
>>

/** ids+=r */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>
<listLabel(elem=label,...)>
>>

/** A lexer rule reference.
 *
 * The 'rule' argument was the target rule name, but now
 * is type Rule, whose toString is same: the rule name.
 * Now though you can access full rule descriptor stuff.
 */
lexerRuleRef(rule,label,args,elementIndex,scope) ::= <<
<if(label)>
int <label>Start<elementIndex> = GetCharIndex();
<if(scope)><scope:delegateName()>.<endif>m<rule.name><(args; separator="," ">);
<checkRuleBacktrackFailure()>

```

```

<label> = new CommonToken(input, TokenConstants.INVALID_TOKEN_TYPE,
TokenConstants.DEFAULT_CHANNEL, <label>Start<elementIndex>, GetCharIndex()-1);
<else>
<if(scope)><scope.delegateName().<endif>m<rule.name>(<args; separator=", ">);
<checkRuleBacktrackFailure()>
<endif>
>>

/** i+=INT in lexer */
lexerRuleRefAndListLabel(rule,label,args,elementIndex,scope) ::= <<
<lexerRuleRef(...)>
<listLabel(elem=label,...)>
>>

/** EOF in the lexer */
lexerMatchEOF(label,elementIndex) ::= <<
<if(label)>
int <label>Start<elementIndex> = GetCharIndex();
Match(EOF); <checkRuleBacktrackFailure()>
<labelType> <label> = new CommonToken(input, EOF, TokenConstants.DEFAULT_CHANNEL,
<label>Start<elementIndex>, GetCharIndex()-1);
<else>
Match(EOF); <checkRuleBacktrackFailure()>
<endif>
>>

/** match ^(root children) in tree parser */
tree(root, actionsAfterRoot, children, nullableChildList,
enclosingTreeLevel, treeLevel) ::= <<
<root:element()>
<actionsAfterRoot:element()>
<if(nullableChildList)>
if (input.LA(1)==TokenConstants.DOWN)
{
Match(input, TokenConstants.DOWN, null); <checkRuleBacktrackFailure()>
<children:element()>
Match(input, TokenConstants.UP, null); <checkRuleBacktrackFailure()>
}
<else>
Match(input, TokenConstants.DOWN, null); <checkRuleBacktrackFailure()>
<children:element()>
Match(input, TokenConstants.UP, null); <checkRuleBacktrackFailure()>
<endif>
>>

/** Every predicate is used as a validating predicate (even when it is
* also hoisted into a prediction expression).
*/

```

```

validateSemanticPredicate(pred,description) ::= <<
if (!(<evalPredicate(...)>))
{
<ruleBacktrackFailure()>
throw new FailedPredicateException(input, "<ruleName>", "<description>");
}
>>

// F i x e d D F A (if-then-else)

dfaState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
int LA<decisionNumber>_<stateNumber> = input.LA(<k>);<\n>
<edges; separator="\nelse ">
else
{
<if(eotPredictsAlt)>
alt<decisionNumber>=<eotPredictsAlt>;
<else>
<ruleBacktrackFailure()>
NoViableAltException nvae = new NoViableAltException("<description>", <decisionNumber>, <stateNumber>,
input);<\n>
<@noViableAltException()>
throw nvae;<\n>
<endif>
}
>>

/** Same as a normal DFA state except that we don't examine lookahead
 * for the bypass alternative. It delays error detection but this
 * is faster, smaller, and more what people expect. For (X)? people
 * expect "if (LA(1)==X) match(X);" and that's it.
 */
dfaOptionalBlockState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
int LA<decisionNumber>_<stateNumber> = input.LA(<k>);<\n>
<edges; separator="\nelse ">
>>

/** A DFA state that is actually the loopback decision of a closure
 * loop. If end-of-token (EOT) predicts any of the targets then it
 * should act like a default clause (i.e., no error can be generated).
 * This is used only in the lexer so that for ('a')* on the end of a rule
 * anything other than 'a' predicts exiting.
 */
dfaLoopbackState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
int LA<decisionNumber>_<stateNumber> = input.LA(<k>);<\n>
<edges; separator="\nelse "><\n>
<if(eotPredictsAlt)>
<if(!edges)>

```



```

alt<decisionNumber>=<eotPredictsAlt>; <! if no edges, don't gen ELSE !>
<else>
else
{
alt<decisionNumber>=<eotPredictsAlt>;
}<\n>
<endif>
<endif>
>>

/** An accept state indicates a unique alternative has been predicted */
dfaAcceptState(alt) ::= "alt<decisionNumber>=<alt>";

/** A simple edge with an expression. If the expression is satisfied,
 * enter to the target state. To handle gated productions, we may
 * have to evaluate some predicates for this edge.
 */
dfaEdge(labelExpr, targetState, predicates) ::= <<
if ((<labelExpr> <if(predicates)>&& (<predicates>)<endif>)
{
<targetState>
}
>>

// F i x e d D F A (switch case)

/** A DFA state where a SWITCH may be generated. The code generator
 * decides if this is possible: CodeGenerator.canGenerateSwitch().
 */
dfaStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch (input.LA(<k>))
{
<edges; separator="\n">
default:
<if(eotPredictsAlt)>
alt<decisionNumber>=<eotPredictsAlt>;
break;<\n>
<else>
{
<ruleBacktrackFailure()>
NoViableAltException nvae = new NoViableAltException("<description>", <decisionNumber>, <stateNumber>,
input);<\n>
<@noViableAltException()>
throw nvae;
}<\n>
<endif>
}<\n>
>>

```

```

dfaOptionalBlockStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch (input.LA(<k>))
{
<edges; separator="\n">
}<\n>
>>

```

```

dfaLoopbackStateSwitch(k, edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch (input.LA(<k>))
{
<edges; separator="\n"><\n>
<if(eotPredictsAlt)>
default:
alt<decisionNumber>=<eotPredictsAlt>;
break;<\n>
<endif>
}<\n>
>>

```

```

dfaEdgeSwitch(labels, targetState) ::= <<
<labels:{ case <it>:}; separator="\n">
{
<targetState>
}
break;
>>

```

```
// C y c l i c D F A
```

```

/** The code to initiate execution of a cyclic DFA; this is used
 * in the rule to predict an alt just like the fixed DFA case.
 * The <name> attribute is inherited via the parser, lexer, ...
 */

```

```

dfaDecision(decisionNumber,description) ::= <<
alt<decisionNumber> = dfa<decisionNumber>.Predict(input);
>>

```

```

/* Dump DFA tables as run-length-encoded Strings of octal values.
 * Can't use hex as compiler translates them before compilation.
 * These strings are split into multiple, concatenated strings.
 * Java puts them back together at compile time thankfully.
 * Java cannot handle large static arrays, so we're stuck with this
 * encode/decode approach. See analysis and runtime DFA for
 * the encoding methods.
 */

```

```

cyclicDFA(dfa) ::= <<
class DFA<dfa.decisionNumber> : DFA

```

```

{

const string DFA<dfa.decisionNumber>_eotS =
"<dfa.javaCompressedEOT; wrap="\n\t\t">";
const string DFA<dfa.decisionNumber>_eofS =
"<dfa.javaCompressedEOF; wrap="\n\t\t">";
const string DFA<dfa.decisionNumber>_minS =
"<dfa.javaCompressedMin; wrap="\n\t\t">";
const string DFA<dfa.decisionNumber>_maxS =
"<dfa.javaCompressedMax; wrap="\n\t\t">";
const string DFA<dfa.decisionNumber>_acceptS =
"<dfa.javaCompressedAccept; wrap="\n\t\t">";
const string DFA<dfa.decisionNumber>_specialS =
"<dfa.javaCompressedSpecial; wrap="\n\t\t">>";
static readonly string[] DFA<dfa.decisionNumber>_transitionS =
{
<dfa.javaCompressedTransition:{s|<s; wrap="\n">}; separator=",\n">
};

static readonly short[] DFA<dfa.decisionNumber>_eot =
DFA.UnpackEncodedString(DFA<dfa.decisionNumber>_eotS);
static readonly short[] DFA<dfa.decisionNumber>_eof =
DFA.UnpackEncodedString(DFA<dfa.decisionNumber>_eofS);
static readonly char[] DFA<dfa.decisionNumber>_min =
DFA.UnpackEncodedStringToUnsignedChars(DFA<dfa.decisionNumber>_minS);
static readonly char[] DFA<dfa.decisionNumber>_max =
DFA.UnpackEncodedStringToUnsignedChars(DFA<dfa.decisionNumber>_maxS);
static readonly short[] DFA<dfa.decisionNumber>_accept =
DFA.UnpackEncodedString(DFA<dfa.decisionNumber>_acceptS);
static readonly short[] DFA<dfa.decisionNumber>_special =
DFA.UnpackEncodedString(DFA<dfa.decisionNumber>_specialS);
static readonly short[][] DFA<dfa.decisionNumber>_transition;

static DFA<dfa.decisionNumber>()
{
int numStates = DFA<dfa.decisionNumber>_transitionS.Length;
DFA<dfa.decisionNumber>_transition = new short[numStates][];
for (int i=0; i < numStates; i++)
{
DFA<dfa.decisionNumber>_transition[i] =
DFA.UnpackEncodedString(DFA<dfa.decisionNumber>_transitionS[i]);
}
}

public DFA<dfa.decisionNumber>(BaseRecognizer recognizer<if(dfa.specialStateSTs)>,
SpecialStateTransitionHandler specialStateTransition<endif>)
<if(dfa.specialStateSTs)>
: base(specialStateTransition)

```

```

<endif>
{
 this.recognizer = recognizer;
 this.decisionNumber = <dfa.decisionNumber>;
 this.eot = DFA<dfa.decisionNumber>_eot;
 this.eof = DFA<dfa.decisionNumber>_eof;
 this.min = DFA<dfa.decisionNumber>_min;
 this.max = DFA<dfa.decisionNumber>_max;
 this.accept = DFA<dfa.decisionNumber>_accept;
 this.special = DFA<dfa.decisionNumber>_special;
 this.transition = DFA<dfa.decisionNumber>_transition;
}
public override string GetDescription()
{
 return "<dfa.description>";
}
<@errorMethod()>
}<\n>
<if(dfa.specialStateSTs)>
int specialStateTransition<dfa.decisionNumber>(DFA dfa, int s, IIntStream _input)<! throws
NoViableAltException!>
{
 <if(LEXER)>
 IIntStream input = _input;
 <endif>
 <if(PARSER)>
 ITokenStream input = (ITokenStream)_input;
 <endif>
 <if(TREE_PARSER)>
 ITreeNodeStream input = (ITreeNodeStream)_input;
 <endif>
 int _s = s;
 switch (s)
 {
 <dfa.specialStateSTs:{state |
case <i0>:<! compressed special state numbers 0..n-1 !>
 <state>}; separator="\n">
 }
 <if(backtracking)>
 if (state.backtracking>0) {state.failed=true; return -1;}<\n>
 <endif>
 NoViableAltException nvae = new NoViableAltException(dfa.GetDescription(), <dfa.decisionNumber>, _s, input);
 dfa.Error(nvae);
 throw nvae;
}<\n>
<endif>
>>

```

```

/** A state in a cyclic DFA; it's a special state and part of a big switch on
 * state.
 */
cyclicDFAState(decisionNumber,stateNumber,edges,needErrorClause,semPredState) ::= <<
int LA<decisionNumber>_<stateNumber> = input.LA(1);<\n>
<if(semPredState)><<! get next lookahead symbol to test edges, then rewind !>
int index<decisionNumber>_<stateNumber> = input.Index;
input.Rewind();<\n>
<endif>
s = -1;
<edges; separator="\nelse ">
<if(semPredState)><<! return input cursor to state before we rewound !>
input.Seek(index<decisionNumber>_<stateNumber>);<\n>
<endif>
if (s>=0) return s;
break;
>>

/** Just like a fixed DFA edge, test the lookahead and indicate what
 * state to jump to next if successful.
 */
cyclicDFAEdge(labelExpr, targetStateNumber, edgeNumber, predicates) ::= <<
if ((<labelExpr> <if(predicates)>&& (<predicates>)<endif>) { s = <targetStateNumber>;}<\n>
>>

/** An edge pointing at end-of-token; essentially matches any char;
 * always jump to the target.
 */
eotDFAEdge(targetStateNumber,edgeNumber, predicates) ::= <<
s = <targetStateNumber>;<\n>
>>

// D F A E X P R E S S I O N S

andPredicates(left,right) ::= "<left>&&<right>"

orPredicates(operands) ::= "<first(operands)><rest(operands):{ o | ||<o> }>"

notPredicate(pred) ::= "!(<evalPredicate(...)>)"

evalPredicate(pred,description) ::= "<pred>"

evalSynPredicate(pred,description) ::= "<pred>()"

lookaheadTest(atom,k,atomAsInt) ::= "LA<decisionNumber>_<stateNumber>===<atom>"

/** Sometimes a lookahead test cannot assume that LA(k) is in a temp variable

```

```

* somewhere. Must ask for the lookahead directly.
*/
isolatedLookaheadTest(atom,k,atomAsInt) ::= "input.LA(<k>)==<atom>"

lookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= <<
(LA<decisionNumber>_<stateNumber>)\>=<lower> && LA<decisionNumber>_<stateNumber>\<=<upper>)
>>

isolatedLookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= "(input.LA(<k>)\>=<lower>
&& input.LA(<k>)\<=<upper>)"

setTest(ranges) ::= "<ranges; separator=\\\"\\\">"

// A T T R I B U T E S

attributeScope(scope) ::= <<
<if(scope.attributes)>
protected class <scope.name>_scope
{
<if(scope.actions.scopeinit)>
public <scope.name>_scope()
{
<scope.actions.scopeinit>
}<\n>
<endif>
<if(scope.actions.scopeafter)>
void CleanUpScope()
{
<scope.actions.scopeafter>
}<\n>
<endif>
public static void PushScope(<scope.grammar.recognizerName> grammar)
{
grammar.<scope.name>_stack.Push(new <scope.name>_scope());
}
public static void PopScope(<scope.grammar.recognizerName> grammar)
{
grammar.<scope.name>_stack.Pop()<if(scope.actions.scopeafter)>.CleanUpScope()<endif>;
}

<scope.attributes:{ public <it.decl>;}; separator="\n">
}
protected Stack\<<scope.name>_scope\> <scope.name>_stack = new Stack\<<scope.name>_scope\>();<\n>
<endif>
>>

globalAttributeScope(scope) ::= <<
<attributeScope(...)>

```

```

>>

ruleAttributeScope(scope) ::= <<
<attributeScope(...)>
>>

returnStructName() ::= "<it.name>_return"

returnType() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<ruleDescriptor.grammar.recognizerName>.<ruleDescriptor:returnStructName()>
<else>
<if(ruleDescriptor.hasSingleReturnValue)>
<ruleDescriptor.singleValueReturnType>
<else>
void
<endif>
<endif>
>>

/** Generate the C# type associated with a single or multiple return
 * values.
 */
ruleLabelType(referencedRule) ::= <<
<if(referencedRule.hasMultipleReturnValues)>
<referencedRule.grammar.recognizerName>.<referencedRule.name>_return
<else>
<if(referencedRule.hasSingleReturnValue)>
<referencedRule.singleValueReturnType>
<else>
void
<endif>
<endif>
>>

delegateName() ::= <<
<if(it.label)><it.label><else>g<it.name><endif>
>>

/** Using a type to init value map, try to init a type; if not in table
 * must be an object, default value is "null".
 */
initValue(typeName) ::= <<
default(<typeName>)
>>

/** Define a rule label including default value */
ruleLabelDef(label) ::= <<

```

```

<ruleLabelType(referencedRule=label.referencedRule)> <label.label.text> =
<initValue(typeName=ruleLabelType(referencedRule=label.referencedRule))>;
>>

/** Define a return struct for a rule if the code needs to access its
 * start/stop tokens, tree stuff, attributes, ... Leave a hole for
 * subgroups to stick in members.
 */
returnScope(scope) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
public <!static !>class <ruleDescriptor:returnStructName()> :
<if(TREE_PARSER)>Tree<else>Parser<endif>RuleReturnScope
{
<scope.attributes:{ public <it.decl>; }; separator="\n">
<@ruleReturnMembers()>
}
<endif>
>>

parameterScope(scope) ::= <<
<scope.attributes:{<it.decl>; }; separator=", ">
>>

parameterAttributeRef(attr) ::= "<attr.name>"
parameterSetAttributeRef(attr,expr) ::= "<attr.name> =<expr>";

scopeAttributeRef(scope,attr,index,negIndex) ::= <<
<if(negIndex)>
((<scope>_scope)<scope>_stack.elementAt(<scope>_stack.size()-<negIndex>-1)).<attr.name>
<else>
<if(index)>
((<scope>_scope)<scope>_stack.elementAt(<index>)).<attr.name>
<else>
((<scope>_scope)<scope>_stack.Peek()).<attr.name>
<endif>
<endif>
>>

scopeSetAttributeRef(scope,attr,expr,index,negIndex) ::= <<
<if(negIndex)>
((<scope>_scope)<scope>_stack.elementAt(<scope>_stack.size()-<negIndex>-1)).<attr.name> =<expr>;
<else>
<if(index)>
((<scope>_scope)<scope>_stack.elementAt(<index>)).<attr.name> =<expr>;
<else>
((<scope>_scope)<scope>_stack.Peek()).<attr.name> =<expr>;
<endif>
<endif>
>>

```



```

>>

/** $x is either global scope or x is rule with dynamic scope; refers
 * to stack itself not top of stack. This is useful for predicates
 * like {$function.size()>0 && $function::name.equals("foo")}?
 */
isolatedDynamicScopeRef(scope) ::= "<scope>_stack"

/** reference an attribute of rule; might only have single return value */
ruleLabelRef(referencedRule,scope,attr) ::= <<
<if(referencedRule.hasMultipleReturnValues)>
(<scope>!=null?<scope>.<attr.name>:<initValue(attr.type)>)
<else>
<scope>
<endif>
>>

returnAttributeRef(ruleDescriptor,attr) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
retval.<attr.name>
<else>
<attr.name>
<endif>
>>

returnSetAttributeRef(ruleDescriptor,attr,expr) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
retval.<attr.name> =<expr>;
<else>
<attr.name> =<expr>;
<endif>
>>

/** How to translate $tokenLabel */
tokenLabelRef(label) ::= "<label>"

/** ids+=ID {$ids} or e+=expr {$e} */
listLabelRef(label) ::= "list_<label>"

// not sure the next are the right approach

tokenLabelPropertyRef_text(scope,attr) ::= "(<scope>!=null?<scope>.Text:null)"
tokenLabelPropertyRef_type(scope,attr) ::= "(<scope>!=null?<scope>.Type:0)"
tokenLabelPropertyRef_line(scope,attr) ::= "(<scope>!=null?<scope>.Line:0)"
tokenLabelPropertyRef_pos(scope,attr) ::= "(<scope>!=null?<scope>.CharPositionInLine:0)"
tokenLabelPropertyRef_channel(scope,attr) ::= "(<scope>!=null?<scope>.Channel:0)"
tokenLabelPropertyRef_index(scope,attr) ::= "(<scope>!=null?<scope>.TokenIndex:0)"

```

```

tokenLabelPropertyRef_tree(scope,attr) ::= "<scope>_tree"
tokenLabelPropertyRef_int(scope,attr) ::= "<scope>!=null?Integer.valueOf(<scope>.Text):0)"

ruleLabelPropertyRef_start(scope,attr) ::= "<scope>!=null?((<labelType><scope>.start):null)"
ruleLabelPropertyRef_stop(scope,attr) ::= "<scope>!=null?((<labelType><scope>.stop):null)"
ruleLabelPropertyRef_tree(scope,attr) ::= "<scope>!=null?((<ASTLabelType><scope>.tree):null)"
ruleLabelPropertyRef_text(scope,attr) ::= <<
<if(TREE_PARSER)>
(<scope>!=null?(input.TokenStream.ToString(
input.TreeAdaptor.GetTokenStartIndex(<scope>.start),
input.TreeAdaptor.GetTokenStopIndex(<scope>.start))):null)
<else>
(<scope>!=null?input.ToString(<scope>.start,<scope>.stop):null)
<endif>
>>

ruleLabelPropertyRef_st(scope,attr) ::= "<scope>!=null?<scope>.st:null)"

/** Isolated $RULE ref ok in lexer as it's a Token */
lexerRuleLabel(label) ::= "<label>"

lexerRuleLabelPropertyRef_type(scope,attr) ::=
"<scope>!=null?<scope>.Type:0)"

lexerRuleLabelPropertyRef_line(scope,attr) ::=
"<scope>!=null?<scope>.Line:0)"

lexerRuleLabelPropertyRef_pos(scope,attr) ::=
"<scope>!=null?<scope>.CharPositionInLine:-1)"

lexerRuleLabelPropertyRef_channel(scope,attr) ::=
"<scope>!=null?<scope>.Channel:0)"

lexerRuleLabelPropertyRef_index(scope,attr) ::=
"<scope>!=null?<scope>.TokenIndex:0)"

lexerRuleLabelPropertyRef_text(scope,attr) ::=
"<scope>!=null?<scope>.Text:null)"

lexerRuleLabelPropertyRef_int(scope,attr) ::=
"<scope>!=null?Integer.valueOf(<scope>.Text):0)"

// Somebody may ref $template or $tree or $stop within a rule:
rulePropertyRef_start(scope,attr) ::= "<labelType>retval.start)"
rulePropertyRef_stop(scope,attr) ::= "<labelType>retval.stop)"
rulePropertyRef_tree(scope,attr) ::= "<labelType>retval.tree)"
rulePropertyRef_text(scope,attr) ::= <<
<if(TREE_PARSER)>

```

```

input.TokenStream.ToString(
 input.TreeAdaptor.GetTokenStartIndex(retval.start),
 input.TreeAdaptor.GetTokenStopIndex(retval.start))
<else>
input.ToString(retval.start,input.LT(-1))
<endif>
>>
rulePropertyRef_st(scope,attr) ::= "retval.st"

lexerRulePropertyRef_text(scope,attr) ::= "Text"
lexerRulePropertyRef_type(scope,attr) ::= "_type"
lexerRulePropertyRef_line(scope,attr) ::= "state.tokenStartLine"
lexerRulePropertyRef_pos(scope,attr) ::= "state.tokenStartCharPositionInLine"
lexerRulePropertyRef_index(scope,attr) ::= "-1" // undefined token index in lexer
lexerRulePropertyRef_channel(scope,attr) ::= "_channel"
lexerRulePropertyRef_start(scope,attr) ::= "state.tokenStartCharIndex"
lexerRulePropertyRef_stop(scope,attr) ::= "(GetCharIndex()-1)"
lexerRulePropertyRef_int(scope,attr) ::= "int.Parse(<scope>.Text)"

// setting $st and $tree is allowed in local rule. everything else
// is flagged as error
ruleSetPropertyRef_tree(scope,attr,expr) ::= "retval.tree =<expr>";
ruleSetPropertyRef_st(scope,attr,expr) ::= "retval.st =<expr>";

/** How to execute an action (only when not backtracking) */
execAction(action) ::= <<
<if(backtracking)>
if (<actions.(actionScope).synpredgate>)
{
 <action>
}
<else>
<action>
<endif>
>>

/** How to always execute an action even when backtracking */
execForcedAction(action) ::= "<action>"

// M I S C (properties, etc...)

bitset(name, words64) ::= <<
public static readonly BitSet <name> = new BitSet(new ulong[] { <words64: {<it>UL}; separator=", "> }); <\n>
>>

codeFileExtension() ::= ".cs"

true() ::= "true"

```

```
false() ::= "false"
```

Found in path(s):

```
* /opt/cola/permits/1204005060_1631853129.56/0/antlr-3-1-3-sources-4-
jar/org/antlr/codegen/templates/CSharp3/CSharp3.stg
```

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```
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```

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```
*/
```

```
group AST;
```

```
@outputFile.imports() ::= <<
```

```
<@super.imports(>
```

```
<if(!TREE_PARSER)><! tree parser would already have imported !>
```

```
using Antlr.Runtime.Tree;<\n>
```

```
<endif>
```

```
>>
```

```
@genericParser.members() ::= <<
```

```
<@super.members(>
```

```
<parserMembers(>
```

>>

```
/** Add an adaptor property that knows how to build trees */
parserMembers() ::= <<
protected ITreeAdaptor adaptor = new CommonTreeAdaptor();<\n>
public ITreeAdaptor TreeAdaptor
{
 get { return this.adaptor; }
 set {
this.adaptor = value;
<grammar.directDelegates:{g|<g:delegateName()>.TreeAdaptor = this.adaptor;}>
 }
}
>>
```

```
@returnScope.ruleReturnMembers() ::= <<
private <ASTLabelType> tree;
override public object Tree
{
 get { return tree; }
 set { tree = (<ASTLabelType>) value; }
}
>>
```

```
/** Add a variable to track rule's return AST */
ruleDeclarations() ::= <<
<super.ruleDeclarations()>
<ASTLabelType> root_0 = null;<\n>
>>
```

```
ruleLabelDefs() ::= <<
<super.ruleLabelDefs()>
<[ruleDescriptor.tokenLabels,ruleDescriptor.wildcardTreeLabels,
ruleDescriptor.wildcardTreeListLabels]:{<ASTLabelType> <it.label.text>_tree=null;}; separator="\n">
<ruleDescriptor.tokenListLabels:{<ASTLabelType> <it.label.text>_tree=null;}; separator="\n">
<ruleDescriptor.allTokenRefsInAltsWithRewrites
: {RewriteRule<rewriteElementType>Stream stream_<it> = new
RewriteRule<rewriteElementType>Stream(adaptor,"token <it>");}; separator="\n">
<ruleDescriptor.allRuleRefsInAltsWithRewrites
: {RewriteRuleSubtreeStream stream_<it> = new RewriteRuleSubtreeStream(adaptor,"rule <it>");};
separator="\n">
>>
```

```
/** When doing auto AST construction, we must define some variables;
* These should be turned off if doing rewrites. This must be a "mode"
* as a rule could have both rewrite and AST within the same alternative
* block.
*/
```

```

@alt.declarations() ::= <<
<if(autoAST)>
<if(outerAlt)>
<if(!rewriteMode)>
root_0 = (<ASTLabelType>)adaptor.GetNilNode();<\n>
<endif>
<endif>
<endif>
>>

// Tracking Rule Elements

/** ID and track it for use in a rewrite rule */
tokenRefTrack(token,label,elementIndex,hetero) ::= <<
<tokenRefBang(...)> <! Track implies no auto AST construction!>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) <endif>stream_<token>.Add(<label>);<\n>
>>

/** ids+=ID and track it for use in a rewrite rule; adds to ids *and*
 * to the tracking list stream_ID for use in the rewrite.
 */
tokenRefTrackAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRefTrack(...)>
<listLabel(elem=label,...)>
>>

/** ^(ID ...) track for rewrite */
tokenRefRuleRootTrack(token,label,elementIndex,hetero) ::= <<
<tokenRefBang(...)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) <endif>stream_<token>.Add(<label>);<\n>
>>

/** Match ^(label+=TOKEN ...) track for rewrite */
tokenRefRuleRootTrackAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRefRuleRootTrack(...)>
<listLabel(elem=label,...)>
>>

/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(...)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) <endif>stream_<rule.name>.Add(<label>.Tree);
>>

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefTrack(...)>
<listLabel(elem=label+".Tree",...)>

```

```

>>

/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) <endif>stream_<rule>.Add(<label>.Tree);
>>

/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRootTrack(...)>
<listLabel(elem=label+".Tree",...)>
>>

// R e w r i t e

rewriteCode(
alts, description,
referencedElementsDeep, // ALL referenced elements to right of ->
referencedTokenLabels,
referencedTokenListLabels,
referencedRuleLabels,
referencedRuleListLabels,
referencedWildcardLabels,
referencedWildcardListLabels,
rewriteBlockLevel, enclosingTreeLevel, treeLevel) ::=
<<

// AST REWRITE
// elements: <referencedElementsDeep; separator=", ">
// token labels: <referencedTokenLabels; separator=", ">
// rule labels: <referencedRuleLabels; separator=", ">
// token list labels: <referencedTokenListLabels; separator=", ">
// rule list labels: <referencedRuleListLabels; separator=", ">
// wildcard labels: <[referencedWildcardLabels,referencedWildcardListLabels]; separator=", ">
<if(backtracking)>
if (<actions.(actionScope).synpredgate>) {<n>
<endif>
<prevRuleRootRef(>).Tree = root_0;
<rewriteCodeLabels(>
root_0 = (<ASTLabelType>)adaptor.GetNilNode();
<alts:rewriteAlt(); separator="else ">
<! if tree parser and rewrite=true !>
<if(TREE_PARSER)>
<if(rewriteMode)>
<prevRuleRootRef(>).Tree = (<ASTLabelType>)adaptor.RulePostProcessing(root_0);
input.ReplaceChildren(adaptor.GetParent(retval.Start),
 adaptor.GetChildIndex(retval.Start),

```

```

 adaptor.GetChildIndex(_last),
 retval.Tree);
<endif>
<endif>
<! if parser or rewrite!=true, we need to set result !>
<if(!TREE_PARSER)>
<prevRuleRootRef(>.Tree = root_0;
<endif>
<if(!rewriteMode)>
<prevRuleRootRef(>.Tree = root_0;
<endif>
<if(backtracking)>
}
<endif>
>>

rewriteCodeLabels() ::= <<
<referencedTokenLabels
: {RewriteRule<rewriteElementType>Stream stream_<it> = new
RewriteRule<rewriteElementType>Stream(adaptor, "token <it>", <it>);};
separator="\n"
>
<referencedTokenListLabels
: {RewriteRule<rewriteElementType>Stream stream_<it> = new
RewriteRule<rewriteElementType>Stream(adaptor, "token <it>", list_<it>);};
separator="\n"
>
<referencedWildcardLabels
: {RewriteRuleSubtreeStream stream_<it> = new RewriteRuleSubtreeStream(adaptor, "wildcard <it>", <it>);};
separator="\n"
>
<referencedWildcardListLabels
: {RewriteRuleSubtreeStream stream_<it> = new RewriteRuleSubtreeStream(adaptor, "wildcard <it>", list_<it>);};
separator="\n"
>
<referencedRuleLabels
: {RewriteRuleSubtreeStream stream_<it> = new RewriteRuleSubtreeStream(adaptor, "rule <it>", <it>!=null ?
<it>.Tree : null);};
separator="\n"
>
<referencedRuleListLabels
: {RewriteRuleSubtreeStream stream_<it> = new RewriteRuleSubtreeStream(adaptor, "token <it>", list_<it>);};
separator="\n"
>
>>

/** Generate code for an optional rewrite block; note it uses the deep ref'd element
* list rather shallow like other blocks.

```



```

*/
rewriteOptionalBlock(
 alt,rewriteBlockLevel,
 referencedElementsDeep, // all nested refs
 referencedElements, // elements in immediately block; no nested blocks
 description) ::=
<<
// <fileName>:<description>
if (<referencedElementsDeep:{el | stream_<el>.HasNext()}; separator=" || ">)
{
 <alt>
}
<referencedElementsDeep:{el | stream_<el>.Reset();<\n>}>
>>

rewriteClosureBlock(
 alt,rewriteBlockLevel,
 referencedElementsDeep, // all nested refs
 referencedElements, // elements in immediately block; no nested blocks
 description) ::=
<<
// <fileName>:<description>
while (<referencedElements:{el | stream_<el>.HasNext()}; separator=" || ">)
{
 <alt>
}
<referencedElements:{el | stream_<el>.Reset();<\n>}>
>>

rewritePositiveClosureBlock(
 alt,rewriteBlockLevel,
 referencedElementsDeep, // all nested refs
 referencedElements, // elements in immediately block; no nested blocks
 description) ::=
<<
if (!(<referencedElements:{el | stream_<el>.HasNext()}; separator=" || ">)) {
 throw new RewriteEarlyExitException();
}
while (<referencedElements:{el | stream_<el>.HasNext()}; separator=" || ">)
{
 <alt>
}
<referencedElements:{el | stream_<el>.Reset();<\n>}>
>>

rewriteAlt(a) ::= <<
// <a.description>
<if(a.pred)>

```

```

if (<a.pred>)
{
 <a.alt>
}<\n>
<else>
{
 <a.alt>
}<\n>
<endif>
>>

/** For empty rewrites: "r : ... -> ;" */
rewriteEmptyAlt() ::= "root_0 = null;"

rewriteTree(root,children,description,enclosingTreeLevel,treeLevel) ::= <<
// <fileName>:<description>
{
 <ASTLabelType> root_<treeLevel> = (<ASTLabelType>)adaptor.GetNilNode();
 <root:rewriteElement()>
 <children:rewriteElement()>
 adaptor.AddChild(root_<enclosingTreeLevel>, root_<treeLevel>);
}<\n>
>>

rewriteElementList(elements) ::= "<elements:rewriteElement()>"

rewriteElement(e) ::= <<
<@pregen()>
<e.el>
>>

/** Gen ID or ID[args] */
rewriteTokenRef(token,elementIndex,hetero,args) ::= <<
adaptor.AddChild(root_<treeLevel>, <createRewriteNodeFromElement(...)>);<\n>
>>

/** Gen $label ... where defined via label=ID */
rewriteTokenLabelRef(label,elementIndex) ::= <<
adaptor.AddChild(root_<treeLevel>, stream_<label>.NextNode());<\n>
>>

/** Gen $label ... where defined via label+=ID */
rewriteTokenListLabelRef(label,elementIndex) ::= <<
adaptor.AddChild(root_<treeLevel>, stream_<label>.NextNode());<\n>
>>

/** Gen ^($label ...) */
rewriteTokenLabelRefRoot(label,elementIndex) ::= <<

```

```

root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(stream_<label>.NextNode(), root_<treeLevel>);<\n>
>>

/** Gen ^($label ...) where label+=... */
rewriteTokenListLabelRefRoot ::= rewriteTokenLabelRefRoot

/** Gen ^(ID ...) or ^(ID[args] ...) */
rewriteTokenRefRoot(token,elementIndex,hetero,args) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(<createRewriteNodeFromElement(...)>,
root_<treeLevel>);<\n>
>>

rewriteImaginaryTokenRef(args,token,hetero,elementIndex) ::= <<
adaptor.AddChild(root_<treeLevel>, <createImaginaryNode(tokenType=token, ...)>);<\n>
>>

rewriteImaginaryTokenRefRoot(args,token,hetero,elementIndex) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(<createImaginaryNode(tokenType=token, ...)>,
root_<treeLevel>);<\n>
>>

/** plain -> {foo} action */
rewriteAction(action) ::= <<
root_0 = <action>;<\n>
>>

/** What is the name of the previous value of this rule's root tree? This
 * let's us refer to $rule to mean previous value. I am reusing the
 * variable 'tree' sitting in retval struct to hold the value of root_0 right
 * before I set it during rewrites. The assign will be to retval.Tree.
 */
prevRuleRootRef() ::= "retval"

rewriteRuleRef(rule) ::= <<
adaptor.AddChild(root_<treeLevel>, stream_<rule>.NextTree());<\n>
>>

rewriteRuleRefRoot(rule) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(stream_<rule>.NextNode(), root_<treeLevel>);<\n>
>>

rewriteNodeAction(action) ::= <<
adaptor.AddChild(root_<treeLevel>, <action>);<\n>
>>

rewriteNodeActionRoot(action) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(<action>, root_<treeLevel>);<\n>
>>

```

```

/** Gen $ruleLabel ... where defined via ruleLabel=rule */
rewriteRuleLabelRef(label) ::= <<
adaptor.AddChild(root_<treeLevel>, stream_<label>.NextTree());<\n>
>>

/** Gen $ruleLabel ... where defined via ruleLabel+=rule */
rewriteRuleListLabelRef(label) ::= <<
adaptor.AddChild(root_<treeLevel>, stream_<label>.NextTree());<\n>
>>

/** Gen ^($ruleLabel ...) where ruleLabel=rule */
rewriteRuleLabelRefRoot(label) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(stream_<label>.NextNode(), root_<treeLevel>);<\n>
>>

/** Gen ^($ruleLabel ...) where ruleLabel+=rule */
rewriteRuleListLabelRefRoot(label) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(stream_<label>.NextNode(), root_<treeLevel>);<\n>
>>

rewriteWildcardLabelRef(label) ::= <<
adaptor.AddChild(root_<treeLevel>, stream_<label>.NextTree());<\n>
>>

createImaginaryNode(tokenType,hetero,args) ::= <<
<if(hetero)>
<! new MethodNode(IDLabel, args) !>
new <hetero>(<tokenType><if(args)>, <args; separator=","><endif>)
<else>
(<ASTLabelType>)adaptor.Create(<tokenType>, <args; separator=","><if(!args)>"<tokenType>"<endif>)
<endif>
>>

createRewriteNodeFromElement(token,hetero,args) ::= <<
<if(hetero)>
new <hetero>(stream_<token>.NextToken(<if(args)>, <args; separator=","><endif>)
<else>
<if(args)> <! must create new node from old !>
adaptor.Create(<token>, <args; separator=",">)
<else>
stream_<token>.NextNode()
<endif>
<endif>
>>

```

Found in path(s):

\* /opt/cola/permits/1204005060\_1631853129.56/0/antlr-3-1-3-sources-4-

```
jar/org/antlr/codegen/templates/CSharp2/AST.stg
* /opt/cola/permits/1204005060_1631853129.56/0/antlr-3-1-3-sources-4-
jar/org/antlr/codegen/templates/CSharp/AST.stg
No license file was found, but licenses were detected in source scan.
```

```
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```

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```
*/
```

```
/* in sync with Java/Java.stg revision 107 */
```

```
group Python implements ANTLRCore;
```

```
/** The overall file structure of a recognizer; stores methods for rules
* and cyclic DFAs plus support code.
*/
```

```
outputFile(LEXER,PARSER,TREE_PARSER, actionScope, actions,
 docComment, recognizer,
 name, tokens, tokenNames, rules, cyclicDFAs,
 bitsets, buildTemplate, buildAST, rewriteMode, profile,
 backtracking, synpreds, memoize, numRules,
 fileName, ANTLRVersion, generatedTimestamp, trace,
 scopes, superClass, literals) ::=
```

```
<<
```

```

$ANTLR <ANTLRVersion> <fileName> <generatedTimestamp>

<@imports>
import sys
from antlr3 import *
<if(TREE_PARSER)>
from antlr3.tree import *<\n>
<endif>
from antlr3.compat import set, frozenset
<@end>

<actions.(actionScope).header>

<! <docComment> !>

for convenience in actions
HIDDEN = BaseRecognizer.HIDDEN

token types
<tokens:{<it.name>=<it.type>}; separator="\n">

<recognizer>

<if(actions.(actionScope).main)>
<actions.(actionScope).main>
<else>
def main(argv, stdin=sys.stdin, stdout=sys.stdout, stderr=sys.stderr):
<if(LEXER)>
 from antlr3.main import LexerMain
 main = LexerMain(<recognizer.name>)<\n>
<endif>
<if(PARSER)>
 from antlr3.main import ParserMain
 main = ParserMain("<recognizer.grammar.name>Lexer", <recognizer.name>)<\n>
<endif>
<if(TREE_PARSER)>
 from antlr3.main import WalkerMain
 main = WalkerMain(<recognizer.name>)<\n>
<endif>
 main.stdin = stdin
 main.stdout = stdout
 main.stderr = stderr
 main.execute(argv)<\n>
<endif>

<actions.(actionScope).footer>

if __name__ == '__main__':

```

```

main(sys.argv)

>>

lexer(grammar, name, tokens, scopes, rules, numRules, labelType="Token",
 filterMode, superClass="Lexer") ::= <<
<grammar.directDelegates:
{g|from <g.recognizerName> import <g.recognizerName>; separator="\n">

class <grammar.recognizerName>(<@superClassName><superClass><@end>):
 <scopes:{<if(it.isDynamicGlobalScope)><globalAttributeScope(scope=it)><endif>}>

 grammarFileName = "<fileName>"
 antlr_version = version_str_to_tuple("<ANTLRVersion>")
 antlr_version_str = "<ANTLRVersion>"

 def __init__(self<grammar.delegators:{g|, <g.delegateName()>}>, input=None, state=None):
 if state is None:
 state = RecognizerSharedState()
 super(<grammar.recognizerName>, self).__init__(input, state)

<if(memoize)>
<if(grammar.grammarIsRoot)>
 self._state.ruleMemo = {}
<endif>
<endif>

 <grammar.directDelegates:
 {g|self.<g.delegateName()> = <g.recognizerName>(<trunc(g.delegators):{p|<p.delegateName()>, }>self, input,
state)); separator="\n">
 <grammar.delegators:
 {g|self.<g.delegateName()> = <g.delegateName()>}; separator="\n">
 <last(grammar.delegators):
 {g|self.gParent = <g.delegateName()>}; separator="\n">

 <cyclicDFAs:{dfa | <cyclicDFAInit(dfa)>}; separator="\n">

 <actions.lexer.init>

 <actions.lexer.members>

<if(filterMode)>
 <filteringNextToken()>
<endif>
 <rules; separator="\n\n">

```

```
<synpreds:{p | <lexerSynpred(p)>}>
```

```
<cyclicDFAs:cyclicDFA()> <! dump tables for all DFA !>
```

```
>>
```

```
/** A override of Lexer.nextToken() that backtracks over mTokens() looking
 * for matches. No error can be generated upon error; just rewind, consume
 * a token and then try again. backtracking needs to be set as well.
 * Make rule memoization happen only at levels above 1 as we start mTokens
 * at backtracking==1.
 */
```

```
filteringNextToken() ::= <<
```

```
def nextToken(self):
```

```
 while True:
```

```
 if self.input.LA(1) == EOF:
```

```
 return EOF_TOKEN
```

```
 self._state.token = None
```

```
 self._state.channel = DEFAULT_CHANNEL
```

```
 self._state.tokenStartCharIndex = self.input.index()
```

```
 self._state.tokenStartCharPositionInLine = self.input.charPositionInLine
```

```
 self._state.tokenStartLine = self.input.line
```

```
 self._state._text = None
```

```
 try:
```

```
 m = self.input.mark()
```

```
 try:
```

```
 # means we won't throw slow exception
```

```
 self._state.backtracking = 1
```

```
 try:
```

```
 self.mTokens()
```

```
 finally:
```

```
 self._state.backtracking = 0
```

```
 except BacktrackingFailed:
```

```
 # mTokens backtracks with synpred at backtracking==2
```

```
 # and we set the synpredgate to allow actions at level 1.
```

```
 self.input.rewind(m)
```

```
 self.input.consume() # advance one char and try again
```

```
 else:
```

```
 self.emit()
```

```
 return self._state.token
```

```
 except RecognitionException, re:
```

```
 # shouldn't happen in backtracking mode, but...
```

```
 self.reportError(re)
```



```

self.recover(re)

def memoize(self, input, ruleIndex, ruleStartIndex, success):
 if self._state.backtracking > 1:
 # is Lexer always superclass?
 <@superClassName><superClass><@end>.memoize(self, input, ruleIndex, ruleStartIndex, success)

def alreadyParsedRule(self, input, ruleIndex):
 if self._state.backtracking > 1:
 return <@superClassName><superClass><@end>.alreadyParsedRule(self, input, ruleIndex)
 return False

>>

actionGate() ::= "self._state.backtracking == 0"

filteringActionGate() ::= "self._state.backtracking == 1"

/** How to generate a parser */

genericParser(grammar, name, scopes, tokens, tokenNames, rules, numRules,
 bitsets, inputStreamType, superClass, filterMode,
 ASTLabelType="Object", labelType, members, rewriteElementType,
 init) ::= <<
<if(grammar.grammarIsRoot)>
token names
tokenNames = [
 "\<invalid>", "\<EOR>", "\<DOWN>", "\<UP>",
 <tokenNames; wrap, separator=", ">
]<\n>
<else>
from <grammar.composite.rootGrammar.recognizerName> import tokenNames<\n>
<endif>
<scopes:{<if(it.isDynamicGlobalScope)><globalAttributeScopeClass(scope=it)><endif>}>

<grammar.directDelegates:
{g|from <g.recognizerName> import <g.recognizerName>}; separator="\n">

<rules:{<ruleAttributeScopeClass(scope=it.ruleDescriptor.ruleScope)>}>

class <grammar.recognizerName><(@superClassName><superClass><@end)>:
 grammarFileName = "<fileName>"
 antlr_version = version_str_to_tuple("<ANTLRVersion>")
 antlr_version_str = "<ANTLRVersion>"
 tokenNames = tokenNames

```

```

def __init__(self<grammar.delegators:{g| <g:delegateName()>>, input, state=None, *args, **kwargs):
 if state is None:
 state = RecognizerSharedState()

 <@args()>
 super(<grammar.recognizerName>, self).__init__(input, state, *args, **kwargs)

<if(memoize)>
<if(grammar.grammarIsRoot)>
 self._state.ruleMemo = {}
<endif>
<endif>

 <cyclicDFAs:{dfa | <cyclicDFAInit(dfa)>}; separator="\n">

 <scopes:{<if(it.isDynamicGlobalScope)><globalAttributeScopeStack(scope=it)><endif>>}>
<rules:{<ruleAttributeScopeStack(scope=it.ruleDescriptor.ruleScope)>>}>

 <init>

 <grammar.delegators:
 {g|self.<g:delegateName()> = <g:delegateName()>}; separator="\n">
 <grammar.directDelegates:
 {g|self.<g:delegateName()> = <g.recognizerName>(<trunc(g.delegators):{p|<p:delegateName()>, }>self, input,
state); separator="\n">
 <!grammar.directDelegates:
 {g|self.<g:delegateName()> = <g.recognizerName>(self<grammar.delegators:{g| <g:delegateName()>}>,
input, state); separator="\n"!>
 <last(grammar.delegators):
 {g|self.gParent = self.<g:delegateName()>}; separator="\n">

 <@init>
 <@end>

 <@members>
 <@end>

 <members>

 <rules; separator="\n\n">

 <! generate rule/method definitions for imported rules so they
 appear to be defined in this recognizer. !>
 # Delegated rules
 <grammar.delegatedRules:{ruleDescriptor| <delegateRule(ruleDescriptor)> }; separator="\n">

```

```

<synpreds:{p | <synpred(p)>>

<cyclicDFAs:cyclicDFA()> <! dump tables for all DFA !>

<bitsets:{FOLLOW_<it.name>_in_<it.inName><it.tokenIndex> = frozenset([<it.tokenTypes:{<it>}separator=",
">])<n>>

>>

delegateRule(ruleDescriptor) ::= <<
def <ruleDescriptor.name>(self, <ruleDescriptor.parameterScope:parameterScope(scope=it)>):
<\> <if(ruleDescriptor.hasReturnValue)>return
<endif>self.<ruleDescriptor.grammar:delegateName()>.<ruleDescriptor.name>(<ruleDescriptor.parameterScope.att
ributes:{a|<a.name>} separator=", ">)

>>

parser(grammar, name, scopes, tokens, tokenNames, rules, numRules, bitsets, ASTLabelType="object",
superClass="Parser", labelType="Token", members={<actions.parser.members>}) ::= <<
<genericParser(inputStreamType="TokenStream", rewriteElementType="Token", init={<actions.parser.init>}, ...)>
>>

/** How to generate a tree parser; same as parser except the input
 * stream is a different type.
 */
treeParser(grammar, name, scopes, tokens, tokenNames, globalAction, rules, numRules, bitsets,
labelType={<ASTLabelType>}, ASTLabelType="Object", superClass="TreeParser",
members={<actions.treeparser.members>}, filterMode) ::= <<
<genericParser(inputStreamType="TreeNodeStream", rewriteElementType="Node",
init={<actions.treeparser.init>}, ...)>
>>

/** A simpler version of a rule template that is specific to the imaginary
 * rules created for syntactic predicates. As they never have return values
 * nor parameters etc..., just give simplest possible method. Don't do
 * any of the normal memoization stuff in here either; it's a waste.
 * As predicates cannot be inlined into the invoking rule, they need to
 * be in a rule by themselves.
 */
synpredRule(ruleName, ruleDescriptor, block, description, nakedBlock) ::=
<<
$ANTLR start "<ruleName>"
def <ruleName>_fragment(self, <ruleDescriptor.parameterScope:parameterScope(scope=it)>):
<if(trace)>
self.traceIn("<ruleName>_fragment", <ruleDescriptor.index>)
try:
<block>

```

```

 finally:
 self.traceOut("<ruleName>_fragment", <ruleDescriptor.index>)

<else>
 <block>
<endif>
$ANTLR end "<ruleName>"

>>

synpred(name) ::= <<
def <name>(self):
 self._state.backtracking += 1
 <@start()>
 start = self.input.mark()
 try:
 self.<name>_fragment()
 except BacktrackingFailed:
 success = False
 else:
 success = True
 self.input.rewind(start)
 <@stop()>
 self._state.backtracking -= 1
 return success

>>

lexerSynpred(name) ::= <<
<synpred(name)>
>>

ruleMemoization(name) ::= <<
<if(memoize)>
if self._state.backtracking > 0 and self.alreadyParsedRule(self.input, <ruleDescriptor.index>):
 # for cached failed rules, alreadyParsedRule will raise an exception
 success = True
 return <ruleReturnValue()>

<endif>
>>

/** This rule has failed, exit indicating failure during backtrack */
ruleBacktrackFailure() ::= <<
<if(backtracking)>

```

```

if self._state.backtracking > 0:
 raise BacktrackingFailed

<endif>
>>

/** How to generate code for a rule. This includes any return type
 * data aggregates required for multiple return values.
 */
rule(ruleName,ruleDescriptor,block,emptyRule,description,exceptions,finally,memoize) ::= <<
<returnScope(scope=ruleDescriptor.returnScope)>

$ANTLR start "<ruleName>"
<fileName>:<description>
<ruleDescriptor.actions.decorate>
def <ruleName>(self, <ruleDescriptor.parameterScope:parameterScope(scope=it)>):
<if(trace)>
 self.traceIn("<ruleName>", <ruleDescriptor.index>)<\n>
<endif>
 <ruleScopeSetUp()>
 <ruleDeclarations()>
 <ruleLabelDefs()>
 <ruleDescriptor.actions.init>
 <@preamble()>
 <@body><ruleBody()><@end>
 <@postamble()>
 return <ruleReturnValue()>

$ANTLR end "<ruleName>"
>>

ruleBody() ::= <<
<if(memoize)>
<if(backtracking)>
success = False<\n>
<endif>
<endif>
try:
 try:
 <ruleMemoization(name=ruleName)>
 <block>
 <ruleCleanUp()>
 <(ruleDescriptor.actions.after):execAction()>

<if(memoize)>
<if(backtracking)>
 success = True<\n>
<endif>

```

```

<endif>
<if(exceptions)>
 <exceptions:{e|<catch(decl=e.decl,action=e.action)><\n}>>
<else>
<if(!emptyRule)>
<if(actions.(actionScope).rulecatch)>
 <actions.(actionScope).rulecatch>
<else>
 except RecognitionException, re:
 self.reportError(re)
 self.recover(self.input, re)
 <@setErrorReturnValue()>

<endif>
<else>
 finally:
 pass

<endif>
<endif>
finally:
<if(trace)>
 self.traceOut("<ruleName>", <ruleDescriptor.index>)<\n>
<endif>
 <memoize()>
 <ruleScopeCleanUp()>
 <finally>
 pass
>>

catch(decl,action) ::= <<
except <e.decl>:
 <e.action>

>>

ruleDeclarations() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
retval = self.<ruleDescriptor.name>_return()
retval.start = self.input.LT(1)<\n>
<else>
<ruleDescriptor.returnScope.attributes:{ a |
<a.name> = <if(a.initValue)><a.initValue><else>None<endif>
}>
<endif>
<if(memoize)>
<ruleDescriptor.name>_startIndex = self.input.index()
<endif>

```

>>

ruleScopeSetUp() ::= <<

<ruleDescriptor.useScopes:{self.<it>\_stack.append(<it>\_scope()); separator="\n">

<ruleDescriptor.ruleScope:{self.<it.name>\_stack.append(<it.name>\_scope()); separator="\n">

>>

ruleScopeCleanUp() ::= <<

<ruleDescriptor.useScopes:{self.<it>\_stack.pop()}; separator="\n">

<ruleDescriptor.ruleScope:{self.<it.name>\_stack.pop()}; separator="\n">

>>

ruleLabelDefs() ::= <<

<[ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels,  
ruleDescriptor.wildcardTreeLabels,ruleDescriptor.wildcardTreeListLabels]  
:{<it.label.text> = None }; separator="\n"

>

<[ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels,  
ruleDescriptor.wildcardTreeListLabels]  
:{list\_<it.label.text> = None }; separator="\n"

>

<[ruleDescriptor.ruleLabels,ruleDescriptor.ruleListLabels]  
:ruleLabelDef(label=it); separator="\n"

>

<ruleDescriptor.ruleListLabels:{<it.label.text> = None }; separator="\n">

>>

lexerRuleLabelDefs() ::= <<

<[ruleDescriptor.tokenLabels,  
ruleDescriptor.tokenListLabels,  
ruleDescriptor.ruleLabels]  
:{<it.label.text> = None }; separator="\n"

>

<ruleDescriptor.charLabels:{<it.label.text> = None }; separator="\n">

<[ruleDescriptor.tokenListLabels,  
ruleDescriptor.ruleListLabels]  
:{list\_<it.label.text> = None }; separator="\n"

>

>>

ruleReturnValue() ::= <<

<if(!ruleDescriptor.isSynPred)>

<if(ruleDescriptor.hasReturnValue)>

<if(ruleDescriptor.hasSingleReturnValue)>

<ruleDescriptor.singleValueReturnName>

<else>

retval

<endif>

```

<endif>
<endif>
>>

ruleCleanup() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<if(!TREE_PARSER)>
retval.stop = self.input.LT(-1)<\n>
<endif>
<endif>
>>

memoize() ::= <<
<if(memoize)>
<if(backtracking)>
if self._state.backtracking > 0:
 self.memoize(self.input, <ruleDescriptor.index>, <ruleDescriptor.name>_StartIndex, success)

<endif>
<endif>
>>

/** How to generate a rule in the lexer; naked blocks are used for
 * fragment rules.
 */
lexerRule(ruleName,nakedBlock,ruleDescriptor,block,memoize) ::= <<
$ANTLR start "<ruleName>"
def m<ruleName>(self, <ruleDescriptor.parameterScope:parameterScope(scope=it)>):
<if(trace)>
 self.traceIn("<ruleName>", <ruleDescriptor.index>)<\n>
<endif>
 <ruleScopeSetUp()>
 <ruleDeclarations()>
<if(memoize)>
<if(backtracking)>
 success = False<\n>
<endif>
<endif>
 try:
<if(nakedBlock)>
 <ruleMemoization(name=ruleName)>
 <lexerRuleLabelDefs()>
 <ruleDescriptor.actions.init>
 <block><\n>
<else>
 _type = <ruleName>
 _channel = DEFAULT_CHANNEL

```



```

 <ruleMemoization(name=ruleName)>
 <lexerRuleLabelDefs()>
 <ruleDescriptor.actions.init>
 <block>
 <ruleCleanUp()>
 self._state.type = _type
 self._state.channel = _channel
 <(ruleDescriptor.actions.after):execAction()>
<endif>
<if(memoize)>
<if(backtracking)>
 success = True<\n>
<endif>
<endif>

 finally:
<if(trace)>
 self.traceOut("<ruleName>", <ruleDescriptor.index>)<\n>
<endif>
 <ruleScopeCleanUp()>
 <memoize()>
 pass

$ANTLR end "<ruleName>"

```

```
>>
```

```

/** How to generate code for the implicitly-defined lexer grammar rule
 * that chooses between lexer rules.
 */

```

```

tokensRule(ruleName,nakedBlock,args,block,ruleDescriptor) ::= <<
def mTokens(self):
 <block><\n>

```

```
>>
```

```
// S U B R U L E S
```

```
/** A (...) subrule with multiple alternatives */
```

```

block(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
<fileName>:<description>
alt<decisionNumber> = <maxAlt>
<decls>
<@body><blockBody()><@end>

```

```
>>
```

```

blockBody() ::= <<
<@predecision()>
<@decision><decision><@end>
<@postdecision()>
<@prebranch()>
<alts:altSwitchCase(); separator="\n">
<@postbranch()>
>>

/** A rule block with multiple alternatives */
ruleBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
<fileName>:<description>
alt<decisionNumber> = <maxAlt>
<decls>
<@predecision()>
<@decision><decision><@end>
<@postdecision()>
<alts:altSwitchCase(); separator="\n">
>>

ruleBlockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
<fileName>:<description>
<decls>
<@prealt()>
<alts>
<@postalt()>
>>

/** A special case of a (...) subrule with a single alternative */
blockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
<fileName>:<description>
<decls>
<@prealt()>
<alts>
<@postalt()>
>>

/** A (..)+ block with 1 or more alternatives */
positiveClosureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
<fileName>:<description>
cnt<decisionNumber> = 0
<decls>
<@preloop()>
<@loopBody>
<positiveClosureBlockLoop()>
<@end>
<@postloop()>

```

>>

```
positiveClosureBlockLoop() ::= <<
while True: #loop<decisionNumber>
 alt<decisionNumber> = <maxAlt>
 <@predecision()>
 <@decisionBody><decision><@end>
 <@postdecision()>
 <alts:altSwitchCase(); separator="\nel">
 else:
 if cnt<decisionNumber> >= 1:
 break #loop<decisionNumber>

 <ruleBacktrackFailure()>
 eee = EarlyExitException(<decisionNumber>, self.input)
 <@earlyExitException()>
 raise eee

 cnt<decisionNumber> += 1
```

>>

```
positiveClosureBlockSingleAlt ::= positiveClosureBlock
```

```
/** A (..)* block with 1 or more alternatives */
```

```
closureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::=
<<
<fileName>:<description>
<decls>
<@preloop()>
<@loopBody>
<closureBlockLoop()>
<@end>
<@postloop()>
```

>>

```
closureBlockLoop() ::= <<
while True: #loop<decisionNumber>
 alt<decisionNumber> = <maxAlt>
 <@predecision()>
 <@decisionBody><decision><@end>
 <@postdecision()>
 <alts:altSwitchCase(); separator="\nel">
 else:
 break #loop<decisionNumber>
```

>>

```
closureBlockSingleAlt ::= closureBlock
```

```

/** Optional blocks (x)? are translated to (x|) by before code generation
 * so we can just use the normal block template
 */
optionalBlock ::= block

optionalBlockSingleAlt ::= block

/** A case in a switch that jumps to an alternative given the alternative
 * number. A DFA predicts the alternative and then a simple switch
 * does the jump to the code that actually matches that alternative.
 */
altSwitchCase() ::= <<
if alt<decisionNumber> == <i>:
 <@prealt()>
 <it>
>>

/** An alternative is just a list of elements; at outermost level */
alt(elements,altNum,description,autoAST,outerAlt, treeLevel,rew) ::= <<
<fileName>:<description>
pass <! so empty alternatives are a valid block !>
<@declarations()>
<elements:element()>
<rew>
<@cleanup()>
>>

/** What to emit when there is no rewrite. For auto build
 * mode, does nothing.
 */
noRewrite(rewriteBlockLevel, treeLevel) ::= ""

// E L E M E N T S

/** Dump the elements one per line */
element() ::= <<
<@prematch()>
<it.el><\n>
>>

/** match a token optionally with a label in front */
tokenRef(token,label,elementIndex,hetero) ::= <<
<if(label)><label>=<endif>self.match(self.input, <token>,
self.FOLLOW_<token>_in_<ruleName><elementIndex>)
>>

/** ids+=ID */
tokenRefAndListLabel(token,label,elementIndex,hetero) ::= <<

```

```

<tokenRef(...)>
<listLabel(elem=label,...)>
>>

listLabel(label, elem) ::= <<
if list_<label> is None:
 list_<label> = []
list_<label>.append(<elem>)<\n>
>>

/** match a character */
charRef(char,label) ::= <<
<if(label)>
<label> = self.input.LA(1)<\n>
<endif>
self.match(<char>)
>>

/** match a character range */
charRangeRef(a,b,label) ::= <<
<if(label)>
<label> = self.input.LA(1)<\n>
<endif>
self.matchRange(<a>,)
>>

/** For now, sets are interval tests and must be tested inline */
matchSet(s,label,elementIndex,postmatchCode="") ::= <<
<if(label)>
<label> = self.input.LT(1)<\n>
<endif>
if <s>:
 self.input.consume()
 <postmatchCode>
<if(!LEXER)>
 self._state.errorRecovery = False<\n>
<endif>

else:
 <ruleBacktrackFailure()>
 mse = MismatchedSetException(None, self.input)
 <@mismatchedSetException()>
<if(LEXER)>
 self.recover(mse)
 raise mse
<else>
 raise mse
<! use following code to make it recover inline; remove throw mse;

```

```

 self.recoverFromMismatchedSet(
 self.input, mse, self.FOLLOW_set_in_<ruleName><elementIndex>
)
 !>
<endif>
<\n>
>>

matchRuleBlockSet ::= matchSet

matchSetAndListLabel(s,label,elementIndex,postmatchCode) ::= <<
<matchSet(...)>
<listLabel(elem=label,...)>
>>

/** Match a string literal */
lexerStringRef(string,label) ::= <<
<if(label)>
<label>Start = self.getCharIndex()
self.match(<string>)
<label> = CommonToken(input=self.input, type=INVALID_TOKEN_TYPE, channel=DEFAULT_CHANNEL,
start=<label>Start, stop=self.getCharIndex()-1)
<else>
self.match(<string>)
<endif>
>>

wildcard(label,elementIndex) ::= <<
<if(label)>
<label> = self.input.LT(1)<\n>
<endif>
self.matchAny(self.input)
>>

wildcardAndListLabel(label,elementIndex) ::= <<
<wildcard(...)>
<listLabel(elem=label,...)>
>>

/** Match . wildcard in lexer */
wildcardChar(label, elementIndex) ::= <<
<if(label)>
<label> = self.input.LA(1)<\n>
<endif>
self.matchAny()
>>

wildcardCharListLabel(label, elementIndex) ::= <<

```

```

<wildcardChar(...)>
<listLabel(elem=label,...)>
>>

/** Match a rule reference by invoking it possibly with arguments
 * and a return value or values. The 'rule' argument was the
 * target rule name, but now is type Rule, whose toString is
 * same: the rule name. Now though you can access full rule
 * descriptor stuff.
 */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
self._state.following.append(self.FOLLOW_<rule.name>_in_<ruleName><elementIndex>)
<if(label)><label> = <endif>self.<if(scope)><scope:delegateName()>.<endif><rule.name>(<args; separator=",
">)<\n>
self._state.following.pop()
>>

/** ids+=rule */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>
<listLabel(elem=label,...)>
>>

/** A lexer rule reference
 * The 'rule' argument was the target rule name, but now
 * is type Rule, whose toString is same: the rule name.
 * Now though you can access full rule descriptor stuff.
 */
lexerRuleRef(rule,label,args,elementIndex,scope) ::= <<
<if(label)>
<label>Start<elementIndex> = self.getCharIndex()
self.<if(scope)><scope:delegateName()>.<endif>m<rule.name>(<args; separator=", ">)
<label> = CommonToken(
 input=self.input,
 type=INVALID_TOKEN_TYPE,
 channel=DEFAULT_CHANNEL,
 start=<label>Start<elementIndex>,
 stop=self.getCharIndex()-1
)
<else>
self.<if(scope)><scope:delegateName()>.<endif>m<rule.name>(<args; separator=", ">)
<endif>
>>

/** i+=INT in lexer */
lexerRuleRefAndListLabel(rule,label,args,elementIndex,scope) ::= <<
<lexerRuleRef(...)>
<listLabel(elem=label,...)>

```

```

>>

/** EOF in the lexer */
lexerMatchEOF(label,elementIndex) ::= <<
<if(label)>
<label>Start<elementIndex> = self.getCharIndex()
self.match(EOF)
<label> = CommonToken(input=self.input, type=EOF, channel=DEFAULT_CHANNEL,
start=<label>Start<elementIndex>, stop=self.getCharIndex()-1)
<else>
self.match(EOF)
<endif>
>>

/** match ^(root children) in tree parser */
tree(root, actionsAfterRoot, children, nullableChildList,
enclosingTreeLevel, treeLevel) ::= <<
<root:element()>
<actionsAfterRoot:element()>
<if(nullableChildList)>
if self.input.LA(1) == DOWN:
self.match(self.input, DOWN, None)
<children:element()>
self.match(self.input, UP, None)

<else>
self.match(self.input, DOWN, None)
<children:element()>
self.match(self.input, UP, None)
<endif>
>>

/** Every predicate is used as a validating predicate (even when it is
* also hoisted into a prediction expression).
*/
validateSemanticPredicate(pred,description) ::= <<
if not (<evalPredicate(...)>):
<ruleBacktrackFailure()>
raise FailedPredicateException(self.input, "<ruleName>", "<description>")

>>

// F i x e d D F A (if-then-else)

dfaState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
LA<decisionNumber>_<stateNumber> = self.input.LA(<k>)<\n>
<edges; separator="\n1">
else:

```



```

<if(eotPredictsAlt)>
 alt<decisionNumber> = <eotPredictsAlt>
<else>
 <ruleBacktrackFailure()>
 nvae = NoViableAltException("<description>", <decisionNumber>, <stateNumber>, self.input)<\n>
 <@noViableAltException()>
 raise nvae<\n>
<endif>
>>

```

```

/** Same as a normal DFA state except that we don't examine lookahead
 * for the bypass alternative. It delays error detection but this
 * is faster, smaller, and more what people expect. For (X)? people
 * expect "if (LA(1)==X) match(X);" and that's it.
 */
dfaOptionalBlockState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
LA<decisionNumber>_<stateNumber> = self.input.LA(<k>)<\n>
<edges; separator="\n" >
>>

```

```

/** A DFA state that is actually the loopback decision of a closure
 * loop. If end-of-token (EOT) predicts any of the targets then it
 * should act like a default clause (i.e., no error can be generated).
 * This is used only in the lexer so that for ('a')* on the end of a rule
 * anything other than 'a' predicts exiting.
 */
dfaLoopbackState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
LA<decisionNumber>_<stateNumber> = self.input.LA(<k>)<\n>
<edges; separator="\n" ><\n>
<if(eotPredictsAlt)>
<if(!edges)>
alt<decisionNumber> = <eotPredictsAlt> <! if no edges, don't gen ELSE !>
<else>
else:
 alt<decisionNumber> = <eotPredictsAlt>
<\n>
<endif>
<endif>
>>

```

```

/** An accept state indicates a unique alternative has been predicted */
dfaAcceptState(alt) ::= "alt<decisionNumber> = <alt>"

```

```

/** A simple edge with an expression. If the expression is satisfied,
 * enter to the target state. To handle gated productions, we may
 * have to evaluate some predicates for this edge.
 */
dfaEdge(labelExpr, targetState, predicates) ::= <<

```

```

if (<labelExpr>) <if(predicates)>and (<predicates>)<endif>:
 <targetState>
>>

// F i x e d D F A (switch case)

/** A DFA state where a SWITCH may be generated. The code generator
 * decides if this is possible: CodeGenerator.canGenerateSwitch().
 */
dfaStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
<!
 FIXME: this is one of the few occasion, where I miss a switch statement
 in Python. ATM this is implemented as a list of if .. elif ..
 This may be replaced by faster a dictionary lookup, when I find a solution
 for the cases when an edge is not a plain dfaAcceptState.
!>
LA<decisionNumber> = self.input.LA(<k>)
<edges; separator="\n">
else:
<if(eotPredictsAlt)>
 alt<decisionNumber> = <eotPredictsAlt>
<else>
 <ruleBacktrackFailure()>
 nvae = NoViableAltException("<description>", <decisionNumber>, <stateNumber>, self.input)<\n>
 <@noViableAltException()>
 raise nvae<\n>
<endif>

>>

dfaOptionalBlockStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
LA<decisionNumber> = self.input.LA(<k>)
<edges; separator="\n">
>>

dfaLoopbackStateSwitch(k, edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
LA<decisionNumber> = self.input.LA(<k>)
<edges; separator="\n">
<if(eotPredictsAlt)>
else:
 alt<decisionNumber> = <eotPredictsAlt>
<endif>
>>

dfaEdgeSwitch(labels, targetState) ::= <<
if <labels:{LA<decisionNumber> == <it>}>; separator=" or ">:
 <targetState>
>>

```

```

// C y c l i c D F A

/** The code to initiate execution of a cyclic DFA; this is used
 * in the rule to predict an alt just like the fixed DFA case.
 * The <name> attribute is inherited via the parser, lexer, ...
 */
dfaDecision(decisionNumber,description) ::= <<
alt<decisionNumber> = self.dfa<decisionNumber>.predict(self.input)
>>

/* Dump DFA tables as run-length-encoded Strings of octal values.
 * Can't use hex as compiler translates them before compilation.
 * These strings are split into multiple, concatenated strings.
 * Java puts them back together at compile time thankfully.
 * Java cannot handle large static arrays, so we're stuck with this
 * encode/decode approach. See analysis and runtime DFA for
 * the encoding methods.
 */
cyclicDFA(dfa) ::= <<
lookup tables for DFA #<dfa.decisionNumber>

DFA<dfa.decisionNumber>_eot = DFA.unpack(
 u"<dfa.javaCompressedEOT; wrap="\n u\>"
)

DFA<dfa.decisionNumber>_eof = DFA.unpack(
 u"<dfa.javaCompressedEOF; wrap="\n u\>"
)

DFA<dfa.decisionNumber>_min = DFA.unpack(
 u"<dfa.javaCompressedMin; wrap="\n u\>"
)

DFA<dfa.decisionNumber>_max = DFA.unpack(
 u"<dfa.javaCompressedMax; wrap="\n u\>"
)

DFA<dfa.decisionNumber>_accept = DFA.unpack(
 u"<dfa.javaCompressedAccept; wrap="\n u\>"
)

DFA<dfa.decisionNumber>_special = DFA.unpack(
 u"<dfa.javaCompressedSpecial; wrap="\n u\>"
)

DFA<dfa.decisionNumber>_transition = [

```

```

 <dfa.javaCompressedTransition:{s|DFA.unpack(u"<s; wrap="\nu\ "">"); separator=",\n">
]

class definition for DFA #<dfa.decisionNumber>

class DFA<dfa.decisionNumber>(DFA):
 pass

 <@errorMethod()>

 <if(dfa.specialStateSTs)>
 def specialStateTransition(self_, s, input):
 # convince pylint that my self_ magic is ok ;)
 # pylint: disable-msg=E0213

 # pretend we are a member of the recognizer
 # thus semantic predicates can be evaluated
 self = self_.recognizer

 _s = s

 <dfa.specialStateSTs:{state |
if s == <i0>: <! compressed special state numbers 0..n-1 !>
 <state>}; separator="\nel">

 <if(backtracking)>
 if self._state.backtracking >0:
 raise BacktrackingFailed

 <endif>
 nvae = NoViableAltException(self_.getDescription(), <dfa.decisionNumber>, _s, input)
 self_.error(nvae)
 raise nvae<\n>
 <endif>

 >>

cyclicDFAInit(dfa) ::= <<
self.dfa<dfa.decisionNumber> = self.DFA<dfa.decisionNumber>(
 self, <dfa.decisionNumber>,
 eot = self.DFA<dfa.decisionNumber>_eot,
 eof = self.DFA<dfa.decisionNumber>_eof,
 min = self.DFA<dfa.decisionNumber>_min,
 max = self.DFA<dfa.decisionNumber>_max,
 accept = self.DFA<dfa.decisionNumber>_accept,
 special = self.DFA<dfa.decisionNumber>_special,
 transition = self.DFA<dfa.decisionNumber>_transition
)<\n>

```

```

>>

/** A state in a cyclic DFA; it's a special state and part of a big switch on
 * state.
 */
cyclicDFAState(decisionNumber,stateNumber,edges,needErrorClause,semPredState) ::= <<
LA<decisionNumber>_<stateNumber> = input.LA(1)<\n>
<if(semPredState)> <! get next lookahead symbol to test edges, then rewind !>
index<decisionNumber>_<stateNumber> = input.index()
input.rewind()<\n>
<endif>
s = -1
<edges; separator="\n!">
<if(semPredState)> <! return input cursor to state before we rewound !>
input.seek(index<decisionNumber>_<stateNumber>)<\n>
<endif>
if s >= 0:
 return s
>>

```

```

/** Just like a fixed DFA edge, test the lookahead and indicate what
 * state to jump to next if successful.
 */
cyclicDFAEdge(labelExpr, targetStateNumber, edgeNumber, predicates) ::= <<
if (<labelExpr>><if(predicates)> and (<predicates>)<endif>:
 s = <targetStateNumber><\n>
>>

```

```

/** An edge pointing at end-of-token; essentially matches any char;
 * always jump to the target.
 */
eotDFAEdge(targetStateNumber,edgeNumber, predicates) ::= <<
se:
 s = <targetStateNumber><\n>
>>

```

## // D F A E X P R E S S I O N S

```

andPredicates(left,right) ::= "((<left>) and (<right>))"

orPredicates(operands) ::= "(<first(operands)><rest(operands):{ o | or <o> }>)"

notPredicate(pred) ::= "not (<evalPredicate(...)>)"

evalPredicate(pred,description) ::= "(<pred>)"

evalSynPredicate(pred,description) ::= "self.<pred>()"

```

```

lookaheadTest(atom,k,atomAsInt) ::= "LA<decisionNumber>_<stateNumber> == <atom>"

/** Sometimes a lookahead test cannot assume that LA(k) is in a temp variable
 * somewhere. Must ask for the lookahead directly.
 */
isolatedLookaheadTest(atom,k,atomAsInt) ::= "self.input.LA(<k>) == <atom>"

lookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= <<
(<lower> \<= LA<decisionNumber>_<stateNumber> \<= <upper>)
>>

isolatedLookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= "(<lower> \<=
self.input.LA(<k>) \<= <upper>)"

setTest(ranges) ::= "<ranges; separator=\\\" or \\\">"

// A T T R I B U T E S

globalAttributeScopeClass(scope) ::= <<
<if(scope.attributes)>
class <scope.name>_scope(object):
 def __init__(self):
 <scope.attributes:{self.<it.decl> = None }; separator="\\n">

<endif>
>>

globalAttributeScopeStack(scope) ::= <<
<if(scope.attributes)>
self.<scope.name>_stack = []<\n>
<endif>
>>

ruleAttributeScopeClass(scope) ::= <<
<if(scope.attributes)>
class <scope.name>_scope(object):
 def __init__(self):
 <scope.attributes:{self.<it.decl> = None }; separator="\\n">

<endif>
>>

ruleAttributeScopeStack(scope) ::= <<
<if(scope.attributes)>
self.<scope.name>_stack = []<\n>
<endif>
>>

```

```

delegateName() ::= <<
<if(it.label)><it.label><else>g<it.name><endif>
>>

/** Define a rule label including default value */
ruleLabelDef(label) ::= <<
<label.label.text> = None<\n>
>>

returnStructName() ::= "<it.name>_return"

/** Define a return struct for a rule if the code needs to access its
 * start/stop tokens, tree stuff, attributes, ... Leave a hole for
 * subgroups to stick in members.
 */
returnScope(scope) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
class <ruleDescriptor:returnStructName()><(if(TREE_PARSER)>Tree<else>Parser<endif>RuleReturnScope):
 def __init__(self):
 super(<grammar.recognizerName>.<ruleDescriptor:returnStructName()>, self).__init__()

 <scope.attributes:{self.<it.decl> = None}; separator="\n">
 <@ruleReturnInit()>

 <@ruleReturnMembers()>

<endif>
>>

parameterScope(scope) ::= <<
<scope.attributes:{<it.decl>}; separator=", ">
>>

parameterAttributeRef(attr) ::= "<attr.name>"
parameterSetAttributeRef(attr,expr) ::= "<attr.name> = <expr>"

scopeAttributeRef(scope,attr,index,negIndex) ::= <<
<if(negIndex)>
self.<scope>_stack[-<negIndex>].<attr.name>
<else>
<if(index)>
self.<scope>_stack[<index>].<attr.name>
<else>
self.<scope>_stack[-1].<attr.name>
<endif>
<endif>
>>

```

>>

/\* not applying patch because of bug in action parser!

```
<if(negIndex)>
((len(self.<scope>_stack) - <negIndex> - 1) >= 0 and [self.<scope>_stack[-<negIndex>].<attr.name>] or [None])[0]
<else>
<if(index)>
((<index> \< len(self.<scope>_stack)) and [self.<scope>_stack[<index>].<attr.name>] or [None])[0]
<else>
((len(self.<scope>_stack) > 0) and [self.<scope>_stack[-1].<attr.name>] or [None])[0]
<endif>
<endif>
```

\*/

```
scopeSetAttributeRef(scope,attr,expr,index,negIndex) ::= <<
<if(negIndex)>
<!FIXME: this seems not to be used by ActionTranslator...!>
self.<scope>_stack[-<negIndex>].<attr.name> = <expr>
<else>
<if(index)>
<!FIXME: this seems not to be used by ActionTranslator...!>
self.<scope>_stack[<index>].<attr.name> = <expr>
<else>
self.<scope>_stack[-1].<attr.name> = <expr>
<endif>
<endif>
>>
```

```
/** $x is either global scope or x is rule with dynamic scope; refers
* to stack itself not top of stack. This is useful for predicates
* like {$function.size()>0 && $function::name.equals("foo")}?
*/
```

```
isolatedDynamicScopeRef(scope) ::= "self.<scope>_stack"
```

```
/** reference an attribute of rule; might only have single return value */
ruleLabelRef(referencedRule,scope,attr) ::= <<
<if(referencedRule.hasMultipleReturnValues)>
((<scope> is not None) and [<scope>.<attr.name>] or [None])[0]
<else>
<scope>
<endif>
>>
```

```
returnAttributeRef(ruleDescriptor,attr) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
retval.<attr.name>
```



```

<else>
<attr.name>
<endif>
>>

returnSetAttributeRef(ruleDescriptor,attr,expr) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
retval.<attr.name> = <expr>
<else>
<attr.name> = <expr>
<endif>
>>

/** How to translate $tokenLabel */
tokenLabelRef(label) ::= "<label>"

/** ids+=ID {$ids} or e+=expr {$e} */
listLabelRef(label) ::= "list_<label>"

// not sure the next are the right approach; and they are evaluated early;
// they cannot see TREE_PARSER or PARSER attributes for example. :(

tokenLabelPropertyRef_text(scope,attr) ::= "<scope>.text"
tokenLabelPropertyRef_type(scope,attr) ::= "<scope>.type"
tokenLabelPropertyRef_line(scope,attr) ::= "<scope>.line"
tokenLabelPropertyRef_pos(scope,attr) ::= "<scope>.charPositionInLine"
tokenLabelPropertyRef_channel(scope,attr) ::= "<scope>.channel"
tokenLabelPropertyRef_index(scope,attr) ::= "<scope>.index"
tokenLabelPropertyRef_tree(scope,attr) ::= "<scope>_tree"

ruleLabelPropertyRef_start(scope,attr) ::= "<scope>.start"
ruleLabelPropertyRef_stop(scope,attr) ::= "<scope>.stop"
ruleLabelPropertyRef_tree(scope,attr) ::= "<scope>.tree"
ruleLabelPropertyRef_text(scope,attr) ::= <<
<if(TREE_PARSER)>
((<scope> is not None) and [self.input.getTokenStream().toString(
 self.input.getTreeAdaptor().getTokenStartIndex(<scope>.start),
 self.input.getTreeAdaptor().getTokenStopIndex(<scope>.start)
)] or [None])[0]
<else>
((<scope> is not None) and [self.input.toString(<scope>.start,<scope>.stop)] or [None])[0]
<endif>
>>
ruleLabelPropertyRef_st(scope,attr) ::= "((<scope> is not None) and [<scope>.st] or [None])[0]"

/** Isolated $RULE ref ok in lexer as it's a Token */
lexerRuleLabel(label) ::= "<label>"

```

```

lexerRuleLabelPropertyRef_type(scope,attr) ::= "((<scope> is not None) and [<scope>.type] or [0])[0]"
lexerRuleLabelPropertyRef_line(scope,attr) ::= "((<scope> is not None) and [<scope>.line] or [0])[0]"
lexerRuleLabelPropertyRef_pos(scope,attr) ::= "((<scope> is not None) and [<scope>.charPositionInLine] or [0])[0]"
lexerRuleLabelPropertyRef_channel(scope,attr) ::= "((<scope> is not None) and [<scope>.channel] or [0])[0]"
lexerRuleLabelPropertyRef_index(scope,attr) ::= "((<scope> is not None) and [<scope>.index] or [0])[0]"
lexerRuleLabelPropertyRef_text(scope,attr) ::= "((<scope> is not None) and [<scope>.text] or [None])[0]"
lexerRuleLabelPropertyRef_int(scope,attr) ::= "((<scope> is not None) and [int(<scope>.text)] or [0])[0]"

```

// Somebody may ref \$template or \$tree or \$stop within a rule:

```

rulePropertyRef_start(scope,attr) ::= "retval.start"
rulePropertyRef_stop(scope,attr) ::= "retval.stop" //mmm... or input.LT(-1)??
rulePropertyRef_tree(scope,attr) ::= "retval.tree"
rulePropertyRef_text(scope,attr) ::= "self.input.toString(retval.start, self.input.LT(-1))"
rulePropertyRef_st(scope,attr) ::= "retval.st"

```

```

lexerRulePropertyRef_text(scope,attr) ::= "self.text"
lexerRulePropertyRef_type(scope,attr) ::= "_type"
lexerRulePropertyRef_line(scope,attr) ::= "self._state.tokenStartLine"
lexerRulePropertyRef_pos(scope,attr) ::= "self._state.tokenStartCharPositionInLine"
lexerRulePropertyRef_index(scope,attr) ::= "-1" // undefined token index in lexer
lexerRulePropertyRef_channel(scope,attr) ::= "_channel"
lexerRulePropertyRef_start(scope,attr) ::= "self._state.tokenStartCharIndex"
lexerRulePropertyRef_stop(scope,attr) ::= "(self.getCharIndex()-1)"
lexerRulePropertyRef_int(scope,attr) ::= "int(<scope>.text)"

```

// setting \$st and \$tree is allowed in local rule. everything else

// is flagged as error

```

ruleSetPropertyRef_tree(scope,attr,expr) ::= "retval.tree =<expr>"
ruleSetPropertyRef_st(scope,attr,expr) ::= "retval.st =<expr>"

```

/\*\* How to execute an action (only when not backtracking) \*/

```

execAction(action) ::= <<
<if(backtracking)>
<if(actions.(actionScope).synpredgate)>
if <actions.(actionScope).synpredgate>:
 <action>

<else>
if <actions.(actionScope).synpredgate>:
 <action>

<endif>
<else>
#action start
<action>

```

```

#action end
<endif>
>>

/** How to always execute an action even when backtracking */
execForcedAction(action) ::= "<action>"

// M I S C (properties, etc...)

codeFileExtension() ::= ".py"

true() ::= "True"
false() ::= "False"

Found in path(s):
* /opt/cola/permits/1204005060_1631853129.56/0/antlr-3-1-3-sources-4-
jar/org/antlr/codegen/templates/Python/Python.stg
No license file was found, but licenses were detected in source scan.

/*
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```

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```
*/
group AST;

/** Add an adaptor property that knows how to build trees */
@headerFile.members() ::= <<
/* @headerFile.members() */
pANTLR3_BASE_TREE_ADAPTOR adaptor;
pANTLR3_VECTOR_FACTORY vectors;
/* End @headerFile.members() */
>>

/** Install the tree adaptor interface pointer and anything else that
 * tree parsers and producers require.
 */
@genericParser.apifuncs() ::= <<
<if(PARSER)>
ADAPTOR = ANTLR3_TREE_ADAPTORNew(instream->tstream->tokenSource->strFactory);<\n>
<endif>
ctx->vectors = antlr3VectorFactoryNew(0);
>>

@genericParser.cleanup() ::= <<
ctx->vectors->close(ctx->vectors);
<if(PARSER)>
/* We created the adaptor so we must free it
 */
ADAPTOR->free(ADAPTOR);
<endif>
>>

@returnScope.ruleReturnMembers() ::= <<

<super.ASTLabelType()> tree;

>>

/** Add a variable to track rule's return AST */
ruleDeclarations() ::= <<
<super.ruleDeclarations()>
<ASTLabelType> root_0;<\n>
>>

ruleInitializations() ::= <<
<super.ruleInitializations()>
root_0 = NULL;<\n>
>>
```

```

ruleLabelDefs() ::= <<
<super.ruleLabelDefs()>
<ruleDescriptor.tokenLabels:{<ASTLabelType> <it.label.text>_tree;}; separator="\n">
<ruleDescriptor.tokenListLabels:{<ASTLabelType> <it.label.text>_tree;}; separator="\n">
<ruleDescriptor.allTokenRefsInAltsWithRewrites
: {pANTLR3_REWRITE_RULE_<rewriteElementType>_STREAM stream_<it>;}; separator="\n">
<ruleDescriptor.allRuleRefsInAltsWithRewrites
: {pANTLR3_REWRITE_RULE_SUBTREE_STREAM stream_<it>;}; separator="\n">
>>

```

```

/* Note that we defer the actual creation of any rewrite streams we need here and just initialize
* them to NULL. This saves creating huge numbers of rewrite streams that cannot be used as only
* one alt will be taken in a rule, but we are declaring all the streams here. So we define
* a macro that contains the create code, then use this macro later to check if the stream
* has been created yet. Checking for NULL is almost free in C.
*/

```

```

ruleLabelInitializations() ::= <<
<super.ruleLabelInitializations()>
<ruleDescriptor.tokenLabels:{<it.label.text>_tree = NULL;}; separator="\n">
<ruleDescriptor.tokenListLabels:{<it.label.text>_tree = NULL;}; separator="\n">

<ruleDescriptor.allTokenRefsInAltsWithRewrites
: {stream_<it> = NULL;
#define CREATE_stream_<it> if (stream_<it> == NULL) {stream_<it> =
antlr3RewriteRule<rewriteElementType>StreamNewAE(ADAPTOR, RECOGNIZER, (pANTLR3_UINT8)"token
<it>"); } }; separator="\n">
<ruleDescriptor.allRuleRefsInAltsWithRewrites
: {stream_<it> = NULL;
#define CREATE_stream_<it> if (stream_<it> == NULL) {stream_<it> =
antlr3RewriteRuleSubtreeStreamNewAE(ADAPTOR, RECOGNIZER, (pANTLR3_UINT8)"rule <it>"); }};
separator="\n">

<if(ruleDescriptor.hasMultipleReturnValues)>
retval.tree = NULL;
<endif>
>>

```

```

/** a rule label including default value */

```

```

ruleLabelInitVal(label) ::= <<
<super.ruleLabelInitVal(...)>
<label.label.text>.tree = <initValue(typeName=ruleLabelType(referencedRule=label.referencedRule))>;<\n>
>>

```

```

/** When doing auto AST construction, we must define some variables;
* These should be turned off if doing rewrites. This must be a "mode"
* as a rule could have both rewrite and AST within the same alternative
* block.
*/

```

```

@alt.declarations() ::= <<
<if(autoAST)>
<if(outerAlt)>
<endif>
<endif>
>>

@alt.initializations() ::= <<
<if(autoAST)>
<if(outerAlt)>
<if(!rewriteMode)>
root_0 = (<ASTLabelType>)(ADAPTOR->nilNode(ADAPTOR));<\n>
<endif>
<endif>
<endif>
>>

// Tracking Rule Elements
//
/** ID but track it for use in a rewrite rule */
tokenRefTrack(token,label,elementIndex,hetero) ::= <<
<tokenRefBang(...)> <! Track implies no auto AST construction!>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) { <endif>CREATE_stream_<token>;
stream_<token>->add(stream_<token>, <label>, NULL);<if(backtracking)> }<endif><\n>
>>

/** ids+=ID and track it for use in a rewrite rule; adds to ids *and*
 * to the tracking list stream_ID for use in the rewrite.
 */
tokenRefTrackAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRefTrack(...)>
<listLabel(elem=label,...)>
>>

/** ^(ID ...) track for rewrite */
tokenRefRuleRootTrack(token,label,elementIndex,hetero) ::= <<
<tokenRefBang(...)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) {<endif>CREATE_stream_<token>; stream_<token>-
>add(stream_<token>, <label>, NULL);<if(backtracking)> }<endif><\n>
>>

wildcardTrack(label,elementIndex) ::= <<
<super.wildcard(...)>
>>

/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<

```

```

<super.ruleRef(...)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) { <endif>CREATE_stream_<rule.name>;
stream_<rule.name>->add(stream_<rule.name>, <label>.tree, NULL);<if(backtracking)> }<endif>
>>

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefTrack(...)>
<listLabelTrack(...)>
>>

/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) { <endif>CREATE_stream_<rule.name>;
stream_<rule.name>->add(stream_<rule.name>, <label>.tree, NULL);<if(backtracking)> }<endif>
>>

/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRootTrack(...)>
<listLabelAST(...)>
>>

// RULE REF AST

/** Match ^(label+=TOKEN ...) track for rewrite */
tokenRefRuleRootTrackAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRefRuleRootTrack(...)>
<listLabel(elem=label,...)>
>>

/* How to accumulate lists when we are doing rewrite tracking...
*/
listLabelTrack(label) ::= <<
/* listLabelTrack(label)
*/
if (list_<label> == NULL)
{
list_<label>=ctx->vectors->newVector(ctx->vectors);
}
list_<label>->add(list_<label>, <label>.tree, NULL);
>>

```

```

/* How to accumulate lists of rule outputs (only allowed with AST
 * option but if the user is going to walk the tree, they will want
 * all their custom elements from rule returns.
 *
 * Normally, we use inline structures (which the compiler lays down
 * code to copy from heap allocations. However, here we want to accumulate copies
 * of the returned structures because we are adding them to a list. This only makes sense if the
 * grammar is not rewriting the tree as a tree rewrite only preserves the tree, not the object/structure
 * returned from the rule. The rewrite will extract the tree pointer. However, if we are not going to
 * do a tree re-write, then the user may wish to iterate the structures returned by the rule in
 * action code and will expect the user defined returns[] elements to be available when they do this.
 * Hence we cannot just preserve the tree that was returned. So, we must copy the local structure and provide
 * a function that can free the allocated space. We cannot know how to free user allocated elements and
 * presume that the user will know to do this using their own factories for the structures they allocate.
 */
listLabelAST(label) ::= <<
if (list_<label> == NULL)
{
 list_<label>=ctx->vectors->newVector(ctx->vectors);
}
{
 RETURN_TYPE_<label> * tcopy;

 tcopy = ANTLR3_MALLOC(sizeof(RETURN_TYPE_<label>)); /* Note no memory allocation checks! */
 ANTLR3_MEMCPY((void *)tcopy, (const void *)&<label>, sizeof(RETURN_TYPE_<label>));
 list_<label>->add(list_<label>, tcopy, freeScope); /* Add whatever the return type is */<n>
}
>>

// R e w r i t e

rewriteCode(
 alts,
 description,
 referencedElementsDeep, // ALL referenced elements to right of ->
 referencedTokenLabels,
 referencedTokenListLabels,
 referencedRuleLabels,
 referencedRuleListLabels,
 referencedWildcardLabels,
 referencedWildcardListLabels,
 rewriteBlockLevel,
 enclosingTreeLevel,
 treeLevel) ::=
<<

/* AST REWRITE
 * elements : <referencedElementsDeep; separator=", ">

```



```

* token labels : <referencedTokenLabels; separator=", ">
* rule labels : <referencedRuleLabels; separator=", ">
* token list labels : <referencedTokenListLabels; separator=", ">
* rule list labels : <referencedRuleListLabels; separator=", ">
*/
<if(backtracking)>
if (<actions.(actionScope).synpredgate>) <\n>
<endif>
{
<rewriteCodeLabelsDecl()>
<rewriteCodeLabelsInit()>
root_0 = (<ASTLabelType>)(ADAPTOR->nilNode(ADAPTOR));
<prevRuleRootRef()>.tree = root_0;
<alts:rewriteAlt(); separator="else ">
<if(TREE_PARSER)>
<if(rewriteMode)>
<prevRuleRootRef()>.tree = (<ASTLabelType>)(ADAPTOR->rulePostProcessing(ADAPTOR, root_0));
INPUT->replaceChildren(INPUT, ADAPTOR->getParent(ADAPTOR, retval.start),
 ADAPTOR->getChildIndex(ADAPTOR, retval.start),
 ADAPTOR->getChildIndex(ADAPTOR, _last),
 retval.tree);
<endif>
<endif>
<prevRuleRootRef()>.tree = root_0; // set result root
<rewriteCodeLabelsFree()>
}
>>

rewriteCodeLabelsDecl() ::= <<
<referencedTokenLabels
 :{pANTLR3_REWRITE_RULE_<rewriteElementType>_STREAM stream_<it>;};
 separator="\n"
>
<referencedTokenListLabels
 :{pANTLR3_REWRITE_RULE_<rewriteElementType>_STREAM stream_<it>;};
 separator="\n"
>
<referencedRuleLabels
 :{pANTLR3_REWRITE_RULE_SUBTREE_STREAM stream_<it>;};
 separator="\n"
>
<referencedRuleListLabels
 :{pANTLR3_REWRITE_RULE_SUBTREE_STREAM stream_<it>;};
 separator="\n"
>
>>

```

```

rewriteCodeLabelsInit() ::= <<
<referencedTokenLabels
:{ stream_<it>=antlr3RewriteRule<rewriteElementType>StreamNewAEE(ADAPTOR, RECOGNIZER,
(pANTLR3_UINT8)"token <it>", <it>);};
separator="\n"
>
<referencedTokenListLabels
:{ stream_<it>=antlr3RewriteRule<rewriteElementType>StreamNewAEV(ADAPTOR, RECOGNIZER,
(pANTLR3_UINT8)"token <it>", list_<it>); };
separator="\n"
>
<referencedRuleLabels
:{ stream_<it>=antlr3RewriteRuleSubtreeStreamNewAEE(ADAPTOR, RECOGNIZER,
(pANTLR3_UINT8)"token <it>", <it>.tree != NULL ? <it>.tree : NULL);};
separator="\n"
>
<referencedRuleListLabels
:{ stream_<it>=antlr3RewriteRuleSubtreeStreamNewAEV(ADAPTOR, RECOGNIZER,
(pANTLR3_UINT8)"token <it>", list_<it>);};
separator="\n"
>
>>
rewriteCodeLabelsFree() ::= <<
<referencedTokenLabels
:{ if (stream_<it> != NULL) stream_<it>->free(stream_<it>); };
separator="\n"
>
<referencedTokenListLabels
:{ if (stream_<it> != NULL) stream_<it>->free(stream_<it>);};
separator="\n"
>
<referencedRuleLabels
:{ if (stream_<it> != NULL) stream_<it>->free(stream_<it>);};
separator="\n"
>
<referencedRuleListLabels
:{ if (stream_<it> != NULL) stream_<it>->free(stream_<it>);};
separator="\n"
>
>>

/** Generate code for an optional rewrite block; note it uses the deep ref'd element
 * list rather shallow like other blocks.
 */
rewriteOptionalBlock(
alt,
rewriteBlockLevel,
referencedElementsDeep, // all nested refs

```

```

referencedElements, // elements in immediately block; no nested blocks
description) ::=
<<
// <fileName>:<description>
{
if (<referencedElementsDeep:{el | (stream_<el> != NULL && stream_<el>->hasNext(stream_<el>)) } ;
separator="|| ">)
{
<alt>
}
<referencedElementsDeep:{el | if (stream_<el> != NULL) stream_<el>->reset(stream_<el>);<n>}>
}<n>
}>>

rewriteClosureBlock(
alt,
rewriteBlockLevel,
referencedElementsDeep, // all nested refs
referencedElements, // elements in immediately block; no nested blocks
description) ::=
<<
// <fileName>:<description>
{
while (<referencedElements:{el | (stream_<el> != NULL && stream_<el>->hasNext(stream_<el>)) } ; separator="||
">)
{
<alt>
}
<referencedElements:{el | if (stream_<el> != NULL) stream_<el>->reset(stream_<el>);<n>}>
}<n>
}>>
RewriteEarlyExitException() ::=
<<
CONSTRUCTEX();
EXCEPTION->type = ANTLR3_REWRITE_EARLY_EXCEPTION;
EXCEPTION->name = (void *)ANTLR3_REWRITE_EARLY_EXCEPTION_NAME;
}>>
rewritePositiveClosureBlock(
alt,
rewriteBlockLevel,
referencedElementsDeep, // all nested refs
referencedElements, // elements in immediately block; no nested blocks
description) ::=
<<
if (<referencedElements:{el | (stream_<el> == NULL || !stream_<el>->hasNext(stream_<el>)) } ; separator="|| ">)
{
<RewriteEarlyExitException()>
}
}

```

```

else
{
while (<referencedElements:{el | (stream_<el>->hasNext(stream_<el>)) }; separator="|| ">) {
<alt>
}
<referencedElements:{el | stream_<el>->reset(stream_<el>);<\n>}>
}
>>

rewriteAlt(a) ::= <<
// <a.description>
<if(a.pred)>
if (<a.pred>)
{
<a.alt>
}<\n>
<else>
{
<a.alt>
}<\n>
<endif>
>>

/** For empty rewrites: "r : ... -> ;" */
rewriteEmptyAlt() ::= "root_0 = NULL; /* \<-- rewriteEmptyAlt() */"

rewriteTree(root,children,description,enclosingTreeLevel,treeLevel) ::= <<
// <fileName>:<description>
{
<ASTLabelType> root_<treeLevel> = (<ASTLabelType>)(ADAPTOR->nilNode(ADAPTOR));
<root:rewriteElement(>
<children:rewriteElement(>
ADAPTOR->addChild(ADAPTOR, root_<enclosingTreeLevel>, root_<treeLevel>);
}<\n>
>>

rewriteElementList(elements) ::= "<elements:rewriteElement(>"

rewriteElement(e) ::= <<
<@pregen(>
<e.el>
>>

/** Gen ID or ID[args] */
rewriteTokenRef(token,elementIndex,hetero,args) ::= <<
ADAPTOR->addChild(ADAPTOR, root_<treeLevel>, <createRewriteNodeFromElement(...)>);<\n>
<endif>
>>

```

```

/** Gen $label ... where defined via label=ID */
rewriteTokenLabelRef(label,elementIndex) ::= <<
ADAPTOR->addChild(ADAPTOR, root_<treeLevel>, stream_<label> == NULL ? NULL : stream_<label>-
>nextNode(stream_<label>));<\n>
>>

/** Gen $label ... where defined via label+=ID */
rewriteTokenListLabelRef(label,elementIndex) ::= <<
ADAPTOR->addChild(ADAPTOR, root_<treeLevel>, stream_<label> == NULL ? NULL : stream_<label>-
>nextNode(stream_<label>));<\n>
>>

/** Gen ^($label ...) */
rewriteTokenLabelRefRoot(label,elementIndex) ::= <<
root_<treeLevel> = (<ASTLabelType>)(ADAPTOR->becomeRootToken(ADAPTOR, stream_<label> == NULL ?
NULL : stream_<label>->nextToken(stream_<label>), root_<treeLevel>));<\n>
>>

/** Gen ^($label ...) where label+=... */
rewriteTokenListLabelRefRoot ::= rewriteTokenLabelRefRoot

/** Gen ^(ID ...) or ^(ID[args] ...) */
rewriteTokenRefRoot(token,elementIndex,hetero,args) ::= <<
root_<treeLevel> = (<ASTLabelType>)(ADAPTOR->becomeRoot(ADAPTOR,
<createRewriteNodeFromElement(...)>, root_<treeLevel>));<\n>
>>

rewriteImaginaryTokenRef(args,token,hetero,elementIndex) ::= <<
ADAPTOR->addChild(ADAPTOR, root_<treeLevel>, <createImaginaryNode(tokenType=token, ...)>);<\n>
>>

rewriteImaginaryTokenRefRoot(args,token,hetero,elementIndex) ::= <<
root_<treeLevel> = (<ASTLabelType>)(ADAPTOR->becomeRoot(ADAPTOR,
<createImaginaryNode(tokenType=token, ...)>, root_<treeLevel>));<\n>
>>

/** plain -> {foo} action */
rewriteAction(action) ::= <<
root_0 = <action>;<\n>
>>

/** What is the name of the previous value of this rule's root tree? This
* let's us refer to $rule to mean previous value. I am reusing the
* variable 'tree' sitting in retval struct to hold the value of root_0 right
* before I set it during rewrites. The assign will be to retval.tree.
*/
prevRuleRootRef() ::= "retval"

```

```

rewriteRuleRef(rule,dup) ::= <<
ADAPTOR->addChild(ADAPTOR, root_<treeLevel>, stream_<rule> == NULL ? NULL : stream_<rule>-
>nextTree(stream_<rule>));<\n>
>>

rewriteRuleRefRoot(rule,dup) ::= <<
root_<treeLevel> = (<ASTLabelType>)(ADAPTOR->becomeRoot(ADAPTOR, stream_<rule> == NULL ? NULL
: stream_<rule>->nextNode(stream_<rule>), root_<treeLevel>));<\n>
>>

rewriteNodeAction(action) ::= <<
ADAPTOR->addChild(ADAPTOR, root_<treeLevel>, <action>);<\n>
>>

rewriteNodeActionRoot(action) ::= <<
root_<treeLevel> = (<ASLabelType>)(ADAPTOR->becomeRoot(ADAPTOR, <action>, root_<treeLevel>));<\n>
>>

/** Gen $ruleLabel ... where defined via ruleLabel=rule */
rewriteRuleLabelRef(label) ::= <<
ADAPTOR->addChild(ADAPTOR, root_<treeLevel>, stream_<label> == NULL ? NULL : stream_<label>-
>nextTree(stream_<label>));<\n>
>>

/** Gen $ruleLabel ... where defined via ruleLabel+=rule */
rewriteRuleListLabelRef(label) ::= <<
ADAPTOR->addChild(ADAPTOR, root_<treeLevel>, stream_<label> == NULL ? NULL : stream_<label>-
>nextTree(stream_<label>));<\n>
>>

/** Gen ^($ruleLabel ...) where ruleLabel=rule */
rewriteRuleLabelRefRoot(label) ::= <<
root_<treeLevel> = (<ASTLabelType>)(ADAPTOR->becomeRoot(ADAPTOR, stream_<label> == NULL ? NULL
: stream_<label>->nextNode(stream_<label>), root_<treeLevel>));<\n>
>>

/** Gen ^($ruleLabel ...) where ruleLabel+=rule */
rewriteRuleListLabelRefRoot(label) ::= <<
root_<treeLevel> = (<ASTLabelType>)(ADAPTOR->becomeRoot((<ASTLabelType>)(stream_<label> == NULL
? NULL : stream_<label>->nextNode(stream_<label>), root_<treeLevel>));<\n>
>>

createImaginaryNode(tokenType,hetero,args) ::= <<
<if(hetero)>
<! new MethodNode(IDLabel, args) !>
<hetero>New(<tokenType><if(args)>, <args; separator=", "><endif>)
<else>

```

```

<if(args)>

#if <length(args)> == 2
 (<ASTLabelType>)ADAPTOR->createTypeTokenText(ADAPTOR, <tokenType>, TOKTEXT(<args; separator=",
 ">))
#else
 (<ASTLabelType>)ADAPTOR->createTypeText(ADAPTOR, <tokenType>, (pANTLR3_UINT8)<args;
 separator=", ">)
#endif

<else>
 (<ASTLabelType>)ADAPTOR->createTypeText(ADAPTOR, <tokenType>, (pANTLR3_UINT8)"<tokenType>")
<endif>
<endif>
>>

createRewriteNodeFromElement(token,hetero,args) ::= <<
 <if(hetero)>
 <hetero>New(stream_<token>->nextToken(stream_<token>)<if(args)>, <args; separator=", "><endif>)
 <else>
 <if(args)> <! must create new node from old !>
 #endif

#if <length(args)> == 2
 ADAPTOR->createTypeTokenText(ADAPTOR, <token>->getType(<token>, TOKTEXT(<token>, <args;
 separator=", ">)) /* JIMI */
#else
 ADAPTOR->createTypeToken(ADAPTOR, <token>->getType(<token>, <token>, <args; separator=", ">)
 #endif

<else>
 stream_<token> == NULL ? NULL : stream_<token>->nextNode(stream_<token>)
<endif>
<endif>
>>

```

Found in path(s):

\* /opt/cola/permits/1204005060\_1631853129.56/0/antlr-3-1-3-sources-4-jar/org/antlr/codegen/templates/C/AST.stg

No license file was found, but licenses were detected in source scan.

/\*

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\*/

/\*\* Templates for building ASTs during tree parsing.

\*

- \* Deal with many combinations. Dimensions are:
- \* Auto build or rewrite
- \* no label, label, list label (label/no-label handled together)
- \* child, root
- \* token, set, rule, wildcard

\*

- \* Each combination has its own template except that label/no label
- \* is combined into tokenRef, ruleRef, ...

\*/

group ASTTreeParser;

```
finishedBacktracking(block) ::= <<
<if(backtracking)>
if <actions.(actionScope).synpredgate>:
 <block>
<else>
<block>
<endif>
>>
```

/\*\* Add a variable to track last element matched \*/

```
ruleDeclarations() ::= <<
<super.ruleDeclarations()>
_first_0 = None
_last = None<\n>
>>
```



```

/** What to emit when there is no rewrite rule. For auto build
 * mode, does nothing.
 */
noRewrite(rewriteBlockLevel, treeLevel) ::= <<
<finishedBacktracking({
<if(rewriteMode)>
retval.tree = _first_0
if self._adaptor.getParent(retval.tree) is not None and self._adaptor.isNil(self._adaptor.getParent(retval.tree)):
 retval.tree = self._adaptor.getParent(retval.tree)
<endif>
})>
>>

/** match ^(root children) in tree parser; override here to
 * add tree construction actions.
 */
tree(root, actionsAfterRoot, children, nullableChildList,
 enclosingTreeLevel, treeLevel) ::= <<
_last = self.input.LT(1)
_save_last_<treeLevel> = _last
first<treeLevel> = None
<if(!rewriteMode)>
root_<treeLevel> = self._adaptor.nil()<\n>
<endif>
<root:element()>
<if(rewriteMode)>
<finishedBacktracking({
<if(root.el.rule)>
if _first_<enclosingTreeLevel> is None:
 first<enclosingTreeLevel> = <root.el.label>.tree<\n>
<else>
if _first_<enclosingTreeLevel> is None:
 first<enclosingTreeLevel> = <root.el.label><\n>
<endif>
})>
<endif>
<actionsAfterRoot:element()>
<if(nullableChildList)>
if self.input.LA(1) == DOWN:
 self.match(self.input, DOWN, None)
 <children:element()>
 self.match(self.input, UP, None)
<else>
self.match(self.input, DOWN, None)
<children:element()>
self.match(self.input, UP, None)<\n>
<endif>

```

```

<if(!rewriteMode)>
self._adaptor.addChild(root_<enclosingTreeLevel>, root_<treeLevel>)<\n>
<endif>
_last = _save_last_<treeLevel>

>>

// TOKEN AST STUFF

/** ID! and output=AST (same as plain tokenRef) 'cept add
 * setting of _last
 */
tokenRefBang(token,label,elementIndex) ::= <<
_last = self.input.LT(1)
<super.tokenRef(...)>
>>

/** ID auto construct */
tokenRef(token,label,elementIndex,hetero) ::= <<
_last = self.input.LT(1)
<super.tokenRef(...)>
<if(!rewriteMode)>
<finishedBacktracking({
<if(hetero)>
<label>_tree = <hetero>(<label>)
<else>
<label>_tree = self._adaptor.dupNode(<label>)
<endif><\n>
self._adaptor.addChild(root_<treeLevel>, <label>_tree)
})>
<else> <! rewrite mode !>
<finishedBacktracking({
if _first_<treeLevel> is None:
first<treeLevel> = <label><\n>
})>
<endif>
>>

/** label+=TOKEN auto construct */
tokenRefAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRef(...)>
<listLabel(elem=label,...)>
>>

/** ^(ID ...) auto construct */
tokenRefRuleRoot(token,label,elementIndex,hetero) ::= <<
_last = self.input.LT(1)
<super.tokenRef(...)>

```

```

<if(!rewriteMode)>
<finishedBacktracking({
<if(hetero)>
<label>_tree = <hetero>(<label>)
<else>
<label>_tree = self._adaptor.dupNode(<label>)
<endif><\n>
root_<treeLevel> = self._adaptor.becomeRoot(<label>_tree, root_<treeLevel>)
})>
<endif>
>>

```

```

/** Match ^(label+=TOKEN ...) auto construct */
tokenRefRuleRootAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRefRuleRoot(...)>
<listLabel(elem=label,...)>
>>

```

```

/** Match . wildcard and auto dup the node/subtree */
wildcard(token,label,elementIndex,hetero) ::= <<
_last = self.input.LT(1)
<super.wildcard(...)>
<if(!rewriteMode)>
<finishedBacktracking({
<label>_tree = self._adaptor.dupTree(<label>)
self._adaptor.addChild(root_<treeLevel>, <label>_tree)
})>
<else> <! rewrite mode !>
<finishedBacktracking({
if _first_<treeLevel> is None:
first<treeLevel> = <label>
})>
<endif>
>>

```

```

// SET AST
matchSet(s,label,hetero,elementIndex,postmatchCode) ::= <<
_last = self.input.LT(1)
<super.matchSet(..., postmatchCode={
<if(!rewriteMode)>
<finishedBacktracking({
<if(hetero)>
<label>_tree = <hetero>(<label>)
<else>
<label>_tree = self._adaptor.dupNode(<label>)
<endif><\n>
self._adaptor.addChild(root_<treeLevel>, <label>_tree)
})>

```

```

<endif>
})>
>>

matchRuleBlockSet(s,label,hetero,elementIndex,postmatchCode,treeLevel="0") ::= <<
<matchSet(...)>
<noRewrite()> <! set return tree !>
>>

matchSetBang(s,label,elementIndex,postmatchCode) ::= <<
_last = self.input.LT(1)
<super.matchSet(...)>
>>

matchSetRuleRoot(s,label,hetero,elementIndex,debug) ::= <<
<super.matchSet(..., postmatchCode={
<if(!rewriteMode)>
<finishedBacktracking({
<if(hetero)>
<label>_tree = <hetero><label>
<else>
<label>_tree = self._adaptor.dupNode(<label>)
<endif><\n>
root_<treeLevel> = self._adaptor.becomeRoot(<label>_tree, root_<treeLevel>)
})>
<endif>
})>
>>

// RULE REF AST

/** rule auto construct */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
_last = self.input.LT(1)
<super.ruleRef(...)>
<finishedBacktracking({
<if(!rewriteMode)>
self._adaptor.addChild(root_<treeLevel>, <label>.tree)
<else> <! rewrite mode !>
if _first_<treeLevel> is None:
first<treeLevel> = <label>.tree<\n>
<endif>
})>
>>

/** x+=rule auto construct */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>

```

```

<listLabel(elem=label+".tree",...)>
>>

/** ^(rule ...) auto construct */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
 _last = self.input.LT(1)
 <super.ruleRef(...)>
 <if(!rewriteMode)>
 <finishedBacktracking({
 root_<treeLevel> = self._adaptor.becomeRoot(<label>.tree, root_<treeLevel>)
 })>
 <endif>
>>

/** ^(x+=rule ...) auto construct */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
 <ruleRefRuleRoot(...)>
 <listLabel(elem=label+".tree",...)>
>>

/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
 _last = self.input.LT(1)
 <super.ruleRefTrack(...)>
>>

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
 _last = self.input.LT(1)
 <super.ruleRefTrackAndListLabel(...)>
>>

/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
 _last = self.input.LT(1)
 <super.ruleRefRootTrack(...)>
>>

/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
 _last = self.input.LT(1)
 <super.ruleRefRuleRootTrackAndListLabel(...)>
>>

/** Streams for token refs are tree nodes now; override to
 * change nextToken to nextNode.
 */
createRewriteNodeFromElement(token,hetero,scope) ::= <<

```

```

<if(hetero)>
<hetero>(stream_<token>.nextNode())
<else>
stream_<token>.nextNode()
<endif>
>>

ruleCleanUp() ::= <<
<super.ruleCleanUp()>
<if(!rewriteMode)>
<finishedBacktracking({
retval.tree = self._adaptor.rulePostProcessing(root_0)
})>
<endif>
>>

```

Found in path(s):

```
* /opt/cola/permits/1204005060_1631853129.56/0/antlr-3-1-3-sources-4-
jar/org/antlr/codegen/templates/Python/ASTTreeParser.stg
```

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```
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```
*/
```

```

group ASTTreeParser;

/** match ^(root children) in tree parser; override here to
 * add tree construction actions.
 */
tree(root, actionsAfterRoot, children, nullableChildList,
 enclosingTreeLevel, treeLevel) ::= <<
{
 <ASTLabelType> root_<treeLevel> = [treeAdaptor newEmptyTree];
 <root:element()>
 <actionsAfterRoot:element()>
 <if(nullableChildList)>
 if ([input LA:1] == ANTLRTokenTypeDOWN) {
 [self match:input tokenType:ANTLRTokenTypeDOWN follow:nil]; <checkRuleBacktrackFailure()>
 <children:element()>
 [self match:input tokenType:ANTLRTokenTypeUP follow:nil]; <checkRuleBacktrackFailure()>
 }
 <else>
 [self match:input tokenType:ANTLRTokenTypeDOWN follow:nil]; <checkRuleBacktrackFailure()>
 <children:element()>
 [self match:input tokenType:ANTLRTokenTypeUP follow:nil]; <checkRuleBacktrackFailure()>
 <endif>
 [root_<treeLevel> release];
}<\n>
>>

/** What to emit when there is no rewrite. For auto build
 * mode, does nothing.
 */
noRewrite(rewriteBlockLevel, treeLevel) ::= <<
<if(rewriteMode)>retval.tree = (<ASTLabelType>)retval.start;<endif>
>>

// TOKEN AST STUFF

/** ID auto construct */
tokenRef(token,label,elementIndex) ::= <<
<super.tokenRef(...)>
<if(backtracking)>if (state.backtracking==0) {<endif>
<label>_tree = (<ASTLabelType>)adaptor.dupNode(<label>);
adaptor.addChild(root_<treeLevel>, <label>_tree);
<if(backtracking)>}<endif>
>>

/** label+=TOKEN auto construct */
tokenRefAndListLabel(token,label,elementIndex) ::= <<
<tokenRef(...)>
<listLabel(elem=label,...)>

```

```

>>

/** ^(ID ...) auto construct */
tokenRefRuleRoot(token,label,elementIndex) ::= <<
<super.tokenRef(...)>
<if(backtracking)>if (state.backtracking==0) {<endif>
<label>_tree = (<ASTLabelType>)adaptor.dupNode(<label>);
root_<treeLevel> = (<ASTLabelType>)adaptor.becomeRoot(<label>_tree, root_<treeLevel>);
<if(backtracking)>}<endif>
>>

/** Match ^(label+=TOKEN ...) auto construct */
tokenRefRuleRootAndListLabel(token,label,elementIndex) ::= <<
<tokenRefRuleRoot(...)>
<listLabel(elem=label,...)>
>>

// RULE REF AST

/** rule auto construct */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(...)>
<if(backtracking)>if (state.backtracking==0) <endif>adaptor.addChild(root_<treeLevel>, <label>.getTree());
>>

/** x+=rule auto construct */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>
<listLabel(elem=label+".getTree()",...)>
>>

/** ^(rule ...) auto construct */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(...)>
<if(backtracking)>if (state.backtracking==0) <endif>root_<treeLevel> =
(<ASTLabelType>)adaptor.becomeRoot(<label>.getTree(), root_<treeLevel>);
>>

/** ^(x+=rule ...) auto construct */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...)>
<listLabel(elem=label+".getTree()",...)>
>>

/** Streams for token refs are tree nodes now; override to
* change nextToken to nextNode.
*/
createRewriteNodeFromElement(token,hetero,scope) ::= <<

```



```
#error Heterogeneous tree support not implemented.
```

```
<if(hetero)>
new <hetero>(stream_<token>.nextNode())
<else>
stream_<token>.nextNode()
<endif>
>>
```

Found in path(s):

```
* /opt/cola/permits/1204005060_1631853129.56/0/antlr-3-1-3-sources-4-
jar/org/antlr/codegen/templates/ObjC/ASTTreeParser.stg
```

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```

```
*/
```

```
group AST;
```

```
@outputFile.imports() ::= <<
```

```
<@super.imports()><if(!TREE_PARSER)><! tree parser would already have imported !>
```

```
Antlr.Runtime.Tree,<\n><endif>
```

>>

```
@genericParser.members() ::= <<
<@super.members()>
<parserMembers()>
>>
```

```
@genericParser.membersConstructor() ::= <<
<@super.membersConstructor()>
<parserMembersConstructor()>
>>
```

```
@genericParser.membersImplementation() ::= <<
<@super.membersImplementation()>
<parserMembersImplementation()>
>>
```

```
/** Add an adaptor property that knows how to build trees */
parserMembers() ::= <<
 strict protected
 FAdaptor: ITreeAdaptor;
 procedure SetAdaptor(const Value: ITreeAdaptor);
 property Adaptor: ITreeAdaptor read FAdaptor;
 public
 property TreeAdaptor: ITreeAdaptor read FAdaptor write SetAdaptor;
>>
```

```
parserMembersConstructor() ::= <<
 FAdaptor := TCommonTreeAdaptor.Create;
>>
```

```
parserMembersImplementation() ::= <<
 procedure T<grammar.recognizerName>.SetAdaptor(const Value: ITreeAdaptor);
 begin
 FAdaptor := Value;
 <grammar.directDelegates: {g|<g:delegateName()>.TreeAdaptor := FAdaptor;}>
 end;
>>
```

```
@returnScope.ruleReturnMembers() ::= <<
 function T<grammar.recognizerName>.T<ruleDescriptor:returnStructName()>.GetTree: IANTLRInterface;
 begin
 Result := FTree;
 end;
```

```
 procedure T<grammar.recognizerName>.T<ruleDescriptor:returnStructName()>.SetTree(const Value:
 IANTLRInterface);
```

```

begin
 FTree := Value as I<ASTLabelType>;
end;
>>

@returnScopeDeclaration.ruleReturnMembers() ::= <<
strict private
 FTree: I<ASTLabelType>;
protected
 { IRuleReturnScope }
 function GetTree: IANTLRInterface; override;
 procedure SetTree(const Value: IANTLRInterface); override;
>>

/** Add a variable to track rule's return AST */
ruleDeclarations() ::= <<
<super.ruleDeclarations()>
Root[0] := nil;<\n>
>>

ruleDeclarationVars() ::= <<
<super.ruleDeclarationVars()>
Root: array [0..63] of I<ASTLabelType>;
>>

ruleLabelDefs() ::= <<
<super.ruleLabelDefs()>
<ruleDescriptor.tokenLabels: {<it.label.text>_tree := nil;}; separator="\n">
<ruleDescriptor.tokenListLabels: {<it.label.text>_tree := nil;}; separator="\n">
<ruleDescriptor.allTokenRefsInAltsWithRewrites: {Locals['Stream_<it>'] :=
TRewriteRule<rewriteElementType>Stream.Create(Adaptor,'token <it>');}; separator="\n">
<ruleDescriptor.allRuleRefsInAltsWithRewrites: {Locals['Stream_<it>'] :=
TRewriteRuleSubtreeStream.Create(Adaptor,'rule <it>');}; separator="\n">
>>

ruleLabelDefVars() ::= <<
<super.ruleLabelDefVars()>
<ruleDescriptor.tokenLabels: {<it.label.text>_tree: I<ASTLabelType>;}; separator="\n">
<ruleDescriptor.tokenListLabels: {<it.label.text>_tree: I<ASTLabelType>;}; separator="\n">
>>
/** When doing auto AST construction, we must define some variables;
 * These should be turned off if doing rewrites. This must be a "mode"
 * as a rule could have both rewrite and AST within the same alternative
 * block.
 */
@alt.declarations() ::= <<
<if(autoAST)>
<if(outerAlt)>

```

```

<if(!rewriteMode)>
Root[0] := Adaptor.GetNilNode as I<ASTLabelType>;
<endif>
<endif>
<endif>
>>

// Tracking Rule Elements

/** ID and track it for use in a rewrite rule */
tokenRefTrack(token,label,elementIndex,hetero) ::= <<
<tokenRefBang(...)> <! Track implies no auto AST construction!>
<if(backtracking)>if (State.Backtracking = 0) then <endif>(Locals['Stream_<token>'] as
IRewriteRuleElementStream).Add(<label>);<\n>
>>

/** ids+=ID and track it for use in a rewrite rule; adds to ids *and*
* to the tracking list stream_ID for use in the rewrite.
*/
tokenRefTrackAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRefTrack(...)>
<listLabel(elem=label,...)>
>>

/** ^(ID ...) track for rewrite */
tokenRefRuleRootTrack(token,label,elementIndex,hetero) ::= <<
<tokenRefBang(...)>
<if(backtracking)>if (State.Backtracking = 0) then <endif>(Locals['Stream_<token>'] as
IRewriteRuleElementStream).Add(<label>);<\n>
>>

/** Match ^(label+=TOKEN ...) track for rewrite */
tokenRefRuleRootTrackAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRefRuleRootTrack(...)>
<listLabel(elem=label,...)>
>>

wildcardTrack(label,elementIndex) ::= <<
<super.wildcard(...)>
>>

/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(...)>
<if(backtracking)>if (State.Backtracking = 0) then <endif>(Locals['Stream_<rule.name>'] as
IRewriteRuleElementStream).Add(<label>.Tree);<\n>
>>

```

```

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefTrack(...)>
<listLabel(elem=label+".Tree",...)>
>>

/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...)>
<if(backtracking)>if (State.Backtracking = 0) then <endif>(Locals['Stream_<rule>'] as
IRewriteRuleElementStream).Add(<label>.Tree);
>>

/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRootTrack(...)>
<listLabel(elem=label+".Tree",...)>
>>

// R e w r i t e

rewriteCode(
alts, description,
referencedElementsDeep, // ALL referenced elements to right of ->
referencedTokenLabels,
referencedTokenListLabels,
referencedRuleLabels,
referencedRuleListLabels,
referencedWildcardLabels,
referencedWildcardListLabels,
rewriteBlockLevel, enclosingTreeLevel, treeLevel) ::=
<<

// AST REWRITE
// elements: <referencedElementsDeep; separator=", ">
// token labels: <referencedTokenLabels; separator=", ">
// rule labels: <referencedRuleLabels; separator=", ">
// token list labels: <referencedTokenListLabels; separator=", ">
// rule list labels: <referencedRuleListLabels; separator=", ">
<if(backtracking)>
if (State.Backtracking = 0) then
begin<\n>
<endif>
<prevRuleRootRef()>.Tree := Root[0];
<rewriteCodeLabels()>
Root[0] := Adaptor.GetNilNode as I<ASTLabelType>;
<alts:rewriteAlt(); separator="else ">
<! if tree parser and rewrite=true !>

```

```

<if(TREE_PARSER)>
<if(rewriteMode)>
<prevRuleRootRef(>.Tree = (<ASTLabelType>)adaptor.rulePostProcessing(root[0]);
input.ReplaceChildren(adaptor.GetParent(retval.Start),
 adaptor.GetChildIndex(retval.Start),
 adaptor.GetChildIndex(_last),
 retval.Tree);
<endif>
<endif>
<! if parser or rewrite!=true, we need to set result !>
<if(!TREE_PARSER)>
<prevRuleRootRef(>.Tree := Root[0];<\n>
<endif>
<if(!rewriteMode)>
<prevRuleRootRef(>.Tree := Root[0];<\n>
<endif>
<if(backtracking)>
end;
<endif>
>>

rewriteCodeLabels() ::= <<
<referencedTokenLabels
 :{Locals['Stream_<it>'] := TRewriteRule<rewriteElementType>Stream.Create(Adaptor, 'token <it>', <it>);};
 separator="\n"
>
<referencedTokenListLabels
 :{Locals['Stream_<it>'] := TRewriteRule<rewriteElementType>Stream.Create(Adaptor, 'token <it>', list_<it>);};
 separator="\n"
>
<referencedRuleLabels:{
if Assigned(<it>) then
 Locals['Stream_<it>'] := TRewriteRuleSubtreeStream.Create(Adaptor, 'token <it>', <it>.Tree)
else
 Locals['Stream_<it>'] := TRewriteRuleSubtreeStream.Create(Adaptor, 'token <it>', nil);}; separator="\n">
<referencedRuleListLabels
 :{Locals['Stream_<it>'] := TRewriteRuleSubtreeStream.Create(Adaptor, 'token <it>', list_<it>);};
 separator="\n"
>
>>

/** Generate code for an optional rewrite block; note it uses the deep ref'd element
 * list rather shallow like other blocks.
 */
rewriteOptionalBlock(
 alt,rewriteBlockLevel,
 referencedElementsDeep, // all nested refs
 referencedElements, // elements in immediately block; no nested blocks

```

```

description) ::=
<<
(* <fileName>:<description> *)
if (<referencedElementsDeep:{el | (Locals['Stream_<el>'] as IRewriteRuleElementStream).HasNext}; separator="
or ">) then
begin
 <alt>
end;
<referencedElementsDeep:{el | (Locals['Stream_<el>'] as IRewriteRuleElementStream).Reset();<\n>}>
>>

rewriteClosureBlock(
 alt,rewriteBlockLevel,
 referencedElementsDeep, // all nested refs
 referencedElements, // elements in immediately block; no nested blocks
 description) ::=
<<
(* <fileName>:<description> *)
while (<referencedElements:{el | (Locals['Stream_<el>'] as IRewriteRuleElementStream).HasNext}; separator=" or
">) do
begin
 <alt>
end;
<referencedElements:{el | (Locals['Stream_<el>'] as IRewriteRuleElementStream).Reset();<\n>}>
>>

rewritePositiveClosureBlock(
 alt,rewriteBlockLevel,
 referencedElementsDeep, // all nested refs
 referencedElements, // elements in immediately block; no nested blocks
 description) ::=
<<
if (not (<referencedElements:{el | (Locals['Stream_<el>'] as IRewriteRuleElementStream).HasNext}; separator=" or
">)) then
 raise ERewriteEarlyExitException.Create("");

while (<referencedElements:{el | (Locals['Stream_<el>'] as IRewriteRuleElementStream).HasNext}; separator=" or
">) do
begin
 <alt>
end;
<referencedElements:{el | (Locals['Stream_<el>'] as IRewriteRuleElementStream).Reset();<\n>}>
>>

rewriteAlt(a) ::= <<
(* <a.description> *)
<if(a.pred)>
if (<a.pred>) then

```

```

begin
 <a.alt>
end<\n>
<else>
begin
 <a.alt>
end;<\n>
<endif>
>>

/** For empty rewrites: "r : ... -> ;" */
rewriteEmptyAlt() ::= "Root[0] = null;"

rewriteTree(root,children,description,enclosingTreeLevel,treeLevel) ::= <<
(* <fileName>:<description> *)
begin
 Root[<treeLevel>] := Adaptor.GetNilNode as I<ASTLabelType>;
 <root:rewriteElement()>
 <children:rewriteElement()>
 Adaptor.AddChild(Root[<enclosingTreeLevel>], Root[<treeLevel>]);
end;<\n>
>>

rewriteElementList(elements) ::= "<elements:rewriteElement()>"

rewriteElement(e) ::= <<
<@pregen()>
<e.el>
>>

/** Gen ID or ID[args] */
rewriteTokenRef(token,elementIndex,hetero,args) ::= <<
Adaptor.AddChild(Root[<treeLevel>], <createRewriteNodeFromElement(...)>);<\n>
>>

/** Gen $label ... where defined via label=ID */
rewriteTokenLabelRef(label,elementIndex) ::= <<
Adaptor.AddChild(Root[<treeLevel>], (Locals['Stream_<label>'] as
IRewriteRuleElementStream).NextNode());<\n>
>>

/** Gen $label ... where defined via label+=ID */
rewriteTokenListLabelRef(label,elementIndex) ::= <<
Adaptor.AddChild(Root[<treeLevel>], (Locals['Stream_<label>'] as IRewriteRuleElementStream).NextNode());<\n>
>>

/** Gen ^($label ...) */
rewriteTokenLabelRefRoot(label,elementIndex) ::= <<

```



```

Root[<treeLevel>] := Adaptor.BecomeRoot((Locals['Stream_<label>'] as
IRewriteRuleElementStream).NextNode(), Root[<treeLevel>]) as I<ASTLabelType>;<\n>
>>

/** Gen ^($label ...) where label+=... */
rewriteTokenListLabelRefRoot ::= rewriteTokenLabelRefRoot

/** Gen ^(ID ...) or ^(ID[args] ...) */
rewriteTokenRefRoot(token,elementIndex,hetero,args) ::= <<
Root[<treeLevel>] := Adaptor.BecomeRoot(<createRewriteNodeFromElement(...)>, Root[<treeLevel>]) as
I<ASTLabelType>;<\n>
>>

rewriteImaginaryTokenRef(args,token,hetero,elementIndex) ::= <<
Adaptor.AddChild(Root[<treeLevel>], <createImaginaryNode(tokenType=token, ...)>;<\n>
>>

rewriteImaginaryTokenRefRoot(args,token,hetero,elementIndex) ::= <<
Root[<treeLevel>] := Adaptor.BecomeRoot(<createImaginaryNode(tokenType=token, ...)>, Root[<treeLevel>]) as
I<ASTLabelType>;<\n>
>>

/** plain -> {foo} action */
rewriteAction(action) ::= <<
Root[0] = <action>;<\n>
>>

/** What is the name of the previous value of this rule's root tree? This
* let's us refer to $rule to mean previous value. I am reusing the
* variable 'tree' sitting in retval struct to hold the value of Root[0] right
* before I set it during rewrites. The assign will be to retval.Tree.
*/
prevRuleRootRef() ::= "RetVal"

rewriteRuleRef(rule) ::= <<
Adaptor.AddChild(Root[<treeLevel>], (Locals['Stream_<rule>'] as IRewriteRuleElementStream).NextTree());<\n>
>>

rewriteRuleRefRoot(rule) ::= <<
Root[<treeLevel>] := Adaptor.BecomeRoot((Locals['Stream_<rule>'] as IRewriteRuleElementStream).NextNode,
Root[<treeLevel>]) as I<ASTLabelType>;<\n>
>>

rewriteNodeAction(action) ::= <<
Adaptor.AddChild(Root[<treeLevel>], <action>;<\n>
>>

rewriteNodeActionRoot(action) ::= <<

```

```

Root[<treeLevel>] := Adaptor.BecomeRoot(<action>, Root[<treeLevel>]) as I<ASTLabelType>;<\n>
>>

/** Gen $ruleLabel ... where defined via ruleLabel=rule */
rewriteRuleLabelRef(label) ::= <<
Adaptor.AddChild(Root[<treeLevel>], (Locals['Stream_<label>'] as IRewriteRuleElementStream).NextTree());<\n>
>>

/** Gen $ruleLabel ... where defined via ruleLabel+=rule */
rewriteRuleListLabelRef(label) ::= <<
Adaptor.AddChild(Root[<treeLevel>], (Locals['Stream_<label>'] as IRewriteRuleElementStream).NextTree());<\n>
>>

/** Gen ^($ruleLabel ...) where ruleLabel=rule */
rewriteRuleLabelRefRoot(label) ::= <<
Root[<treeLevel>] := Adaptor.BecomeRoot((Locals['Stream_<label>'] as IRewriteRuleElementStream).NextNode,
Root[<treeLevel>]) as I<ASTLabelType>;<\n>
>>

/** Gen ^($ruleLabel ...) where ruleLabel+=rule */
rewriteRuleListLabelRefRoot(label) ::= <<
Root[<treeLevel>] := Adaptor.BecomeRoot((Locals['Stream_<label>'] as IRewriteRuleElementStream).NextNode,
Root[<treeLevel>]) as I<ASTLabelType>;<\n>
>>

createImaginaryNode(tokenType,hetero,args) ::= <<
<if(hetero)>
<! new MethodNode(IDLabel, args) !>
T<hetero>.Create(<tokenType><if(args)>, <args; separator=", "><endif>)
<else>
Adaptor.CreateNode(<tokenType>, <args; separator=", "><if(!args)>'<tokenType>'<endif>) as I<ASTLabelType>
<endif>
>>

createRewriteNodeFromElement(token,hetero,args) ::= <<
<if(hetero)>
T<hetero>.Create((Locals['Stream_<token>'] as IRewriteRuleElementStream).NextToken<if(args)>, <args;
separator=", "><endif>)
<else>
<if(args)> <! must create new node from old !>
Adaptor.Create(<token>, <args; separator=", ">)
<else>
(Locals['Stream_<token>'] as IRewriteRuleElementStream).NextNode
<endif>
<endif>
>>

```

Found in path(s):

```
* /opt/cola/permits/1204005060_1631853129.56/0/antlr-3-1-3-sources-4-
jar/org/antlr/codegen/templates/Delphi/AST.stg
```

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```

```
*/
```

```
/** Templates for building ASTs during tree parsing.
```

```
*
```

```
* Deal with many combinations. Dimensions are:
```

```
* Auto build or rewrite
```

```
* no label, label, list label (label/no-label handled together)
```

```
* child, root
```

```
* token, set, rule, wildcard
```

```
*
```

```
* Each combination has its own template except that label/no label
```

```
* is combined into tokenRef, ruleRef, ...
```

```
*/
```

```
group ASTTreeParser;
```

```
/** Add a variable to track last element matched */
```

```
ruleDeclarations() ::= <<
```

```
<super.ruleDeclarations()>
```

```

<ASTLabelType> _first_0 = null;
<ASTLabelType> _last = null;<\n>
>>

/** What to emit when there is no rewrite rule. For auto build
 * mode, does nothing.
 */
noRewrite(rewriteBlockLevel, treeLevel) ::= <<
<if(backtracking)>if (<actions.(actionScope).synpredgate>) {<endif>
<if(rewriteMode)>
retval.tree = (<ASTLabelType>)_first_0;
if (adaptor.getParent(retval.tree)!=null && adaptor.isNil(adaptor.getParent(retval.tree)))
 retval.tree = (<ASTLabelType>)adaptor.getParent(retval.tree);
<endif>
<if(backtracking)>}<endif>
>>

/** match ^(root children) in tree parser; override here to
 * add tree construction actions.
 */
tree(root, actionsAfterRoot, children, nullableChildList,
 enclosingTreeLevel, treeLevel) ::= <<
_last = (<ASTLabelType>)input.LT(1);
{
<ASTLabelType> _save_last_<treeLevel> = _last;
<ASTLabelType> _first_<treeLevel> = null;
<if(!rewriteMode)>
<ASTLabelType> root_<treeLevel> = (<ASTLabelType>)adaptor.nil();
<endif>
<root:element()>
<if(rewriteMode)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>)<endif>
<if(root.el.rule)>
if (_first_<enclosingTreeLevel>==null) _first_<enclosingTreeLevel> = <root.el.label>.tree;
<else>
if (_first_<enclosingTreeLevel>==null) _first_<enclosingTreeLevel> = <root.el.label>;
<endif>
<endif>
<actionsAfterRoot:element()>
<if(nullableChildList)>
if (input.LA(1)==Token.DOWN) {
 match(input, Token.DOWN, null); <checkRuleBacktrackFailure()>
 <children:element()>
 match(input, Token.UP, null); <checkRuleBacktrackFailure()>
}
<else>
match(input, Token.DOWN, null); <checkRuleBacktrackFailure()>
<children:element()>

```

```

match(input, Token.UP, null); <checkRuleBacktrackFailure()>
<endif>
<if(!rewriteMode)>
adaptor.addChild(root_<enclosingTreeLevel>, root_<treeLevel>);
<endif>
_last = _save_last_<treeLevel>;
}<\n>
>>

// TOKEN AST STUFF

/** ID! and output=AST (same as plain tokenRef) 'cept add
 * setting of _last
 */
tokenRefBang(token,label,elementIndex) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.tokenRef(...)>
>>

/** ID auto construct */
tokenRef(token,label,elementIndex,hetero) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.tokenRef(...)>
<if(!rewriteMode)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) {<endif>
<if(hetero)>
<label>_tree = new <hetero>(<label>);
<else>
<label>_tree = (<ASTLabelType>)adaptor.dupNode(<label>);
<endif><\n>
adaptor.addChild(root_<treeLevel>, <label>_tree);
<if(backtracking)>}<endif>
<else> <! rewrite mode !>
<if(backtracking)>if (<actions.(actionScope).synpredgate>)<endif>
if (_first_<treeLevel>==null) _first_<treeLevel> = <label>;
<endif>
>>

/** label+=TOKEN auto construct */
tokenRefAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRef(...)>
<listLabel(elem=label,...)>
>>

/** ^(ID ...) auto construct */
tokenRefRuleRoot(token,label,elementIndex,hetero) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.tokenRef(...)>

```

```

<if(!rewriteMode)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) {<endif>
<if(hetero)>
<label>_tree = new <hetero>(<label>);
<else>
<label>_tree = (<ASTLabelType>)adaptor.dupNode(<label>);
<endif><\n>
root_<treeLevel> = (<ASTLabelType>)adaptor.becomeRoot(<label>_tree, root_<treeLevel>);
<if(backtracking)>}<endif>
<endif>
>>

```

```

/** Match ^(label+=TOKEN ...) auto construct */
tokenRefRuleRootAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRefRuleRoot(...)>
<listLabel(elem=label,...)>
>>

```

```

/** Match . wildcard and auto dup the node/subtree */
wildcard(token,label,elementIndex,hetero) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.wildcard(...)>
<if(!rewriteMode)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) {<endif>
<label>_tree = (<ASTLabelType>)adaptor.dupTree(<label>);
adaptor.addChild(root_<treeLevel>, <label>_tree);
<if(backtracking)>}<endif>
<else> <! rewrite mode !>
<if(backtracking)>if (<actions.(actionScope).synpredgate>)<endif>
if (_first_<treeLevel>==null) _first_<treeLevel> = <label>;
<endif>
>>

```

```

// SET AST

```

```

matchSet(s,label,hetero,elementIndex,postmatchCode) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.matchSet(..., postmatchCode={
<if(!rewriteMode)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) {<endif>
<if(hetero)>
<label>_tree = new <hetero>(<label>);
<else>
<label>_tree = (<ASTLabelType>)adaptor.dupNode(<label>);
<endif><\n>
adaptor.addChild(root_<treeLevel>, <label>_tree);
<if(backtracking)>}<endif>
<endif>

```

```

}
)>
>>

matchRuleBlockSet(s,label,hetero,elementIndex,postmatchCode,treeLevel="0") ::= <<
<matchSet(...)>
<noRewrite()> <! set return tree !>
>>

matchSetBang(s,label,elementIndex,postmatchCode) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.matchSet(...)>
>>

matchSetRuleRoot(s,label,hetero,elementIndex,debug) ::= <<
<super.matchSet(..., postmatchCode={
<if(!rewriteMode)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) {<endif>
<if(hetero)>
<label>_tree = new <hetero>(<label>);
<else>
<label>_tree = (<ASTLabelType>)adaptor.dupNode(<label>);
<endif><\n>
root_<treeLevel> = (<ASTLabelType>)adaptor.becomeRoot(<label>_tree, root_<treeLevel>);
<if(backtracking)>}<endif>
<endif>
}
)>
>>

// RULE REF AST

/** rule auto construct */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.ruleRef(...)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) <endif>
<if(!rewriteMode)>
adaptor.addChild(root_<treeLevel>, <label>.getTree());
<else> <! rewrite mode !>
if (_first_<treeLevel>==null) _first_<treeLevel> = <label>.tree;
<endif>
>>

/** x+=rule auto construct */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>
<listLabel(elem=label+".getTree()",...)>

```

```

>>

/** ^(rule ...) auto construct */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
 _last = (<ASTLabelType>)input.LT(1);
 <super.ruleRef(...)>
 <if(!rewriteMode)>
 <if(backtracking)>if (<actions.(actionScope).synpredgate>) <endif>root_<treeLevel> =
 (<ASTLabelType>)adaptor.becomeRoot(<label>.getTree(), root_<treeLevel>);
 <endif>
>>

/** ^(x+=rule ...) auto construct */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
 <ruleRefRuleRoot(...)>
 <listLabel(elem=label+".getTree()",...)>
>>

/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
 _last = (<ASTLabelType>)input.LT(1);
 <super.ruleRefTrack(...)>
>>

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
 _last = (<ASTLabelType>)input.LT(1);
 <super.ruleRefTrackAndListLabel(...)>
>>

/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
 _last = (<ASTLabelType>)input.LT(1);
 <super.ruleRefRootTrack(...)>
>>

/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
 _last = (<ASTLabelType>)input.LT(1);
 <super.ruleRefRuleRootTrackAndListLabel(...)>
>>

/** Streams for token refs are tree nodes now; override to
 * change nextToken to nextNode.
 */
createRewriteNodeFromElement(token,hetero,scope) ::= <<
 <if(hetero)>
 new <hetero>(stream_<token>.nextNode())

```



```

<else>
stream_<token>.nextNode()
<endif>
>>

ruleCleanUp() ::= <<
<super.ruleCleanUp()>
<if(!rewriteMode)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) {<n><endif>
retval.tree = (<ASTLabelType>)adaptor.rulePostProcessing(root_0);
<if(backtracking)>}<endif>
<endif>
>>

```

Found in path(s):

\* /opt/cola/permits/1204005060\_1631853129.56/0/antlr-3-1-3-sources-4-jar/org/antlr/codegen/templates/Java/ASTTreeParser.stg

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```

/*
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```

```
* THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

```
*/
```

```
/** Template overrides to add debugging to AST stuff. Dynamic inheritance
```

```
* hierarchy is set up as ASTDbg : AST : Dbg : Java by code generator.
```

```
*/
```

```
group ASTDbg;
```

```
parserMembers() ::= <<
```

```
protected DebugTreeAdaptor adaptor;
```

```
public ITreeAdaptor TreeAdaptor
```

```
{
```

```
get
```

```
{
```

```
return adaptor;
```

```
}
```

```
set
```

```
{
```

```
<if(grammar.grammarIsRoot)>
```

```
this.adaptor = new DebugTreeAdaptor(dbg,adaptor);
```

```
<else>
```

```
this.adaptor = (DebugTreeAdaptor)adaptor; // delegator sends dbg adaptor
```

```
<endif><\n>
```

```
<grammar.directDelegates: {g|<g:delegateName()>.TreeAdaptor = this.adaptor; }>
```

```
}
```

```
<\n>
```

```
>>
```

```
parserCtorBody() ::= <<
```

```
<super.parserCtorBody()>
```

```
>>
```

```
createListenerAndHandshake() ::= <<
```

```
DebugEventSocketProxy proxy = new DebugEventSocketProxy(this, port,
```

```
<if(TREE_PARSER)>input.TreeAdaptor<else>adaptor<endif>);
```

```
DebugListener = proxy;
```

```
<inputStreamType> = new Debug<inputStreamType>(input, proxy);
```

```
try
```

```
{
```

```
proxy.Handshake();
```

```
}
```

```
catch (IOException ioe)
```

```
{
```

```
ReportError(ioe);
```

```
}
```

```
>>
```

```
@ctorForRootGrammar.finally() ::= <<
```

```
ITreeAdaptor adap = new CommonTreeAdaptor();
TreeAdaptor = adap;
proxy.TreeAdaptor = adap;
>>
```

```
@ctorForProfilingRootGrammar.finally() ::=<<
ITreeAdaptor adap = new CommonTreeAdaptor();
TreeAdaptor = adap;
proxy.TreeAdaptor = adap;
>>
```

```
@ctorForPredefinedListener.superClassRef() ::= " : base(input, dbg)"

```

```
@ctorForPredefinedListener.finally() ::=<<
<if(grammar.grammarIsRoot)><! don't create new adaptor for delegates !>
ITreeAdaptor adap = new CommonTreeAdaptor();
TreeAdaptor = adap;<\n>
<endif>
>>
```

```
@rewriteElement.pregen() ::= "dbg.Location(<e.line>, <e.pos>);"

```

Found in path(s):

```
* /opt/cola/permits/1204005060_1631853129.56/0/antlr-3-1-3-sources-4-
jar/org/antlr/codegen/templates/CSharp3/ASTDbg.stg
```

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```
/*
```

```
[The "BSD licence"]
```

```
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```

```
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\*/

/\*

New style messages. This file only contains the messages in English, but no information about which file, line, or column it occurred in.

The location and message ids are taken out of the formats directory.

Kay Roepke

\*/

group en\_US;

// TOOL ERRORS

// file errors

CANNOT\_WRITE\_FILE(arg,exception,stackTrace) ::= <<

cannot write file <arg>: <exception>

<stackTrace; separator="\n">

>>

CANNOT\_CLOSE\_FILE(arg,exception,stackTrace) ::= "cannot close file <arg>: <exception>"

CANNOT\_FIND\_TOKENS\_FILE(arg) ::= "cannot find tokens file <arg>"

ERROR\_READING\_TOKENS\_FILE(arg,exception,stackTrace) ::= <<

problem reading token vocabulary file <arg>: <exception>

<stackTrace; separator="\n">

>>

DIR\_NOT\_FOUND(arg,exception,stackTrace) ::= "directory not found: <arg>"

OUTPUT\_DIR\_IS\_FILE(arg,exception,stackTrace) ::= "output directory is a file: <arg>"

CANNOT\_OPEN\_FILE(arg,exception,stackTrace) ::= "cannot find or open file: <arg><if(exception)>; reason:

<exception><endif>"

CIRCULAR\_DEPENDENCY() ::= "your grammars contain a circular dependency and cannot be sorted into a valid build order."

INTERNAL\_ERROR(arg,arg2,exception,stackTrace) ::= <<

internal error: <arg> <arg2><if(exception)>: <exception><endif>

<stackTrace; separator="\n">

>>

INTERNAL\_WARNING(arg) ::= "internal warning: <arg>"

ERROR\_CREATING\_ARTIFICIAL\_RULE(arg,exception,stackTrace) ::= <<

problems creating lexer rule listing all tokens: <exception>

<stackTrace; separator="\n">

>>

TOKENS\_FILE\_SYNTAX\_ERROR(arg,arg2) ::=

"problems parsing token vocabulary file <arg> on line <arg2>"

CANNOT\_GEN\_DOT\_FILE(arg,exception,stackTrace) ::=

"cannot write DFA DOT file <arg>: <exception>"

BAD\_ACTION\_AST\_STRUCTURE(exception,stackTrace) ::=

"bad internal tree structure for action '<arg>': <exception>"

```

BAD_AST_STRUCTURE(arg,exception,stackTrace) ::= <<
bad internal tree structure '<arg>': <exception>
<stackTrace; separator="\n">
>>
FILE_AND_GRAMMAR_NAME_DIFFER(arg,arg2) ::=
"file <arg2> contains grammar <arg>; names must be identical"
FILENAME_EXTENSION_ERROR(arg) ::=
"file <arg> must end in a file extension, normally .g"

// code gen errors
MISSING_CODE_GEN_TEMPLATES(arg) ::=
"cannot find code generation templates <arg>.stg"
MISSING_CYCLIC_DFA_CODE_GEN_TEMPLATES() ::=
"cannot find code generation cyclic DFA templates for language <arg>"
CODE_GEN_TEMPLATES_INCOMPLETE(arg) ::=
"at least one code generation template missing for language <arg>"
CANNOT_CREATE_TARGET_GENERATOR(arg,exception,stackTrace) ::=
"cannot create target <arg> code generator: <exception>"
CANNOT_COMPUTE_SAMPLE_INPUT_SEQ() ::=
"cannot generate a sample input sequence from lookahead DFA"

// grammar interpretation errors
/*
NO_VIABLE_DFA_ALT(arg,arg2) ::=
"no viable transition from state <arg> on <arg2> while interpreting DFA"
*/

// GRAMMAR ERRORS
SYNTAX_ERROR(arg) ::= "syntax error: <arg>"
RULE_REDEFINITION(arg) ::=
"rule <arg> redefinition"
LEXER_RULES_NOT_ALLOWED(arg) ::=
"lexer rule <arg> not allowed in parser"
PARSER_RULES_NOT_ALLOWED(arg) ::=
"parser rule <arg> not allowed in lexer"
CANNOT_FIND_ATTRIBUTE_NAME_IN_DECL(arg) ::=
"cannot find an attribute name in attribute declaration"
NO_TOKEN_DEFINITION(arg) ::=
"no lexer rule corresponding to token: <arg>"
UNDEFINED_RULE_REF(arg) ::=
"reference to undefined rule: <arg>"
LITERAL_NOT_ASSOCIATED_WITH_LEXER_RULE(arg) ::=
"literal has no associated lexer rule: <arg>"
CANNOT_ALIAS_TOKENS_IN_LEXER(arg) ::=
"literals are illegal in lexer tokens{ } section: <arg>"
ATTRIBUTE_REF_NOT_IN_RULE(arg,arg2) ::=
"reference to attribute outside of a rule: <arg><if(arg2)>.<arg2><endif>"
UNKNOWN_ATTRIBUTE_IN_SCOPE(arg,arg2) ::=

```

```

"unknown attribute for <arg>: <arg2>"
UNKNOWN_RULE_ATTRIBUTE(arg,arg2) ::=
"unknown attribute for rule <arg>: <arg2>"
UNKNOWN_SIMPLE_ATTRIBUTE(arg,args2) ::=
"attribute is not a token, parameter, or return value: <arg>"
ISOLATED_RULE_SCOPE(arg) ::=
"missing attribute access on rule scope: <arg>"
INVALID_RULE_PARAMETER_REF(arg,arg2) ::=
"cannot access rule <arg>'s parameter: <arg2>"
INVALID_RULE_SCOPE_ATTRIBUTE_REF(arg,arg2) ::=
"cannot access rule <arg>'s dynamically-scoped attribute: <arg2>"
SYMBOL_CONFLICTS_WITH_GLOBAL_SCOPE(arg) ::=
"symbol <arg> conflicts with global dynamic scope with same name"
WRITE_TO_READONLY_ATTR(arg,arg2,arg3) ::=
"cannot write to read only attribute: $<arg><if(arg2)>.<arg2><endif>"
LABEL_CONFLICTS_WITH_RULE(arg) ::=
"label <arg> conflicts with rule with same name"
LABEL_CONFLICTS_WITH_TOKEN(arg) ::=
"label <arg> conflicts with token with same name"
LABEL_CONFLICTS_WITH_RULE_SCOPE_ATTRIBUTE(arg,arg2) ::=
"label <arg> conflicts with rule <arg2>'s dynamically-scoped attribute with same name"
LABEL_CONFLICTS_WITH_RULE_ARG_RETVAL(arg,arg2) ::=
"label <arg> conflicts with rule <arg2>'s return value or parameter with same name"
ATTRIBUTE_CONFLICTS_WITH_RULE(arg,arg2) ::=
"rule <arg2>'s dynamically-scoped attribute <arg> conflicts with the rule name"
ATTRIBUTE_CONFLICTS_WITH_RULE_ARG_RETVAL(arg,arg2) ::=
"rule <arg2>'s dynamically-scoped attribute <arg> conflicts with<arg2>'s return value or parameter with same name"
LABEL_TYPE_CONFLICT(arg,arg2) ::=
"label <arg> type mismatch with previous definition: <arg2>"
ARG_RETVAL_CONFLICT(arg,arg2) ::=
"rule <arg2>'s argument <arg> conflicts a return value with same name"
NONUNIQUE_REF(arg) ::=
"<arg> is a non-unique reference"
FORWARD_ELEMENT_REF(arg) ::=
"illegal forward reference: <arg>"
MISSING_RULE_ARGS(arg) ::=
"missing parameter(s) on rule reference: <arg>"
RULE_HAS_NO_ARGS(arg) ::=
"rule <arg> has no defined parameters"
ARGS_ON_TOKEN_REF(arg) ::=
"token reference <arg> may not have parameters"
/*
NONCHAR_RANGE() ::=
"range operator can only be used in the lexer"
*/
ILLEGAL_OPTION(arg) ::=
"illegal option <arg>"

```

LIST\_LABEL\_INVALID\_UNLESS\_RETVAL\_STRUCT(arg) ::=  
"rule '+=' list labels are not allowed w/o output option: <arg>"

UNDEFINED\_TOKEN\_REF\_IN\_REWRITE(arg) ::=  
"reference to undefined token in rewrite rule: <arg>"

REWRITE\_ELEMENT\_NOT\_PRESENT\_ON\_LHS(arg) ::=  
"reference to rewrite element <arg> without reference on left of ->"

UNDEFINED\_LABEL\_REF\_IN\_REWRITE(arg) ::=  
"reference to undefined label in rewrite rule: \$<arg>"

NO\_GRAMMAR\_START\_RULE (arg) ::=  
"grammar <arg>: no start rule (no rule can obviously be followed by EOF)"

EMPTY\_COMPLEMENT(arg) ::= <<  
<if(arg)>  
set complement ~<arg> is empty  
<else>  
set complement is empty  
<endif>  
>>

UNKNOWN\_DYNAMIC\_SCOPE(arg) ::=  
"unknown dynamic scope: <arg>"

UNKNOWN\_DYNAMIC\_SCOPE\_ATTRIBUTE(arg,arg2) ::=  
"unknown dynamically-scoped attribute for scope <arg>: <arg2>"

RULE\_REF\_AMBIG\_WITH\_RULE\_IN\_ALT(arg) ::=  
"reference \$<arg> is ambiguous; rule <arg> is enclosing rule and referenced in the production (assuming enclosing rule)"

ISOLATED\_RULE\_ATTRIBUTE(arg) ::=  
"reference to locally-defined rule scope attribute without rule name: <arg>"

INVALID\_ACTION\_SCOPE(arg,arg2) ::=  
"unknown or invalid action scope for <arg2> grammar: <arg>"

ACTION\_REDEFINITION(arg) ::=  
"redefinition of <arg> action"

DOUBLE\_QUOTES\_ILLEGAL(arg) ::=  
"string literals must use single quotes (such as '\begin\'): <arg>"

INVALID\_TEMPLATE\_ACTION(arg) ::=  
"invalid StringTemplate % shorthand syntax: '<arg>'"

MISSING\_ATTRIBUTE\_NAME() ::=  
"missing attribute name on \$ reference"

ARG\_INIT\_VALUES\_ILLEGAL(arg) ::=  
"rule parameters may not have init values: <arg>"

REWRITE\_OR\_OP\_WITH\_NO\_OUTPUT\_OPTION(arg) ::=  
"<if(arg)>rule <arg> uses <endif>rewrite syntax or operator with no output option; setting output=AST"

AST\_OP\_WITH\_NON\_AST\_OUTPUT\_OPTION(arg) ::=  
"AST operator with non-AST output option: <arg>"

NO\_RULES(arg) ::= "grammar file <arg> has no rules"

MISSING\_AST\_TYPE\_IN\_TREE\_GRAMMAR(arg) ::=  
"tree grammar <arg> has no ASTLabelType option"

REWRITE\_FOR\_MULTI\_ELEMENT\_ALT(arg) ::=  
"with rewrite=true, alt <arg> not simple node or obvious tree element; text attribute for rule not guaranteed to be correct"

```

RULE_INVALID_SET(arg) ::=
 "Cannot complement rule <arg>; not a simple set or element"
HETERO_ILLEGAL_IN_REWRITE_ALT(arg) ::=
 "alts with rewrites can't use heterogeneous types left of ->"
NO_SUCH_GRAMMAR_SCOPE(arg,arg2) ::=
 "reference to undefined grammar in rule reference: <arg>.<arg2>"
NO_SUCH_RULE_IN_SCOPE(arg,arg2) ::=
 "rule <arg2> is not defined in grammar <arg>"
TOKEN_ALIAS_CONFLICT(arg,arg2) ::=
 "cannot alias <arg>; string already assigned to <arg2>"
TOKEN_ALIAS_REASSIGNMENT(arg,arg2) ::=
 "cannot alias <arg>; token name already assigned to <arg2>"
TOKEN_VOCAB_IN_DELEGATE(arg,arg2) ::=
 "tokenVocab option ignored in imported grammar <arg>"
INVALID_IMPORT(arg,arg2) ::=
 "<arg.grammarTypeString> grammar <arg.name> cannot import <arg2.grammarTypeString> grammar
 <arg2.name>"
IMPORTED_TOKENS_RULE_EMPTY(arg,arg2) ::=
 "no lexer rules contributed to <arg> from imported grammar <arg2>"
IMPORT_NAME_CLASH(arg,arg2) ::=
 "combined grammar <arg.name> and imported <arg2.grammarTypeString> grammar <arg2.name> both generate
 <arg2.recognizerName>; import ignored"
AST_OP_IN_ALT_WITH_REWRITE(arg,arg2) ::=
 "rule <arg> alt <arg2> uses rewrite syntax and also an AST operator"
WILDCARD_AS_ROOT(arg) ::= "Wildcard invalid as root; wildcard can itself be a tree"
CONFLICTING_OPTION_IN_TREE_FILTER(arg,arg2) ::= "option <arg>=<arg2> conflicts with tree grammar
 filter mode"

// GRAMMAR WARNINGS

GRAMMAR_NONDETERMINISM(input,conflictingAlts,paths,disabled,hasPredicateBlockedByAction) ::=
 <<
 <if(paths)>
 Decision can match input such as "<input>" using multiple alternatives:
 <paths:{ alt <it.alt> via NFA path <it.states; separator=","><n>}>
 <else>
 Decision can match input such as "<input>" using multiple alternatives: <conflictingAlts; separator=",">
 <endif>
 <if(disabled)><n>As a result, alternative(s) <disabled; separator=","> were disabled for that
 input<endif><if(hasPredicateBlockedByAction)><n>Semantic predicates were present but were hidden by
 actions.<endif>
 >>

DANGLING_STATE(danglingAlts,input) ::= <<
 the decision cannot distinguish between alternative(s) <danglingAlts; separator=","> for input such as "<input>"
 >>

UNREACHABLE_ALTS(alts) ::= <<

```



The following alternatives can never be matched: <alts; separator=", "><\n>

>>

INSUFFICIENT\_PREDICATES(upon,altToLocations,hasPredicateBlockedByAction) ::= <<

Input such as "<upon>" is insufficiently covered with predicates at locations: <altToLocations.keys:{alt|alt <alt>:  
<altToLocations.(alt):{loc| line <loc.line>:<loc.column> at <loc.text>}; separator=", ">; separator=",

"><if(hasPredicateBlockedByAction)><\n>Semantic predicates were present but were hidden by actions.<endif>

>>

DUPLICATE\_SET\_ENTRY(arg) ::=

"duplicate token type <arg> when collapsing subrule into set"

ANALYSIS\_ABORTED(enclosingRule) ::= <<

ANTLR could not analyze this decision in rule <enclosingRule>; often this is because of recursive rule references visible from the left edge of alternatives. ANTLR will re-analyze the decision with a fixed lookahead of k=1.

Consider using "options {k=1;}" for that decision and possibly adding a syntactic predicate.

>>

RECURSION\_OVERFLOW(alt,input,targetRules,callSiteStates) ::= <<

Alternative <alt>: after matching input such as <input> decision cannot predict what comes next due to recursion overflow <targetRules,callSiteStates:{t,c|to <t> from <c:{s|<s.enclosingRule.name>};separator=", ">; separator=" and ">

>>

LEFT\_RECURSION(targetRules,alt,callSiteStates) ::= <<

Alternative <alt> discovers infinite left-recursion <targetRules,callSiteStates:{t,c|to <t> from <c:{s|<s.enclosingRule>};separator=", ">; separator=" and ">

>>

UNREACHABLE\_TOKENS(tokens) ::= <<

The following token definitions can never be matched because prior tokens match the same input: <tokens; separator=", ">

>>

TOKEN\_NONDETERMINISM(input,conflictingTokens,paths,disabled,hasPredicateBlockedByAction) ::=

<<

<if(paths>

Decision can match input such as "<input>" using multiple alternatives:

<paths:{ alt <it.alt> via NFA path <it.states; separator=", "><\n>}>

<else>

Multiple token rules can match input such as "<input>": <conflictingTokens; separator=", "><\n>

<endif>

<if(disabled)><\n>As a result, token(s) <disabled; separator=", "> were disabled for that

input<endif><if(hasPredicateBlockedByAction)><\n>Semantic predicates were present but were hidden by actions.<endif>

>>

LEFT\_RECURSION\_CYCLES(listOfCycles) ::= <<

The following sets of rules are mutually left-recursive <listOfCycles:{c| [<c:{r|<r.name>}]; separator=", ">]; separator=" and ">

>>

NONREGULAR\_DECISION(ruleName,alts) ::= <<

[fatal] rule <ruleName> has non-LL(\*) decision due to recursive rule invocations reachable from alts <alts; separator=", ">. Resolve by left-factoring or using syntactic predicates or using backtrack=true option.

>>

/\* 110n for message levels \*/

warning() ::= "warning"

error() ::= "error"

Found in path(s):

\* /opt/cola/permits/1204005060\_1631853129.56/0/antlr-3-1-3-sources-4-jar/org/antlr/tool/templates/messages/languages/en.stg

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\* /opt/cola/permits/1204005060\_1631853129.56/0/antlr-3-1-3-sources-4-jar/org/antlr/tool/ToolMessage.java

\* /opt/cola/permits/1204005060\_1631853129.56/0/antlr-3-1-3-sources-4-jar/org/antlr/grammar/v2/ANTLRTreePrinterTokenTypes.java  
\* /opt/cola/permits/1204005060\_1631853129.56/0/antlr-3-1-3-sources-4-jar/org/antlr/analysis/PredicateLabel.java  
\* /opt/cola/permits/1204005060\_1631853129.56/0/antlr-3-1-3-sources-4-jar/org/antlr/tool/LeftRecursionCyclesMessage.java  
\* /opt/cola/permits/1204005060\_1631853129.56/0/antlr-3-1-3-sources-4-jar/org/antlr/tool/RandomPhrase.java  
\* /opt/cola/permits/1204005060\_1631853129.56/0/antlr-3-1-3-sources-4-jar/org/antlr/analysis/AnalysisRecursionOverflowException.java  
\* /opt/cola/permits/1204005060\_1631853129.56/0/antlr-3-1-3-sources-4-jar/org/antlr/tool/Message.java  
\* /opt/cola/permits/1204005060\_1631853129.56/0/antlr-3-1-3-sources-4-jar/org/antlr/tool/ANTLRErrorListener.java  
\* /opt/cola/permits/1204005060\_1631853129.56/0/antlr-3-1-3-sources-4-jar/org/antlr/grammar/v2/CodeGenTreeWalker.java  
\* /opt/cola/permits/1204005060\_1631853129.56/0/antlr-3-1-3-sources-4-jar/org/antlr/tool/GrammarUnreachableAltsMessage.java  
\* /opt/cola/permits/1204005060\_1631853129.56/0/antlr-3-1-3-sources-4-jar/org/antlr/analysis/LL1DFA.java  
\* /opt/cola/permits/1204005060\_1631853129.56/0/antlr-3-1-3-sources-4-jar/org/antlr/misc/MultiMap.java  
\* /opt/cola/permits/1204005060\_1631853129.56/0/antlr-3-1-3-sources-4-jar/org/antlr/misc/MutableInteger.java  
\* /opt/cola/permits/1204005060\_1631853129.56/0/antlr-3-1-3-sources-4-jar/org/antlr/tool/ErrorMessageManager.java  
\* /opt/cola/permits/1204005060\_1631853129.56/0/antlr-3-1-3-sources-4-jar/org/antlr/tool/GrammarAnalysisAbortedMessage.java  
\* /opt/cola/permits/1204005060\_1631853129.56/0/antlr-3-1-3-sources-4-jar/org/antlr/tool/GrammarInsufficientPredicatesMessage.java  
\* /opt/cola/permits/1204005060\_1631853129.56/0/antlr-3-1-3-sources-4-jar/org/antlr/grammar/v2/DefineGrammarItemsWalkerTokenTypes.java  
\* /opt/cola/permits/1204005060\_1631853129.56/0/antlr-3-1-3-sources-4-jar/org/antlr/tool/Interpreter.java  
\* /opt/cola/permits/1204005060\_1631853129.56/0/antlr-3-1-3-sources-4-jar/org/antlr/grammar/v2/AssignTokenTypesWalker.java  
\* /opt/cola/permits/1204005060\_1631853129.56/0/antlr-3-1-3-sources-4-jar/org/antlr/tool/GrammarSyntaxMessage.java  
\* /opt/cola/permits/1204005060\_1631853129.56/0/antlr-3-1-3-sources-4-jar/org/antlr/tool/Grammar.java  
\* /opt/cola/permits/1204005060\_1631853129.56/0/antlr-3-1-3-sources-4-jar/org/antlr/grammar/v2/AssignTokenTypesWalkerTokenTypes.java  
\* /opt/cola/permits/1204005060\_1631853129.56/0/antlr-3-1-3-sources-4-jar/org/antlr/analysis/NonLLStarDecisionException.java  
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\* /opt/cola/permits/1204005060\_1631853129.56/0/antlr-3-1-3-sources-4-jar/org/antlr/tool/GrammarNonDeterminismMessage.java  
\* /opt/cola/permits/1204005060\_1631853129.56/0/antlr-3-1-3-sources-4-jar/org/antlr/tool/GrammarSanity.java  
\* /opt/cola/permits/1204005060\_1631853129.56/0/antlr-3-1-3-sources-4-jar/org/antlr/tool/GrammarReport.java  
\* /opt/cola/permits/1204005060\_1631853129.56/0/antlr-3-1-3-sources-4-jar/org/antlr/tool/NonRegularDecisionMessage.java  
\* /opt/cola/permits/1204005060\_1631853129.56/0/antlr-3-1-3-sources-4-jar/org/antlr/tool/RecursionOverflowMessage.java  
\* /opt/cola/permits/1204005060\_1631853129.56/0/antlr-3-1-3-sources-4-jar/org/antlr/tool/FASerializer.java  
\* /opt/cola/permits/1204005060\_1631853129.56/0/antlr-3-1-3-sources-4-jar/org/antlr/tool/RuleLabelScope.java  
\* /opt/cola/permits/1204005060\_1631853129.56/0/antlr-3-1-3-sources-4-jar/org/antlr/grammar/v2/CodeGenTreeWalkerTokenTypes.java

\* /opt/cola/permits/1204005060\_1631853129.56/0/antlr-3-1-3-sources-4-jar/org/antlr/tool/GrammarSemanticsMessage.java  
\* /opt/cola/permits/1204005060\_1631853129.56/0/antlr-3-1-3-sources-4-jar/org/antlr/grammar/v2/ANTLRLexer.java  
\* /opt/cola/permits/1204005060\_1631853129.56/0/antlr-3-1-3-sources-4-jar/org/antlr/tool/DOTGenerator.java  
\* /opt/cola/permits/1204005060\_1631853129.56/0/antlr-3-1-3-sources-4-jar/org/antlr/grammar/v2/ANTLRTokenTypes.java  
\* /opt/cola/permits/1204005060\_1631853129.56/0/antlr-3-1-3-sources-4-jar/org/antlr/tool/AttributeScope.java  
\* /opt/cola/permits/1204005060\_1631853129.56/0/antlr-3-1-3-sources-4-jar/org/antlr/tool/Attribute.java  
\* /opt/cola/permits/1204005060\_1631853129.56/0/antlr-3-1-3-sources-4-jar/org/antlr/grammar/v2/TreeToNFAConverter.java  
\* /opt/cola/permits/1204005060\_1631853129.56/0/antlr-3-1-3-sources-4-jar/org/antlr/tool/AssignTokenTypesBehavior.java  
\* /opt/cola/permits/1204005060\_1631853129.56/0/antlr-3-1-3-sources-4-jar/org/antlr/analysis/LL1Analyzer.java  
\* /opt/cola/permits/1204005060\_1631853129.56/0/antlr-3-1-3-sources-4-jar/org/antlr/tool/GrammarDanglingStateMessage.java  
\* /opt/cola/permits/1204005060\_1631853129.56/0/antlr-3-1-3-sources-4-jar/org/antlr/tool/GrammarAST.java  
\* /opt/cola/permits/1204005060\_1631853129.56/0/antlr-3-1-3-sources-4-jar/org/antlr/misc/Barrier.java  
\* /opt/cola/permits/1204005060\_1631853129.56/0/antlr-3-1-3-sources-4-jar/org/antlr/analysis/ActionLabel.java  
\* /opt/cola/permits/1204005060\_1631853129.56/0/antlr-3-1-3-sources-4-jar/org/antlr/grammar/v2/ANTLRParser.java  
\* /opt/cola/permits/1204005060\_1631853129.56/0/antlr-3-1-3-sources-4-jar/org/antlr/grammar/v2/DefineGrammarItemsWalker.java  
\* /opt/cola/permits/1204005060\_1631853129.56/0/antlr-3-1-3-sources-4-jar/org/antlr/analysis/NFAConversionThread.java  
\* /opt/cola/permits/1204005060\_1631853129.56/0/antlr-3-1-3-sources-4-jar/org/antlr/tool/Rule.java  
\* /opt/cola/permits/1204005060\_1631853129.56/0/antlr-3-1-3-sources-4-jar/org/antlr/grammar/v2/TreeToNFAConverterTokenTypes.java  
\* /opt/cola/permits/1204005060\_1631853129.56/0/antlr-3-1-3-sources-4-jar/org/antlr/tool/Interp.java  
\* /opt/cola/permits/1204005060\_1631853129.56/0/antlr-3-1-3-sources-4-jar/org/antlr/grammar/v2/ANTLRTreePrinter.java  
\* /opt/cola/permits/1204005060\_1631853129.56/0/antlr-3-1-3-sources-4-jar/org/antlr/analysis/AnalysisTimeoutException.java

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\*/

/\*

New style messages. This file contains the actual layout of the messages emitted by ANTLR. The text itself is coming out of the languages/\*stg files, according to the chosen locale. This file contains the format that mimicks GCC output.

\*/

group gnu;

location(file, line, column) ::= "<file>:<line>:"

message(id, text) ::= "<text> (<id>)"

report(location, message, type) ::= "<location> <type>: <message>"

wantsSingleLineMessage() ::= "true"

Found in path(s):

\* /opt/cola/permits/1204005060\_1631853129.56/0/antlr-3-1-3-sources-4-jar/org/antlr/tool/templates/messages/formats/gnu.stg

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\*/

/\*\* Template overrides to add debugging to normal C output;

\* If ASTs are built, then you'll also get ASTDbg.stg loaded.

\*/

group Dbg;

```
@genericParser.members() ::= <<
```

```
<if(grammar.grammarIsRoot)>
```

```
const char *
```

```
ruleNames[] =
```

```
{
```

```
"invalidRule", <grammar.allImportedRules: {rST | "<rST.name>"}; wrap="\n ", separator=", ">
```

```
};<\n>
```

```
<endif>
```

```
<if(grammar.grammarIsRoot)> <! grammar imports other grammar(s) !>
```

```
static ANTLR3_UINT32 ruleLevel = 0;
```

```
static ANTLR3_UINT32 getRuleLevel()
```

```
{
```

```
return ruleLevel;
```

```
}
```

```
static void incRuleLevel()
```

```
{
```

```
ruleLevel++;
```

```
}
```

```
static void decRuleLevel()
```

```
{
```

```
ruleLevel--;
```

```
}
```

```
<else> <! imported grammar !>
```

```
static ANTLR3_UINT32
```

```
getRuleLevel()
```

```
{
```

```

 return <grammar.delegators:{g| <g:delegateName(>}>->getRuleLevel();
}
static void incRuleLevel()
{
 <grammar.delegators:{g| <g:delegateName(>}>->incRuleLevel();
}
static void
decRuleLevel()
{
 <grammar.delegators:{g| <g:delegateName(>}>.decRuleLevel();
}
<endif>
<if(profile)>
// Profiling not yet implemented for C target
//
<endif>
<if(grammar.grammarIsRoot)>
<ctorForPredefinedListener(>
<else>
<ctorForDelegateGrammar(>
<endif>

static ANTLR3_BOOLEAN
evalPredicate(p<name> ctx, ANTLR3_BOOLEAN result, const char * predicate)
{
 DBG->semanticPredicate(DBG, result, predicate);
 return result;
}<\n>
>>

@genericParser.debugStuff() ::= <<
<if(grammar.grammarIsRoot)>
<createListenerAndHandshake(>
<endif>
>>

ctorForProfilingRootGrammar() ::= <<
>>

/** Basically we don't want to set any dbg listeners as root will have it. */
ctorForDelegateGrammar() ::= <<

>>

ctorForPredefinedListener() ::= <<

>>

```

```

createListenerAndHandshake() ::= <<
{
// DEBUG MODE code
//
pANTLR3_DEBUG_EVENT_LISTENER proxy;
proxy = antlr3DebugListenerNew();
proxy->grammarFileName = INPUT->tokenSource->strFactory->newStr8(INPUT->tokenSource->strFactory,
(pANTLR3_UINT8)ctx->getGrammarFileName());

<if(TREE_PARSER)>
proxy->adaptor = ADAPTOR;
<endif>
PARSER->setDebugListener(PARSER, proxy);

// Try to connect to the debugger (waits forever for a connection)
//
proxy->handshake(proxy);

// End DEBUG MODE code
//
}
>>

```

```

@rule.preamble() ::= <<
DBG->enterRule(DBG, getGrammarFileName(), (const char *)"<ruleName>");
if (getRuleLevel()==0)
{
DBG->commence(DBG);
}
incRuleLevel();
DBG->location(DBG, <ruleDescriptor.tree.line>, <ruleDescriptor.tree.column>);<\n>
>>

```

```

@rule.postamble() ::= <<
DBG->location(DBG, <ruleDescriptor.EORNode.line>, <ruleDescriptor.EORNode.column>);<\n>
DBG->exitRule(DBG, getGrammarFileName(), (const char *)"<ruleName>");
decRuleLevel();
if (getRuleLevel()==0)
{
DBG->terminate(DBG);
}
<\n>
>>

```

```

@synpred.start() ::= "DBG->beginBacktrack(DBG, BACKTRACKING);"

```

```

@synpred.stop() ::= "DBG->endBacktrack(DBG, BACKTRACKING, success);"

```



```

// Common debug event triggers used by region overrides below

enterSubRule() ::=
 "DBG->enterSubRule(DBG, <decisionNumber>);<\n>"

exitSubRule() ::=
 "DBG->exitSubRule(DBG, <decisionNumber>);<\n>"

enterDecision() ::=
 "DBG->enterDecision(DBG, <decisionNumber>);<\n>"

exitDecision() ::=
 "DBG->exitDecision(DBG, <decisionNumber>);<\n>"

enterAlt(n) ::= "DBG->enterAlt(DBG, <n>);<\n>"

// Region overrides that tell various constructs to add debugging triggers

@block.predecision() ::= "<enterSubRule()><enterDecision()>"

@block.postdecision() ::= "<exitDecision()>"

@block.postbranch() ::= "<exitSubRule()>"

@ruleBlock.predecision() ::= "<enterDecision()>"

@ruleBlock.postdecision() ::= "<exitDecision()>"

@ruleBlockSingleAlt.preal() ::= "<enterAlt(n=\"1\")>"

@blockSingleAlt.preal() ::= "<enterAlt(n=\"1\")>"

@positiveClosureBlock.preloop() ::= "<enterSubRule()>"

@positiveClosureBlock.postloop() ::= "<exitSubRule()>"

@positiveClosureBlock.predecision() ::= "<enterDecision()>"

@positiveClosureBlock.postdecision() ::= "<exitDecision()>"

@positiveClosureBlock.earlyExitException() ::=
 "DBG->recognitionException(DBG, EXCEPTION);<\n>"

@closureBlock.preloop() ::= "<enterSubRule()>"

@closureBlock.postloop() ::= "<exitSubRule()>"

```

```

@closureBlock.predecision() ::= "<enterDecision()"

@closureBlock.postdecision() ::= "<exitDecision()"

@altSwitchCase.preal() ::= "<enterAlt(n=i)"

@element.prematch() ::=
 "DBG->location(DBG, <it.line>, <it.pos>);"

@matchSet.mismatchedSetException() ::=
 "DBG->recognitionException(DBG, EXCEPTION);"

@newNVException.noViableAltException() ::= "DBG->recognitionException(DBG, EXCEPTION);"

dfaDecision(decisionNumber,description) ::= <<
alt<decisionNumber> = cdfa<decisionNumber>.predict(ctx, RECOGNIZER, ISTREAM,
&cdfa<decisionNumber>);
if (HASEXCEPTION())
{
 DBG->recognitionException(DBG, EXCEPTION);
 goto rule<ruleDescriptor.name>Ex;
}
<checkRuleBacktrackFailure()>
>>

@cyclicDFA.errorMethod() ::= <<
//static void
//dfaError(p<name> ctx)
//{{
// DBG->recognitionException(DBG, EXCEPTION);
//}}
>>

/** Force predicate validation to trigger an event */
evalPredicate(pred,description) ::= <<
evalPredicate(ctx, <pred>, (const char *)"<description>")
>>

```

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\* /opt/cola/permits/1204005060\_1631853129.56/0/antlr-3-1-3-sources-4-jar/org/antlr/codegen/templates/C/Dbg.stg  
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*/

```

```

/** Templates for building ASTs during tree parsing.

```

```

*
* Deal with many combinations. Dimensions are:
* Auto build or rewrite
* no label, label, list label (label/no-label handled together)
* child, root
* token, set, rule, wildcard
*
* Each combination has its own template except that label/no label
* is combined into tokenRef, ruleRef, ...

```

```

*/

```

```

group ASTTreeParser;

```

```

/** Add a variable to track last element matched */

```

```

ruleDeclarations() ::= <<
<super.ruleDeclarations()>
<ASTLabelType> _first_0 = null;
<ASTLabelType> _last = null;<\n>
>>

```

```

/** What to emit when there is no rewrite rule. For auto build

```

```

* mode, does nothing.
*/
noRewrite(rewriteBlockLevel, treeLevel) ::= <<
<if(backtracking)>if (<actions.(actionScope).synpredgate>) {<endif>
<if(rewriteMode)>
retval.tree = (<ASTLabelType>)_first_0;
if (adaptor.GetParent(retval.tree)!=null && adaptor.IsNil(adaptor.getParent(retval.tree)))
retval.tree = (<ASTLabelType>)adaptor.GetParent(retval.tree);
<endif>
<if(backtracking)>}<endif>
>>

```

```

/** match ^(root children) in tree parser; override here to

```

```

* add tree construction actions.
*/
tree(root, actionsAfterRoot, children, nullableChildList,

```

```

 enclosingTreeLevel, treeLevel) ::= <<
 _last = (<ASTLabelType>)input.LT(1);
 {
 <ASTLabelType> _save_last_<treeLevel> = _last;
 <ASTLabelType> _first_<treeLevel> = null;
 <if(!rewriteMode)>
 <ASTLabelType> root_<treeLevel> = (<ASTLabelType>)adaptor.Nil();
 <endif>
 <root:element()>
 <if(rewriteMode)>
 <if(backtracking)>if (<actions.(actionScope).synpredgate>)<endif>
 <if(root.el.rule)>
 if (_first_<enclosingTreeLevel>===null) _first_<enclosingTreeLevel> = <root.el.label>.tree;
 <else>
 if (_first_<enclosingTreeLevel>===null) _first_<enclosingTreeLevel> = <root.el.label>;
 <endif>
 <endif>
 <actionsAfterRoot:element()>
 <if(nullableChildList)>
 if (input.LA(1)==TokenConstants.DOWN) {
 Match(input, TokenConstants.DOWN, null); <checkRuleBacktrackFailure()>
 <children:element()>
 Match(input, TokenConstants.UP, null); <checkRuleBacktrackFailure()>
 }
 <else>
 Match(input, TokenConstants.DOWN, null); <checkRuleBacktrackFailure()>
 <children:element()>
 Match(input, TokenConstants.UP, null); <checkRuleBacktrackFailure()>
 <endif>
 <if(!rewriteMode)>
 adaptor.AddChild(root_<enclosingTreeLevel>, root_<treeLevel>);
 <endif>
 _last = _save_last_<treeLevel>;
 }<\n>
 >>

```

```

// TOKEN AST STUFF

```

```

/** ID! and output=AST (same as plain tokenRef) 'cept add
 * setting of _last
 */

```

```

tokenRefBang(token,label,elementIndex) ::= <<
 _last = (<ASTLabelType>)input.LT(1);
 <super.tokenRef(...)>
 >>

```

```

/** ID auto construct */

```

```

tokenRef(token,label,elementIndex,hetero) ::= <<

```

```

_last = (<ASTLabelType>)input.LT(1);
<super.tokenRef(...)>
<if(!rewriteMode)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) {<endif>
<if(hetero)>
<label>_tree = new <hetero>(<label>);
<else>
<label>_tree = (<ASTLabelType>)adaptor.DupNode(<label>);
<endif><\n>
adaptor.AddChild(root_<treeLevel>, <label>_tree);
<if(backtracking)>}<endif>
<else> <! rewrite mode !>
<if(backtracking)>if (<actions.(actionScope).synpredgate>)<endif>
if (_first_<treeLevel>==null) _first_<treeLevel> = <label>;
<endif>
>>

/** label+=TOKEN auto construct */
tokenRefAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRef(...)>
<listLabel(elem=label,...)>
>>

/** ^(ID ...) auto construct */
tokenRefRuleRoot(token,label,elementIndex,hetero) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.tokenRef(...)>
<if(!rewriteMode)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) {<endif>
<if(hetero)>
<label>_tree = new <hetero>(<label>);
<else>
<label>_tree = (<ASTLabelType>)adaptor.DupNode(<label>);
<endif><\n>
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(<label>_tree, root_<treeLevel>);
<if(backtracking)>}<endif>
<endif>
>>

/** Match ^(label+=TOKEN ...) auto construct */
tokenRefRuleRootAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRefRuleRoot(...)>
<listLabel(elem=label,...)>
>>

/** Match . wildcard and auto dup the node/subtree */
wildcard(token,label,elementIndex,hetero) ::= <<
_last = (<ASTLabelType>)input.LT(1);

```

```

<super.wildcard(...)>
<if(!rewriteMode)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) {<endif>
<label>_tree = (<ASTLabelType>)adaptor.DupTree(<label>);
adaptor.AddChild(root_<treeLevel>, <label>_tree);
<if(backtracking)>}<endif>
<else><! rewrite mode !>
<if(backtracking)>if (<actions.(actionScope).synpredgate>)<endif>
if (_first_<treeLevel>==null) _first_<treeLevel> = <label>;
<endif>
>>

// SET AST

matchSet(s,label,hetero,elementIndex,postmatchCode) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.matchSet(..., postmatchCode={
<if(!rewriteMode)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) {<endif>
<if(hetero)>
<label>_tree = new <hetero>(<label>);
<else>
<label>_tree = (<ASTLabelType>)adaptor.DupNode(<label>);
<endif><\n>
adaptor.AddChild(root_<treeLevel>, <label>_tree);
<if(backtracking)>}<endif>
<endif>
}
)>
>>

matchRuleBlockSet(s,label,hetero,elementIndex,postmatchCode,treeLevel="0") ::= <<
<matchSet(...)>
<noRewrite()><! set return tree !>
>>

matchSetBang(s,label,elementIndex,postmatchCode) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.matchSet(...)>
>>

matchSetRuleRoot(s,label,hetero,elementIndex,debug) ::= <<
<super.matchSet(..., postmatchCode={
<if(!rewriteMode)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) {<endif>
<if(hetero)>
<label>_tree = new <hetero>(<label>);
<else>

```

```

<label>_tree = (<ASTLabelType>)adaptor.DupNode(<label>);
<endif><\n>
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(<label>_tree, root_<treeLevel>);
<if(backtracking)><endif>
<endif>
}
)>
>>

```

```
// RULE REF AST
```

```

/** rule auto construct */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
 _last = (<ASTLabelType>)input.LT(1);
 <super.ruleRef(...)>
 <if(backtracking)>if (<actions.(actionScope).synpredgate>) <endif>
 <if(!rewriteMode)>
 adaptor.AddChild(root_<treeLevel>, <label>.Tree);
 <else> <! rewrite mode !>
 if (_first_<treeLevel>==null) _first_<treeLevel> = <label>.tree;
 <endif>
 >>

```

```

/** x+=rule auto construct */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
 <ruleRef(...)>
 <listLabel(elem=label+".Tree",...)>
 >>

```

```

/** ^(rule ...) auto construct */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
 _last = (<ASTLabelType>)input.LT(1);
 <super.ruleRef(...)>
 <if(!rewriteMode)>
 <if(backtracking)>if (<actions.(actionScope).synpredgate>) <endif>root_<treeLevel> =
 (<ASTLabelType>)adaptor.BecomeRoot(<label>.Tree, root_<treeLevel>);
 <endif>
 >>

```

```

/** ^(x+=rule ...) auto construct */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
 <ruleRefRuleRoot(...)>
 <listLabel(elem=label+".Tree",...)>
 >>

```

```

/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
 _last = (<ASTLabelType>)input.LT(1);

```



```

<super.ruleRefTrack(...)>
>>

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
 _last = (<ASTLabelType>)input.LT(1);
 <super.ruleRefTrackAndListLabel(...)>
>>

/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
 _last = (<ASTLabelType>)input.LT(1);
 <super.ruleRefRuleRootTrack(...)>
>>

/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
 _last = (<ASTLabelType>)input.LT(1);
 <super.ruleRefRuleRootTrackAndListLabel(...)>
>>

/** Streams for token refs are tree nodes now; override to
 * change NextToken to NextNode.
 */
createRewriteNodeFromElement(token,hetero,scope) ::= <<
 <if(hetero)>
 new <hetero>(stream_<token>.NextNode())
 <else>
 stream_<token>.NextNode()
 <endif>
>>

ruleCleanUp() ::= <<
 <super.ruleCleanUp()>
 <if(!rewriteMode)>
 <if(backtracking)>if (<actions.(actionScope).synpredgate>) {<\n><endif>
 retval.tree = (<ASTLabelType>)adaptor.RulePostProcessing(root_0);
 <if(backtracking)>}<endif>
 <endif>
>>

Found in path(s):
* /opt/cola/permits/1204005060_1631853129.56/0/antlr-3-1-3-sources-4-
jar/org/antlr/codegen/templates/CSharp3/ASTTreeParser.stg
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/*
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```

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\*/

/\*\* Templates for building ASTs during tree parsing.

\*

\* Deal with many combinations. Dimensions are:

\* Auto build or rewrite

\* no label, label, list label (label/no-label handled together)

\* child, root

\* token, set, rule, wildcard

\*

\* Each combination has its own template except that label/no label

\* is combined into tokenRef, ruleRef, ...

\*/

group ASTTreeParser;

/\*\* Add a variable to track last element matched \*/

ruleDeclarations() ::= <<

<super.ruleDeclarations()>

var \_first\_0:<ASTLabelType> = null;

var \_last:<ASTLabelType> = null;<\n>

>>

/\*\* What to emit when there is no rewrite rule. For auto build

\* mode, does nothing.

```

*/
noRewrite(rewriteBlockLevel, treeLevel) ::= <<
<if(backtracking)>if (<actions.(actionScope).synpredgate>) {<endif>
<if(rewriteMode)>
retval.tree = <ASTLabelType>(_first_0);
if (adaptor.getParent(retval.tree)!=null && adaptor.isNil(adaptor.getParent(retval.tree)))
 retval.tree = <ASTLabelType>(adaptor.getParent(retval.tree));
<endif>
<if(backtracking)>}<endif>
>>

/** match ^(root children) in tree parser; override here to
 * add tree construction actions.
 */
tree(root, actionsAfterRoot, children, nullableChildList,
 enclosingTreeLevel, treeLevel) ::= <<
_last = <ASTLabelType>(input.LT(1));
{
var _save_last_<treeLevel>:<ASTLabelType> = _last;
var _first_<treeLevel>:<ASTLabelType> = null;
<if(!rewriteMode)>
var root_<treeLevel>:<ASTLabelType> = <ASTLabelType>(adaptor.nil());
<endif>
<root:element()>
<if(rewriteMode)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>)<endif>
<if(root.el.rule)>
if (_first_<enclosingTreeLevel>==null) _first_<enclosingTreeLevel> = <root.el.label>.tree;
<else>
if (_first_<enclosingTreeLevel>==null) _first_<enclosingTreeLevel> = <root.el.label>;
<endif>
<endif>
<actionsAfterRoot:element()>
<if(nullableChildList)>
if (input.LA(1)==TokenConstants.DOWN) {
 matchStream(input, TokenConstants.DOWN, null); <checkRuleBacktrackFailure()>
 <children:element()>
 matchStream(input, TokenConstants.UP, null); <checkRuleBacktrackFailure()>
}
<else>
matchStream(input, TokenConstants.DOWN, null); <checkRuleBacktrackFailure()>
<children:element()>
matchStream(input, TokenConstants.UP, null); <checkRuleBacktrackFailure()>
<endif>
<if(!rewriteMode)>
adaptor.addChild(root_<enclosingTreeLevel>, root_<treeLevel>);
<endif>
_last = _save_last_<treeLevel>;

```

```

}<\n>
>>

// TOKEN AST STUFF

/** ID! and output=AST (same as plain tokenRef) 'cept add
 * setting of _last
 */
tokenRefBang(token,label,elementIndex) ::= <<
 _last = <ASTLabelType>(input.LT(1));
 <super.tokenRef(...)>
>>

/** ID auto construct */
tokenRef(token,label,elementIndex,hetero) ::= <<
 _last = <ASTLabelType>(input.LT(1));
 <super.tokenRef(...)>
 <if(!rewriteMode)>
 <if(backtracking)>if (<actions.(actionScope).synpredgate>) {<endif>
 <if(hetero)>
 <label>_tree = new <hetero>(<label>);
 <else>
 <label>_tree = <ASTLabelType>(adaptor.dupNode(<label>));
 <endif><\n>
 adaptor.addChild(root_<treeLevel>, <label>_tree);
 <if(backtracking)>}<endif>
 <else> <! rewrite mode !>
 <if(backtracking)>if (<actions.(actionScope).synpredgate>)<endif>
 if (_first_<treeLevel>==null) _first_<treeLevel> = <label>;
 <endif>
>>

/** label+=TOKEN auto construct */
tokenRefAndListLabel(token,label,elementIndex) ::= <<
 <tokenRef(...)>
 <listLabel(elem=label,...)>
>>

/** ^(ID ...) auto construct */
tokenRefRuleRoot(token,label,elementIndex,hetero) ::= <<
 _last = <ASTLabelType>(input.LT(1));
 <super.tokenRef(...)>
 <if(!rewriteMode)>
 <if(backtracking)>if (<actions.(actionScope).synpredgate>) {<endif>
 <if(hetero)>
 <label>_tree = new <hetero>(<label>);
 <else>
 <label>_tree = <ASTLabelType>(adaptor.dupNode(<label>));

```

```

<endif><\n>
root_<treeLevel> = <ASTLabelType>(adaptor.becomeRoot(<label>_tree, root_<treeLevel>));
<if(backtracking)></endif>
<endif>
>>

/** Match ^(label+=TOKEN ...) auto construct */
tokenRefRuleRootAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRefRuleRoot(...)>
<listLabel(elem=label,...)>
>>

/** Match . wildcard and auto dup the node/subtree */
wildcard(token,label,elementIndex,hetero) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.wildcard(...)>
<if(!rewriteMode)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) {<endif>
<label>_tree = (<ASTLabelType>)adaptor.dupTree(<label>);
adaptor.addChild(root_<treeLevel>, <label>_tree);
<if(backtracking)></endif>
<else> <! rewrite mode !>
<if(backtracking)>if (<actions.(actionScope).synpredgate>)<endif>
if (_first_<treeLevel>==null) _first_<treeLevel> = <label>;
<endif>
>>

// SET AST

matchSet(s,label,hetero,elementIndex,postmatchCode) ::= <<
_last = <ASTLabelType>(input.LT(1));
<super.matchSet(..., postmatchCode={
<if(!rewriteMode)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) {<endif>
<if(hetero)>
<label>_tree = new <hetero>(<label>);
<else>
<label>_tree = <ASTLabelType>(adaptor.dupNode(<label>));
<endif><\n>
adaptor.addChild(root_<treeLevel>, <label>_tree);
<if(backtracking)></endif>
<endif>
}
)>
>>

matchRuleBlockSet(s,label,hetero,elementIndex,postmatchCode,treeLevel="0") ::= <<
<matchSet(...)>

```

```

<noRewrite()> <! set return tree !>
>>

matchSetBang(s,label,elementIndex,postmatchCode) ::= <<
_last = <ASTLabelType>(input.LT(1));
<super.matchSet(...)>
>>

matchSetRuleRoot(s,label,hetero,elementIndex,debug) ::= <<
<super.matchSet(..., postmatchCode={
<if(!rewriteMode)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) {<endif>
<if(hetero)>
<label>_tree = new <hetero>(<label>);
<else>
<label>_tree = <ASTLabelType>(adaptor.dupNode(<label>));
<endif><\n>
root_<treeLevel> = <ASTLabelType>(adaptor.becomeRoot(<label>_tree, root_<treeLevel>));
<if(backtracking)>}<endif>
<endif>
}
)>
>>

// RULE REF AST

/** rule auto construct */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
_last = <ASTLabelType>(input.LT(1));
<super.ruleRef(...)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) <endif>
<if(!rewriteMode)>
adaptor.addChild(root_<treeLevel>, <label>.tree);
<else> <! rewrite mode !>
if (_first_<treeLevel>==null) _first_<treeLevel> = <label>.tree;
<endif>
>>

/** x+=rule auto construct */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>
<listLabel(elem=label+".tree",...)>
>>

/** ^(rule ...) auto construct */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
_last = <ASTLabelType>(input.LT(1));
<super.ruleRef(...)>

```

```

<if(!rewriteMode)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) <endif>root_<treeLevel> =
<ASTLabelType>(adaptor.becomeRoot(<label>.tree, root_<treeLevel>));
<endif>
>>

/** ^(x+=rule ...) auto construct */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...)>
<listLabel(elem=label+".tree",...)>
>>

/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
_last = <ASTLabelType>(input.LT(1));
<super.ruleRefTrack(...)>
>>

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
_last = <ASTLabelType>(input.LT(1));
<super.ruleRefTrackAndListLabel(...)>
>>

/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
_last = <ASTLabelType>(input.LT(1));
<super.ruleRefRootTrack(...)>
>>

/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
_last = <ASTLabelType>(input.LT(1));
<super.ruleRefRuleRootTrackAndListLabel(...)>
>>

/** Streams for token refs are tree nodes now; override to
 * change nextToken to nextNode.
 */
createRewriteNodeFromElement(token,hetero,scope) ::= <<
<if(hetero)>
new <hetero>(stream_<token>.nextNode())
<else>
stream_<token>.nextNode()
<endif>
>>

ruleCleanUp() ::= <<

```

```
<super.ruleCleanUp(>
<if(!rewriteMode)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) {<\n><endif>
retval.tree = <ASTLabelType>(adaptor.rulePostProcessing(root_0));
<if(backtracking)>}<endif>
<endif>
>>
```

Found in path(s):

```
* /opt/cola/permits/1204005060_1631853129.56/0/antlr-3-1-3-sources-4-
jar/org/antlr/codegen/templates/ActionScript/ASTTreeParser.stg
```

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```
/*
```

```
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```

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```

```
*/
```

```
group AST;
```

```
@outputFile.imports() ::= <<
```

```
<@super.imports(>
```

```
>>
```

```
@genericParser.members() ::= <<
```

```
<@super.members(>
```



```

<parserMembers()>
>>

/** Add an adaptor property that knows how to build trees */
parserMembers() ::= <<
<!protected TreeAdaptor adaptor = new CommonTreeAdaptor();<\n>!>
setTreeAdaptor: function(adaptor) {
 this.adaptor = adaptor;
 <grammar.directDelegates:{g|<g:delegateName()>.setTreeAdaptor(this.adaptor);}>
},
getTreeAdaptor: function() {
 return this.adaptor;
},
>>

@returnScope.ruleReturnMembers() ::= <<
getTree: function() { return this.tree; }
>>

/** Add a variable to track rule's return AST */
ruleDeclarations() ::= <<
<super.ruleDeclarations()>
var root_0 = null;<\n>
>>

ruleLabelDefs() ::= <<
<super.ruleLabelDefs()>
<ruleDescriptor.tokenLabels:{ var <it.label.text>_tree=null;}; separator="\n">
<ruleDescriptor.tokenListLabels:{ var <it.label.text>_tree=null;}; separator="\n">
<ruleDescriptor.allTokenRefsInAltsWithRewrites
 :{ var stream_<it>=new org.antlr.runtime.tree.RewriteRuleTokenStream(this.adaptor,"token <it>");};
separator="\n">
<ruleDescriptor.allRuleRefsInAltsWithRewrites
 :{ var stream_<it>=new org.antlr.runtime.tree.RewriteRuleSubtreeStream(this.adaptor,"rule <it>");};
separator="\n">
>>

/** When doing auto AST construction, we must define some variables;
 * These should be turned off if doing rewrites. This must be a "mode"
 * as a rule could have both rewrite and AST within the same alternative
 * block.
 */
@alt.declarations() ::= <<
<if(autoAST)>
<if(outerAlt)>
<if(!rewriteMode)>
root_0 = this.adaptor.nil();<\n>
<endif>

```

```

<endif>
<endif>
>>

// Tracking Rule Elements

/** ID and track it for use in a rewrite rule */
tokenRefTrack(token,label,elementIndex,hetero) ::= <<
<tokenRefBang(...)> <! Track implies no auto AST construction!>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) <endif>stream_<token>.add(<label>);<\n>
>>

/** ids+=ID and track it for use in a rewrite rule; adds to ids *and*
 * to the tracking list stream_ID for use in the rewrite.
 */
tokenRefTrackAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRefTrack(...)>
<listLabel(elem=label,...)>
>>

/** ^(ID ...) track for rewrite */
tokenRefRuleRootTrack(token,label,elementIndex,hetero) ::= <<
<tokenRefBang(...)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) <endif>stream_<token>.add(<label>);<\n>
>>

/** Match ^(label+=TOKEN ...) track for rewrite */
tokenRefRuleRootTrackAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRefRuleRootTrack(...)>
<listLabel(elem=label,...)>
>>

wildcardTrack(label,elementIndex) ::= <<
<super.wildcard(...)>
>>

/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(...)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) <endif>stream_<rule.name>.add(<label>.getTree());
>>

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefTrack(...)>
<listLabel(elem=label+".getTree()",...)>
>>

```

```

/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) <endif>stream_<rule>.add(<label>.getTree());
>>

/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRootTrack(...)>
<listLabel(elem=label+".getTree()",...)>
>>

// R e w r i t e

rewriteCode(
alts, description,
referencedElementsDeep, // ALL referenced elements to right of ->
referencedTokenLabels,
referencedTokenListLabels,
referencedRuleLabels,
referencedRuleListLabels,
referencedWildcardLabels,
referencedWildcardListLabels,
rewriteBlockLevel, enclosingTreeLevel, treeLevel) ::=
<<

// AST REWRITE
// elements: <referencedElementsDeep; separator=", ">
// token labels: <referencedTokenLabels; separator=", ">
// rule labels: <referencedRuleLabels; separator=", ">
// token list labels: <referencedTokenListLabels; separator=", ">
// rule list labels: <referencedRuleListLabels; separator=", ">
<if(backtracking)>
if (<actions.(actionScope).synpredgate>) {<\n
<endif>
<prevRuleRootRef(>.tree = root_0;
<rewriteCodeLabels(>
root_0 = this.adaptor.nil();
<alts:rewriteAlt(); separator="else ">
<! if tree parser and rewrite=true !>
<if(TREE_PARSER)>
<if(rewriteMode)>
<prevRuleRootRef(>.tree = this.adaptor.rulePostProcessing(root_0);
this.input.replaceChildren(this.adaptor.getParent(retval.start),
this.adaptor.getChildIndex(retval.start),
this.adaptor.getChildIndex(_last),
retval.tree);
<endif>

```

```

<endif>
<! if parser or tree-parser && rewrite!=true, we need to set result !>
<if(!TREE_PARSER)>
<prevRuleRootRef(>.tree = root_0;
<else>
<if(!rewriteMode)>
<prevRuleRootRef(>.tree = root_0;
<endif>
<endif>
<if(backtracking)>
}
<endif>
>>

rewriteCodeLabels() ::= <<
<referencedTokenLabels
: {var stream_<it>=new org.antlr.runtime.tree.RewriteRule<rewriteElementType>Stream(this.adaptor,"token
<it>",<it>)};
separator="\n"
>
<referencedTokenListLabels
: {var stream_<it>=new org.antlr.runtime.tree.RewriteRule<rewriteElementType>Stream(this.adaptor,"token
<it>",<it>);};
separator="\n"
>
<referencedRuleLabels
: {var stream_<it>=new org.antlr.runtime.tree.RewriteRuleSubtreeStream(this.adaptor,"token
<it>",<it>!=null?<it>.tree:null)};
separator="\n"
>
<referencedRuleListLabels
: {var stream_<it>=new org.antlr.runtime.tree.RewriteRuleSubtreeStream(this.adaptor,"token <it>",<it>);};
separator="\n"
>
>>

/** Generate code for an optional rewrite block; note it uses the deep ref'd element
 * list rather shallow like other blocks.
 */
rewriteOptionalBlock(
alt,rewriteBlockLevel,
referencedElementsDeep, // all nested refs
referencedElements, // elements in immediately block; no nested blocks
description) ::=
<<
// <fileName>:<description>
if (<referencedElementsDeep:{el | stream_<el>.hasNext()}; separator="||">) {
<alt>

```

```

}
<referencedElementsDeep:{el | stream_<el>.reset();<\n>}>
>>

rewriteClosureBlock(
 alt,rewriteBlockLevel,
 referencedElementsDeep, // all nested refs
 referencedElements, // elements in immediately block; no nested blocks
 description) ::=
<<
// <fileName>:<description>
while (<referencedElements:{el | stream_<el>.hasNext()}; separator="||">) {
 <alt>
}
<referencedElements:{el | stream_<el>.reset();<\n>}>
>>

rewritePositiveClosureBlock(
 alt,rewriteBlockLevel,
 referencedElementsDeep, // all nested refs
 referencedElements, // elements in immediately block; no nested blocks
 description) ::=
<<
if (!(<referencedElements:{el | stream_<el>.hasNext()}; separator="||">)) {
 throw new org.antlr.runtime.tree.RewriteEarlyExitException();
}
while (<referencedElements:{el | stream_<el>.hasNext()}; separator="||">) {
 <alt>
}
<referencedElements:{el | stream_<el>.reset();<\n>}>
>>

rewriteAlt(a) ::= <<
// <a.description>
<if(a.pred)>
if (<a.pred>) {
 <a.alt>
}<\n>
<else>
{
 <a.alt>
}<\n>
<endif>
>>

/** For empty rewrites: "r : ... -> ;" */
rewriteEmptyAlt() ::= "root_0 = null;"

```

```

rewriteTree(root,children,description,enclosingTreeLevel,treeLevel) ::= <<
// <fileName>:<description>
{
var root_<treeLevel> = this.adaptor.nil();
<root:rewriteElement()>
<children:rewriteElement()>
this.adaptor.addChild(root_<enclosingTreeLevel>, root_<treeLevel>);
}<\n>
>>

rewriteElementList(elements) ::= "<elements:rewriteElement()>"

rewriteElement(e) ::= <<
<@pregen()>
<e.el>
>>

/** Gen ID or ID[args] */
rewriteTokenRef(token,elementIndex,hetero,args) ::= <<
this.adaptor.addChild(root_<treeLevel>, <createRewriteNodeFromElement(...)>);<\n>
>>

/** Gen $label ... where defined via label=ID */
rewriteTokenLabelRef(label,elementIndex) ::= <<
this.adaptor.addChild(root_<treeLevel>, stream_<label>.nextNode());<\n>
>>

/** Gen $label ... where defined via label+=ID */
rewriteTokenListLabelRef(label,elementIndex) ::= <<
this.adaptor.addChild(root_<treeLevel>, stream_<label>.nextNode());<\n>
>>

/** Gen ^($label ...) */
rewriteTokenLabelRefRoot(label,elementIndex) ::= <<
root_<treeLevel> = this.adaptor.becomeRoot(stream_<label>.nextNode(), root_<treeLevel>);<\n>
>>

/** Gen ^($label ...) where label+=... */
rewriteTokenListLabelRefRoot ::= rewriteTokenLabelRefRoot

/** Gen ^(ID ...) or ^(ID[args] ...) */
rewriteTokenRefRoot(token,elementIndex,hetero,args) ::= <<
root_<treeLevel> = this.adaptor.becomeRoot(<createRewriteNodeFromElement(...)>, root_<treeLevel>);<\n>
>>

rewriteImaginaryTokenRef(args,token,hetero,elementIndex) ::= <<
this.adaptor.addChild(root_<treeLevel>, <createImaginaryNode(tokenType=token, ...)>);<\n>
>>

```

```

rewriteImaginaryTokenRefRoot(args,token,hetero,elementIndex) ::= <<
root_<treeLevel> = this.adaptor.becomeRoot(<createImaginaryNode(tokenType=token, ...)>,
root_<treeLevel>);<\n>
>>

/** plain -> {foo} action */
rewriteAction(action) ::= <<
root_0 = <action>;<\n>
>>

/** What is the name of the previous value of this rule's root tree? This
* let's us refer to $rule to mean previous value. I am reusing the
* variable 'tree' sitting in retval struct to hold the value of root_0 right
* before I set it during rewrites. The assign will be to retval.tree.
*/
prevRuleRootRef() ::= "retval"

rewriteRuleRef(rule) ::= <<
this.adaptor.addChild(root_<treeLevel>, stream_<rule>.nextTree());<\n>
>>

rewriteRuleRefRoot(rule) ::= <<
root_<treeLevel> = this.adaptor.becomeRoot(stream_<rule>.nextNode(), root_<treeLevel>);<\n>
>>

rewriteNodeAction(action) ::= <<
this.adaptor.addChild(root_<treeLevel>, <action>);<\n>
>>

rewriteNodeActionRoot(action) ::= <<
root_<treeLevel> = this.adaptor.becomeRoot(<action>, root_<treeLevel>);<\n>
>>

/** Gen $ruleLabel ... where defined via ruleLabel=rule */
rewriteRuleLabelRef(label) ::= <<
this.adaptor.addChild(root_<treeLevel>, stream_<label>.nextTree());<\n>
>>

/** Gen $ruleLabel ... where defined via ruleLabel+=rule */
rewriteRuleListLabelRef(label) ::= <<
this.adaptor.addChild(root_<treeLevel>, stream_<label>.nextTree());<\n>
>>

/** Gen ^($ruleLabel ...) where ruleLabel=rule */
rewriteRuleLabelRefRoot(label) ::= <<
root_<treeLevel> = this.adaptor.becomeRoot(stream_<label>.nextNode(), root_<treeLevel>);<\n>
>>

```

```
/** Gen ^($ruleLabel ...) where ruleLabel+=rule */
rewriteRuleListLabelRefRoot(label) ::= <<
root_<treeLevel> = this.adaptor.becomeRoot(stream_<label>.nextNode(), root_<treeLevel>);<\n
>>
```

```
createImaginaryNode(tokenType,hetero,args) ::= <<
<if(hetero)>
<! new MethodNode(IDLabel, args) !>
new <hetero>(<tokenType><if(args)>, <args; separator=", "><endif>)
<else>
this.adaptor.create(<tokenType>, <args; separator=", "><if(!args)>"<tokenType>"<endif>)
<endif>
>>
```

```
createRewriteNodeFromElement(token,hetero,args) ::= <<
<if(hetero)>
new <hetero>(stream_<token>.nextToken()<if(args)>, <args; separator=", "><endif>)
<else>
<if(args)> <! must create new node from old !>
this.adaptor.create(<token>, <args; separator=", ">)
<else>
stream_<token>.nextNode()
<endif>
<endif>
>>
```

Found in path(s):

```
* /opt/cola/permits/1204005060_1631853129.56/0/antlr-3-1-3-sources-4-
jar/org/antlr/codegen/templates/JavaScript/AST.stg
```

No license file was found, but licenses were detected in source scan.

```
/*
```

```
[The "BSD licence"]
```

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```

```
http://www.temporal-wave.com
```

```
http://www.linkedin.com/in/jimidle
```

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\*/

/\*

\* This code generating template and the associated C runtime was produced by:

\* Jim Idle jim|hereisanat|idle|dotgoeshere|ws.

\* If it causes the destruction of the Universe, it will be pretty cool so long as

\* I am in a different one at the time.

\*/

group C implements ANTLRCore ;

cTypeInitMap ::= [

"int" : "0", // Integers start out being 0

"long" : "0", // Longs start out being 0

"float" : "0.0", // Floats start out being 0

"double" : "0.0", // Doubles start out being 0

"ANTLR3\_BOOLEAN" : "ANTLR3\_FALSE", // Booleans start out being Antlr C for false

"byte" : "0", // Bytes start out being 0

"short" : "0", // Shorts start out being 0

"char" : "0", // Chars start out being 0

default : "NULL" // Anything other than an atomic type (above) is a NULL (probably NULL pointer).

]

leadIn(type) ::=

<<

/\*\* \file

\* This <type> file was generated by \$ANTLR version <ANTLRVersion>

\*

\* - From the grammar source file : <fileName>

\* - On : <generatedTimestamp>

<if(LEXER)>

\* - for the lexer : <name>Lexer

<endif>

<if(PARSER)>

\* - for the parser : <name>Parser

<endif>

```

<if(TREE_PARSER)>
* - for the tree parser : <name>TreeParser
<endif>
*
* Editing it, at least manually, is not wise.
*
* C language generator and runtime by Jim Idle, jimi|hereisanat|idle|dotgoeshere|ws.
*
*
>>

/** The overall file structure of a recognizer; stores methods for rules
* and cyclic DFAs plus support code.
*/
outputFile(LEXER,
 PARSEr,
 TREE_PARSER,
 actionScope,
 actions,
 docComment,
 recognizer,
 name,
 tokens,
 tokenNames,
 rules,
 cyclicDFAs,
 bitsets,
 buildTemplate,
 buildAST,
 rewriteMode,
 profile,
 backtracking,
 synpreds,
 memoize,
 numRules,
 fileName,
 ANTLRVersion,
 generatedTimestamp,
 trace,
 scopes,
 superClass,
 literals
) ::=
<<
<leadIn("C source")>
*/
// [The "BSD licence"]
// Copyright (c) 2005-2009 Jim Idle, Temporal Wave LLC

```

```
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// http://www.linkedin.com/in/jimidle
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```

```
<if(actions.(actionScope).header)>
```

```
/* =====
```

```
* This is what the grammar programmer asked us to put at the top of every file.
```

```
*/
```

```
<actions.(actionScope).header>
```

```
/* End of Header action.
```

```
* =====
```

```
*/
```

```
<endif>
```

```
/* -----
```

```
* Include the ANTLR3 generated header file.
```

```
*/
```

```
#include "<name>.h"
```

```
<actions.(actionScope).postinclude>
```

```
/* ----- */
```

```
<docComment>
```

```
<if(literals)>
```

```

/** String literals used by <name> that we must do things like MATCHS() with.
 * C will normally just lay down 8 bit characters, and you can use L"xxx" to
 * get wchar_t, but wchar_t is 16 bits on Windows, which is not UTF32 and so
 * we perform this little trick of defining the literals as arrays of UINT32
 * and passing in the address of these.
 */
<literals:{static ANTLR3_UCHAR lit_<i>[] = <it>;}; separator="\n">

<endif>

/* MACROS that hide the C interface implementations from the
 * generated code, which makes it a little more understandable to the human eye.
 * I am very much against using C pre-processor macros for function calls and bits
 * of code as you cannot see what is happening when single stepping in debuggers
 * and so on. The exception (in my book at least) is for generated code, where you are
 * not maintaining it, but may wish to read and understand it. If you single step it, you know that input()
 * hides some indirect calls, but is always referring to the input stream. This is
 * probably more readable than ctx->input->istream->input(snarfle0->blarg) and allows me to rejig
 * the runtime interfaces without changing the generated code too often, without
 * confusing the reader of the generated output, who may not wish to know the gory
 * details of the interface inheritance.
 */

#define CTX ctx

/* Aids in accessing scopes for grammar programmers
 */
#undef SCOPE_TYPE
#undef SCOPE_STACK
#undef SCOPE_TOP
#define SCOPE_TYPE(scope) p<name>_##scope##_SCOPE
#define SCOPE_STACK(scope) p<name>_##scope##_Stack
#define SCOPE_TOP(scope) ctx->p<name>_##scope##_Top
#define SCOPE_SIZE(scope) (ctx->SCOPE_STACK(scope)->size(ctx->SCOPE_STACK(scope)))
#define SCOPE_INSTANCE(scope, i) (ctx->SCOPE_STACK(scope)->get(ctx->SCOPE_STACK(scope),i))

<if(LEXER)>

/* Macros for accessing things in a lexer
 */
#undef LEXER
#undef RECOGNIZER
#undef RULEMEMO
#undef GETCHARINDEX
#undef GETLINE

```

```

#undef GETCHARPOSITIONINLINE
#undef EMIT
#undef EMITNEW
#undef MATCHC
#undef MATCHS
#undef MATCHRANGE
#undef LTOKEN
#undef HASFAILED
#undef FAILEDFLAG
#undef INPUT
#undef STRSTREAM
#undef LA
#undef HASEXCEPTION
#undef EXCEPTION
#undef CONSTRUCTEX
#undef CONSUME
#undef LRECOVER
#undef MARK
#undef REWIND
#undef REWINDLAST
#undef BACKTRACKING
#undef MATCHANY
#undef MEMOIZE
#undef HAVEPARSEDRULE
#undef GETTEXT
#undef INDEX
#undef SEEK
#undef PUSHSTREAM
#undef POPSTREAM
#undef SETTEXT
#undef SETTEXT8

#define LEXER ctx->pLexer
#define RECOGNIZER LEXER->rec
#define LEXSTATE RECOGNIZER->state
#define TOKSOURCE LEXSTATE->tokSource
#define GETCHARINDEX() LEXER->getCharIndex(LEXER)
#define GETLINE() LEXER->getLine(LEXER)
#define GETTEXT() LEXER->getText(LEXER)
#define GETCHARPOSITIONINLINE() LEXER->getCharPositionInLine(LEXER)
#define EMIT() LEXSTATE->type = _type; LEXER->emit(LEXER)
#define EMITNEW(t) LEXER->emitNew(LEXER, t)
#define MATCHC(c) LEXER->matchc(LEXER, c)
#define MATCHS(s) LEXER->matchs(LEXER, s)
#define MATCHRANGE(c1,c2) LEXER->matchRange(LEXER, c1, c2)
#define MATCHANY() LEXER->matchAny(LEXER)
#define LTOKEN LEXSTATE->token
#define HASFAILED() (LEXSTATE->failed == ANTLR3_TRUE)

```

```

#define BACKTRACKING LEXSTATE->backtracking
#define FAILEDFLAG LEXSTATE->failed
#define INPUT LEXER->input
#define STRSTREAM INPUT
#define ISTREAM INPUT->istream
#define INDEX() ISTREAM->index(ISTREAM)
#define SEEK(n) ISTREAM->seek(ISTREAM, n)
#define EOF_TOKEN &(LEXSTATE->tokSource->eofToken)
#define HASEXCEPTION() (LEXSTATE->error == ANTLR3_TRUE)
#define EXCEPTION LEXSTATE->exception
#define CONSTRUCTEX() RECOGNIZER->exConstruct(RECOGNIZER)
#define LRECOVER() LEXER->recover(LEXER)
#define MARK() ISTREAM->mark(ISTREAM)
#define REWIND(m) ISTREAM->rewind(ISTREAM, m)
#define REWINDLAST() ISTREAM->rewindLast(ISTREAM)
#define MEMOIZE(ri,si) RECOGNIZER->memoize(RECOGNIZER, ri, si)
#define HAVEPARSEDRULE(r) RECOGNIZER->alreadyParsedRule(RECOGNIZER, r)
#define PUSHSTREAM(str) LEXER->pushCharStream(LEXER, str)
#define POPSTREAM() LEXER->popCharStream(LEXER)
#define SETTEXT(str) LEXSTATE->text = str
#define SKIP() LEXSTATE->token = &(TOKSOURCE->skipToken)
#define USER1 LEXSTATE->user1
#define USER2 LEXSTATE->user2
#define USER3 LEXSTATE->user3
#define CUSTOM LEXSTATE->custom
#define RULEMEMO LEXSTATE->ruleMemo
#define DBG RECOGNIZER->debugger

/* If we have been told we can rely on the standard 8 bit or 16 bit input
 * stream, then we can define our macros to use the direct pointers
 * in the input object, which is much faster than indirect calls. This
 * is really only significant to lexers with a lot of fragment rules (which
 * do not place LA(1) in a temporary at the moment) and even then
 * only if there is a lot of input (order of say 1M or so).
 */
#if defined(ANTLR3_INLINE_INPUT_ASCII) || defined(ANTLR3_INLINE_INPUT_UTF16)

ifdef ANTLR3_INLINE_INPUT_ASCII

/* 8 bit "ASCII" (actually any 8 bit character set) */

define NEXTCHAR ((pANTLR3_UINT8)(INPUT->nextChar))
define DATAP ((pANTLR3_UINT8)(INPUT->data))

else

define NEXTCHAR ((pANTLR3_UINT16)(INPUT->nextChar))
define DATAP ((pANTLR3_UINT16)(INPUT->data))

```

```

endif

define LA(n) ((NEXTCHAR + n) > (DATAP + INPUT->sizeBuf) ? ANTLR3_CHARSTREAM_EOF :
(ANTLR3_UCHAR)(*NEXTCHAR + n - 1))
define CONSUME() \
{ \
if (NEXTCHAR < (DATAP + INPUT->sizeBuf)) \
{ \
INPUT->charPositionInLine++; \
if ((ANTLR3_UCHAR)(*NEXTCHAR) == INPUT->newlineChar) \
{ \
INPUT->line++; \
INPUT->charPositionInLine = 0; \
INPUT->currentLine = (void *) (NEXTCHAR + 1); \
} \
INPUT->nextChar = (void *) (NEXTCHAR + 1); \
} \
}

#else

// Pick up the input character by calling the input stream implementation.
//
#define CONSUME() INPUT->istream->consume(INPUT->istream)
#define LA(n) INPUT->istream->_LA(INPUT->istream, n)

#endif
<endif>

<if(PARSER)>
/* Macros for accessing things in the parser
*/

#undef PARSE
#undef RECOGNIZER
#undef HAVEPARSEDRULE
#undef MEMOIZE
#undef INPUT
#undef STRSTREAM
#undef HASEXCEPTION
#undef EXCEPTION
#undef MATCHT
#undef MATCHANYT
#undef FOLLOWSTACK
#undef FOLLOWPUSH
#undef FOLLOWPOP
#undef PRECOVER

```

```

#undef PREPORTERROR
#undef LA
#undef LT
#undef CONSTRUCTEX
#undef CONSUME
#undef MARK
#undef REWIND
#undef REWINDLAST
#undef PERRORRECOVERY
#undef HASFAILED
#undef FAILEDFLAG
#undef RECOVERFROMMISMATCHEDSET
#undef RECOVERFROMMISMATCHEDELEMENT
#undef INDEX
#undef ADAPTOR
#undef SEEK
#undef RULEMEMO
#undef DBG

#define PARSE ctx->pParser
#define RECOGNIZER PARSE->rec
#define PSRSTATE RECOGNIZER->state
#define HAVEPARSED(r) RECOGNIZER->alreadyParsedRule(RECOGNIZER, r)
#define MEMOIZE(ri,si) RECOGNIZER->memoize(RECOGNIZER, ri, si)
#define INPUT PARSE->tstream
#define STRSTREAM INPUT
#define ISTREAM INPUT->istream
#define INDEX() ISTREAM->index(INPUT->istream)
#define HASEXCEPTION() (PSRSTATE->error == ANTLR3_TRUE)
#define EXCEPTION PSRSTATE->exception
#define MATCH(t, fs) RECOGNIZER->match(RECOGNIZER, t, fs)
#define MATCHANY() RECOGNIZER->matchAny(RECOGNIZER)
#define FOLLOWSTACK PSRSTATE->following
#define FOLLOWPUSH(x) FOLLOWSTACK->push(FOLLOWSTACK, ((void *)&(x)), NULL)
#define FOLLOWPOP() FOLLOWSTACK->pop(FOLLOWSTACK)
#define PRECOVER() RECOGNIZER->recover(RECOGNIZER)
#define PREPORTERROR() RECOGNIZER->reportError(RECOGNIZER)
#define LA(n) INPUT->istream->_LA(ISTREAM, n)
#define LT(n) INPUT->_LT(INPUT, n)
#define CONSTRUCTEX() RECOGNIZER->exConstruct(RECOGNIZER)
#define CONSUME() ISTREAM->consume(ISTREAM)
#define MARK() ISTREAM->mark(ISTREAM)
#define REWIND(m) ISTREAM->rewind(ISTREAM, m)
#define REWINDLAST() ISTREAM->rewindLast(ISTREAM)
#define SEEK(n) ISTREAM->seek(ISTREAM, n)
#define PERRORRECOVERY PSRSTATE->errorRecovery
#define FAILEDFLAG PSRSTATE->failed
#define HASFAILED() (FAILEDFLAG == ANTLR3_TRUE)

```



```

#define BACKTRACKING PSRSTATE->backtracking
#define RECOVERFROMMISMATCHEDSET(s) RECOGNIZER->recoverFromMismatchedSet(RECOGNIZER,
s)
#define RECOVERFROMMISMATCHEDELEMENT(e) RECOGNIZER-
>recoverFromMismatchedElement(RECOGNIZER, s)
#define ADAPTOR ctx->adaptor
#define RULEMEMO PSRSTATE->ruleMemo
#define DBG RECOGNIZER->debugger

<endif>

<if(TREE_PARSER)>
/* Macros for accessing things in the parser
*/

#undef PARSER
#undef RECOGNIZER
#undef HAVEPARSEDRULE
#undef INPUT
#undef STRSTREAM
#undef HASEXCEPTION
#undef EXCEPTION
#undef MATCHT
#undef MATCHANYT
#undef FOLLOWSTACK
#undef FOLLOWPUSH
#undef FOLLOWPOP
#undef PRECOVER
#undef PREPORTERROR
#undef LA
#undef LT
#undef CONSTRUCTEX
#undef CONSUME
#undef MARK
#undef REWIND
#undef REWINDLAST
#undef PERRORRECOVERY
#undef HASFAILED
#undef FAILEDFLAG
#undef RECOVERFROMMISMATCHEDSET
#undef RECOVERFROMMISMATCHEDELEMENT
#undef BACKTRACKING
#undef ADAPTOR
#undef RULEMEMO
#undef SEEK
#undef INDEX
#undef DBG

```

```

#define PARSER ctx->pTreeParser
#define RECOGNIZER PARSER->rec
#define PSRSTATE RECOGNIZER->state
#define HAVEPARSEDRULE(r) RECOGNIZER->alreadyParsedRule(RECOGNIZER, r)
#define INPUT PARSER->ctnstream
#define ISTREAM INPUT->tnstream->istream
#define STRSTREAM INPUT->tnstream
#define HASEXCEPTION() (PSRSTATE->error == ANTLR3_TRUE)
#define EXCEPTION PSRSTATE->exception
#define MATCHT(t, fs) RECOGNIZER->match(RECOGNIZER, t, fs)
#define MATCHANYT() RECOGNIZER->matchAny(RECOGNIZER)
#define FOLLOWSTACK PSRSTATE->following
#define FOLLOWPUSH(x) FOLLOWSTACK->push(FOLLOWSTACK, ((void *)&(x)), NULL)
#define FOLLOWPOP() FOLLOWSTACK->pop(FOLLOWSTACK)
#define PRECOVER() RECOGNIZER->recover(RECOGNIZER)
#define PREPORTERROR() RECOGNIZER->reportError(RECOGNIZER)
#define LA(n) ISTREAM->_LA(ISTREAM, n)
#define LT(n) INPUT->tnstream->_LT(INPUT->tnstream, n)
#define CONSTRUCTEX() RECOGNIZER->exConstruct(RECOGNIZER)
#define CONSUME() ISTREAM->consume(ISTREAM)
#define MARK() ISTREAM->mark(ISTREAM)
#define REWIND(m) ISTREAM->rewind(ISTREAM, m)
#define REWINDLAST() ISTREAM->rewindLast(ISTREAM)
#define PERRORRECOVERY PSRSTATE->errorRecovery
#define FAILEDFLAG PSRSTATE->failed
#define HASFAILED() (FAILEDFLAG == ANTLR3_TRUE)
#define BACKTRACKING PSRSTATE->backtracking
#define RECOVERFROMMISMATCHEDSET(s) RECOGNIZER->recoverFromMismatchedSet(RECOGNIZER,
s)
#define RECOVERFROMMISMATCHEDELEMENT(e) RECOGNIZER-
>recoverFromMismatchedElement(RECOGNIZER, s)
#define ADAPTOR INPUT->adaptor
#define RULEMEMO PSRSTATE->ruleMemo
#define SEEK(n) ISTREAM->seek(ISTREAM, n)
#define INDEX() ISTREAM->index(ISTREAM)
#define DBG RECOGNIZER->debugger

```

```
<endif>
```

```
#define TOKTEXT(tok, txt) tok, (pANTLR3_UINT8)txt
```

```

/* The 4 tokens defined below may well clash with your own #defines or token types. If so
* then for the present you must use different names for your defines as these are hard coded
* in the code generator. It would be better not to use such names internally, and maybe
* we can change this in a forthcoming release. I deliberately do not #undef these
* here as this will at least give you a redefined error somewhere if they clash.
*/

```

```
#define UP ANTLR3_TOKEN_UP
#define DOWN ANTLR3_TOKEN_DOWN
#define EOR ANTLR3_TOKEN_EOR
#define INVALID ANTLR3_TOKEN_INVALID
```

```
/* =====
 * Functions to create and destroy scopes. First come the rule scopes, followed
 * by the global declared scopes.
 */
```

```
<rules: {r |<if(r.ruleDescriptor.ruleScope)>
<ruleAttributeScopeFuncDecl(scope=r.ruleDescriptor.ruleScope)>
<ruleAttributeScopeFuncs(scope=r.ruleDescriptor.ruleScope)>
<endif>}>
```

```
<recognizer.scopes:{<if(it.isDynamicGlobalScope)>
<globalAttributeScopeFuncDecl(scope=it)>
<globalAttributeScopeFuncs(scope=it)>
<endif>}>
```

```
/* ===== */
```

```
/* =====
 * Start of recognizer
 */
```

```
<recognizer>
```

```
/* End of code
```

```
* =====
*/
```

```
>>
```

```
headerFileExtension() ::= ".h"
```

```
headerFile(LEXER,
 PARSER,
 TREE_PARSER,
 actionScope,
 actions,
 docComment,
 recognizer,
 name,
 tokens,
 tokenNames,
 rules,
 cyclicDFAs,
```

```

 bitsets,
 buildTemplate,
 buildAST,
 rewriteMode,
 profile,
 backtracking,
 synpreds,
 memoize,
 numRules,
 fileName,
 ANTLRVersion,
 generatedTimestamp,
 trace,
 scopes,
 superClass,
 literals
) ::=

```

```
<<
```

```
<leadIn("C header")>
```

```
<if(PARSER)>
```

```
* The parser <mainName()>
```

```
<endif>
```

```
<if(LEXER)>
```

```
* The lexer <mainName()>
```

```
<endif>
```

```
<if(TREE_PARSER)>
```

```
* The tree parser <mainName()>
```

```
<endif>
```

has the callable functions (rules) shown below,

- \* which will invoke the code for the associated rule in the source grammar

- \* assuming that the input stream is pointing to a token/text stream that could begin

- \* this rule.

\*

- \* For instance if you call the first (topmost) rule in a parser grammar, you will

- \* get the results of a full parse, but calling a rule half way through the grammar will

- \* allow you to pass part of a full token stream to the parser, such as for syntax checking

- \* in editors and so on.

\*

- \* The parser entry points are called indirectly (by function pointer to function) via

- \* a parser context typedef p<name>, which is returned from a call to <name>New().

\*

```
<if(LEXER)>
```

- \* As this is a generated lexer, it is unlikely you will call it 'manually'. However

- \* the methods are provided anyway.

\*

```
<endif>
```

- \* The methods in p<name> are as follows:

\*

```

* <rules: {r | <if(!r.ruleDescriptor.isSynPred)> - <headerReturnType(ruleDescriptor=r.ruleDescriptor,...)>
p<name>-><r.ruleDescriptor.name>(p<name><endf>}; separator="\n * ">
*
* The return type for any particular rule is of course determined by the source
* grammar file.
*/
// [The "BSD licence"]
// Copyright (c) 2005-2009 Jim Idle, Temporal Wave LLC
// http://www.temporal-wave.com
// http://www.linkedin.com/in/jimidle
//
// All rights reserved.
//
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// 2. Redistributions in binary form must reproduce the above copyright
// notice, this list of conditions and the following disclaimer in the
// documentation and/or other materials provided with the distribution.
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// derived from this software without specific prior written permission.
//
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// OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
// IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
// INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
// NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
// DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
// THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
// (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
// THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

#ifndef _<name>_H
#define _<name>_H
<actions.(actionScope).preincludes>
/* =====
* Standard antlr3 C runtime definitions
*/
#include \<antlr3.h>

/* End of standard antlr 3 runtime definitions
* =====
*/
<actions.(actionScope).includes>

```

```

#ifdef __cplusplus
extern "C" {
#endif

// Forward declare the context typedef so that we can use it before it is
// properly defined. Delegates and delegates (from import statements) are
// interdependent and their context structures contain pointers to each other
// C only allows such things to be declared if you pre-declare the typedef.
//
typedef struct <name>_Ctx_struct <name>, * p<name>;

<if(recognizer.grammar.delegates)>
// Include delegate definition header files
//
<recognizer.grammar.delegates: {g|#include \<<g.recognizerName>.h>}; separator="\n">

<endif>

<actions.(actionScope).header>

#ifdef ANTLR3_WINDOWS
// Disable: Unreferenced parameter, - Rules with parameters that are not used
// constant conditional, - ANTLR realizes that a prediction is always true (synpred usually)
// initialized but unused variable - tree rewrite variables declared but not needed
// Unreferenced local variable - lexer rule declares but does not always use _type
// potentially uninitialized variable used - retval always returned from a rule
// unreferenced local function has been removed - susually getTokenNames or freeScope, they can go without
warnigns
//
// These are only really displayed at warning level /W4 but that is the code ideal I am aiming at
// and the codegen must generate some of these warnings by necessity, apart from 4100, which is
// usually generated when a parser rule is given a parameter that it does not use. Mostly though
// this is a matter of orthogonality hence I disable that one.
//
#pragma warning(disable : 4100)
#pragma warning(disable : 4101)
#pragma warning(disable : 4127)
#pragma warning(disable : 4189)
#pragma warning(disable : 4505)
#pragma warning(disable : 4701)
#endif
<if(backtracking)>

/* =====
* BACKTRACKING IS ENABLED
* =====
*/

```

```

<endif>

<rules:{r |<headerReturnScope(ruleDescriptor=r.ruleDescriptor,...)>}>

<scopes:{<if(it.isDynamicGlobalScope)><globalAttributeScopeDecl(scope=it)><endif>}>
<rules:{r |<ruleAttributeScopeDecl(scope=r.ruleDescriptor.ruleScope)>}>
<if(recognizer.grammar.delegators)>
// Include delegator definition header files
//
<recognizer.grammar.delegators: {g|#include \<<g.recognizerName>.h>; separator="\n">

<endif>

/** Context tracking structure for <mainName()>
*/
struct <name>_Ctx_struct
{
/** Built in ANTLR3 context tracker contains all the generic elements
* required for context tracking.
*/
<if(PARSER)>
pANTLR3_PARSER pParser;
<endif>
<if(LEXER)>
pANTLR3_LEXER pLexer;
<endif>
<if(TREE_PARSER)>
pANTLR3_TREE_PARSER pTreeParser;
<endif>

<if(recognizer.grammar.delegates)>
<recognizer.grammar.delegates:
{g|p<g.recognizerName> <g.delegateName()>; separator="\n">
<endif>
<if(recognizer.grammar.delegators)>
<recognizer.grammar.delegators:
{g|p<g.recognizerName> <g.delegateName()>; separator="\n">
<endif>
<scopes:{<if(it.isDynamicGlobalScope)>
<globalAttributeScopeDef(scope=it)>
<endif>}; separator="\n\n">
<rules: {r |<if(r.ruleDescriptor.ruleScope)>
<ruleAttributeScopeDef(scope=r.ruleDescriptor.ruleScope)>
<endif>}>

<if(LEXER)>
<rules:{r |<if(!r.ruleDescriptor.isSynPred)><headerReturnType(ruleDescriptor=r.ruleDescriptor)>
(*m<r.ruleDescriptor.name>) (struct <name>_Ctx_struct * ctx<if(r.ruleDescriptor.parameterScope)>,

```

```

<endif><r.ruleDescriptor.parameterScope:parameterScope(scope=it)>;<endif>; separator="\n";>
<endif>
<if(!LEXER)>
 <rules:{r | <headerReturnType(ruleDescriptor=r.ruleDescriptor)> (*<r.ruleDescriptor.name>) (struct
<name>_Ctx_struct * ctx<if(r.ruleDescriptor.parameterScope)>,
<endif><r.ruleDescriptor.parameterScope:parameterScope(scope=it)>);}; separator="\n";>
<! generate rule/method definitions for imported rules so they
 appear to be defined in this recognizer. !>
 // Delegated rules
<recognizer.grammar.delegatedRules:{ruleDescriptor|
 <headerReturnType(ruleDescriptor)> (*<ruleDescriptor.name>)(struct <name>_Ctx_struct *
 ctx<if(ruleDescriptor.parameterScope)>, <endif><ruleDescriptor.parameterScope:parameterScope(scope=it)>);};
 separator="\n";>
<endif>
 const char * (*getGrammarFileName());
 void (*free) (struct <name>_Ctx_struct * ctx);
 <@members>
 <@end>
 <actions.(actionScope).context>
};

// Function prototypes for the constructor functions that external translation units
// such as delegators and delegates may wish to call.
//
ANTLR3_API p<name> <name>New (<inputType()> instream<recognizer.grammar.delegators:{g|,
p<g.recognizerName> <g.delegateName()>}>);
ANTLR3_API p<name> <name>NewSSD (<inputType()> instream,
pANTLR3_RECOGNIZER_SHARED_STATE state<recognizer.grammar.delegators:{g|, p<g.recognizerName>
<g.delegateName()>}>);
<if(!recognizer.grammar.grammarIsRoot)>
extern pANTLR3_UINT8 <recognizer.grammar.composite.rootGrammar.recognizerName>TokenNames[];
<endif>

/** Symbolic definitions of all the tokens that the <grammarType()> will work with.
 * \{
 *
 * Antlr will define EOF, but we can't use that as it is too common in
 * in C header files and that would be confusing. There is no way to filter this out at the moment
 * so we just undef it here for now. That isn't the value we get back from C recognizers
 * anyway. We are looking for ANTLR3_TOKEN_EOF.
 */
#ifdef EOF
#undef EOF
#endif
#ifdef Tokens
#undef Tokens
#endif

```



```

<tokens:{#define <it.name> <it.type>}; separator="\n">
#ifdef EOF
#undef EOF
#define EOF ANTLR3_TOKEN_EOF
#endif

#ifdef TOKENSOURCE
#define TOKENSOURCE(lxr) lxr->pLexer->rec->state->tokSource
#endif

/* End of token definitions for <name>
* =====
*/
/** \} */

#ifdef __cplusplus
}
#endif

#endif

/* END - Note:Keep extra line feed to satisfy UNIX systems */

>>

inputType() ::= <<
<if(LEXER)>
pANTLR3_INPUT_STREAM
<endif>
<if(PARSER)>
pANTLR3_COMMON_TOKEN_STREAM
<endif>
<if(TREE_PARSER)>
pANTLR3_COMMON_TREE_NODE_STREAM
<endif>
>>

grammarType() ::= <<
<if(PARSER)>
parser
<endif>
<if(LEXER)>
lexer
<endif>
<if(TREE_PARSER)>
tree parser
<endif>
>>

```

```

mainName() ::= <<
<if(PARSER)>
<name>
<endif>
<if(LEXER)>
<name>
<endif>
<if(TREE_PARSER)>
<name>
<endif>
>>

headerReturnScope(ruleDescriptor) ::= "<returnScope(...)>"

headerReturnType(ruleDescriptor) ::= <<
<if(LEXER)>
<if(!r.ruleDescriptor.isSynPred)>
void
<else>
<ruleDescriptor:returnType()>
<endif>
<else>
<ruleDescriptor:returnType()>
<endif>
>>

// Produce the lexer output
//
lexer(grammar,
 name,
 tokens,
 scopes,
 rules,
 numRules,
 labelType="pANTLR3_COMMON_TOKEN",
 filterMode,
 superClass) ::= <<

<if(filterMode)>
/* Forward declare implementation function for ANTLR3_TOKEN_SOURCE interface when
* this is a filter mode lexer.
*/
static pANTLR3_COMMON_TOKEN <name>NextToken (pANTLR3_TOKEN_SOURCE toksource);

/* Override the normal MEMOIZE and HAVEALREADYPARSED macros as this is a filtering
* lexer. In filter mode, the memoizing and backtracking are gated at BACKTRACKING > 1 rather
* than just BACKTRACKING. In some cases this might generate code akin to:

```

```

* if (BACKTRACKING) if (BACKTRACKING > 1) memoize.
* However, I assume that the C compilers/optimizers are smart enough to work this one out
* these days - Jim
*/
#undef MEMOIZE
#define MEMOIZE(ri,si) if (BACKTRACKING>1) { RECOGNIZER->memoize(RECOGNIZER, ri, si) }
#undef HAVEPARSEDRULE
#define HAVEPARSEDRULE(r) if (BACKTRACKING>1) { RECOGNIZER->alreadyParsedRule(RECOGNIZER,
r) }
<endif>

/* Forward declare the locally static matching functions we have generated and any predicate functions.
*/
<rules:{r | static ANTLR3_INLINE <headerReturnType(ruleDescriptor=r.ruleDescriptor)>
<if(!r.ruleDescriptor.isSynPred)>m<endif><r.ruleDescriptor.name> (p<name>
ctx<if(r.ruleDescriptor.parameterScope)>, <endif><r.ruleDescriptor.parameterScope:parameterScope(scope=it)>);};
separator="\n";>
static void <name>Free(p<name> ctx);

/* =====
* Lexer matching rules end.
* =====
*/

<scopes:{<if(it.isDynamicGlobalScope)><globalAttributeScope(scope=it)><endif>}>

<actions.lexer.members>

static void
<name>Free (p<name> ctx)
{
<if(memoize)>
if (RULEMEMO != NULL)
{
RULEMEMO->free(RULEMEMO);
RULEMEMO = NULL;
}
<endif>
<if(grammar.directDelegates)>
// Free the lexers that we delegated to
// functions to. NULL the state so we only free it once.
//
<grammar.directDelegates:
{g|ctx-><g.delegateName()->pLexer->rec->state = NULL;
ctx-><g.delegateName()->free(ctx-><g.delegateName()->);}; separator="\n">
<endif>
LEXER->free(LEXER);

```

```

 ANTLR3_FREE(ctx);
}

/** \brief Name of the grammar file that generated this code
 */
static const char fileName[] = "<fileName>";

/** \brief Return the name of the grammar file that generated this code.
 */
static const char * getGrammarFileName()
{
 return fileName;
}

<if(filterMode)>
 <filteringNextToken()>
<endif>

/** \brief Create a new lexer called <name>
 *
 * \param[in] instream Pointer to an initialized input stream
 * \return
 * - Success p<name> initialized for the lex start
 * - Fail NULL
 */
ANTLR3_API p<name> <name>New
(<inputType()> instream<grammar.delegators:{g|, p<g.recognizerName> <g.delegateName()>>>)
{
 // See if we can create a new lexer with the standard constructor
 //
 return <name>NewSSD(instream, NULL<grammar.delegators:{g|, <g.delegateName()>>>);
}

/** \brief Create a new lexer called <name>
 *
 * \param[in] instream Pointer to an initialized input stream
 * \param[state] state Previously created shared recognizer stat
 * \return
 * - Success p<name> initialized for the lex start
 * - Fail NULL
 */
ANTLR3_API p<name> <name>NewSSD
(pANTLR3_INPUT_STREAM instream, pANTLR3_RECOGNIZER_SHARED_STATE
state<grammar.delegators:{g|, p<g.recognizerName> <g.delegateName()>>>)
{
 p<name> ctx; // Context structure we will build and return

 ctx = (p<name>) ANTLR3_CALLOC(1, sizeof(<name>));

```

```

if (ctx == NULL)
{
 // Failed to allocate memory for lexer context
 return NULL;
}

/* -----
 * Memory for basic structure is allocated, now to fill in
 * in base ANTLR3 structures. We initialize the function pointers
 * for the standard ANTLR3 lexer function set, but upon return
 * from here, the programmer may set the pointers to provide custom
 * implementations of each function.
 *
 * We don't use the macros defined in <name>.h here so you can get a sense
 * of what goes where.
 */

/* Create a base lexer, using the supplied input stream
 */
ctx->pLexer = antlr3LexerNewStream(ANTLR3_SIZE_HINT, instream, state);

/* Check that we allocated the memory correctly
 */
if (ctx->pLexer == NULL)
{
 ANTLR3_FREE(ctx);
 return NULL;
}
<if(memoize)>
<if(grammar.grammarIsRoot)>
 // Create a LIST for recording rule memos.
 //
 ctx->pLexer->rec->ruleMemo = antlr3IntTrieNew(15); /* 16 bit depth is enough for 32768 rules! */
<endif>
<endif>

/* Install the implementation of our <name> interface
 */
<rules:{r | <if(!r.ruleDescriptor.isSynPred)>ctx->m<r.ruleDescriptor.name> =
m<r.ruleDescriptor.name>;<endif>}; separator="\n";>

/** When the nextToken() call is made to this lexer's pANTLR3_TOKEN_SOURCE
 * it will call mTokens() in this generated code, and will pass it the ctx
 * pointer of this lexer, not the context of the base lexer, so store that now.
 */
ctx->pLexer->ctx = ctx;

```

```

/**Install the token matching function
*/
ctx->pLexer->mTokens = (void (*)(void *))(mTokens);

ctx->getGrammarFileName = getGrammarFileName;
ctx->free = <name>Free;

<if(grammar.directDelegates)>
// Initialize the lexers that we are going to delegate some
// functions to.
//
<grammar.directDelegates:
 {g|ctx-><g:delegateName()> = <g.recognizerName>NewSSD(instream, ctx->pLexer->rec->state,
ctx<grammar.delegates:{g|, <g:delegateName()>}>); separator="\n">
<endif>
<if(grammar.delegates)>
// Install the pointers back to lexers that will delegate us to perform certain functions
// for them.
//
<grammar.delegates:
 {g|ctx-><g:delegateName()> = <g:delegateName()>;}; separator="\n">
<endif>
<if(filterMode)>
/* We have filter mode turned on, so install the filtering nextToken function
*/
ctx->pLexer->rec->state->tokSource->nextToken = <name>NextToken;
<endif>
<actions.lexer.apifuncs>

/* Return the newly built lexer to the caller
*/
return ctx;
}
<if(cyclicDFAs)>

/* =====
* DFA tables for the lexer
*/
<cyclicDFAs:cyclicDFA()> <! dump tables for all DFA !>
/* =====
* End of DFA tables for the lexer
*/
<endif>

/* =====
* Functions to match the lexer grammar defined tokens from the input stream
*/

```

```

<rules; separator="\n\n">

/* =====
 * Lexer matching rules end.
 * =====
 */
<if(synpreds)>

/* =====
 * Lexer syntactic predicates
 */
<synpreds:{p | <lexerSynpred(predname=p)>}>
/* =====
 * Lexer syntactic predicates end.
 * =====
 */
<endif>

/* End of Lexer code
 * =====
 * =====
 */

>>

```

```

filteringNextToken() ::= <<
/** An override of the lexer's nextToken() method that backtracks over mTokens() looking
 * for matches in lexer filterMode. No error can be generated upon error; just rewind, consume
 * a token and then try again. BACKTRACKING needs to be set as well.
 * Make rule memoization happen only at levels above 1 as we start mTokens
 * at BACKTRACKING==1.
 */

```

```

static pANTLR3_COMMON_TOKEN
<name>NextToken(pANTLR3_TOKEN_SOURCE toksource)
{
 pANTLR3_LEXER lexer;
 pANTLR3_RECOGNIZER_SHARED_STATE state;

 lexer = (pANTLR3_LEXER)(toksource->super);
 state = lexer->rec->state;

 /* Get rid of any previous token (token factory takes care of
 * any deallocation when this token is finally used up.
 */
 state ->token = NULL;
 state ->error = ANTLR3_FALSE; /* Start out without an exception */
 state ->failed = ANTLR3_FALSE;

```

```

/* Record the start of the token in our input stream.
*/
state->tokenStartCharIndex = lexer->input->istream->index(lexer->input->istream);
state->tokenStartCharPositionInLine = lexer->input->getCharPositionInLine(lexer->input);
state->tokenStartLine = lexer->input->getLine(lexer->input);
state->text = NULL;

/* Now call the matching rules and see if we can generate a new token
*/
for (;;)
{
if (lexer->input->istream->_LA(lexer->input->istream, 1) == ANTLR3_CHARSTREAM_EOF)
{
/* Reached the end of the stream, nothing more to do.
*/
pANTLR3_COMMON_TOKEN teof = &(toksource->eofToken);

teof->setStartIndex (teof, lexer->getCharIndex(lexer));
teof->setStopIndex (teof, lexer->getCharIndex(lexer));
teof->setLine (teof, lexer->getLine(lexer));
return teof;
}

state->token = NULL;
state->error = ANTLR3_FALSE; /* Start out without an exception */

{
ANTLR3_MARKER m;

m = lexer->input->istream->mark(lexer->input->istream);
state->backtracking = 1; /* No exceptions */
state->failed = ANTLR3_FALSE;

/* Call the generated lexer, see if it can get a new token together.
*/
lexer->mTokens(lexer->ctx);
state->backtracking = 0;

<! mTokens backtracks with synpred at BACKTRACKING==2
and we set the synpredgate to allow actions at level 1. !>

if (state->failed == ANTLR3_TRUE)
{
lexer->input->istream->rewind(lexer->input->istream, m);
lexer->input->istream->consume(lexer->input->istream); <! advance one char and try again !>
}
else

```



```

{
lexer->emit(lexer); /* Assemble the token and emit it to the stream */
return state->token;
}
}
}
}
}
>>

```

```

actionGate() ::= "BACKTRACKING==0"

```

```

filteringActionGate() ::= "BACKTRACKING==1"

```

```

/** How to generate a parser */

```

```

genericParser(grammar,
name,
scopes,
tokens,
tokenNames,
rules,
numRules,
bitsets,
inputStreamType,
superClass,
ASTLabelType="pANTLR3_BASE_TREE",
labelType,
members,
rewriteElementType, filterMode
) ::= <<

```

```

<if(grammar.grammarIsRoot)>

```

```

/** \brief Table of all token names in symbolic order, mainly used for

```

```

* error reporting.

```

```

*/

```

```

pANTLR3_UINT8 <name>TokenNames[<length(tokenNames)>+4]

```

```

= {

```

```

(pANTLR3_UINT8) "\<invalid>", /* String to print to indicate an invalid token */

```

```

(pANTLR3_UINT8) "\<EOR>",

```

```

(pANTLR3_UINT8) "\<DOWN>",

```

```

(pANTLR3_UINT8) "\<UP>",

```

```

<tokenNames:{(pANTLR3_UINT8) <it>}; separator=",\n">

```

```

};

```

```

<endif>

```

```

<@members>

```

```

<@end>

```

```

<rules:{r |<ruleAttributeScopeFuncMacro(scope=r.ruleDescriptor.ruleScope)>>
<scopes:{<if(it.isDynamicGlobalScope)><globalAttributeScopeFuncMacro(scope=it)><endif>>}>

// Forward declare the locally static matching functions we have generated.
//
<rules:{r | static <headerReturnType(ruleDescriptor=r.ruleDescriptor)> <r.ruleDescriptor.name> (p<name>
ctx<if(r.ruleDescriptor.parameterScope)>, <endif><r.ruleDescriptor.parameterScope:parameterScope(scope=it)>);};
separator="\n";>
static void <name>Free(p<name> ctx);
<if(!LEXER)>
<! generate rule/method definitions for imported rules so they
appear to be defined in this recognizer. !>
<if(recognizer.grammar.delegatedRules)>
// Delegated rules
//
<recognizer.grammar.delegatedRules:{ruleDescriptor|static <headerReturnType(ruleDescriptor)>
<ruleDescriptor.name>(p<name> ctx<if(ruleDescriptor.parameterScope)>,
<endif><r.ruleDescriptor.parameterScope:parameterScope(scope=it)>);}; separator="\n";>

<endif>
<endif>

/* For use in tree output where we are accumulating rule labels via label += ruleRef
* we need a function that knows how to free a return scope when the list is destroyed.
* We cannot just use ANTLR3_FREE because in debug tracking mode, this is a macro.
*/
static void ANTLR3_CDECL freeScope(void * scope)
{
 ANTLR3_FREE(scope);
}

/** \brief Name of the grammar file that generated this code
*/
static const char fileName[] = "<fileName>";

/** \brief Return the name of the grammar file that generated this code.
*/
static const char * getGrammarFileName()
{
 return fileName;
}

/** \brief Create a new <name> parser and return a context for it.
*
* \param[in] instream Pointer to an input stream interface.
*
* \return Pointer to new parser context upon success.
*/
ANTLR3_API p<name>

```

```

<name>New (<inputStreamType> instream<grammar.delegators:{g|, p<g.recognizerName>
<g.delegateName(>>})>
{
// See if we can create a new parser with the standard constructor
//
return <name>NewSSD(instream, NULL<grammar.delegators:{g|, <g.delegateName(>>})>);
}

/** \brief Create a new <name> parser and return a context for it.
*
* \param[in] instream Pointer to an input stream interface.
*
* \return Pointer to new parser context upon success.
*/
ANTLR3_API p<name>
<name>NewSSD (<inputStreamType> instream, pANTLR3_RECOGNIZER_SHARED_STATE
state<grammar.delegators:{g|, p<g.recognizerName> <g.delegateName(>>})>
{
 p<name> ctx; /* Context structure we will build and return */

 ctx = (p<name>) ANTLR3_CALLOC(1, sizeof(<name>));

 if (ctx == NULL)
 {
// Failed to allocate memory for parser context
//
 return NULL;
 }

 /* -----
 * Memory for basic structure is allocated, now to fill in
 * the base ANTLR3 structures. We initialize the function pointers
 * for the standard ANTLR3 parser function set, but upon return
 * from here, the programmer may set the pointers to provide custom
 * implementations of each function.
 *
 * We don't use the macros defined in <name>.h here, in order that you can get a sense
 * of what goes where.
 */

<if(PARSER)>
 /* Create a base parser/recognizer, using the supplied token stream
 */
 ctx->pParser = antlr3ParserNewStream(ANTLR3_SIZE_HINT, instream->tstream, state);
<endif>
<if(TREE_PARSER)>
 /* Create a base Tree parser/recognizer, using the supplied tree node stream
 */

```

```

 ctx->pTreeParser = antlr3TreeParserNewStream(ANTLR3_SIZE_HINT, instream, state);
<endif>

 /* Install the implementation of our <name> interface
 */
 <rules: {r | ctx-><r.ruleDescriptor.name> = <r.ruleDescriptor.name>;}; separator="\n";>
<if(grammar.delegatedRules)>
 // Install the delegated methods so that they appear to be a part of this
 // parser
 //
 <grammar.delegatedRules: {ruleDescriptor | ctx-><ruleDescriptor.name> = <ruleDescriptor.name>;};
separator="\n";>
<endif>

 ctx->free = <name>Free;
 ctx->getGrammarFileName = getGrammarFileName;

 /* Install the scope pushing methods.
 */
 <rules: {r |<if(r.ruleDescriptor.ruleScope)>
<ruleAttributeScope(scope=r.ruleDescriptor.ruleScope)><\n>
<endif>}>
 <recognizer.scopes: {<if(it.isDynamicGlobalScope)>
<globalAttributeScope(scope=it)><\n>
<endif>}>
 <@apifuncs>

 <@end>
<if(grammar.directDelegates)>
 // Initialize the parsers that we are going to delegate some
 // functions to.
 //
 <grammar.directDelegates:
 {g|ctx-><g.delegateName()> = <g.recognizerName>NewSSD(instream, PSRSTATE,
ctx-><grammar.delegators: {g|, <g.delegateName()>}>);}; separator="\n">
 <endif>
<if(grammar.delegators)>
 // Install the pointers back to parsers that will delegate us to perform certain functions
 // for them.
 //
 <grammar.delegators:
 {g|ctx-><g.delegateName()> = <g.delegateName()>;}; separator="\n">
 <endif>
 <actions.parser.apifuncs>
 <actions.treeparser.apifuncs>
<if(memoize)>
<if(grammar.grammarIsRoot)>
 /* Create a LIST for recording rule memos.

```

```

 */
 RULEMEMO = antlr3IntTrieNew(15); /* 16 bit depth is enough for 32768 rules! */<\n>
<endif>
<endif>
/* Install the token table
*/
PSRSTATE->tokenNames = <grammar.composite.rootGrammar.recognizerName>TokenNames;

<@debugStuff()>

/* Return the newly built parser to the caller
*/
return ctx;
}

/** Free the parser resources
*/
static void
<name>Free(p<name> ctx)
{
 /* Free any scope memory
 */
 <rules: {r
|if(r.ruleDescriptor.ruleScope)><ruleAttributeScopeFree(scope=r.ruleDescriptor.ruleScope)><\n><endif>}>
 <recognizer.scopes:{<if(it.isDynamicGlobalScope)><globalAttributeScopeFree(scope=it)><\n><endif>}>

 <@cleanup>
 <@end>
<if(grammar.directDelegates)>
 // Free the parsers that we delegated to
 // functions to.NULL the state so we only free it once.
 //
 <grammar.directDelegates:
 {g| ctx-><g:delegateName()-><if(TREE_PARSER)>pTreeParser<else>pParser<endif>->rec->state = NULL;
 ctx-><g:delegateName()->free(ctx-><g:delegateName()->);}; separator="\n">
 <endif>
<if(memoize)>
<if(grammar.grammarIsRoot)>
 if (RULEMEMO != NULL)
 {
 RULEMEMO->free(RULEMEMO);
 RULEMEMO = NULL;
 }
 <endif>
<endif>
 // Free this parser
 //
 <if(TREE_PARSER)>

```

```

 ctx->pTreeParser->free(ctx->pTreeParser);<\n>
<else>
 ctx->pParser->free(ctx->pParser);<\n>
<endif>
 ANTLR3_FREE(ctx);

 /* Everything is released, so we can return
 */
 return;
}

/** Return token names used by this <grammarType()>
*
* The returned pointer is used as an index into the token names table (using the token
* number as the index).
*
* \return Pointer to first char * in the table.
*/
static pANTLR3_UINT8 *getTokenNames()
{
 return <grammar.composite.rootGrammar.recognizerName>TokenNames;
}

<members>

/* Declare the bitsets
*/
<bitsets:bitsetDeclare(name={FOLLOW_<it.name>_in_<it.inName><it.tokenIndex>},
 words64=it.bits)>

<if(cyclicDFAs)>

/* =====
* DFA tables for the parser
*/
<cyclicDFAs:cyclicDFA()> <! dump tables for all DFA !>
/* =====
* End of DFA tables for the parser
*/
<endif>

/* =====
* Parsing rules
*/
<rules; separator="\n\n">
<if(grammar.delegatedRules)>
 // Delegated methods that appear to be a part of this

```

```

// parser
//
<grammar.delegatedRules:{ruleDescriptor|
 <returnType()> <ruleDescriptor.name>(p<name> ctx<if(ruleDescriptor.parameterScope.attributes)>,
<endif><ruleDescriptor.parameterScope:parameterScope(scope=it)>)
 \{
 <if(ruleDescriptor.hasReturnValue)>return <endif>ctx-><ruleDescriptor.grammar:delegateName()>-
 ><ruleDescriptor.name>(ctx-
 ><ruleDescriptor.grammar:delegateName()><if(ruleDescriptor.parameterScope.attributes)>,
 <endif><ruleDescriptor.parameterScope.attributes:{ a|<a.name>}; separator=", ">);
 \}}; separator="\n">

<endif>
/* End of parsing rules
* =====
*/

/* =====
* Syntactic predicates
*/
<synpreds:{ p | <synpred(predname=p)>}>
/* End of syntactic predicates
* =====
*/

>>

parser(grammar,
 name,
 scopes,
 tokens,
 tokenNames,
 rules,
 numRules,
 bitsets,
 ASTLabelType,
 superClass="Parser",
 labelType="pANTLR3_COMMON_TOKEN",
 members={ <actions.parser.members> }
) ::= <<
<genericParser(inputStreamType="pANTLR3_COMMON_TOKEN_STREAM", rewriteElementType="TOKEN",
...)>
>>

```

```

/** How to generate a tree parser; same as parser except the input
 * stream is a different type.
 */
treeParser(grammar,
 name,
 scopes,
 tokens,
 tokenNames,
 globalAction,
 rules,
 numRules,
 bitsets,
 labelType={<ASTLabelType>},
 ASTLabelType="pANTLR3_BASE_TREE",
 superClass="TreeParser",
 members={<actions.treeparser.members>}, filterMode
) ::= <<
<genericParser(inputStreamType="pANTLR3_COMMON_TREE_NODE_STREAM",
rewriteElementType="NODE", ...)>
>>

/** A simpler version of a rule template that is specific to the imaginary
 * rules created for syntactic predicates. As they never have return values
 * nor parameters etc..., just give simplest possible method. Don't do
 * any of the normal memoization stuff in here either; it's a waste.
 * As predicates cannot be inlined into the invoking rule, they need to
 * be in a rule by themselves.
 */
synpredRule(ruleName, ruleDescriptor, block, description, nakedBlock) ::=
<<
// $ANTLR start <ruleName>
static void <ruleName>_fragment(p<name> ctx <ruleDescriptor.parameterScope:parameterScope(scope=it)>)
{
 <ruleLabelDefs()>
 <ruleLabelInitializations()>
 <if(trace)>
 ANTLR3_PRINTF("enter <ruleName> %d failed = %d, backtracking = %d\n",LT(1),failed,BACKTRACKING);
 <block>
 ANTLR3_PRINTF("exit <ruleName> %d, failed = %d, backtracking = %d\n",LT(1),failed,BACKTRACKING);

 <else>
 <block>
 <endif>
 <ruleCleanUp()>
}
// $ANTLR end <ruleName>
>>

```



```

synpred(predname) ::= <<
static ANTLR3_BOOLEAN <predname>(p<name> ctx)
{
 ANTLR3_MARKER start;
 ANTLR3_BOOLEAN success;

 BACKTRACKING++;
 <@start()>
 start = MARK();
 <predname>_fragment(ctx); // can never throw exception
 success = !(FAILEDFLAG);
 REWIND(start);
 <@stop()>
 BACKTRACKING--;
 FAILEDFLAG = ANTLR3_FALSE;
 return success;
}<\n>
>>

lexerSynpred(predname) ::= <<
<synpred(predname)>
>>

ruleMemoization(rname) ::= <<
<if(memoize)>
if ((BACKTRACKING>0) && (HAVEPARSEDRULE(<ruleDescriptor.index>)))
{
 <if(ruleDescriptor.hasMultipleReturnValues)>
 <if(!ruleDescriptor.isSynPred)>
 retval.start = 0;
 <scopeClean()><\n>
 <endif>
 <endif>
 return <ruleReturnValue()>;
}
<endif>
>>

/** How to test for failure and return from rule */
checkRuleBacktrackFailure() ::= <<
if (HASEXCEPTION())
{
 goto rule<ruleDescriptor.name>Ex;
}
<if(backtracking)>
if (HASFAILED())
{
 <scopeClean()>

```

```

 return <ruleReturnValue(>;
}
<endif>
>>

/** This rule has failed, exit indicating failure during backtrack */
ruleBacktrackFailure() ::= <<
<if(backtracking)>
if (BACKTRACKING>0)
{
 FAILEDFLAG = <>true(>;
 <scopeClean(>
 return <ruleReturnValue(>;
}
<endif>
>>

/** How to generate code for a rule. This includes any return type
 * data aggregates required for multiple return values.
 */
rule(ruleName,ruleDescriptor,block,emptyRule,description,exceptions,finally,memoize) ::= <<
/**
 * $ANTLR start <ruleName>
 * <fileName>:<description>
 */
static <returnType(>
<ruleName>(p<name> ctx<if(ruleDescriptor.parameterScope)>,
<endif><ruleDescriptor.parameterScope:parameterScope(scope=it)>)
{
 <if(trace)>ANTLR3_PRINTF("enter <ruleName> %s failed=%d, backtracking=%d\n", LT(1),
BACKTRACKING);<endif>
 <ruleDeclarations(>
 <ruleDescriptor.actions.declarations>
 <ruleLabelDefs(>
 <ruleInitializations(>
 <ruleDescriptor.actions.init>
 <ruleMemoization(rname=ruleName)>
 <ruleLabelInitializations(>
 <@preamble(>
 {
 <block>
 }

 <ruleCleanUp(>
<if(exceptions)>
 if (HASEXCEPTION())
 {
 <exceptions: {e|<catch(decl=e.decl,action=e.action)><\n> }>

```

```

 }
 else
 {
 <(ruleDescriptor.actions.after):execAction(>
 }
 <else>
 <if(!emptyRule)>
 <if(actions.(actionScope).rulecatch)>
 <actions.(actionScope).rulecatch>
 <else>
 if (HASEXCEPTION())
 {
 PREPORTERROR();
 PRECOVER();
 <@setErrorReturnValue(>
 }
 <if(ruleDescriptor.actions.after)>
 else
 {
 <(ruleDescriptor.actions.after):execAction(>
 }<\n>
 <endif>
 <endif>
 <endif>
 <endif>
 <if(trace>>System.out.println("exit <ruleName> "+LT(1)+" failed="+failed+"
backtracking="+BACKTRACKING);<endif>
 <memoize(>
 <finally>
 <@postamble(>
 return <ruleReturnValue(>;
 }
 /* $ANTLR end <ruleName> */
 >>

 catch(decl,action) ::= <<
 /* catch(decl,action)
 */
 if ((HASEXCEPTION()) && (EXCEPTION->type == <e.decl>)
 {
 <e.action>
 }
 >>

 ruleDeclarations() ::= <<
 <if(ruleDescriptor.hasMultipleReturnValues)>
 <returnType(>> retval;<\n>
 <else>

```

```

<ruleDescriptor.returnScope.attributes: { a |
<a.type> <a.name> = <if(a.initValue)><a.initValue><else><initValue(a.type)><endif>;
}>
<endif>
<if(memoize)>
ANTLR3_UINT32 <ruleDescriptor.name>_startIndex;
<endif>
>>

ruleInitializations() ::= <<
/* Initialize rule variables
*/
<if(memoize)>
<ruleDescriptor.name>_startIndex = INDEX();<\n>
<endif>
<ruleDescriptor.useScopes: {<scopeTop(sname=it)> = <scopePush(sname=it)>;}; separator="\n">
<ruleDescriptor.ruleScope: {<scopeTop(sname=it.name)> = <scopePush(sname=it.name)>;}; separator="\n">
>>

ruleLabelDefs() ::= <<
<[ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels]
: {<labelType> <it.label.text>;}; separator="\n"
>
<[ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels]
: {pANTLR3_VECTOR list_<it.label.text>;}; separator="\n"
>
<[ruleDescriptor.ruleLabels,ruleDescriptor.ruleListLabels]
: ruleLabelDef(label=it); separator="\n"
>
>>

ruleLabelInitializations() ::= <<
<[ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels]
: {<it.label.text> = NULL;;}; separator="\n"
>
<[ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels]
: {list_<it.label.text> = NULL;;}; separator="\n"
>
<[ruleDescriptor.ruleLabels,ruleDescriptor.ruleListLabels]
: ruleLabelInitVal(label=it); separator="\n"
>
<if(ruleDescriptor.hasMultipleReturnValues)>
<if(!ruleDescriptor.isSynPred)>
retval.start = LT(1); retval.stop = retval.start;<\n>
<endif>
<endif>
>>

```

```

lexerRuleLabelDefs() ::= <<
<[ruleDescriptor.tokenLabels,
ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleLabels]
: {<labelType> <it.label.text>;}; separator="\n"
>
<ruleDescriptor.charLabels: {ANTLR3_UINT32 <it.label.text>;}; separator="\n">
<[ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleListLabels,
ruleDescriptor.ruleListLabels]
: {pANTLR3_INT_TRIE list_<it.label.text>;}; separator="\n"
>
>>

```

```

lexerRuleLabelInit() ::= <<
<[ruleDescriptor.tokenLabels,
ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleLabels]
: {<it.label.text> = NULL;;}; separator="\n"
>
<[ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleListLabels,
ruleDescriptor.ruleListLabels]
: {list_<it.label.text> = antlr3IntTrieNew(31);}; separator="\n"
>
>>

```

```

lexerRuleLabelFree() ::= <<
<[ruleDescriptor.tokenLabels,
ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleLabels]
: {<it.label.text> = NULL;;}; separator="\n"
>
<[ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleListLabels,
ruleDescriptor.ruleListLabels]
: {list_<it.label.text>->free(list_<it.label.text>);}; separator="\n"
>
>>

```

```

ruleReturnValue() ::= <<
<if(!ruleDescriptor.isSynPred)>
<if(ruleDescriptor.hasReturnValue)>
<if(ruleDescriptor.hasSingleReturnValue)>
<ruleDescriptor.singleValueReturnName>
<else>
retval
<endif>

```

```

<endif>
<endif>
>>

memoize() ::= <<
<if(memoize)>
<if(backtracking)>
if (BACKTRACKING>0) { MEMOIZE(<ruleDescriptor.index>, <ruleDescriptor.name>_StartIndex); }
<endif>
<endif>
>>

ruleCleanUp() ::= <<

// This is where rules clean up and exit
//
goto rule<ruleDescriptor.name>Ex; /* Prevent compiler warnings */
rule<ruleDescriptor.name>Ex; ;
<scopeClean()>
<if(ruleDescriptor.hasMultipleReturnValues)>
<if(!TREE_PARSER)>
<if(!ruleDescriptor.isSynPred)>
retval.stop = LT(-1);<\n>
<endif>
<endif>
<endif>
>>

scopeClean() ::= <<
<ruleDescriptor.useScopes:{<scopePop(sname=it)>}; separator="\n">
<ruleDescriptor.ruleScope:{<scopePop(sname=it.name)>}; separator="\n">

>>

/** How to generate a rule in the lexer; naked blocks are used for
 * fragment rules, which do not produce tokens.
 */
lexerRule(ruleName,nakedBlock,ruleDescriptor,block,memoize) ::= <<
// Comes from: <block.description>
/** \brief Lexer rule generated by ANTLR3
 *
 * $ANTLR start <ruleName>
 *
 * Looks to match the characters the constitute the token <ruleName>
 * from the attached input stream.
 *
 * \remark
 * - lexer->error == ANTLR3_TRUE if an exception was thrown.

```

```

*/
static ANTLR3_INLINE
void m<ruleName>(p<name> ctx<if(ruleDescriptor.parameterScope)>,
<endif><ruleDescriptor.parameterScope:parameterScope(scope=it)>)
{
 ANTLR3_UINT32 _type;
 <ruleDeclarations()>
 <ruleDescriptor.actions.declarations>
 <lexerRuleLabelDefs()>
 <if(trace)>System.out.println("enter <ruleName> "+(char)LA(1)+"
line="+GETLINE()+": "+GETCHARPOSITIONINLINE()+ " failed="+failed+"
backtracking="+BACKTRACKING);<endif>

 <if(nakedBlock)>
 <ruleMemoization(rname=ruleName)>
 <lexerRuleLabelInit()>
 <ruleDescriptor.actions.init>

 <block><\n>
 <else>
 <ruleMemoization(rname=ruleName)>
 <lexerRuleLabelInit()>
 _type = <ruleName>;

 <ruleDescriptor.actions.init>

 <block>
 LEXSTATE->type = _type;
 <endif>
 <if(trace)> ANTLR3_FPRINTF(stderr, "exit <ruleName> '%c' line=%d:%d failed = %d, backtracking
=%d\n",LA(1),GETLINE(),GETCHARPOSITIONINLINE(),failed,BACKTRACKING);<endif>
 <ruleCleanUp()>
 <lexerRuleLabelFree()>
 <(ruleDescriptor.actions.after):execAction()>
 <memoize>
}
// $ANTLR end <ruleName>
>>

/** How to generate code for the implicitly-defined lexer grammar rule
 * that chooses between lexer rules.
 */
tokensRule(ruleName,nakedBlock,args,block,ruleDescriptor) ::= <<
/** This is the entry point in to the lexer from an object that
 * wants to generate the next token, such as a pCOMMON_TOKEN_STREAM
 */
static void
mTokens(p<name> ctx)

```

```

{
 <block><\n>

 goto ruleTokensEx; /* Prevent compiler warnings */
ruleTokensEx :
}
>>

// S U B R U L E S

/** A (...) subrule with multiple alternatives */
block(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<

// <fileName>:<description>
{
 int alt<decisionNumber>=<maxAlt>;
 <decls>
 <@predecision()>
 <decision>
 <@postdecision()>
 <@prebranch()>
 switch (alt<decisionNumber>)
 {
 <alts:altSwitchCase()>
 }
 <@postbranch()>
}
>>

/** A rule block with multiple alternatives */
ruleBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
{
 // <fileName>:<description>

 ANTLR3_UINT32 alt<decisionNumber>;

 alt<decisionNumber>=<maxAlt>;

 <decls>
 <@predecision()>
 <decision>
 <@postdecision()>
 switch (alt<decisionNumber>)
 {
 <alts:altSwitchCase()>
 }
}
>>

```



```

ruleBlockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
// <fileName>:<description>
<decls>
<@prealt()>
<alts>
<@postalt()>
>>

/** A special case of a (...) subrule with a single alternative */
blockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
// <fileName>:<description>
<decls>
<@prealt()>
<alts>
<@postalt()>
>>

/** A (..)+ block with 1 or more alternatives */
positiveClosureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// <fileName>:<description>
{
 int cnt<decisionNumber>=0;
 <decls>
 <@preloop()>

 for (;;)
 {
 int alt<decisionNumber>=<maxAlt>;
 <@predecision()>
 <decision>
 <@postdecision()>
 switch (alt<decisionNumber>)
 {
 <alts:altSwitchCase()>
 default:

 if (cnt<decisionNumber> >= 1)
 {
 goto loop<decisionNumber>;
 }
 <ruleBacktrackFailure()>
 <earlyExitEx()>
 <@earlyExitException()>
 goto rule<ruleDescriptor.name>Ex;
 }
 cnt<decisionNumber>++;
}

```

```

 }
 loop<decisionNumber>; /* Jump to here if this rule does not match */
 <@postloop()>
}
>>

earlyExitEx() ::= <<
/* mismatchedSetEx()
*/
CONSTRUCTEX();
EXCEPTION->type = ANTLR3_EARLY_EXIT_EXCEPTION;
EXCEPTION->name = (void *)ANTLR3_EARLY_EXIT_NAME;
<\n>
>>
positiveClosureBlockSingleAlt ::= positiveClosureBlock

/** A (..)* block with 1 or more alternatives */
closureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::=
<<

// <fileName>:<description>
<decls>

<@preloop()>
for (;;)
{
 int alt<decisionNumber>=<maxAlt>;
 <@predecision()>
 <decision>
 <@postdecision()>
 switch (alt<decisionNumber>)
 {
 <alts:altSwitchCase()>
 default:
 goto loop<decisionNumber>; /* break out of the loop */
 break;
 }
}
loop<decisionNumber>; /* Jump out to here if this rule does not match */
<@postloop()>
>>

closureBlockSingleAlt ::= closureBlock

/** Optional blocks (x)? are translated to (x|) by antlr before code generation
* so we can just use the normal block template
*/
optionalBlock ::= block

```

```
optionalBlockSingleAlt ::= block
```

```
/** A case in a switch that jumps to an alternative given the alternative
 * number. A DFA predicts the alternative and then a simple switch
 * does the jump to the code that actually matches that alternative.
 */
```

```
altSwitchCase() ::= <<
case <i>:
 <@prealt(>
 <it>
 break;<\n>
>>
```

```
/** An alternative is just a list of elements; at outermost level */
alt(elements,altNum,description,autoAST,outerAlt,treeLevel,rew) ::= <<
// <fileName>:<description>
{
 <@declarations(>
 <@initializations(>
 <elements:element(>
 <rew>
 <@cleanup(>
}
>>
```

```
// E L E M E N T S
```

```
/** What to emit when there is no rewrite. For auto build
 * mode, does nothing.
 */
```

```
noRewrite(rewriteBlockLevel, treeLevel) ::= ""
```

```
/** Dump the elements one per line */
```

```
element() ::= <<
<@prematch(>
<it.el><\n>
>>
```

```
/** match a token optionally with a label in front */
```

```
tokenRef(token,label,elementIndex,hetero) ::= <<
<if(label)><label> = (<labelType>)<endif> MATCHT(<token>,
&FOLLOW_<token>_in_<ruleName><elementIndex>);
<checkRuleBacktrackFailure(>
>>
```

```
/** ids+=ID */
```

```
tokenRefAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRef(...)>
```

```
<listLabel(elem=label,...)>
```

```
>>
```

```
listLabel(label,elem) ::= <<
```

```
if (list_<label> == NULL)
```

```
{
```

```
list_<label>=ctx->vectors->newVector(ctx->vectors);
```

```
}
```

```
list_<label>->add(list_<label>, <elem>, NULL);
```

```
>>
```

```
/** match a character */
```

```
charRef(char,label) ::= <<
```

```
<if(label)>
```

```
<label> = LA(1);<\n>
```

```
<endif>
```

```
MATCHC(<char>);
```

```
<checkRuleBacktrackFailure(>
```

```
>>
```

```
/** match a character range */
```

```
charRangeRef(a,b,label) ::= <<
```

```
<if(label)>
```

```
<label> = LA(1);<\n>
```

```
<endif>
```

```
MATCHRANGE(<a>,);
```

```
<checkRuleBacktrackFailure(>
```

```
>>
```

```
/** For now, sets are interval tests and must be tested inline */
```

```
matchSet(s,label,elementIndex,postmatchCode="") ::= <<
```

```
<if(label)>
```

```
<if(LEXER)>
```

```
<label>= LA(1);<\n>
```

```
<else>
```

```
<label>=(<labelType>)LT(1);<\n>
```

```
<endif>
```

```
<endif>
```

```
if (<s>)
```

```
{
```

```
CONSUME();
```

```
<postmatchCode>
```

```
<if(!LEXER)>
```

```
PERRORRECOVERY=ANTLR3_FALSE;
```

```
<endif>
```

```
<if(backtracking)>FAILEDFLAG=ANTLR3_FALSE;<\n><endif>
```

```
}
```

```

else
{
 <ruleBacktrackFailure()>
 <mismatchedSetEx()>
 <@mismatchedSetException()>
<if(LEXER)>
 LRECOVER();
<else>
 RECOVERFROMMISMATCHEDSET(&FOLLOW_set_in_<ruleName><elementIndex>);
<endif>
 goto rule<ruleDescriptor.name>Ex;
}<\n>
>>

```

```

mismatchedSetEx() ::= <<
CONSTRUCTEX();
EXCEPTION->type = ANTLR3_MISMATCHED_SET_EXCEPTION;
EXCEPTION->name = (void *)ANTLR3_MISMATCHED_SET_NAME;
<if(PARSER)>
EXCEPTION->expectingSet = &FOLLOW_set_in_<ruleName><elementIndex>;
<endif>
>>

```

```

matchRuleBlockSet ::= matchSet

```

```

matchSetAndListLabel(s,label,elementIndex,postmatchCode) ::= <<
<matchSet(...)>
<listLabel(elem=label,...)>
>>

```

```

/** Match a string literal */
lexerStringRef(string,label) ::= <<
<if(label)>
<label>Start = GETCHARINDEX();
MATCHS(<string>);
<checkRuleBacktrackFailure()>
<label> = LEXSTATE->tokFactory->newToken(LEXSTATE->tokFactory);
<label>->setType(<label>, ANTLR3_TOKEN_INVALID);
<label>->setStartIndex(<label>, <label>Start);
<label>->setStopIndex(<label>, GETCHARINDEX()-1);
<label>->input = INPUT->tstream->istream;
<else>
MATCHS(<string>);
<checkRuleBacktrackFailure()><\n>
<endif>
>>

```

```

wildcard(label,elementIndex) ::= <<

```

```

<if(label)>
<label>=(<labelType>)LT(1);<\n>
<endif>
MATCHANYT();
<checkRuleBacktrackFailure()>
>>

```

```

wildcardAndListLabel(label,elementIndex) ::= <<
<wildcard(...)>
<listLabel(elem=label,...)>
>>

```

```

/** Match . wildcard in lexer */
wildcardChar(label, elementIndex) ::= <<
<if(label)>
<label> = LA(1);<\n>
<endif>
MATCHANY();
<checkRuleBacktrackFailure()>
>>

```

```

wildcardCharListLabel(label, elementIndex) ::= <<
<wildcardChar(...)>
<listLabel(elem=label,...)>
>>

```

```

/** Match a rule reference by invoking it possibly with arguments
 * and a return value or values. The 'rule' argument was the
 * target rule name, but now is type Rule, whose toString is
 * same: the rule name. Now though you can access full rule
 * descriptor stuff.
 */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
FOLLOWPUSH(FOLLOW_<rule.name>_in_<ruleName><elementIndex>);
<if(label)><label>=<endif><if(scope)>ctx-><scope:delegateName()>-><endif><rule.name>(ctx<if(scope)>->
<scope:delegateName()><endif><if(args)>, <args; separator=","><endif>);<\n>
FOLLOWPOP();
<checkRuleBacktrackFailure()>
>>

```

```

/** ids+=r */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>
<listLabel(elem=label,...)>
>>

```

```

/** A lexer rule reference
 * The 'rule' argument was the target rule name, but now

```

```

* is type Rule, whose toString is same: the rule name.
* Now though you can access full rule descriptor stuff.
*/
lexerRuleRef(rule,label,args,elementIndex,scope) ::= <<
/* <description> */
<if(label)>
{
 ANTLR3_MARKER <label>Start<elementIndex> = GETCHARINDEX();
 <if(scope)>ctx-><scope:delegateName()-><endif>m<rule.name>(ctx<if(scope)>-
><scope:delegateName()-><endif> <if(args)>, <endif><args; separator=", ">;
 <checkRuleBacktrackFailure()->
 <label> = LEXSTATE->tokFactory->newToken(LEXSTATE->tokFactory);
 <label>->setType(<label>, ANTLR3_TOKEN_INVALID);
 <label>->setStartIndex(<label>, <label>Start<elementIndex>);
 <label>->setStopIndex(<label>, GETCHARINDEX()-1);
 <label>->input = INPUT;
}
<else>
<if(scope)>ctx-><scope:delegateName()-><endif>m<rule.name>(ctx<if(scope)>-
><scope:delegateName()-><endif> <if(args)>, <endif><args; separator=", ">;
<checkRuleBacktrackFailure()->
<endif>
>>

/** i+=INT in lexer */
lexerRuleRefAndListLabel(rule,label,args,elementIndex,scope) ::= <<
<lexerRuleRef(...)>
<listLabel(elem=label,...)>
>>

/** EOF in the lexer */
lexerMatchEOF(label,elementIndex) ::= <<
<if(label)>
{
 ANTLR3_UINT32 <label>Start<elementIndex>;
 <labelType> <label>;
 <label>Start<elementIndex> = GETCHARINDEX();
 MATCHC(ANTLR3_CHARSTREAM_EOF);
 <checkRuleBacktrackFailure()->
 <label> = LEXSTATE->tokFactory->newToken(LEXSTATE->tokFactory);
 <label>->setType(<label>, ANTLR3_TOKEN_EOF);
 <label>->setStartIndex(<label>, <label>Start<elementIndex>);
 <label>->setStopIndex(<label>, GETCHARINDEX()-1);
 <label>->input = INPUT->tnstream->istream;
}
<else>
 MATCHC(ANTLR3_CHARSTREAM_EOF);
 <checkRuleBacktrackFailure()->

```

```

 <endif>
 >>

 /** match ^(root children) in tree parser */
 tree(root, actionsAfterRoot, children, nullableChildList, enclosingTreeLevel, treeLevel) ::= <<
 <root:element()>
 <actionsAfterRoot:element()>
 <if(nullableChildList)>
 if (LA(1)==ANTLR3_TOKEN_DOWN) {
 MATCHT(ANTLR3_TOKEN_DOWN, NULL);
 <checkRuleBacktrackFailure()>
 <children:element()>
 MATCHT(ANTLR3_TOKEN_UP, NULL);
 <checkRuleBacktrackFailure()>
 }
 <else>
 MATCHT(ANTLR3_TOKEN_DOWN, NULL);
 <checkRuleBacktrackFailure()>
 <children:element()>
 MATCHT(ANTLR3_TOKEN_UP, NULL);
 <checkRuleBacktrackFailure()>
 <endif>
 >>

 /** Every predicate is used as a validating predicate (even when it is
 * also hoisted into a prediction expression).
 */
 validateSemanticPredicate(pred,description) ::= <<
 if (!(<evalPredicate(...)>))
 {
 <ruleBacktrackFailure()>
 <newFPE(...)>
 }
 >>

 newFPE() ::= <<
 CONSTRUCTEX();
 EXCEPTION->type = ANTLR3_FAILED_PREDICATE_EXCEPTION;
 EXCEPTION->message = (void *)"<description>";
 EXCEPTION->ruleName = (void *)"<ruleName>";
 <\n>
 >>

 // F i x e d D F A (if-then-else)

 dfaState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<

 {

```



```

int LA<decisionNumber>_<stateNumber> = LA(<k>);
<edges; separator="\nelse ">
else
{
<if(eotPredictsAlt)>
 alt<decisionNumber>=<eotPredictsAlt>;
<else>
 <ruleBacktrackFailure()>

 <newNVException()>
 goto rule<ruleDescriptor.name>Ex;

<endif>
}
}
>>

newNVException() ::= <<
CONSTRUCTEX();
EXCEPTION->type = ANTLR3_NO_VIABLE_ALT_EXCEPTION;
EXCEPTION->message = (void *)"<description>";
EXCEPTION->decisionNum = <decisionNumber>;
EXCEPTION->state = <stateNumber>;
<@noViableAltException()>
<\n>
>>

/** Same as a normal DFA state except that we don't examine lookahead
 * for the bypass alternative. It delays error detection but this
 * is faster, smaller, and more what people expect. For (X)? people
 * expect "if (LA(1)==X) match(X);" and that's it.
 */
dfaOptionalBlockState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
{
 int LA<decisionNumber>_<stateNumber> = LA(<k>);
 <edges; separator="\nelse ">
}
>>

/** A DFA state that is actually the loopback decision of a closure
 * loop. If end-of-token (EOT) predicts any of the targets then it
 * should act like a default clause (i.e., no error can be generated).
 * This is used only in the lexer so that for ('a')* on the end of a rule
 * anything other than 'a' predicts exiting.
 */

dfaLoopbackStateDecls() ::= <<
ANTLR3_UINT32 LA<decisionNumber>_<stateNumber>;

```

```

>>
dfaLoopbackState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
{
/* dfaLoopbackState(k,edges,eotPredictsAlt,description,stateNumber,semPredState)
*/
int LA<decisionNumber>_<stateNumber> = LA(<k>);
<edges; separator="\nelse "><\n>
<if(eotPredictsAlt)>
<if(!edges)>
alt<decisionNumber>=<eotPredictsAlt>; <! if no edges, don't gen ELSE !>
<else>
else
{
alt<decisionNumber>=<eotPredictsAlt>;
}<\n>
<endif>
<endif>
}
>>

```

```

/** An accept state indicates a unique alternative has been predicted */
dfaAcceptState(alt) ::= "alt<decisionNumber>=<alt>;"

```

```

/** A simple edge with an expression. If the expression is satisfied,
* enter to the target state. To handle gated productions, we may
* have to evaluate some predicates for this edge.
*/

```

```

dfaEdge(labelExpr, targetState, predicates) ::= <<
if ((<labelExpr> <if(predicates)>&& (<predicates>)<endif>)
{
<targetState>
}
>>

```

```

// F i x e d D F A (switch case)

```

```

/** A DFA state where a SWITCH may be generated. The code generator
* decides if this is possible: CodeGenerator.canGenerateSwitch().
*/

```

```

dfaStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch (LA(<k>))
{
<edges; separator="\n">

default:
<if(eotPredictsAlt)>
alt<decisionNumber>=<eotPredictsAlt>;
<else>

```

```

 <ruleBacktrackFailure()>
 <newNVException()>
 goto rule<ruleDescriptor.name>Ex;<\n>
<endif>
}<\n>
>>

dfaOptionalBlockStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch (LA(<k>)
{
 <edges; separator="\n">
}<\n>
>>

dfaLoopbackStateSwitch(k, edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch (LA(<k>)
{
 <edges; separator="\n"><\n>
 <if(eotPredictsAlt)>
 default:
 alt<decisionNumber>=<eotPredictsAlt>;
 break;<\n>
 <endif>
}<\n>
>>

dfaEdgeSwitch(labels, targetState) ::= <<
<labels: { case <it>: }; separator="\n">
{
 <targetState>
}
 break;
>>

// C y c l i c D F A

/** The code to initiate execution of a cyclic DFA; this is used
 * in the rule to predict an alt just like the fixed DFA case.
 * The <name> attribute is inherited via the parser, lexer, ...
 */
dfaDecision(decisionNumber,description) ::= <<
alt<decisionNumber> = cdfa<decisionNumber>.predict(ctx, RECOGNIZER, ISTREAM,
&cdfa<decisionNumber>);
<checkRuleBacktrackFailure()>
>>

/* Dump DFA tables as static initialized arrays of shorts(16 bits)/characters(8 bits)
 * which are then used to statically initialize the dfa structure, which means that there

```

```

* is no runtime initialization whatsoever, other than anything the C compiler might
* need to generate. In general the C compiler will lay out memory such that there is no
* runtime code required.
*/
cyclicDFA(dfa) ::= <<
/** Static dfa state tables for Cyclic dfa:
* <dfa.description>
*/
static const ANTLR3_INT32 dfa<dfa.decisionNumber>_eot[<dfa.numberofStates>] =
{
<dfa.eot; wrap="\n", separator=", ", null="-1">
};
static const ANTLR3_INT32 dfa<dfa.decisionNumber>_eof[<dfa.numberofStates>] =
{
<dfa.eof; wrap="\n", separator=", ", null="-1">
};
static const ANTLR3_INT32 dfa<dfa.decisionNumber>_min[<dfa.numberofStates>] =
{
<dfa.min; wrap="\n", separator=", ", null="-1">
};
static const ANTLR3_INT32 dfa<dfa.decisionNumber>_max[<dfa.numberofStates>] =
{
<dfa.max; wrap="\n", separator=", ", null="-1">
};
static const ANTLR3_INT32 dfa<dfa.decisionNumber>_accept[<dfa.numberofStates>] =
{
<dfa.accept; wrap="\n", separator=", ", null="-1">
};
static const ANTLR3_INT32 dfa<dfa.decisionNumber>_special[<dfa.numberofStates>] =
{
<dfa.special; wrap="\n", separator=", ", null="-1">
};

/** Used when there is no transition table entry for a particular state */
#define dfa<dfa.decisionNumber>_T_empty NULL

<dfa.edgeTransitionClassMap.keys:{ table |
static const ANTLR3_INT32 dfa<dfa.decisionNumber>_T<i0>[] =
{
<table; separator=", ", wrap="\n", null="-1">
};}; null = "">

/* Transition tables are a table of sub tables, with some tables
* reused for efficiency.
*/
static const ANTLR3_INT32 * const dfa<dfa.decisionNumber>_transitions[] =
{
<dfa.transitionEdgeTables:{ xref[dfa<dfa.decisionNumber>_T<xref>]; separator=", ", wrap="\n", null="_empty">

```

```

};

<if(dfa.specialStateSTs)>
static ANTLR3_INT32 dfa<dfa.decisionNumber>_sst(p<name> ctx, pANTLR3_BASE_RECOGNIZER recognizer,
pANTLR3_INT_STREAM is, pANTLR3_CYCLIC_DFA dfa, ANTLR3_INT32 s)
{
 ANTLR3_INT32 _s;

 _s = s;
 switch (s)
 {
 <dfa.specialStateSTs:{state |
 case <i0>:

 <state>}; separator="\n">
 }
 <if(backtracking)>
 if (BACKTRACKING > 0)
 {
 FAILEDFLAG = ANTLR3_TRUE;
 return -1;
 }
 <endif>

 CONSTRUCTEX();
 EXCEPTION->type = ANTLR3_NO_VIABLE_ALT_EXCEPTION;
 EXCEPTION->message = (void *)"<dfa.description>";
 EXCEPTION->decisionNum = <dfa.decisionNumber>;
 EXCEPTION->state = _s;
 <@noViableAltException()>
 return -1;
}
<endif>

<@errorMethod()>

/* Declare tracking structure for Cyclic DFA <dfa.decisionNumber>
*/
static
ANTLR3_CYCLIC_DFA cdfa<dfa.decisionNumber>
= {
 <dfa.decisionNumber>, /* Decision number of this dfa */
 /* Which decision this represents: */
 (const pANTLR3_UCHAR)"<dfa.description>",
 <if(dfa.specialStateSTs)>
 (C DFA_SPECIAL_FUNC) dfa<dfa.decisionNumber>_sst,
 <else>
 (C DFA_SPECIAL_FUNC) antlr3dfaspecialStateTransition, /* Default special state transition function */

```

```

<endif>

 antlr3dfaspecialTransition, /* DFA specialTransition is currently just a default function in the runtime */
 antlr3dfapredict, /* DFA simulator function is in the runtime */
 dfa<dfa.decisionNumber>_eot, /* EOT table */
 dfa<dfa.decisionNumber>_eof, /* EOF table */
 dfa<dfa.decisionNumber>_min, /* Minimum tokens for each state */
 dfa<dfa.decisionNumber>_max, /* Maximum tokens for each state */
 dfa<dfa.decisionNumber>_accept, /* Accept table */
 dfa<dfa.decisionNumber>_special, /* Special transition states */
 dfa<dfa.decisionNumber>_transitions /* Table of transition tables */

};
/* End of Cyclic DFA <dfa.decisionNumber>
* -----
*/
>>

/** A state in a cyclic DFA; it's a special state and part of a big switch on
* state.
*/
cyclicDFAState(decisionNumber,stateNumber,edges,needErrorClause,semPredState) ::= <<
{
 ANTLR3_UINT32 LA<decisionNumber>_<stateNumber>;<\n>
 ANTLR3_MARKER index<decisionNumber>_<stateNumber>;<\n>

 LA<decisionNumber>_<stateNumber> = LA(1);<\n>
 <if(semPredState)> <! get next lookahead symbol to test edges, then rewind !>
 index<decisionNumber>_<stateNumber> = INDEX();<\n>
 REWINDLAST();<\n>
 <endif>
 s = -1;
 <edges; separator="\nelse ">
 <if(semPredState)> <! return input cursor to state before we rewound !>
 SEEK(index<decisionNumber>_<stateNumber>);<\n>
 <endif>
 if (s>=0)
 {
 return s;
 }
}
break;
>>

/** Just like a fixed DFA edge, test the lookahead and indicate what
* state to jump to next if successful.
*/
cyclicDFAEdge(labelExpr, targetStateNumber, edgeNumber, predicates) ::= <<

```

```

if ((<labelExpr> <if(predicates)>&& (<predicates>)<endif>)
{
 s = <targetStateNumber>;
}<n>
>>

/** An edge pointing at end-of-token; essentially matches any char;
 * always jump to the target.
 */
eotDFAEdge(targetStateNumber,edgeNumber, predicates) ::= <<
s = <targetStateNumber>;<n>
>>

// D F A E X P R E S S I O N S

andPredicates(left,right) ::= "((<left>) && (<right>))"

orPredicates(operands) ::= "((<first(operands)>)<rest(operands):{o | |(<o>)}>)"

notPredicate(pred) ::= "!(<evalPredicate(...)>)"

evalPredicate(pred,description) ::= "<pred>"

evalSynPredicate(pred,description) ::= "<pred>(ctx)"

lookaheadTest(atom,k,atomAsInt) ::= "LA<decisionNumber>_<stateNumber> == <atom>"

/** Sometimes a lookahead test cannot assume that LA(k) is in a temp variable
 * somewhere. Must ask for the lookahead directly.
 */
isolatedLookaheadTest(atom,k,atomAsInt) ::= "LA(<k>) == <atom>"

lookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= <<
((LA<decisionNumber>_<stateNumber> \>= <lower>) && (LA<decisionNumber>_<stateNumber> \<= <upper>))
>>

isolatedLookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= "((LA(<k>) \>= <lower>)
&& (LA(<k>) \<= <upper>))"

setTest(ranges) ::= "<ranges; separator='\" || '\">"

// A T T R I B U T E S

makeScopeSet() ::= <<
/* makeScopeSet()
 */
/** Definition of the <scope.name> scope variable tracking

```

```

* structure. An instance of this structure is created by calling
* <name>_<scope.name>Push().
*/
typedef struct <scopeStruct(sname=scope.name,...)>_struct
{
 /** Function that the user may provide to be called when the
 * scope is destroyed (so you can free pANTLR3_HASH_TABLES and so on)
 *
 * \param POinter to an instance of this typedef/struct
 */
 void (ANTLR3_CDECL *free) (struct <scopeStruct(sname=scope.name,...)>_struct * frame);

 /* =====
 * Programmer defined variables...
 */
 <scope.attributes:{<it.decl>;}; separator="\n">

 /* End of programmer defined variables
 * =====
 */
}
<scopeStruct(sname=scope.name,...)>, * <scopeType(sname=scope.name,...)>;

>>

globalAttributeScopeDecl(scope) ::= <<
<if(scope.attributes)>
/* globalAttributeScopeDecl(scope)
*/
<makeScopeSet(...)>
<endif>
>>

ruleAttributeScopeDecl(scope) ::= <<
<if(scope.attributes)>
/* ruleAttributeScopeDecl(scope)
*/
<makeScopeSet(...)>
<endif>
>>

globalAttributeScopeFuncDecl(scope) ::=
<<
/* globalAttributeScopeFuncDecl(scope)
*/
<if(scope.attributes)>
/* -----
* Function declaration for creating a <name>_<scope.name> scope set

```



```

*/
static <scopeType(sname=scope.name,...)> <scopePushName(sname=scope.name,...)>(p<name> ctx);
static void ANTLR3_CDECL <scope.name>Free(<scopeType(sname=scope.name)> scope);
/* ----- */

<endif>
>>

globalAttributeScopeFuncMacro(scope) ::= <<
<if(scope.attributes)>
/* globalAttributeScopeFuncMacro(scope)
*/
/** Function for popping the top value from a <scopeStack(sname=scope.name)>
*/
void
<scopePopName(sname=scope.name,...)>(p<name> ctx)
{
// First see if the user defined a function they want to be called when a
// scope is popped/freed.
//
// If the user supplied the scope entries with a free function, then call it first
//
if (SCOPE_TOP(<scope.name>)->free != NULL)
{
SCOPE_TOP(<scope.name>)->free(SCOPE_TOP(<scope.name>));
}

// Now we decrement the scope's upper limit bound. We do not actually pop the scope as
// we want to reuse scope entries if we do continuous push and pops. Most scopes don't
// next too far so we don't want to keep freeing and allocating them
//
ctx-><scopeStack(sname=scope.name,...)>_limit--;
SCOPE_TOP(<scope.name>) = (<scopeType(sname=scope.name)>)(ctx-><scopeStack(sname=scope.name,...)>-
>get(ctx-><scopeStack(sname=scope.name,...)>, ctx-><scopeStack(sname=scope.name,...)>_limit - 1));
}
<endif>
>>

ruleAttributeScopeFuncDecl(scope) ::= <<
<if(scope.attributes)>
/* ruleAttributeScopeFuncDecl(scope)
*/
/* -----
* Function declarations for creating a <name>_<scope.name> scope set
*/
static <scopeType(sname=scope.name,...)> <scopePushName(sname=scope.name,...)>(p<name> ctx);
static void ANTLR3_CDECL <scope.name>Free(<scopeType(sname=scope.name)> scope);
/* ----- */

```

```

<endif>
>>

ruleAttributeScopeFuncMacro(scope) ::= <<
<if(scope.attributes)>
/* ruleAttributeScopeFuncMacro(scope)
*/
/** Function for popping the top value from a <scopeStack(sname=scope.name,...)>
*/
void
<scopePopName(sname=scope.name,...)>(p<name> ctx)
{
 // First see if the user defined a function they want to be called when a
 // scope is popped/freed.
 //
 // If the user supplied the scope entries with a free function, then call it first
 //
 if (SCOPE_TOP(<scope.name>)->free != NULL)
 {
 SCOPE_TOP(<scope.name>)->free(SCOPE_TOP(<scope.name>));
 }

 // Now we decrement the scope's upper limit bound. We do not actually pop the scope as
 // we want to reuse scope entries if we do continuous push and pops. Most scopes don't
 // next too far so we don't want to keep freeing and allocating them
 //
 ctx-><scopeStack(sname=scope.name,...)>_limit--;
 SCOPE_TOP(<scope.name>) = (<scopeType(sname=scope.name)>)(ctx-><scopeStack(sname=scope.name,...)>-
 >get(ctx-><scopeStack(sname=scope.name,...)>, ctx-><scopeStack(sname=scope.name,...)>_limit - 1));
}

<endif>
>>

globalAttributeScopeDef(scope) ::=
<<
/* globalAttributeScopeDef(scope)
*/
<if(scope.attributes)>
/** Pointer to the <scope.name> stack for use by <scopePushName(sname=scope.name)>()
* and <scopePopName(sname=scope.name,...)>()
*/
pANTLR3_STACK <scopeStack(sname=scope.name)>;
ANTLR3_UINT32 <scopeStack(sname=scope.name)>_limit;
/** Pointer to the top of the stack for the global scope <scopeStack(sname=scope.name)>
*/
<scopeType(sname=scope.name,...)> (*<scopePushName(sname=scope.name,...)>)(struct <name>_Ctx_struct *

```

```

ctx);
<scopeType(sname=scope.name,...)> <scopeTopDecl(sname=scope.name,...)>;

<endif>
>>

ruleAttributeScopeDef(scope) ::= <<
<if(scope.attributes)>
/* ruleAttributeScopeDef(scope)
*/
/** Pointer to the <scope.name> stack for use by <scopePushName(sname=scope.name)>()
* and <scopePopName(sname=scope.name,...)>()
*/
pANTLR3_STACK <scopeStack(sname=scope.name,...)>;
ANTLR3_UINT32 <scopeStack(sname=scope.name,...)>_limit;
<scopeType(sname=scope.name,...)> (*<scopePushName(sname=scope.name,...)>)(struct <name>_Ctx_struct *
ctx);
<scopeType(sname=scope.name,...)> <scopeTopDecl(sname=scope.name,...)>;

<endif>
>>

globalAttributeScopeFuncs(scope) ::= <<
<if(scope.attributes)>
/* globalAttributeScopeFuncs(scope)
*/
<attributeFuncs(scope)>
<endif>
>>

ruleAttributeScopeFuncs(scope) ::= <<
<if(scope.attributes)>
/* ruleAttributeScopeFuncs(scope)
*/
<attributeFuncs(scope)>
<endif>
>>

globalAttributeScope(scope) ::= <<
<if(scope.attributes)>
/* globalAttributeScope(scope)
*/
ctx-><scopePushName(sname=scope.name,...)> = <scopePushName(sname=scope.name,...)>;
ctx-><scopeStack(sname=scope.name,...)> = antlr3StackNew(0);
ctx-><scopeStack(sname=scope.name,...)>_limit = 0;
<scopeTop(sname=scope.name,...)> = NULL;
<endif>
>>

```

```

ruleAttributeScope(scope) ::=
<<
<if(scope.attributes)>
/* ruleAttributeScope(scope)
*/
ctx-><scopePushName(sname=scope.name,...)> = <scopePushName(sname=scope.name,...)>;
ctx-><scopeStack(sname=scope.name,...)> = antlr3StackNew(0);
ctx-><scopeStack(sname=scope.name,...)>_limit = 0;
<scopeTop(sname=scope.name,...)> = NULL;
<endif>
>>

globalAttributeScopeFree(scope) ::= <<
<if(scope.attributes)>
/* globalAttributeScope(scope)
*/
ctx-><scopeStack(sname=scope.name,...)>->free(ctx-><scopeStack(sname=scope.name,...)>);
<endif>
>>

ruleAttributeScopeFree(scope) ::=
<<
<if(scope.attributes)>
/* ruleAttributeScope(scope)
*/
ctx-><scopeStack(sname=scope.name,...)>->free(ctx-><scopeStack(sname=scope.name,...)>);
<endif>
>>

scopeTopDecl(sname) ::= <<
p<name>_<sname>Top
>>

scopeTop(sname) ::= <<
ctx-><scopeTopDecl(sname=sname,...)>
>>

scopePop(sname) ::= <<
<scopePopName(sname=sname,...)>(ctx);
>>

scopePush(sname) ::= <<
p<name>_<sname>Push(ctx)
>>

scopePopName(sname) ::= <<
p<name>_<sname>Pop
>>

```

```
scopePushName(sname) ::= <<
p<name>_<sname>Push
>>
```

```
scopeType(sname) ::= <<
p<name>_<sname>_SCOPE
>>
```

```
scopeStruct(sname) ::= <<
<name>_<sname>_SCOPE
>>
```

```
scopeStack(sname) ::= <<
p<name>_<sname>Stack
>>
```

```
attributeFuncs(scope) ::= <<
<if(scope.attributes)>
/* attributeFuncs(scope)
*/
```

```
static void ANTLR3_CDECL <scope.name>Free(<scopeType(sname=scope.name)> scope)
{
 ANTLR3_FREE(scope);
}
```

```
/** \brief Allocate initial memory for a <name> <scope.name> scope variable stack entry and
 * add it to the top of the stack.
 *
 * \remark
 * By default the structure is freed with ANTLR_FREE(), but you can use the
 * the \@init action to install a pointer to a custom free() routine by
 * adding the code:
 * \code
 * <scopeTop(sname=scope.name)>->free = myroutine;
 * \endcode
 *
 * With lots of comments of course! The routine should be declared in
 * \@members { } as:
 * \code
 * void ANTLR3_CDECL myfunc(<scopeType(sname=scope.name)> ptr).
 * \endcode
 *
 * It should perform any custom freeing stuff that you need (call ANTLR_FREE3, not free())
 * NB: It should not free the pointer it is given, which is the scope stack entry itself
 * and will be freed by the function that calls your custom free routine.
 *
```

```

*/
static <scopeType(sname=scope.name)>
<scopePushName(sname=scope.name)>(p<name> ctx)
{
 /* Pointer used to create a new set of attributes
 */
 <scopeType(sname=scope.name)> newAttributes;

 /* Allocate the memory for a new structure if we need one.
 */
 if (ctx-><scopeStack(sname=scope.name)>->size(ctx-><scopeStack(sname=scope.name)>) > ctx-
 ><scopeStack(sname=scope.name)>_limit)
 {
 // The current limit value was less than the number of scopes available on the stack so
 // we can just reuse one. Our limit tracks the stack count, so the index of the entry we want
 // is one less than that, or conveniently, the current value of limit.
 //
 newAttributes = (<scopeType(sname=scope.name)>)ctx-><scopeStack(sname=scope.name)>->get(ctx-
 ><scopeStack(sname=scope.name)>, ctx-><scopeStack(sname=scope.name)>_limit);
 }
 else
 {
 // Need a new allocation
 //
 newAttributes = (<scopeType(sname=scope.name)>
 ANTLR3_MALLOC(sizeof(<scopeStruct(sname=scope.name)>));
 if (newAttributes != NULL)
 {
 /* Standard ANTLR3 library implementation
 */
 ctx-><scopeStack(sname=scope.name)>->push(ctx-><scopeStack(sname=scope.name)>, newAttributes,
 (void (*)(void *))<scope.name>Free);
 }
 }

 // Blank out any previous free pointer, the user might or might install a new one.
 //
 newAttributes->free = NULL;

 // Indicate the position in the available stack that the current level is at
 //
 ctx-><scopeStack(sname=scope.name)>_limit++;

 /* Return value is the pointer to the new entry, which may be used locally
 * without de-referencing via the context.
 */
 return newAttributes;
}<\n>

```

```

<endif>
>>
returnStructName() ::= "<it.name>_return"

returnType() ::= <<
<if(!ruleDescriptor.isSynPred)>
<if(ruleDescriptor.hasMultipleReturnValues)>
<ruleDescriptor.grammar.recognizerName>_<ruleDescriptor:returnStructName()>
<else>
<if(ruleDescriptor.hasSingleReturnValue)>
<ruleDescriptor.singleValueReturnType>
<else>
void
<endif>
<endif>
<else>
ANTLR3_BOOLEAN
<endif>
>>

/** Generate the C type associated with a single or multiple return
 * value(s).
 */
ruleLabelType(referencedRule) ::= <<
<if(referencedRule.hasMultipleReturnValues)>
<referencedRule.grammar.recognizerName>_<referencedRule.name>_return
<else>
<if(referencedRule.hasSingleReturnValue)>
<referencedRule.singleValueReturnType>
<else>
void
<endif>
<endif>
>>

delegateName() ::= <<
<if(it.label)><it.label><else>g<it.name><endif>
>>

/** Using a type to init value map, try to init a type; if not in table
 * must be an object, default value is "0".
 */
initValue(typeName) ::= <<
<cTypeInitMap.(typeName)>
>>

/** Define a rule label */

```

```

ruleLabelDef(label) ::= <<
<ruleLabelType(referencedRule=label.referencedRule)> <label.label.text>;
#undef RETURN_TYPE_<label.label.text>
#define RETURN_TYPE_<label.label.text> <ruleLabelType(referencedRule=label.referencedRule)><\n>
>>

/** Rule label default value */
ruleLabelInitVal(label) ::= <<
<if(label.referencedRule.hasSingleReturnValue)>
<label.label.text> = <initValue(label.referencedRule.singleValueReturnType)>;
<endif>
>>

ASTLabelType() ::=
"<if(recognizer.ASTLabelType)><recognizer.ASTLabelType><else>pANTLR3_BASE_TREE<endif>"

/** Define a return struct for a rule if the code needs to access its
 * start/stop tokens, tree stuff, attributes, ... Leave a hole for
 * subgroups to stick in members.
 */
returnScope() ::= <<
<if(!ruleDescriptor.isSynPred)>
<if(ruleDescriptor.hasMultipleReturnValues)>
typedef struct <ruleDescriptor.grammar.recognizerName>_<ruleDescriptor:returnStructName()>_struct
{
<if(!TREE_PARSER)>
/** Generic return elements for ANTLR3 rules that are not in tree parsers or returning trees
 */
pANTLR3_COMMON_TOKEN start;
pANTLR3_COMMON_TOKEN stop;
<else>
<recognizer.ASTLabelType> start;
<recognizer.ASTLabelType> stop;
<endif>
<@ruleReturnMembers()>
<ruleDescriptor.returnScope.attributes:{<it.decl>;}; separator="\n">
}
<ruleDescriptor.grammar.recognizerName>_<ruleDescriptor:returnStructName()>;<\n><\n>
<endif>
<endif>
>>

parameterScope(scope) ::= <<
<scope.attributes:{<it.decl>;}; separator=", ">
>>

parameterAttributeRef(attr) ::= "<attr.name>"
parameterSetAttributeRef(attr,expr) ::= "<attr.name>=<expr>";"

```



```

/** Note that the scopeAttributeRef does not have access to the
 * grammar name directly
 */
scopeAttributeRef(scope,attr,index,negIndex) ::= <<
<if(negIndex)>
((SCOPE_TYPE(<scope>))(ctx->SCOPE_STACK(<scope>)->get(ctx->SCOPE_STACK(<scope>), ctx-
>SCOPE_STACK(<scope>)->size(ctx->SCOPE_STACK(<scope>)) - <negIndex> - 1))-><attr.name>
<else>
<if(index)>
((SCOPE_TYPE(<scope>))(ctx->SCOPE_STACK(<scope>)->get(ctx->SCOPE_STACK(<scope>),
(ANTLR3_UINT32)<index>)))-><attr.name>
<else>
(SCOPE_TOP(<scope>))-><attr.name>
<endif>
<endif>
>>

scopeSetAttributeRef(scope,attr,expr,index,negIndex) ::= <<
<if(negIndex)>
((SCOPE_TYPE(<scope>))(ctx->SCOPE_STACK(<scope>)->get(ctx->SCOPE_STACK(<scope>), ctx-
>SCOPE_STACK(<scope>)->size(ctx->SCOPE_STACK(<scope>)) - <negIndex> - 1))-><attr.name> = <expr>;
<else>
<if(index)>
((SCOPE_TYPE(<scope>))(ctx->SCOPE_STACK(<scope>)->get(ctx->SCOPE_STACK(<scope>),
(ANTLR3_UINT32)<index>)))-><attr.name> = <expr>;
<else>
(SCOPE_TOP(<scope>))-><attr.name>=<expr>;
<endif>
<endif>
>>

/** $x is either global scope or x is rule with dynamic scope; refers
 * to stack itself not top of stack. This is useful for predicates
 * like {function.size()>0 && function::name.equals("foo")}?
 */
isolatedDynamicScopeRef(scope) ::= "ctx->SCOPE_STACK(<scope>)"

/** reference an attribute of rule; might only have single return value */
ruleLabelRef(referencedRule,scope,attr) ::= <<
<if(referencedRule.hasMultipleReturnValues)>
<scope>.<attr.name>
<else>
<scope>
<endif>
>>

returnAttributeRef(ruleDescriptor,attr) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>

```

```

retval.<attr.name>
<else>
<attr.name>
<endif>
>>

returnSetAttributeRef(ruleDescriptor,attr,expr) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
retval.<attr.name>=<expr>;
<else>
<attr.name>=<expr>;
<endif>
>>

/** How to translate $tokenLabel */
tokenLabelRef(label) ::= "<label>"

/** ids+=ID {$ids} or e+=expr {$e} */
listLabelRef(label) ::= "list_<label>"

// not sure the next are the right approach
//
tokenLabelPropertyRef_text(scope,attr) ::= "(<scope>->getText(<scope>))"
tokenLabelPropertyRef_type(scope,attr) ::= "(<scope>->getType(<scope>))"
tokenLabelPropertyRef_line(scope,attr) ::= "(<scope>->getLine(<scope>))"
tokenLabelPropertyRef_pos(scope,attr) ::= "(<scope>->getCharPositionInLine(<scope>))"
tokenLabelPropertyRef_channel(scope,attr) ::= "(<scope>->getChannel(<scope>))"
tokenLabelPropertyRef_index(scope,attr) ::= "(<scope>->getTokenIndex(<scope>))"
tokenLabelPropertyRef_tree(scope,attr) ::= "(<scope>->tree)"
tokenLabelPropertyRef_int(scope,attr) ::= "(<scope>->getText(<scope>->toInt32(<scope>->getText(<scope>)))"

ruleLabelPropertyRef_start(scope,attr) ::= "<scope>.start"
ruleLabelPropertyRef_stop(scope,attr) ::= "<scope>.stop"
ruleLabelPropertyRef_tree(scope,attr) ::= "<scope>.tree"
ruleLabelPropertyRef_text(scope,attr) ::= <<
<if(TREE_PARSER)>
(STRSTREAM->toStringSS(STRSTREAM, <scope>.start, <scope>.start))
<else>
(STRSTREAM->toStringTT(STRSTREAM, <scope>.start, <scope>.stop))
<endif>
>>

ruleLabelPropertyRef_st(scope,attr) ::= "<scope>.st"

/** Isolated $RULE ref ok in lexer as it's a Token */
lexerRuleLabel(label) ::= "<label>"

```

```

lexerRuleLabelPropertyRef_type(scope,attr) ::= "(<scope>->getType(<scope>))"
lexerRuleLabelPropertyRef_line(scope,attr) ::= "(<scope>->getLine(<scope>))"
lexerRuleLabelPropertyRef_pos(scope,attr) ::= "(<scope>->getCharPositionInLine(<scope>))"
lexerRuleLabelPropertyRef_channel(scope,attr) ::= "(<scope>->getChannel(<scope>))"
lexerRuleLabelPropertyRef_index(scope,attr) ::= "(<scope>->getTokenIndex(<scope>))"
lexerRuleLabelPropertyRef_text(scope,attr) ::= "(<scope>->getText(<scope>))"

// Somebody may ref $template or $tree or $stop within a rule:
rulePropertyRef_start(scope,attr) ::= "retval.start"
rulePropertyRef_stop(scope,attr) ::= "retval.stop"
rulePropertyRef_tree(scope,attr) ::= "retval.tree"
rulePropertyRef_text(scope,attr) ::= <<
<if(TREE_PARSER)>
INPUT->toStringSS(INPUT, ADAPTOR->getTokenStartIndex(ADAPTOR, retval.start), ADAPTOR-
>getTokenStopIndex(ADAPTOR, retval.start))
<else>
STRSTREAM->toStringTT(STRSTREAM, retval.start, LT(-1))
<endif>
>>
rulePropertyRef_st(scope,attr) ::= "retval.st"

lexerRulePropertyRef_text(scope,attr) ::= "LEXER->getText(LEXER)"
lexerRulePropertyRef_type(scope,attr) ::= "_type"
lexerRulePropertyRef_line(scope,attr) ::= "LEXSTATE->tokenStartLine"
lexerRulePropertyRef_pos(scope,attr) ::= "LEXSTATE->tokenStartCharPositionInLine"
lexerRulePropertyRef_channel(scope,attr) ::= "LEXSTATE->channel"
lexerRulePropertyRef_start(scope,attr) ::= "LEXSTATE->tokenStartCharIndex"
lexerRulePropertyRef_stop(scope,attr) ::= "(LEXER->getCharIndex(LEXER)-1)"
lexerRulePropertyRef_index(scope,attr) ::= "-1" // undefined token index in lexer
lexerRulePropertyRef_int(scope,attr) ::= "LEXER->getText(LEXER)->toInt32(LEXER->getText(LEXER))"

// setting $st and $tree is allowed in local rule. everything else is flagged as error
ruleSetPropertyRef_tree(scope,attr,expr) ::= "retval.tree=<expr>;"
ruleSetPropertyRef_st(scope,attr,expr) ::= "retval.st=<expr>;"

/** How to execute an action (when not backtracking) */
execAction(action) ::= <<
<if(backtracking)>
<if(actions.(actionScope).synpredgate)>
if (<actions.(actionScope).synpredgate>)
{
 <action>
}
<else>
if (BACKTRACKING == 0)
{

```

```

 <action>
 }
<endif>
<else>
{
 <action>
}
<endif>
>>

// M I S C (properties, etc...)

bitsetDeclare(name, words64) ::= <<

/** Bitset defining follow set for error recovery in rule state: <name> */
static ANTLR3_BITWORD <name>_bits[] = { <words64:{ANTLR3_UINT64_LIT(<it>)}; separator=", "> };
static ANTLR3_BITSET_LIST <name> = { <name>_bits, <length(words64)> };
>>

bitset(name, words64) ::= <<
antlr3BitsetSetAPI(&<name>);<\n>
>>

codeFileExtension() ::= ".c"

true() ::= "ANTLR3_TRUE"
false() ::= "ANTLR3_FALSE"

```

Found in path(s):

\* /opt/cola/permits/1204005060\_1631853129.56/0/antlr-3-1-3-sources-4-jar/org/antlr/codegen/templates/C/C.stg  
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```

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* THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/
/** Template subgroup to add template rewrite output
* If debugging, then you'll also get STDbg.stg loaded.
*/
group ST;

@outputFile.imports() ::= <<
<@super.imports(>
using Antlr3.ST;
using Antlr3.ST.Language;
>>

/** Add this to each rule's return value struct */
@returnScope.ruleReturnMembers() ::= <<
public StringTemplate st;
public object getTemplate() { return st; }
public override string ToString() { return (st==null) ? null : st.ToString(); }
>>

@genericParser.members() ::= <<
<@super.members(>
protected StringTemplateGroup templateLib = new StringTemplateGroup("<name>Templates",
typeof(AngleBracketTemplateLexer));

public StringTemplateGroup TemplateLib
{
get { return templateLib; }
set { templateLib = value; }
}

/** allows convenient multi-value initialization:
// * "new STAttrMap().put(...).put(...)"
// */
//public static class STAttrMap extends HashMap {

```

```

// public STAttrMap put(String attrName, object value) {
// super.put(attrName, value);
// return this;
// }
// public STAttrMap put(String attrName, int value) {
// super.put(attrName, new Integer(value));
// return this;
// }
//}
>>

/** x+=rule when output=template */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>
<listLabel(elem=label+".getTemplate()",...)>
>>

rewriteTemplate(alts) ::= <<

// TEMPLATE REWRITE
<if(backtracking)>
if (<actions.(actionScope).synpredgate>)
{
<alts:rewriteTemplateAlt(); separator="else ">
<if(rewriteMode)><replaceTextInLine()><endif>
}
<else>
<alts:rewriteTemplateAlt(); separator="else ">
<if(rewriteMode)><replaceTextInLine()><endif>
<endif>
>>

replaceTextInLine() ::= <<
<if(TREE_PARSER)>
((TokenRewriteStream)input.TokenStream).replace(
input.TreeAdaptor.GetTokenStartIndex(retval.start),
input.TreeAdaptor.GetTokenStopIndex(retval.start),
retval.st);
<else>
((TokenRewriteStream)input).replace(
((IToken)retval.start).TokenIndex,
input.LT(-1).TokenIndex,
retval.st);
<endif>
>>

rewriteTemplateAlt() ::= <<
// <it.description>

```

```

<if(it.pred)>
if (<it.pred>)
{
 retval.st = <it.alt>;
}<\n>
<else>
{
 retval.st = <it.alt>;
}<\n>
<endif>
>>

```

```

rewriteEmptyTemplate(alts) ::= <<
null;
>>

```

```

/** Invoke a template with a set of attribute name/value pairs.
 * Set the value of the rule's template *after* having set
 * the attributes because the rule's template might be used as
 * an attribute to build a bigger template; you get a self-embedded
 * template.
 */

```

```

rewriteExternalTemplate(name,args) ::= <<
templateLib.getInstanceOf("<name>"<if(args)>,
 new STAttrMap()<args:{a | .put("<a.name>", <a.value>)}>
 <endif>)
>>

```

```

/** expr is a string expression that says what template to load */
rewriteIndirectTemplate(expr,args) ::= <<
templateLib.getInstanceOf(<expr><if(args)>,
 new STAttrMap()<args:{a | .put("<a.name>", <a.value>)}>
 <endif>)
>>

```

```

/** Invoke an inline template with a set of attribute name/value pairs */
rewriteInlineTemplate(args, template) ::= <<
new StringTemplate(templateLib, "<template>"<if(args)>,
 new STAttrMap()<args:{a | .put("<a.name>", <a.value>)}>
 <endif>)
>>

```

```

/** plain -> {foo} action */
rewriteAction(action) ::= <<
<action>
>>

```

```

/** An action has %st.attrName=expr; or % {st}.attrName=expr; */

```

```
actionSetAttribute(st,attrName,expr) ::= <<
(<st>).setAttribute("<attrName>",<expr>);
>>
```

```
/** Translate %{stringExpr} */
actionStringConstructor(stringExpr) ::= <<
new StringTemplate(templateLib,<stringExpr>)
>>
```

Found in path(s):

\* /opt/cola/permits/1204005060\_1631853129.56/0/antlr-3-1-3-sources-4-jar/org/antlr/codegen/templates/CSharp3/ST.stg

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\*/

group AST;

```
@outputFile.imports() ::= <<
<@super.imports()>
<if(!TREE_PARSER)><! tree parser would already have imported !>
import org.antlr.runtime.tree.*;<\n>
<endif>
```



```

>>

@genericParser.members() ::= <<
<@super.members()>
<parserMembers()>
>>

/** Add an adaptor property that knows how to build trees */
parserMembers() ::= <<
protected var adaptor:TreeAdaptor = new CommonTreeAdaptor();<\n>
override public function set treeAdaptor(adaptor:TreeAdaptor):void {
 this.adaptor = adaptor;
 <grammar.directDelegates:{g|<g.delegateName()>.treeAdaptor = this.adaptor;}>
}
override public function get treeAdaptor():TreeAdaptor {
 return adaptor;
}
>>

@returnScope.ruleReturnMembers() ::= <<
<ASTLabelType> tree;
public function get tree():Object { return tree; }
>>

/** Add a variable to track rule's return AST */
ruleDeclarations() ::= <<
<super.ruleDeclarations()>
var root_0:<ASTLabelType> = null;<\n>
>>

ruleLabelDefs() ::= <<
<super.ruleLabelDefs()>
<[ruleDescriptor.tokenLabels,ruleDescriptor.wildcardTreeLabels,
ruleDescriptor.wildcardTreeListLabels]:{ var <it.label.text>_tree:<ASTLabelType>=null;}; separator="\n">
<ruleDescriptor.tokenListLabels:{ var <it.label.text>_tree:<ASTLabelType>=null;}; separator="\n">
<ruleDescriptor.allTokenRefsInAltsWithRewrites
 :{ var stream_<it>:RewriteRule<rewriteElementType>Stream=new
RewriteRule<rewriteElementType>Stream(adaptor,"token <it>");}; separator="\n">
<ruleDescriptor.allRuleRefsInAltsWithRewrites
 :{ var stream_<it>:RewriteRuleSubtreeStream=new RewriteRuleSubtreeStream(adaptor,"rule <it>");};
separator="\n">
>>

/** When doing auto AST construction, we must define some variables;
* These should be turned off if doing rewrites. This must be a "mode"
* as a rule could have both rewrite and AST within the same alternative
* block.
*/

```

```

@alt.declarations() ::= <<
<if(autoAST)>
<if(outerAlt)>
<if(!rewriteMode)>
root_0 = <ASTLabelType>(adaptor.nil());<\n>
<endif>
<endif>
<endif>
>>

// Tracking Rule Elements

/** ID and track it for use in a rewrite rule */
tokenRefTrack(token,label,elementIndex,hetero) ::= <<
<tokenRefBang(...)> <! Track implies no auto AST construction!>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) <endif>stream_<token>.add(<label>);<\n>
>>

/** ids+=ID and track it for use in a rewrite rule; adds to ids *and*
 * to the tracking list stream_ID for use in the rewrite.
 */
tokenRefTrackAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRefTrack(...)>
<listLabel(elem=label,...)>
>>

/** ^(ID ...) track for rewrite */
tokenRefRuleRootTrack(token,label,elementIndex,hetero) ::= <<
<tokenRefBang(...)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) <endif>stream_<token>.add(<label>);<\n>
>>

/** Match ^(label+=TOKEN ...) track for rewrite */
tokenRefRuleRootTrackAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRefRuleRootTrack(...)>
<listLabel(elem=label,...)>
>>

/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(...)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) <endif>stream_<rule.name>.add(<label>.tree);
>>

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefTrack(...)>
<listLabel(elem=label+".tree",...)>

```

```

>>

/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) <endif>stream_<rule>.add(<label>.tree);
>>

/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRootTrack(...)>
<listLabel(elem=label+".tree",...)>
>>

// R e w r i t e

rewriteCode(
alts, description,
referencedElementsDeep, // ALL referenced elements to right of ->
referencedTokenLabels,
referencedTokenListLabels,
referencedRuleLabels,
referencedRuleListLabels,
referencedWildcardLabels,
referencedWildcardListLabels,
rewriteBlockLevel, enclosingTreeLevel, treeLevel) ::=
<<

// AST REWRITE
// elements: <referencedElementsDeep; separator=", ">
// token labels: <referencedTokenLabels; separator=", ">
// rule labels: <referencedRuleLabels; separator=", ">
// token list labels: <referencedTokenListLabels; separator=", ">
// rule list labels: <referencedRuleListLabels; separator=", ">
<if(backtracking)>
if (<actions.(actionScope).synpredgate>) {<\n>
<endif>
<prevRuleRootRef().tree = root_0;
<rewriteCodeLabels()>
root_0 = <ASTLabelType>(adaptor.nil());
<alts:rewriteAlt(); separator="else ">
<! if tree parser and rewrite=true !>
<if(TREE_PARSER)>
<if(rewriteMode)>
<prevRuleRootRef().tree = <ASTLabelType>(adaptor.rulePostProcessing(root_0));
input.replaceChildren(adaptor.getParent(retval.start),
adaptor.getChildIndex(retval.start),
adaptor.getChildIndex(_last),

```

```

 retval.tree);
<endif>
<endif>
<! if parser or tree-parser && rewrite!=true, we need to set result !>
<if(!TREE_PARSER)>
<prevRuleRootRef(>).tree = root_0;
<else>
<if(!rewriteMode)>
<prevRuleRootRef(>).tree = root_0;
<endif>
<endif>
<endif>
<if(backtracking)>
}
<endif>
>>

rewriteCodeLabels() ::= <<
<referencedTokenLabels
: {var stream_<it>:RewriteRule<rewriteElementType>Stream=new
RewriteRule<rewriteElementType>Stream(adaptor,"token <it>",<it>)};
separator="\n"
>
<referencedTokenListLabels
: {var stream_<it>:RewriteRule<rewriteElementType>Stream=new
RewriteRule<rewriteElementType>Stream(adaptor,"token <it> ", list_<it>)};
separator="\n"
>
<referencedWildcardLabels
: {var stream_<it>:RewriteRuleSubtreeStream=new RewriteRuleSubtreeStream(adaptor,"wildcard <it>",<it>)};
separator="\n"
>
<referencedWildcardListLabels
: {var stream_<it>:RewriteRuleSubtreeStream=new RewriteRuleSubtreeStream(adaptor,"wildcard
<it> ",list_<it>)};
separator="\n"
>
<referencedRuleLabels
: {var stream_<it>:RewriteRuleSubtreeStream=new RewriteRuleSubtreeStream(adaptor,"rule
<it>",<it>!=null?<it>.tree:null)};
separator="\n"
>
<referencedRuleListLabels
: {var stream_<it>:RewriteRuleSubtreeStream=new RewriteRuleSubtreeStream(adaptor,"rule <it> ",list_<it>)};
separator="\n"
>
>>

/** Generate code for an optional rewrite block; note it uses the deep ref'd element

```

```

* list rather shallow like other blocks.
*/
rewriteOptionalBlock(
 alt,rewriteBlockLevel,
 referencedElementsDeep, // all nested refs
 referencedElements, // elements in immediately block; no nested blocks
 description) ::=
<<
// <fileName>:<description>
if (<referencedElementsDeep:{el | stream_<el>.hasNext}; separator="||">) {
 <alt>
}
<referencedElementsDeep:{el | stream_<el>.reset();<n>}>
>>

```

```

rewriteClosureBlock(
 alt,rewriteBlockLevel,
 referencedElementsDeep, // all nested refs
 referencedElements, // elements in immediately block; no nested blocks
 description) ::=
<<
// <fileName>:<description>
while (<referencedElements:{el | stream_<el>.hasNext}; separator="||">) {
 <alt>
}
<referencedElements:{el | stream_<el>.reset();<n>}>
>>

```

```

rewritePositiveClosureBlock(
 alt,rewriteBlockLevel,
 referencedElementsDeep, // all nested refs
 referencedElements, // elements in immediately block; no nested blocks
 description) ::=
<<
if (!(<referencedElements:{el | stream_<el>.hasNext}; separator="||">)) {
 throw new RewriteEarlyExitException();
}
while (<referencedElements:{el | stream_<el>.hasNext}; separator="||">) {
 <alt>
}
<referencedElements:{el | stream_<el>.reset();<n>}>
>>

```

```

rewriteAlt(a) ::= <<
// <a.description>
<if(a.pred)>
if (<a.pred>) {
 <a.alt>
}

```

```

}<\n>
<else>
{
 <a.alt>
}<\n>
<endif>
>>

/** For empty rewrites: "r : ... -> ;" */
rewriteEmptyAlt() ::= "root_0 = null;"

rewriteTree(root,children,description,enclosingTreeLevel,treeLevel) ::= <<
// <fileName>:<description>
{
var root_<treeLevel>:<ASTLabelType> = <ASTLabelType>(adaptor.nil());
<root:rewriteElement()>
<children:rewriteElement()>
adaptor.addChild(root_<enclosingTreeLevel>, root_<treeLevel>);
}<\n>
>>

rewriteElementList(elements) ::= "<elements:rewriteElement()>"

rewriteElement(e) ::= <<
<@pregen()>
<e.el>
>>

/** Gen ID or ID[args] */
rewriteTokenRef(token,elementIndex,hetero,args) ::= <<
adaptor.addChild(root_<treeLevel>, <createRewriteNodeFromElement(...)>);<\n>
>>

/** Gen $label ... where defined via label=ID */
rewriteTokenLabelRef(label,elementIndex) ::= <<
adaptor.addChild(root_<treeLevel>, stream_<label>.nextNode());<\n>
>>

/** Gen $label ... where defined via label+=ID */
rewriteTokenListLabelRef(label,elementIndex) ::= <<
adaptor.addChild(root_<treeLevel>, stream_<label>.nextNode());<\n>
>>

/** Gen ^($label ...) */
rewriteTokenLabelRefRoot(label,elementIndex) ::= <<
root_<treeLevel> = <ASTLabelType>(adaptor.becomeRoot(stream_<label>.nextNode(), root_<treeLevel>));<\n>
>>

```

```

/** Gen ^($label ...) where label+=... */
rewriteTokenListLabelRefRoot ::= rewriteTokenLabelRefRoot

/** Gen ^(ID ...) or ^(ID[args] ...) */
rewriteTokenRefRoot(token,elementIndex,hetero,args) ::= <<
root_<treeLevel> = <ASTLabelType>(adaptor.becomeRoot(<createRewriteNodeFromElement(...)>,
root_<treeLevel>));<\n>
>>

rewriteImaginaryTokenRef(args,token,hetero,elementIndex) ::= <<
adaptor.addChild(root_<treeLevel>, <createImaginaryNode(tokenType=token, ...)>);<\n>
>>

rewriteImaginaryTokenRefRoot(args,token,hetero,elementIndex) ::= <<
root_<treeLevel> = <ASTLabelType>(adaptor.becomeRoot(<createImaginaryNode(tokenType=token, ...)>,
root_<treeLevel>));<\n>
>>

/** plain -> {foo} action */
rewriteAction(action) ::= <<
root_0 = <action>;<\n>
>>

/** What is the name of the previous value of this rule's root tree? This
* let's us refer to $rule to mean previous value. I am reusing the
* variable 'tree' sitting in retval struct to hold the value of root_0 right
* before I set it during rewrites. The assign will be to retval.tree.
*/
prevRuleRootRef() ::= "retval"

rewriteRuleRef(rule) ::= <<
adaptor.addChild(root_<treeLevel>, stream_<rule>.nextTree());<\n>
>>

rewriteRuleRefRoot(rule) ::= <<
root_<treeLevel> = <ASTLabelType>(adaptor.becomeRoot(stream_<rule>.nextNode(), root_<treeLevel>));<\n>
>>

rewriteNodeAction(action) ::= <<
adaptor.addChild(root_<treeLevel>, <action>);<\n>
>>

rewriteNodeActionRoot(action) ::= <<
root_<treeLevel> = <ASTLabelType>(adaptor.becomeRoot(<action>, root_<treeLevel>));<\n>
>>

/** Gen $ruleLabel ... where defined via ruleLabel=rule */
rewriteRuleLabelRef(label) ::= <<

```

```

adaptor.addChild(root_<treeLevel>, stream_<label>.nextTree());<\n>
>>

/** Gen $ruleLabel ... where defined via ruleLabel+=rule */
rewriteRuleListLabelRef(label) ::= <<
adaptor.addChild(root_<treeLevel>, stream_<label>.nextTree());<\n>
>>

/** Gen ^($ruleLabel ...) where ruleLabel=rule */
rewriteRuleLabelRefRoot(label) ::= <<
root_<treeLevel> = <ASTLabelType>(adaptor.becomeRoot(stream_<label>.nextNode(), root_<treeLevel>));<\n>
>>

/** Gen ^($ruleLabel ...) where ruleLabel+=rule */
rewriteRuleListLabelRefRoot(label) ::= <<
root_<treeLevel> = <ASTLabelType>(adaptor.becomeRoot(stream_<label>.nextNode(), root_<treeLevel>));<\n>
>>

rewriteWildcardLabelRef(label) ::= <<
adaptor.addChild(root_<treeLevel>, stream_<label>.nextTree());<\n>
>>

createImaginaryNode(tokenType,hetero,args) ::= <<
<if(hetero)>
<! new MethodNode(IDLabel, args) !>
new <hetero>(tokenType<if(args)>, <args; separator=", "><endif>)
<else>
<ASTLabelType>(adaptor.create(tokenType, <args; separator=", "><if(!args)>"<tokenType>"<endif>))
<endif>
>>

createRewriteNodeFromElement(token,hetero,args) ::= <<
<if(hetero)>
new <hetero>(stream_<token>.nextToken()<if(args)>, <args; separator=", "><endif>)
<else>
<if(args)> <! must create new node from old !>
adaptor.create(<token>, <args; separator=", ">)
<else>
stream_<token>.nextNode()
<endif>
<endif>
>>

```

Found in path(s):

\* /opt/cola/permits/1204005060\_1631853129.56/0/antlr-3-1-3-sources-4-jar/org/antlr/codegen/templates/ActionScript/AST.stg

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/\*

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\*/

/\*\* Templates for building ASTs during normal parsing.

\*

\* Deal with many combinations. Dimensions are:

\* Auto build or rewrite

\* no label, label, list label (label/no-label handled together)

\* child, root

\* token, set, rule, wildcard

\*

\* The situation is not too bad as rewrite (->) usage makes ^ and !

\* invalid. There is no huge explosion of combinations.

\*/

group ASTParser;

// TOKEN AST STUFF

/\*\* ID and output=AST \*/

tokenRef(token,label,hetero,elementIndex) ::= <<

<super.tokenRef(...)>

<if(backtracking)>if ( backtracking == 0 ) {<endif>

\_<label>\_tree = (<ASTLabelType>)[treeAdaptor newTreeWithToken:\_<label>];

```

[treeAdaptor addChild: _<label>_tree toTree:root_0];
[_<label>_tree release];
<if(backtracking)><endif>
>>

/** ID! and output=AST (same as plain tokenRef) */
tokenRefBang(token,label,elementIndex) ::= "<super.tokenRef(...)>"

/** ID^ and output=AST */
tokenRefRuleRoot(token,label,hetero,elementIndex) ::= <<
<super.tokenRef(...)>
<if(backtracking)>if (backtracking == 0) {<endif>
_<label>_tree = (<ASTLabelType>)[treeAdaptor newTreeWithToken:_<label>];
root_0 = (<ASTLabelType>)[treeAdaptor makeNode:_<label>_tree parentOf:root_0];
[_<label>_tree release];
<if(backtracking)><endif>
>>

/** ids+=ID! and output=AST */
tokenRefBangAndListLabel(token,label,elementIndex) ::= <<
<tokenRefBang(...)>
<listLabel(elem=label,...)>
>>

/** label+=TOKEN when output=AST but not rewrite alt */
tokenRefAndListLabel(token,label,hetero,elementIndex) ::= <<
<tokenRef(...)>
<listLabel(elem=label,...)>
>>

/** Match label+=TOKEN^ when output=AST but not rewrite alt */
tokenRefRuleRootAndListLabel(token,label,hetero,elementIndex) ::= <<
<tokenRefRuleRoot(...)>
<listLabel(elem=label,...)>
>>

// SET AST

// the match set stuff is interesting in that it uses an argument list
// to pass code to the default matchSet; another possible way to alter
// inherited code. I don't use the region stuff because I need to pass
// different chunks depending on the operator. I don't like making
// the template name have the operator as the number of templates gets
// large but this is the most flexible--this is as opposed to having
// the code generator call matchSet then add root code or ruleroot code
// plus list label plus ... The combinations might require complicated
// rather than just added on code. Investigate that refactoring when
// I have more time.

```

```
// TODO: add support for heterogeneous trees
```

```
matchSet(s,label,hetero,elementIndex,postmatchCode) ::= <<
<super.matchSet(..., postmatchCode={
<if(backtracking)>if (backtracking == 0) {<endif>
 _<label>_tree = (<ASTLabelType>)[treeAdaptor newTreeWithToken:_<label>];
 [treeAdaptor addChild:_<label>_tree toTree:root_0];
 [_<label>_tree release];
<if(backtracking)>}<endif>
 }>
>>
```

```
matchSetBang(s,label,elementIndex,postmatchCode) ::= "<super.matchSet(...)>"
```

```
// note there is no matchSetTrack because -> rewrites force sets to be
// plain old blocks of alts: (A|B|...|C)
```

```
matchSetRuleRoot(s,label,hetero,elementIndex,debug) ::= <<
<super.matchSet(..., postmatchCode={
<if(backtracking)>if (backtracking == 0) {<endif>
 _<label>_tree = (<ASTLabelType>)[treeAdaptor newTreeWithToken:_<label>];
 root_0 = (<ASTLabelType>)[treeAdaptor makeNode:_<label>_tree parentOf:root_0];
 [_<label>_tree release];
<if(backtracking)>}<endif>
 }>
>>
```

```
// RULE REF AST
```

```
/** rule when output=AST */
```

```
ruleRef(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(...)>
<if(backtracking)>if (backtracking == 0) <endif>[treeAdaptor addChild:[_<label> tree] toTree:root_0];
>>
```

```
/** rule! is same as normal rule ref */
```

```
ruleRefBang(rule,label,elementIndex,args,scope) ::= "<super.ruleRef(...)>"
```

```
/** rule^ */
```

```
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(...)>
<if(backtracking)>if (backtracking == 0) <endif>root_0 = (<ASTLabelType>)[treeAdaptor makeNode:[_<label>
tree] parentOf:root_0];
>>
```

```
/** x+=rule when output=AST */
```

```
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
```

```

<ruleRef(...)>
<listLabel(elem "["+label+" tree]",...)>
>>

/** x+=rule! when output=AST is a rule ref with list addition */
ruleRefBangAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefBang(...)>
<listLabel(elem "["+label+" tree]",...)>
>>

/** x+=rule^ */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...)>
<listLabel(elem "["+label+" tree]",...)>
>>

// WILDCARD AST

wildcard(label,elementIndex) ::= <<
<super.wildcard(...)>
<if(backtracking)>if (backtracking == 0) {<endif>
_<label>_tree = (<ASTLabelType>)[treeAdaptor newTreeWithToken:_<label>];
[treeAdaptor addChild:_<label>_tree toTree:root_0];
[_<label>_tree release];
<if(backtracking)>}<endif>
>>

wildcardBang(label,elementIndex) ::= "<super.wildcard(...)>"

wildcardRuleRoot(label,elementIndex) ::= <<
<super.wildcard(...)>
<if(backtracking)>if (backtracking == 0) {<endif>
_<label>_tree = (<ASTLabelType>)[treeAdaptor newTreeWithToken:_<label>];
root_0 = (<ASTLabelType>)[treeAdaptor makeNode:_<label>_tree parentOf:root_0];
[_<label>_tree release];
<if(backtracking)>}<endif>
>>

createNodeFromToken(label,hetero) ::= <<
<if(hetero)>
new <hetero>(<label>) <! new MethodNode(IDLabel) !>
<else>
(<ASTLabelType>)adaptor.create(<label>)
<endif>
>>

```

Found in path(s):

```
* /opt/cola/permits/1204005060_1631853129.56/0/antlr-3-1-3-sources-4-
jar/org/antlr/codegen/templates/ObjC/ASTParser.stg
```

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```

```
*/
```

```
group AST;
```

```
@outputFile.imports() ::= <<
```

```
<@super.imports(>
```

```
<if(!TREE_PARSER)><! tree parser would already have imported !>
```

```
using Antlr.Runtime.Tree;
```

```
using RewriteRuleITokenStream = Antlr.Runtime.Tree.RewriteRuleTokenStream;<\n>
```

```
<endif>
```

```
>>
```

```
@genericParser.members() ::= <<
```

```
<@super.members(>
```

```
<parserMembers(>
```

```

>>

/** Add an adaptor property that knows how to build trees */
parserMembers() ::= <<
protected ITreeAdaptor adaptor = new CommonTreeAdaptor();<\n>
public ITreeAdaptor TreeAdaptor
{
 get
 {
 return adaptor;
 }
 set
 {
 this.adaptor = value;
 <grammar.directDelegates:{g|<g:delegateName().TreeAdaptor = this.adaptor;}>
 }
}
>>

@returnScope.ruleReturnMembers() ::= <<
public <ASTLabelType> tree;
public override object Tree { get { return tree; } }
>>

/** Add a variable to track rule's return AST */
ruleDeclarations() ::= <<
<super.ruleDeclarations()>
<ASTLabelType> root_0 = null;<\n>
>>

ruleLabelDefs() ::= <<
<super.ruleLabelDefs()>
<[ruleDescriptor.tokenLabels,ruleDescriptor.wildcardTreeLabels,ruleDescriptor.wildcardTreeListLabels]
: {<ASTLabelType> <it.label.text>_tree=null;}; separator="\n">
<ruleDescriptor.tokenListLabels: {<ASTLabelType> <it.label.text>_tree=null;}; separator="\n">
<ruleDescriptor.allTokenRefsInAltsWithRewrites
: {RewriteRule<rewriteElementType>Stream stream_<it>=new
RewriteRule<rewriteElementType>Stream(adaptor,"token <it>");}; separator="\n">
<ruleDescriptor.allRuleRefsInAltsWithRewrites
: {RewriteRuleSubtreeStream stream_<it>=new RewriteRuleSubtreeStream(adaptor,"rule <it>");}; separator="\n">
>>

/** When doing auto AST construction, we must define some variables;
 * These should be turned off if doing rewrites. This must be a "mode"
 * as a rule could have both rewrite and AST within the same alternative
 * block.
 */
@alt.declarations() ::= <<

```

```

<if(autoAST)>
<if(outerAlt)>
<if(!rewriteMode)>
root_0 = (<ASTLabelType>)adaptor.Nil();<\n>
<endif>
<endif>
<endif>
>>

// Tracking Rule Elements

/** ID and track it for use in a rewrite rule */
tokenRefTrack(token,label,elementIndex,hetero) ::= <<
<tokenRefBang(...)> <! Track implies no auto AST construction!>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) <endif>stream_<token>.Add(<label>);<\n>
>>

/** ids+=ID and track it for use in a rewrite rule; adds to ids *and*
 * to the tracking list stream_ID for use in the rewrite.
 */
tokenRefTrackAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRefTrack(...)>
<listLabel(elem=label,...)>
>>

/** ^(ID ...) track for rewrite */
tokenRefRuleRootTrack(token,label,elementIndex,hetero) ::= <<
<tokenRefBang(...)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) <endif>stream_<token>.Add(<label>);<\n>
>>

/** Match ^(label+=TOKEN ...) track for rewrite */
tokenRefRuleRootTrackAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRefRuleRootTrack(...)>
<listLabel(elem=label,...)>
>>

/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(...)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) <endif>stream_<rule.name>.Add(<label>.Tree);
>>

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefTrack(...)>
<listLabel(elem=label+".Tree",...)>
>>

```

```

/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) <endif>stream_<rule>.Add(<label>.Tree);
>>

```

```

/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRootTrack(...)>
<listLabel(elem=label+".Tree",...)>
>>

```

// R e w r i t e

```

rewriteCode(
alts, description,
referencedElementsDeep, // ALL referenced elements to right of ->
referencedTokenLabels,
referencedTokenListLabels,
referencedRuleLabels,
referencedRuleListLabels,
referencedWildcardLabels,
referencedWildcardListLabels,
rewriteBlockLevel, enclosingTreeLevel, treeLevel) ::=
<<

```

```

{
// AST REWRITE
// elements: <referencedElementsDeep; separator=", ">
// token labels: <referencedTokenLabels; separator=", ">
// rule labels: <referencedRuleLabels; separator=", ">
// token list labels: <referencedTokenListLabels; separator=", ">
// rule list labels: <referencedRuleListLabels; separator=", ">
// wildcard labels: <[referencedWildcardLabels,referencedWildcardListLabels]; separator=", ">
<if(backtracking)>
if (<actions.(actionScope).synpredgate>) {<\n>
<endif>
<prevRuleRootRef(>).tree = root_0;
<rewriteCodeLabels(>
root_0 = (<ASTLabelType>)adaptor.Nil();
<alts:rewriteAlt(); separator="else ">
<! if tree parser and rewrite=true !>
<if(TREE_PARSER)>
<if(rewriteMode)>
<prevRuleRootRef(>).tree = (<ASTLabelType>)adaptor.RulePostProcessing(root_0);
input.ReplaceChildren(adaptor.GetParent(retval.start),
adaptor.GetChildIndex(retval.start),

```



```

 adaptor.GetChildIndex(_last),
 retval.tree);
<endif>
<endif>
<! if parser or tree-parser && rewrite!=true, we need to set result !>
<if(!TREE_PARSER)>
<prevRuleRootRef(>.tree = root_0;<\n>
<else>
<if(!rewriteMode)>
<prevRuleRootRef(>.tree = root_0;
<endif>
<endif>
<if(backtracking)>
}<\n>
<endif>
}

>>

rewriteCodeLabels() ::= <<
<referencedTokenLabels
:{RewriteRule<rewriteElementType>Stream stream_<it>=new
RewriteRule<rewriteElementType>Stream(adaptor,"token <it>",<it>)};
separator="\n"
>
<referencedTokenListLabels
:{RewriteRule<rewriteElementType>Stream stream_<it>=new
RewriteRule<rewriteElementType>Stream(adaptor,"token <it> ", list_<it>)};
separator="\n"
>
<referencedWildcardLabels
:{RewriteRuleSubtreeStream stream_<it>=new RewriteRuleSubtreeStream(adaptor,"wildcard <it>",<it>)};
separator="\n"
>
<referencedWildcardListLabels
:{RewriteRuleSubtreeStream stream_<it>=new RewriteRuleSubtreeStream(adaptor,"wildcard <it> ",list_<it>)};
separator="\n"
>
<referencedRuleLabels
:{RewriteRuleSubtreeStream stream_<it>=new RewriteRuleSubtreeStream(adaptor,"rule
<it>",<it>!=null?<it>.tree:null)};
separator="\n"
>
<referencedRuleListLabels
:{RewriteRuleSubtreeStream stream_<it>=new RewriteRuleSubtreeStream(adaptor,"token <it> ",list_<it>)};
separator="\n"
>
>>

```

```

/** Generate code for an optional rewrite block; note it uses the deep ref'd element
 * list rather shallow like other blocks.
 */
rewriteOptionalBlock(
 alt,rewriteBlockLevel,
 referencedElementsDeep, // all nested refs
 referencedElements, // elements in immediately block; no nested blocks
 description) ::=
<<
// <fileName>:<description>
if (<referencedElementsDeep:{el | stream_<el>.HasNext}; separator="||">)
{
 <alt>
}
<referencedElementsDeep:{el | stream_<el>.Reset();<\n>}>
>>

rewriteClosureBlock(
 alt,rewriteBlockLevel,
 referencedElementsDeep, // all nested refs
 referencedElements, // elements in immediately block; no nested blocks
 description) ::=
<<
// <fileName>:<description>
while (<referencedElements:{el | stream_<el>.HasNext}; separator="||">)
{
 <alt>
}
<referencedElements:{el | stream_<el>.Reset();<\n>}>
>>

rewritePositiveClosureBlock(
 alt,rewriteBlockLevel,
 referencedElementsDeep, // all nested refs
 referencedElements, // elements in immediately block; no nested blocks
 description) ::=
<<
if (!(<referencedElements:{el | stream_<el>.HasNext}; separator="||">))
{
 throw new RewriteEarlyExitException();
}
while (<referencedElements:{el | stream_<el>.HasNext}; separator="||">)
{
 <alt>
}
<referencedElements:{el | stream_<el>.Reset();<\n>}>
>>

```

```

rewriteAlt(a) ::= <<
// <a.description>
<if(a.pred)>
if (<a.pred>)
{
<a.alt>
}<\n>
<else>
{
<a.alt>
}<\n>
<endif>
>>

/** For empty rewrites: "r : ... -> ;" */
rewriteEmptyAlt() ::= "root_0 = null;"

rewriteTree(root,children,description,enclosingTreeLevel,treeLevel) ::= <<
// <fileName>:<description>
{
<ASTLabelType> root_<treeLevel> = (<ASTLabelType>)adaptor.Nil();
<root:rewriteElement()>
<children:rewriteElement()>
adaptor.AddChild(root_<enclosingTreeLevel>, root_<treeLevel>);
}<\n>
>>

rewriteElementList(elements) ::= "<elements:rewriteElement()>"

rewriteElement(e) ::= <<
<@pregen()>
<e.el>
>>

/** Gen ID or ID[args] */
rewriteTokenRef(token,elementIndex,hetero,args) ::= <<
adaptor.AddChild(root_<treeLevel>, <createRewriteNodeFromElement(...)>);<\n>
>>

/** Gen $label ... where defined via label=ID */
rewriteTokenLabelRef(label,elementIndex) ::= <<
adaptor.AddChild(root_<treeLevel>, stream_<label>.NextNode());<\n>
>>

/** Gen $label ... where defined via label+=ID */
rewriteTokenListLabelRef(label,elementIndex) ::= <<
adaptor.AddChild(root_<treeLevel>, stream_<label>.NextNode());<\n>

```

```

>>

/** Gen ^($label ...) */
rewriteTokenLabelRefRoot(label,elementIndex) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(stream_<label>.NextNode(), root_<treeLevel>);<\n>
>>

/** Gen ^($label ...) where label+=... */
rewriteTokenListLabelRefRoot ::= rewriteTokenLabelRefRoot

/** Gen ^(ID ...) or ^(ID[args] ...) */
rewriteTokenRefRoot(token,elementIndex,hetero,args) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(<createRewriteNodeFromElement(...)>,
root_<treeLevel>);<\n>
>>

rewriteImaginaryTokenRef(args,token,hetero,elementIndex) ::= <<
adaptor.AddChild(root_<treeLevel>, <createImaginaryNode(tokenType=token, ...)>);<\n>
>>

rewriteImaginaryTokenRefRoot(args,token,hetero,elementIndex) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(<createImaginaryNode(tokenType=token, ...)>,
root_<treeLevel>);<\n>
>>

/** plain -> {foo} action */
rewriteAction(action) ::= <<
root_0 = <action>;<\n>
>>

/** What is the name of the previous value of this rule's root tree? This
 * let's us refer to $rule to mean previous value. I am reusing the
 * variable 'tree' sitting in retval struct to hold the value of root_0 right
 * before I set it during rewrites. The assign will be to retval.tree.
 */
prevRuleRootRef() ::= "retval"

rewriteRuleRef(rule) ::= <<
adaptor.AddChild(root_<treeLevel>, stream_<rule>.NextTree());<\n>
>>

rewriteRuleRefRoot(rule) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(stream_<rule>.NextNode(), root_<treeLevel>);<\n>
>>

rewriteNodeAction(action) ::= <<
adaptor.AddChild(root_<treeLevel>, <action>);<\n>
>>

```

```

rewriteNodeActionRoot(action) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(<action>, root_<treeLevel>);<\n>
>>

/** Gen $ruleLabel ... where defined via ruleLabel=rule */
rewriteRuleLabelRef(label) ::= <<
adaptor.AddChild(root_<treeLevel>, stream_<label>.NextTree());<\n>
>>

/** Gen $ruleLabel ... where defined via ruleLabel+=rule */
rewriteRuleListLabelRef(label) ::= <<
adaptor.AddChild(root_<treeLevel>, stream_<label>.NextTree());<\n>
>>

/** Gen ^($ruleLabel ...) where ruleLabel=rule */
rewriteRuleLabelRefRoot(label) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(stream_<label>.NextNode(), root_<treeLevel>);<\n>
>>

/** Gen ^($ruleLabel ...) where ruleLabel+=rule */
rewriteRuleListLabelRefRoot(label) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(stream_<label>.NextNode(), root_<treeLevel>);<\n>
>>

rewriteWildcardLabelRef(label) ::= <<
adaptor.AddChild(root_<treeLevel>, stream_<label>.NextTree());<\n>
>>

createImaginaryNode(tokenType,hetero,args) ::= <<
<if(hetero)>
<! new MethodNode(IDLabel, args) !>
new <hetero>(<tokenType><if(args)>, <args; separator=","><endif>)
<else>
(<ASTLabelType>)adaptor.Create(<tokenType>, <args; separator=","><if(!args)>"<tokenType>"<endif>)
<endif>
>>

createRewriteNodeFromElement(token,hetero,args) ::= <<
<if(hetero)>
new <hetero>(stream_<token>.NextToken(<if(args)>, <args; separator=","><endif>)
<else>
<if(args)> <! must create new node from old !>
adaptor.Create(<token>, <args; separator=",">)
<else>
stream_<token>.NextNode()
<endif>
<endif>

```

>>

Found in path(s):

\* /opt/cola/permits/1204005060\_1631853129.56/0/antlr-3-1-3-sources-4-jar/org/antlr/codegen/templates/CSharp3/AST.stg

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\*/

/\*\* Templates for building ASTs during normal parsing.

\*

\* Deal with many combinations. Dimensions are:

\* Auto build or rewrite

\* no label, label, list label (label/no-label handled together)

\* child, root

\* token, set, rule, wildcard

\*

\* The situation is not too bad as rewrite (->) usage makes ^ and !

\* invalid. There is no huge explosion of combinations.

\*/

```

group ASTParser;

@rule.setErrorReturnValue() ::= <<
// Conversion of the second argument necessary, but harmless
retval.Tree = (<ASTLabelType>)adaptor.ErrorNode(input, (IToken) retval.Start, input.LT(-1), re);
<! System.Console.WriteLine("<ruleName> returns " + ((CommonTree)retval.Tree).ToStringTree()); !>
>>

// TOKEN AST STUFF

/** ID and output=AST */
tokenRef(token,label,elementIndex,hetero) ::= <<
<super.tokenRef(...)>
<if(backtracking)>
if (state.backtracking == 0)
{
<endif>
<label>_tree = <createNodeFromToken(...)>;
adaptor.AddChild(root_0, <label>_tree);
<if(backtracking)>
}
<endif>
>>

/** ID! and output=AST (same as plain tokenRef) */
tokenRefBang(token,label,elementIndex) ::= "<super.tokenRef(...)>"

/** ID^ and output=AST */
tokenRefRuleRoot(token,label,elementIndex,hetero) ::= <<
<super.tokenRef(...)>
<if(backtracking)>
if (state.backtracking == 0)
{
<endif>
<label>_tree = <createNodeFromToken(...)>;
root_0 = (<ASTLabelType>)adaptor.BecomeRoot(<label>_tree, root_0);
<if(backtracking)>
}
<endif>
>>

/** ids+=ID! and output=AST */
tokenRefBangAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRefBang(...)>
<listLabel(elem=label,...)>
>>

/** label+=TOKEN when output=AST but not rewrite alt */

```

```

tokenRefAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRef(...)>
<listLabel(elem=label,...)>
>>

/** Match label+=TOKEN^ when output=AST but not rewrite alt */
tokenRefRuleRootAndListLabel(token,label,hetero,elementIndex) ::= <<
<tokenRefRuleRoot(...)>
<listLabel(elem=label,...)>
>>

// SET AST

// the match set stuff is interesting in that it uses an argument list
// to pass code to the default matchSet; another possible way to alter
// inherited code. I don't use the region stuff because I need to pass
// different chunks depending on the operator. I don't like making
// the template name have the operator as the number of templates gets
// large but this is the most flexible--this is as opposed to having
// the code generator call matchSet then add root code or ruleroot code
// plus list label plus ... The combinations might require complicated
// rather than just added on code. Investigate that refactoring when
// I have more time.

matchSet(s,label,hetero,elementIndex,postmatchCode) ::= <<
<super.matchSet(..., postmatchCode={<if(backtracking)>if (state.backtracking == 0)
<endif>adaptor.AddChild(root_0, <createNodeFromToken(...)>);})>
>>

matchRuleBlockSet(s,label,hetero,elementIndex,postmatchCode,treeLevel="0") ::= <<
<matchSet(...)>
>>

matchSetBang(s,label,elementIndex,postmatchCode) ::= "<super.matchSet(...)>"

// note there is no matchSetTrack because -> rewrites force sets to be
// plain old blocks of alts: (A|B|...|C)

matchSetRuleRoot(s,label,hetero,elementIndex,debug) ::= <<
<if(label)>
<label>=(<labelType>)input.LT(1);<\n>
<endif>
<super.matchSet(..., postmatchCode={<if(backtracking)>if (state.backtracking == 0) <endif>root_0 =
(<ASTLabelType>)adaptor.BecomeRoot(<createNodeFromToken(...)>, root_0);})>
>>

// RULE REF AST

```



```

/** rule when output=AST */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(...)>
<if(backtracking)>if (state.backtracking == 0) <endif>adaptor.AddChild(root_0, <label>.Tree);
>>

/** rule! is same as normal rule ref */
ruleRefBang(rule,label,elementIndex,args,scope) ::= "<super.ruleRef(...)>"

/** rule^ */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(...)>
<if(backtracking)>if (state.backtracking == 0) <endif>root_0 =
(<ASTLabelType>)adaptor.BecomeRoot(<label>.Tree, root_0);
>>

/** x+=rule when output=AST */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>
<listLabel(elem=label+".Tree",...)>
>>

/** x+=rule! when output=AST is a rule ref with list addition */
ruleRefBangAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefBang(...)>
<listLabel(elem=label+".Tree",...)>
>>

/** x+=rule^ */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...)>
<listLabel(elem=label+".Tree",...)>
>>

// WILDCARD AST

wildcard(label,elementIndex) ::= <<
<super.wildcard(...)>
<if(backtracking)>
if (state.backtracking == 0)
{
<endif>
<label>_tree = (<ASTLabelType>)adaptor.Create(<label>);
adaptor.AddChild(root_0, <label>_tree);
<if(backtracking)>
}
<endif>
>>

```

```
wildcardBang(label,elementIndex) ::= "<super.wildcard(...)>"
```

```
wildcardRuleRoot(label,elementIndex) ::= <<
<super.wildcard(...)>
<if(backtracking)>
if (state.backtracking == 0)
{
<endif>
<label>_tree = (<ASTLabelType>)adaptor.Create(<label>);
root_0 = (<ASTLabelType>)adaptor.BecomeRoot(<label>_tree, root_0);
<if(backtracking)>
}
<endif>
>>
```

```
createNodeFromToken(label,hetero) ::= <<
<if(hetero)>
new <hetero>(<label>) <! new MethodNode(IDLabel) !>
<else>
(<ASTLabelType>)adaptor.Create(<label>)
<endif>
>>
```

```
ruleCleanUp() ::= <<
<super.ruleCleanUp()>
<if(backtracking)>
if (<actions.(actionScope).synpredgate>)
{
<endif>
retval.Tree = (<ASTLabelType>)adaptor.RulePostProcessing(root_0);
<if(!TREE_PARSER)>
adaptor.SetTokenBoundaries(retval.Tree, (IToken) retval.Start, (IToken) retval.Stop);
<endif>
<if(backtracking)>
}
<endif>
>>
```

Found in path(s):

\* /opt/cola/permits/1204005060\_1631853129.56/0/antlr-3-1-3-sources-4-jar/org/antlr/codegen/templates/CSharp/ASTParser.stg

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\*/

/\*\* ANTLR's code generator.

\*

- \* Generate recognizers derived from grammars. Language independence
- \* achieved through the use of StringTemplateGroup objects. All output
- \* strings are completely encapsulated in the group files such as Java.stg.
- \* Some computations are done that are unused by a particular language.
- \* This generator just computes and sets the values into the templates;
- \* the templates are free to use or not use the information.
- \*
- \* To make a new code generation target, define X.stg for language X
- \* by copying from existing Y.stg most closely related to your language;
- \* e.g., to do CSharp.stg copy Java.stg. The template group file has a
- \* bunch of templates that are needed by the code generator. You can add
- \* a new target w/o even recompiling ANTLR itself. The language=X option
- \* in a grammar file dictates which templates get loaded/used.
- \*
- \* Some language like C need both parser files and header files. Java needs
- \* to have a separate file for the cyclic DFA as ANTLR generates bytecodes
- \* directly (which cannot be in the generated parser Java file). To facilitate
- \* this,
- \*
- \* cyclic can be in same file, but header, output must be separate. recognizer
- \* is in outputfile.

\*/

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\* /opt/cola/permits/1204005060\_1631853129.56/0/antlr-3-1-3-sources-4-jar/org/antlr/codegen/CodeGenerator.java  
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\* /opt/cola/permits/1204005060\_1631853129.56/0/antlr-3-1-3-sources-4-jar/org/antlr/analysis/DFA.java  
\* /opt/cola/permits/1204005060\_1631853129.56/0/antlr-3-1-3-sources-4-jar/org/antlr/analysis/LookaheadSet.java  
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\* /opt/cola/permits/1204005060\_1631853129.56/0/antlr-3-1-3-sources-4-jar/org/antlr/codegen/CPPTarget.java  
\* /opt/cola/permits/1204005060\_1631853129.56/0/antlr-3-1-3-sources-4-jar/org/antlr/analysis/Transition.java  
\* /opt/cola/permits/1204005060\_1631853129.56/0/antlr-3-1-3-sources-4-jar/org/antlr/misc/Utils.java  
\* /opt/cola/permits/1204005060\_1631853129.56/0/antlr-3-1-3-sources-4-jar/org/antlr/codegen/Target.java  
\* /opt/cola/permits/1204005060\_1631853129.56/0/antlr-3-1-3-sources-4-jar/org/antlr/misc/BitSet.java  
\* /opt/cola/permits/1204005060\_1631853129.56/0/antlr-3-1-3-sources-4-jar/org/antlr/analysis/NFAConfiguration.java

\* /opt/cola/permits/1204005060\_1631853129.56/0/antlr-3-1-3-sources-4-jar/org/antlr/analysis/NFAState.java  
\* /opt/cola/permits/1204005060\_1631853129.56/0/antlr-3-1-3-sources-4-jar/org/antlr/misc/Interval.java  
\* /opt/cola/permits/1204005060\_1631853129.56/0/antlr-3-1-3-sources-4-jar/org/antlr/analysis/DecisionProbe.java  
\* /opt/cola/permits/1204005060\_1631853129.56/0/antlr-3-1-3-sources-4-jar/org/antlr/analysis/Label.java  
\* /opt/cola/permits/1204005060\_1631853129.56/0/antlr-3-1-3-sources-4-jar/org/antlr/analysis/NFAToDFACConverter.java  
\* /opt/cola/permits/1204005060\_1631853129.56/0/antlr-3-1-3-sources-4-jar/org/antlr/misc/IntSet.java  
\* /opt/cola/permits/1204005060\_1631853129.56/0/antlr-3-1-3-sources-4-jar/org/antlr/analysis/SemanticContext.java  
\* /opt/cola/permits/1204005060\_1631853129.56/0/antlr-3-1-3-sources-4-jar/org/antlr/analysis/DFAOptimizer.java  
\* /opt/cola/permits/1204005060\_1631853129.56/0/antlr-3-1-3-sources-4-jar/org/antlr/tool/NFAFactory.java  
\* /opt/cola/permits/1204005060\_1631853129.56/0/antlr-3-1-3-sources-4-jar/org/antlr/analysis/NFA.java  
\* /opt/cola/permits/1204005060\_1631853129.56/0/antlr-3-1-3-sources-4-jar/org/antlr/codegen/templates/Java/Dbg.stg  
\* /opt/cola/permits/1204005060\_1631853129.56/0/antlr-3-1-3-sources-4-jar/org/antlr/codegen/templates/Java/ST.stg  
\* /opt/cola/permits/1204005060\_1631853129.56/0/antlr-3-1-3-sources-4-jar/org/antlr/analysis/NFAContext.java  
\* /opt/cola/permits/1204005060\_1631853129.56/0/antlr-3-1-3-sources-4-jar/org/antlr/codegen/JavaTarget.java  
\* /opt/cola/permits/1204005060\_1631853129.56/0/antlr-3-1-3-sources-4-jar/org/antlr/analysis/DFASState.java  
\* /opt/cola/permits/1204005060\_1631853129.56/0/antlr-3-1-3-sources-4-jar/org/antlr/analysis/RuleClosureTransition.java  
\* /opt/cola/permits/1204005060\_1631853129.56/0/antlr-3-1-3-sources-4-jar/org/antlr/codegen/ActionScriptTarget.java  
\* /opt/cola/permits/1204005060\_1631853129.56/0/antlr-3-1-3-sources-4-jar/org/antlr/misc/OrderedHashSet.java  
\* /opt/cola/permits/1204005060\_1631853129.56/0/antlr-3-1-3-sources-4-jar/org/antlr/codegen/ACyclicDFACodeGenerator.java

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\*/

/\*\* Templates for building ASTs during tree parsing.

\*

\* Deal with many combinations. Dimensions are:

\* Auto build or rewrite

\* no label, label, list label (label/no-label handled together)

\* child, root

\* token, set, rule, wildcard

\*

\* Each combination has its own template except that label/no label

\* is combined into tokenRef, ruleRef, ...

\*/

group ASTTreeParser;

/\*\* Add a variable to track last element matched \*/

ruleDeclarations() ::= <<

<super.ruleDeclarations()>

\_First[0] := nil;

\_Last := nil;<\n>

>>

ruleDeclarationVars() ::= <<

<super.ruleDeclarationVars()>

\_First, \_Save\_Last: array [0..63] of I<ASTLabelType>;

\_Last: I<ASTLabelType>;

>>

/\*\* What to emit when there is no rewrite rule. For auto build

\* mode, does nothing.

\*/

noRewrite(rewriteBlockLevel, treeLevel) ::= <<

<if(backtracking)>if (State.Backtracking = 0) then

begin<endif>

<if(rewriteMode)>

RetVal.Tree := \_First[0] as I<ASTLabelType>;

if (Adaptor.GetParent(RetVal.Tree) \<\> nil) and (Adaptor.IsNil(Adaptor.GetParent(RetVal.Tree))) then

RetVal.Tree := Adaptor.GetParent(RetVal.Tree) as I<ASTLabelType>;

<endif>

```

<if(backtracking)>end;<endif>
>>

/** match ^(root children) in tree parser; override here to
 * add tree construction actions.
 */
tree(root, actionsAfterRoot, children, nullableChildList,
 enclosingTreeLevel, treeLevel) ::= <<
_Last := Input.LT(1) as I<ASTLabelType>;
begin
 _Save_Last[<treeLevel>] := _Last;
 _First[<treeLevel>] := nil;
 <if(!rewriteMode)>
 Root[<treeLevel>] := Adaptor.GetNilNode as I<ASTLabelType>;<\n>
 <endif>
 <root:element()>
 <if(rewriteMode)>
 <if(backtracking)>if (State.Backtracking = 0) then <endif>
 <if(root.el.rule)>
 if (_First[<enclosingTreeLevel>] = nil) then _First[<enclosingTreeLevel>] := <root.el.label>.Tree;
 <else>
 if (_First[<enclosingTreeLevel>] = nil) then _First[<enclosingTreeLevel>] := <root.el.label>;
 <endif>
 <endif>
 <actionsAfterRoot:element()>
 <if(nullableChildList)>
 if (Input.LA(1) = TToken.DOWN) then
 begin
 Match(Input, TToken.DOWN, nil); <checkRuleBacktrackFailure()>
 <children:element()>
 Match(Input, TToken.UP, nil); <checkRuleBacktrackFailure()>
 end;
 <else>
 Match(Input, TToken.DOWN, nil); <checkRuleBacktrackFailure()>
 <children:element()>
 Match(Input, TToken.UP, nil); <checkRuleBacktrackFailure()>
 <endif>
 <if(!rewriteMode)>
 Adaptor.AddChild(Root[<enclosingTreeLevel>], Root[<treeLevel>]);
 <endif>
 _Last := _Save_Last[<treeLevel>];
end;<\n>
>>

// TOKEN AST STUFF

/** ID! and output=AST (same as plain tokenRef) 'cept add
 * setting of _last

```

```

*/
tokenRefBang(token,label,elementIndex) ::= <<
_Last := Input.LT(1) as I<ASTLabelType>;
<super.tokenRef(...)>
>>

/** ID auto construct */
tokenRef(token,label,elementIndex,hetero) ::= <<
_Last := Input.LT(1) as I<ASTLabelType>;
<super.tokenRef(...)>
<if(!rewriteMode)>
<if(backtracking)>
if (State.Backtracking = 0) then
begin<\n>
<endif>
<if(hetero)>
<label>_tree := T<hetero>.Create(<label>);
<else>
<label>_tree := Adaptor.DupNode(<label>) as I<ASTLabelType>;
<endif><\n>
Adaptor.AddChild(Root[<treeLevel>], <label>_tree);
<if(backtracking)>
end;
<endif>
<else> <! rewrite mode !>
<if(backtracking)>if (State.Backtracking = 0) then <endif>
if (_First[<treeLevel>] = nil) then _First[<treeLevel>] := <label>;
<endif>
>>

/** label+=TOKEN auto construct */
tokenRefAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRef(...)>
<listLabel(elem=label,...)>
>>

/** ^(ID ...) auto construct */
tokenRefRuleRoot(token,label,elementIndex,hetero) ::= <<
_Last := Input.LT(1) as I<ASTLabelType>;
<super.tokenRef(...)>
<if(!rewriteMode)>
<if(backtracking)>
if (State.Backtracking = 0) then
begin
<endif>
<if(hetero)>
<label>_tree := T<hetero>.Create(<label>);
<else>

```



```

<label>_tree := Adaptor.DupNode(<label>) as I<ASTLabelType>;
<endif><\n>
Root[<treeLevel>] := Adaptor.BecomeRoot(<label>_tree, Root[<treeLevel>]) as I<ASTLabelType>;
<if(backtracking)>
end;
<endif>
<endif>
>>

/** Match ^(label+=TOKEN ...) auto construct */
tokenRefRuleRootAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRefRuleRoot(...)>
<listLabel(elem=label,...)>
>>

// SET AST

matchSet(s,label,hetero,elementIndex,postmatchCode) ::= <<
_Llast := Input.LT(1) as I<ASTLabelType>;
<super.matchSet(..., postmatchCode={
<if(!rewriteMode)>
<if(backtracking)>if (State.Backtracking = 0) then begin <endif>
<if(hetero)>
<label>_tree := T<hetero>.Create(<label>);
<else>
<label>_tree := Adaptor.DupNode(<label>) as I<ASTLabelType>;
<endif><\n>
Adaptor.AddChild(Root[<treeLevel>], <label>_tree);
<if(backtracking)>end;<endif>
<endif>
}
)>
>>

matchRuleBlockSet(s,label,hetero,elementIndex,postmatchCode,treeLevel="0") ::= <<
<matchSet(...)>
<noRewrite()> <! set return tree !>
>>

matchSetBang(s,label,elementIndex,postmatchCode) ::= <<
_Llast := Input.LT(1) as I<ASTLabelType>;
<super.matchSet(...)>
>>

matchSetRuleRoot(s,label,hetero,elementIndex,debug) ::= <<
<super.matchSet(..., postmatchCode={
<if(!rewriteMode)>
<if(backtracking)>if (State.Backtracking = 0) then begin <endif>

```

```

<if(hetero)>
<label>_tree := T<hetero>.Create(<label>);
<else>
<label>_tree := Adaptor.DupNode(<label>) as I<ASTLabelType>;
<endif><\n>
Root[<treeLevel>] := Adaptor.BecomeRoot(<label>_tree, Root[<treeLevel>]) as I<ASTLabelType>;
<if(backtracking)>end;<endif>
<endif>
}
)>
>>

```

```
// RULE REF AST
```

```

/** rule auto construct */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
_Last := Input.LT(1) as I<ASTLabelType>;
<super.ruleRef(...)>
<if(backtracking)>if (State.Backtracking = 0) then <endif>
<if(!rewriteMode)>
Adaptor.AddChild(Root[<treeLevel>], <label>.Tree);
<else> <! rewrite mode !>
if (_First[<treeLevel>] = nil) then _First[<treeLevel>] := <label>.Tree;
<endif>
>>

```

```

/** x+=rule auto construct */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>
<listLabel(elem=label+".Tree",...)>
>>

```

```

/** ^(rule ...) auto construct */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
_Last := Input.LT(1) as I<ASTLabelType>;
<super.ruleRef(...)>
<if(!rewriteMode)>
<if(backtracking)>if (State.Backtracking = 0) then <endif>Root[<treeLevel>] :=
Adaptor.BecomeRoot(<label>.Tree, Root[<treeLevel>]) as I<ASTLabelType>;
<endif>
>>

```

```

/** ^(x+=rule ...) auto construct */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...)>
<listLabel(elem=label+".Tree",...)>
>>

```

```

/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
 _Last := Input.LT(1) as I<ASTLabelType>;
 <super.ruleRefTrack(...)>
>>

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
 _Last := Input.LT(1) as I<ASTLabelType>;
 <super.ruleRefTrackAndListLabel(...)>
>>

/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
 _Last := Input.LT(1) as I<ASTLabelType>;
 <super.ruleRefRootTrack(...)>
>>

/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
 _Last := Input.LT(1) as I<ASTLabelType>;
 <super.ruleRefRuleRootTrackAndListLabel(...)>
>>

/** Streams for token refs are tree nodes now; override to
 * change nextToken to nextNode.
 */
createRewriteNodeFromElement(token,hetero,scope) ::= <<
 <if(hetero)>
 T<hetero>.Create((Locals['Stream_<token>'] as IRewriteRuleElementStream).NextNode)
 <else>
 (Locals['Stream_<token>'] as IRewriteRuleElementStream).NextNode
 <endif>
>>

ruleCleanUp() ::= <<
 <super.ruleCleanUp()>
 <if(!rewriteMode)>
 <if(backtracking)>
 if (State.Backtracking = 0) then
 begin<\n>
 <endif>
 RetVal.Tree := Adaptor.RulePostProcessing(Root[0]) as I<ASTLabelType>;
 <if(backtracking)>
 end;
 <endif>
 <endif>
>>

```

Found in path(s):

\* /opt/cola/permits/1204005060\_1631853129.56/0/antlr-3-1-3-sources-4-jar/org/antlr/codegen/templates/Delphi/ASTTreeParser.stg

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\*/

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\* /opt/cola/permits/1204005060\_1631853129.56/0/antlr-3-1-3-sources-4-jar/org/antlr/codegen/Ctarget.java

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\*/

/\*\* Templates for building ASTs during tree parsing.

\*

\* Deal with many combinations. Dimensions are:

\* Auto build or rewrite

\* no label, label, list label (label/no-label handled together)

\* child, root

\* token, set, rule, wildcard

\*

\* Each combination has its own template except that label/no label

\* is combined into tokenRef, ruleRef, ...

\*/

group ASTTreeParser;

/\*\* Add a variable to track last element matched \*/

ruleDeclarations() ::= <<

<super.ruleDeclarations()>

<ASTLabelType> \_first\_0 = null;

<ASTLabelType> \_last = null;<\n>

>>

/\*\* What to emit when there is no rewrite rule. For auto build

\* mode, does nothing.

\*/

noRewrite(rewriteBlockLevel, treeLevel) ::= <<

<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>

<if(rewriteMode)>

retval.Tree = (<ASTLabelType>)\_first\_0;

if ( adaptor.GetParent(retval.Tree)!=null && adaptor.IsNil( adaptor.GetParent(retval.Tree) ) )

```

 retval.Tree = (<ASTLabelType>)adaptor.GetParent(retval.Tree);
<endif>
<if(backtracking)>}<endif>
>>

/** match ^(root children) in tree parser; override here to
 * add tree construction actions.
 */
tree(root, actionsAfterRoot, children, nullableChildList,
 enclosingTreeLevel, treeLevel) ::= <<
 _last = (<ASTLabelType>)input.LT(1);
 {
 <ASTLabelType> _save_last_<treeLevel> = _last;
 <ASTLabelType> _first_<treeLevel> = null;
 <if(!rewriteMode)>
 <ASTLabelType> root_<treeLevel> = (<ASTLabelType>)adaptor.GetNilNode();
 <endif>
 <root:element()>
 <if(rewriteMode)>
 <if(backtracking)>if (<actions.(actionScope).synpredgate>)<endif>
 <if(root.el.rule)>
 if (_first_<enclosingTreeLevel>==null) _first_<enclosingTreeLevel> = (<ASTLabelType>) <root.el.label>.Tree;
 <else>
 if (_first_<enclosingTreeLevel>==null) _first_<enclosingTreeLevel> = <root.el.label>;
 <endif>
 <endif>
 <actionsAfterRoot:element()>
 <if(nullableChildList)>
 if (input.LA(1) == Token.DOWN)
 {
 Match(input, Token.DOWN, null); <checkRuleBacktrackFailure()>
 <children:element()>
 Match(input, Token.UP, null); <checkRuleBacktrackFailure()>
 }
 <else>
 Match(input, Token.DOWN, null); <checkRuleBacktrackFailure()>
 <children:element()>
 Match(input, Token.UP, null); <checkRuleBacktrackFailure()>
 <endif>
 <if(!rewriteMode)>
 adaptor.AddChild(root_<enclosingTreeLevel>, root_<treeLevel>);
 <endif>
 _last = _save_last_<treeLevel>;
 }<\n>
>>

// TOKEN AST STUFF

```

```

/** ID! and output=AST (same as plain tokenRef) 'cept add
 * setting of _last
 */
tokenRefBang(token,label,elementIndex) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.tokenRef(...)>
>>

/** ID auto construct */
tokenRef(token,label,elementIndex,hetero) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.tokenRef(...)>
<if(!rewriteMode)>
<if(backtracking)>
if (state.backtracking == 0)
{
<endif>
<if(hetero)>
<label>_tree = new <hetero>(<label>);
<else>
<label>_tree = (<ASTLabelType>)adaptor.DupNode(<label>);
<endif><\n>
adaptor.AddChild(root_<treeLevel>, <label>_tree);
<if(backtracking)>
}
<endif>
<else> <! rewrite mode !>
<if(backtracking)>if (<actions.(actionScope).synpredgate>)<endif>
if (_first_<treeLevel>==null) _first_<treeLevel> = <label>;
<endif>
>>

/** label+=TOKEN auto construct */
tokenRefAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRef(...)>
<listLabel(elem=label,...)>
>>

/** ^(ID ...) auto construct */
tokenRefRuleRoot(token,label,elementIndex,hetero) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.tokenRef(...)>
<if(!rewriteMode)>
<if(backtracking)>
if (state.backtracking == 0)
{
<endif>
<if(hetero)>

```

```

<label>_tree = new <hetero>(<label>);
<else>
<label>_tree = (<ASTLabelType>)adaptor.DupNode(<label>);
<endif><\n>
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(<label>_tree, root_<treeLevel>);
<if(backtracking)>
}
<endif>
<endif>
>>

```

```

/** Match ^(label+=TOKEN ...) auto construct */
tokenRefRuleRootAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRefRuleRoot(...)>
<listLabel(elem=label,...)>
>>

```

```

/** Match . wildcard and auto dup the node/subtree */
wildcard(token,label,elementIndex,hetero) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.wildcard(...)>
<if(!rewriteMode)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) {<endif>
<label>_tree = (<ASTLabelType>)adaptor.DupTree(<label>);
adaptor.AddChild(root_<treeLevel>, <label>_tree);
<if(backtracking)>}<endif>
<else> <! rewrite mode !>
<if(backtracking)>if (<actions.(actionScope).synpredgate>)<endif>
if (_first_<treeLevel>==null) _first_<treeLevel> = <label>;
<endif>
>>

```

// SET AST

```

matchSet(s,label,hetero,elementIndex,postmatchCode) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.matchSet(..., postmatchCode={
<if(!rewriteMode)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) {<endif>
<if(hetero)>
<label>_tree = new <hetero>(<label>);
<else>
<label>_tree = (<ASTLabelType>)adaptor.DupNode(<label>);
<endif><\n>
adaptor.AddChild(root_<treeLevel>, <label>_tree);
<if(backtracking)>}<endif>
<endif>

```



```

}
)>
>>

matchRuleBlockSet(s,label,hetero,elementIndex,postmatchCode,treeLevel="0") ::= <<
<matchSet(...)>
<noRewrite()> <! set return tree !>
>>

matchSetBang(s,label,elementIndex,postmatchCode) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.matchSet(...)>
>>

matchSetRuleRoot(s,label,hetero,elementIndex,debug) ::= <<
<super.matchSet(..., postmatchCode={
<if(!rewriteMode)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) {<endif>
<if(hetero)>
<label>_tree = new <hetero>(<label>);
<else>
<label>_tree = (<ASTLabelType>)adaptor.DupNode(<label>);
<endif><\n>
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(<label>_tree, root_<treeLevel>);
<if(backtracking)>}<endif>
<endif>
}
)>
>>

// RULE REF AST

/** rule auto construct */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.ruleRef(...)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) <endif>
<if(!rewriteMode)>
adaptor.AddChild(root_<treeLevel>, <label>.Tree);
<else> <! rewrite mode !>
if (_first_<treeLevel>==null) _first_<treeLevel> = (<ASTLabelType>) <label>.Tree;
<endif>
>>

/** x+=rule auto construct */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>
<listLabel(elem=label+".Tree",...)>

```

```

>>

/** ^(rule ...) auto construct */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
 _last = (<ASTLabelType>)input.LT(1);
 <super.ruleRef(...)>
 <if(!rewriteMode)>
 <if(backtracking)>if (state.backtracking == 0) <endif>root_<treeLevel> =
 (<ASTLabelType>)adaptor.BecomeRoot(<label>.Tree, root_<treeLevel>);
 <endif>
>>

/** ^(x+=rule ...) auto construct */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
 <ruleRefRuleRoot(...)>
 <listLabel(elem=label+".Tree",...)>
>>

/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
 _last = (<ASTLabelType>)input.LT(1);
 <super.ruleRefTrack(...)>
>>

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
 _last = (<ASTLabelType>)input.LT(1);
 <super.ruleRefTrackAndListLabel(...)>
>>

/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
 _last = (<ASTLabelType>)input.LT(1);
 <super.ruleRefRootTrack(...)>
>>

/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
 _last = (<ASTLabelType>)input.LT(1);
 <super.ruleRefRuleRootTrackAndListLabel(...)>
>>

/** Streams for token refs are tree nodes now; override to
 * change nextToken to nextNode.
 */
createRewriteNodeFromElement(token,hetero,scope) ::= <<
 <if(hetero)>
 new <hetero>(stream_<token>.NextNode())

```

```

<else>
stream_<token>.NextNode()
<endif>
>>

ruleCleanUp() ::= <<
<super.ruleCleanUp()>
<if(!rewriteMode)>
<if(backtracking)>
if (<actions.(actionScope).synpredgate>)
{
<endif>
retval.Tree = (<ASTLabelType>)adaptor.RulePostProcessing(root_0);
<if(backtracking)>
}
<endif>
<endif>
>>

```

Found in path(s):

```

* /opt/cola/permits/1204005060_1631853129.56/0/antlr-3-1-3-sources-4-
jar/org/antlr/codegen/templates/CSharp/ASTTreeParser.stg
* /opt/cola/permits/1204005060_1631853129.56/0/antlr-3-1-3-sources-4-
jar/org/antlr/codegen/templates/CSharp2/ASTTreeParser.stg

```

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\* /opt/cola/permits/1204005060\_1631853129.56/0/antlr-3-1-3-sources-4-jar/org/antlr/Tool.java  
\* /opt/cola/permits/1204005060\_1631853129.56/0/antlr-3-1-3-sources-4-jar/org/antlr/tool/GrammarSpelunker.java  
\* /opt/cola/permits/1204005060\_1631853129.56/0/antlr-3-1-3-sources-4-jar/org/antlr/misc/Graph.java  
\* /opt/cola/permits/1204005060\_1631853129.56/0/antlr-3-1-3-sources-4-jar/org/antlr/tool/BuildDependencyGenerator.java

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\*/

Found in path(s):

\* /opt/cola/permits/1204005060\_1631853129.56/0/antlr-3-1-3-sources-4-jar/org/antlr/tool/CompositeGrammarTree.java  
\* /opt/cola/permits/1204005060\_1631853129.56/0/antlr-3-1-3-sources-4-jar/org/antlr/tool/CompositeGrammar.java

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\*/

/\*\* Templates for building ASTs during normal parsing.

\*

\* Deal with many combinations. Dimensions are:

\* Auto build or rewrite

\* no label, label, list label (label/no-label handled together)

\* child, root

\* token, set, rule, wildcard

\*

\* The situation is not too bad as rewrite (->) usage makes ^ and !

\* invalid. There is no huge explosion of combinations.

\*/

group ASTParser;

finishedBacktracking(block) ::= <<

<if(backtracking)>

if <actions.(actionScope).synpredgate>:

<block>

<else>

<block>

<endif>

```

>>

@ruleBody.setErrorReturnValue() ::= <<
retval.tree = self._adaptor.errorNode(self.input, retval.start, self.input.LT(-1), re)
>>

// TOKEN AST STUFF

/** ID and output=AST */
tokenRef(token,label,elementIndex,hetero) ::= <<
<super.tokenRef(...)>
<finishedBacktracking({
<label>_tree = <createNodeFromToken(...)>
self._adaptor.addChild(root_0, <label>_tree)
})>
>>

/** ID! and output=AST (same as plain tokenRef) */
tokenRefBang(token,label,elementIndex) ::= "<super.tokenRef(...)>"

/** ID^ and output=AST */
tokenRefRuleRoot(token,label,elementIndex,hetero) ::= <<
<super.tokenRef(...)>
<finishedBacktracking({
<label>_tree = <createNodeFromToken(...)>
root_0 = self._adaptor.becomeRoot(<label>_tree, root_0)
})>
>>

/** ids+=ID! and output=AST */
tokenRefBangAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRefBang(...)>
<listLabel(elem=label,...)>
>>

/** label+=TOKEN when output=AST but not rewrite alt */
tokenRefAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRef(...)>
<listLabel(elem=label,...)>
>>

/** Match label+=TOKEN^ when output=AST but not rewrite alt */
tokenRefRuleRootAndListLabel(token,label,hetero,elementIndex) ::= <<
<tokenRefRuleRoot(...)>
<listLabel(elem=label,...)>
>>

// SET AST

```

```

// the match set stuff is interesting in that it uses an argument list
// to pass code to the default matchSet; another possible way to alter
// inherited code. I don't use the region stuff because I need to pass
// different chunks depending on the operator. I don't like making
// the template name have the operator as the number of templates gets
// large but this is the most flexible--this is as opposed to having
// the code generator call matchSet then add root code or ruleroot code
// plus list label plus ... The combinations might require complicated
// rather than just added on code. Investigate that refactoring when
// I have more time.

```

```

matchSet(s,label,hetero,elementIndex,postmatchCode) ::= <<
<super.matchSet(..., postmatchCode={<finishedBacktracking({self._adaptor.addChild(root_0,
<createNodeFromToken(...)>})>})>>>
>>

```

```

matchRuleBlockSet(s,label,hetero,elementIndex,postmatchCode,treeLevel="0") ::= <<
<matchSet(...)>
>>

```

```

matchSetBang(s,label,elementIndex,postmatchCode) ::= "<super.matchSet(...)>"

```

```

// note there is no matchSetTrack because -> rewrites force sets to be
// plain old blocks of alts: (A|B|...|C)

```

```

matchSetRuleRoot(s,label,hetero,elementIndex,debug) ::= <<
<if(label)>
<label> = self.input.LT(1)<\n>
<endif>
<super.matchSet(..., postmatchCode={<finishedBacktracking({root_0 =
self._adaptor.becomeRoot(<createNodeFromToken(...)>, root_0)})>})>>
>>

```

```

// RULE REF AST

```

```

/** rule when output=AST */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(...)>
<finishedBacktracking({self._adaptor.addChild(root_0, <label>.tree)})>
>>

```

```

/** rule! is same as normal rule ref */
ruleRefBang(rule,label,elementIndex,args,scope) ::= "<super.ruleRef(...)>"

```

```

/** rule^ */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(...)>

```

```

<finishedBacktracking({root_0 = self._adaptor.becomeRoot(<label>.tree, root_0)})>
>>

/** x+=rule when output=AST */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>
<listLabel(elem=label+".tree",...)>
>>

/** x+=rule! when output=AST is a rule ref with list addition */
ruleRefBangAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefBang(...)>
<listLabel(elem=label+".tree",...)>
>>

/** x+=rule^ */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...)>
<listLabel(elem=label+".tree",...)>
>>

// WILDCARD AST

wildcard(label,elementIndex) ::= <<
<super.wildcard(...)>
<finishedBacktracking({
<label>_tree = self._adaptor.createWithPayload(<label>)
self._adaptor.addChild(root_0, <label>_tree)
})>
>>

wildcardBang(label,elementIndex) ::= "<super.wildcard(...)>"

wildcardRuleRoot(label,elementIndex) ::= <<
<super.wildcard(...)>
<finishedBacktracking({
<label>_tree = self._adaptor.createWithPayload(<label>)
root_0 = self._adaptor.becomeRoot(<label>_tree, root_0)
})>
>>

createNodeFromToken(label,hetero) ::= <<
<if(hetero)>
<hetero>(<label>) <! new MethodNode(IDLabel) !>
<else>
self._adaptor.createWithPayload(<label>)
<endif>
>>

```



```
ruleCleanUp() ::= <<
<super.ruleCleanUp()>
<finishedBacktracking({
retval.tree = self._adaptor.rulePostProcessing(root_0)
self._adaptor.setTokenBoundaries(retval.tree, retval.start, retval.stop)
})>
>>
```

Found in path(s):

```
* /opt/cola/permits/1204005060_1631853129.56/0/antlr-3-1-3-sources-4-
jar/org/antlr/codegen/templates/Python/ASTParser.stg
```

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```
/*
```

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```

```
*/
```

```
/** Templates for building ASTs during tree parsing.
```

```
*
```

```
* Deal with many combinations. Dimensions are:
```

```
* Auto build or rewrite
```

```
* no label, label, list label (label/no-label handled together)
```

```

* child, root
* token, set, rule, wildcard
*
* Each combination has its own template except that label/no label
* is combined into tokenRef, ruleRef, ...
*/
group ASTTreeParser;

/** Add a variable to track last element matched */
ruleDeclarations() ::= <<
<super.ruleDeclarations()>
<ASTLabelType> _first_0 = null;
<ASTLabelType> _last = null;<\n>
>>

/** What to emit when there is no rewrite rule. For auto build
* mode, does nothing.
*/
noRewrite(rewriteBlockLevel, treeLevel) ::= <<
<if(backtracking)>if (state.backtracking==0) {<endif>
<if(rewriteMode)>
retval.tree = (<ASTLabelType>)_first_0;
if (adaptor.getParent(retval.tree)!=null && adaptor.isNil(adaptor.getParent(retval.tree)))
 retval.tree = (<ASTLabelType>)adaptor.getParent(retval.tree);
<endif>
<if(backtracking)>}<endif>
>>

/** match ^(root children) in tree parser; override here to
* add tree construction actions.
*/
tree(root, actionsAfterRoot, children, nullableChildList,
 enclosingTreeLevel, treeLevel) ::= <<
_last = (<ASTLabelType>)input.LT(1);
{
<ASTLabelType> _save_last_<treeLevel> = _last;
<ASTLabelType> _first_<treeLevel> = null;
<if(!rewriteMode)>
<ASTLabelType> root_<treeLevel> = (<ASTLabelType>)adaptor.nil();
<endif>
<root:element()>
<if(rewriteMode)>
<if(backtracking)>if (state.backtracking==0)<endif>
<if(root.el.rule)>
if (_first_<enclosingTreeLevel>==null) _first_<enclosingTreeLevel> = <root.el.label>.tree;
<else>
if (_first_<enclosingTreeLevel>==null) _first_<enclosingTreeLevel> = <root.el.label>;
<endif>

```

```

<endif>
<actionsAfterRoot:element()>
<if(nullableChildList)>
if (input.LA(1)==Token.DOWN) {
 match(input, Token.DOWN, null); <checkRuleBacktrackFailure()>
 <children:element()>
 match(input, Token.UP, null); <checkRuleBacktrackFailure()>
}
<else>
match(input, Token.DOWN, null); <checkRuleBacktrackFailure()>
<children:element()>
match(input, Token.UP, null); <checkRuleBacktrackFailure()>
<endif>
<if(!rewriteMode)>
adaptor.addChild(root_<enclosingTreeLevel>, root_<treeLevel>);
<endif>
_last = _save_last_<treeLevel>;
}<\n>
>>

```

```
// TOKEN AST STUFF
```

```

/** ID! and output=AST (same as plain tokenRef) 'cept add
 * setting of _last
 */
tokenRefBang(token,label,elementIndex) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.tokenRef(...)>
>>

```

```

/** ID auto construct */
tokenRef(token,label,elementIndex,hetero) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.tokenRef(...)>
<if(!rewriteMode)>
<if(backtracking)>if (state.backtracking==0) {<endif>
<if(hetero)>
<label>_tree = new <hetero>(<label>);
<else>
<label>_tree = (<ASTLabelType>)adaptor.dupNode(<label>);
<endif><\n>
adaptor.addChild(root_<treeLevel>, <label>_tree);
<if(backtracking)>}<endif>
<else> <! rewrite mode !>
<if(backtracking)>if (state.backtracking==0)<endif>
if (_first_<treeLevel>==null) _first_<treeLevel> = <label>;
<endif>
>>

```

```

/** label+=TOKEN auto construct */
tokenRefAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRef(...)>
<listLabel(elem=label,...)>
>>

/** ^(ID ...) auto construct */
tokenRefRuleRoot(token,label,elementIndex,hetero) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.tokenRef(...)>
<if(!rewriteMode)>
<if(backtracking)>if (state.backtracking==0) {<endif>
<if(hetero)>
<label>_tree = new <hetero>(<label>);
<else>
<label>_tree = (<ASTLabelType>)adaptor.dupNode(<label>);
<endif><\n>
root_<treeLevel> = (<ASTLabelType>)adaptor.becomeRoot(<label>_tree, root_<treeLevel>);
<if(backtracking)>}<endif>
<endif>
>>

/** Match ^(label+=TOKEN ...) auto construct */
tokenRefRuleRootAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRefRuleRoot(...)>
<listLabel(elem=label,...)>
>>

// SET AST

matchSet(s,label,hetero,elementIndex,postmatchCode) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.matchSet(..., postmatchCode={
<if(!rewriteMode)>
<if(backtracking)>if (state.backtracking==0) {<endif>
<if(hetero)>
<label>_tree = new <hetero>(<label>);
<else>
<label>_tree = (<ASTLabelType>)adaptor.dupNode(<label>);
<endif><\n>
adaptor.addChild(root_<treeLevel>, <label>_tree);
<if(backtracking)>}<endif>
<endif>
}
)>
>>

```

```

matchRuleBlockSet(s,label,hetero,elementIndex,postmatchCode,treeLevel="0") ::= <<
<matchSet(...)>
<noRewrite()> <! set return tree !>
>>

matchSetBang(s,label,elementIndex,postmatchCode) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.matchSet(...)>
>>

matchSetRuleRoot(s,label,hetero,elementIndex,debug) ::= <<
<super.matchSet(..., postmatchCode={
<if(!rewriteMode)>
<if(backtracking)>if (state.backtracking==0) {<endif>
<if(hetero)>
<label>_tree = new <hetero>(<label>);
<else>
<label>_tree = (<ASTLabelType>)adaptor.dupNode(<label>);
<endif><\n>
root_<treeLevel> = (<ASTLabelType>)adaptor.becomeRoot(<label>_tree, root_<treeLevel>);
<if(backtracking)>}<endif>
<endif>
}
)>
>>

// RULE REF AST

/** rule auto construct */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.ruleRef(...)>
<if(backtracking)>if (state.backtracking==0) <endif>
<if(!rewriteMode)>
adaptor.addChild(root_<treeLevel>, <label>.getTree());
<else> <! rewrite mode !>
if (_first_<treeLevel>==null) _first_<treeLevel> = <label>.tree;
<endif>
>>

/** x+=rule auto construct */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>
<listLabel(elem=label+".getTree()",...)>
>>

/** ^(rule ...) auto construct */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<

```

```

_last = (<ASTLabelType>)input.LT(1);
<super.ruleRef(...)>
<if(!rewriteMode)>
<if(backtracking)>if (state.backtracking==0) <endif>root_<treeLevel> =
(<ASTLabelType>)adaptor.becomeRoot(<label>.getTree(), root_<treeLevel>);
<endif>
>>

/** ^(x+=rule ...) auto construct */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...)>
<listLabel(elem=label+".getTree()",...)>
>>

/** Streams for token refs are tree nodes now; override to
 * change nextToken to nextNode.
 */
createRewriteNodeFromElement(token,hetero,scope) ::= <<
<if(hetero)>
new <hetero>(stream_<token>.nextNode())
<else>
stream_<token>.nextNode()
<endif>
>>

ruleCleanUp() ::= <<
<super.ruleCleanUp()>
<if(!rewriteMode)>
<if(backtracking)>if (state.backtracking==0) {<\n><endif>
retval.tree = (<ASTLabelType>)adaptor.rulePostProcessing(root_0);
<if(backtracking)>}<endif>
<endif>
>>

```

Found in path(s):

```

* /opt/cola/permits/1204005060_1631853129.56/0/antlr-3-1-3-sources-4-
jar/org/antlr/codegen/templates/Perl5/ASTTreeParser.stg

```

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```

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```

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\*/

/\*\* Templates for building ASTs during tree parsing.

\*

\* Deal with many combinations. Dimensions are:

\* Auto build or rewrite

\* no label, label, list label (label/no-label handled together)

\* child, root

\* token, set, rule, wildcard

\*

\* Each combination has its own template except that label/no label

\* is combined into tokenRef, ruleRef, ...

\*/

group ASTTreeParser;

/\*\* Add a variable to track last element matched \*/

ruleDeclarations() ::= <<

<super.ruleDeclarations()>

<ASTLabelType> \_last;<\n>

<ASTLabelType> \_first\_0;<\n>

>>

/\*\* Add a variable to track last element matched \*/

ruleInitializations() ::= <<

<super.ruleInitializations()>

\_last = NULL;<\n>

\_first\_0 = NULL;<\n>

>>

/\*\* What to emit when there is no rewrite rule. For auto build

\* mode, does nothing.

\*/

noRewrite(rewriteBlockLevel, treeLevel) ::= <<

<if(backtracking)>if ( BACKTRACKING ==0 ) {<endif>

<if(rewriteMode)>

retval.tree = (<ASTLabelType>)\_first\_0;

if ( ADAPTOR->getParent(ADAPTOR, retval.tree) != NULL && ADAPTOR->isNilNode(ADAPTOR, ADAPTOR->getParent(ADAPTOR, retval.tree)) )

{

retval.tree = (<ASTLabelType>)ADAPTOR->getParent(ADAPTOR, retval.tree);

}

<endif>

<if(backtracking)>}<endif>



```

>>

/** match ^(root children) in tree parser; override here to
 * add tree construction actions.
 */
tree(root, actionsAfterRoot, children, nullableChildList,
 enclosingTreeLevel, treeLevel) ::= <<
_last = (<ASTLabelType>)LT(1);
{
<ASTLabelType> _save_last_<treeLevel>;
<ASTLabelType> _first_last_<treeLevel>;
<if(!rewriteMode)>
<ASTLabelType> root_<treeLevel>;
<endif>
_save_last_<treeLevel> = _last;
_first_last_<treeLevel> = NULL;
<if(!rewriteMode)>
root_<treeLevel> = (<ASTLabelType>)(ADAPTOR->nilNode(ADAPTOR));
<endif>
<root:element()>
<if(rewriteMode)>
<if(backtracking)>if (BACKTRACKING ==0) {<endif>
<if(root.el.rule)>
if (_first_<enclosingTreeLevel> == NULL) _first_<enclosingTreeLevel> = <root.el.label>.tree;
<else>
if (_first_<enclosingTreeLevel> == NULL) _first_<enclosingTreeLevel> = <root.el.label>;
<endif>
<if(backtracking)>}<endif>
<endif>
<actionsAfterRoot:element()>
<if(nullableChildList)>
if (LA(1)==ANTLR3_TOKEN_DOWN) {
 MATCHT(ANTLR3_TOKEN_DOWN, NULL);
 <children:element()>
 MATCHT(ANTLR3_TOKEN_UP, NULL);
}
<else>
MATCHT(ANTLR3_TOKEN_DOWN, NULL);
<children:element()>
MATCHT(ANTLR3_TOKEN_UP, NULL);
<endif>
<if(!rewriteMode)>
ADAPTOR->addChild(ADAPTOR, root_<enclosingTreeLevel>, root_<treeLevel>);
<endif>
_last = _save_last_<treeLevel>;
}<\n>
>>

```

```
// TOKEN AST STUFF
```

```
/** ID! and output=AST (same as plain tokenRef) 'cept add
* setting of _last
*/
```

```
tokenRefBang(token,label,elementIndex) ::= <<
_last = (<ASTLabelType>)LT(1);
<super.tokenRef(...)>
>>
```

```
/** ID auto construct */
```

```
tokenRef(token,label,elementIndex,hetero) ::= <<
_last = (<ASTLabelType>)LT(1);
<super.tokenRef(...)>
<if(!rewriteMode)>
<if(backtracking)>if (BACKTRACKING ==0) {<endif>
<if(hetero)>
<label>_tree = <hetero>New(<label>);
<else>
<label>_tree = (<ASTLabelType>)ADAPTOR->dupNode(ADAPTOR, <label>);
<endif>
ADAPTOR->addChild(ADAPTOR, root_<treeLevel>, <label>_tree);
<if(backtracking)>}<endif>
<else>
<if(backtracking)>if (BACKTRACKING ==0) {<endif>
if (_first_<treeLevel> == NULL) _first_<treeLevel> = <label>;
<if(backtracking)>}<endif>
<endif>
>>
```

```
/** label+=TOKEN auto construct */
```

```
tokenRefAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRef(...)>
<listLabel(elem=label,...)>
>>
```

```
/** ^(ID ...) auto construct */
```

```
tokenRefRuleRoot(token,label,elementIndex,hetero) ::= <<
_last = (<ASTLabelType>)LT(1);
<super.tokenRef(...)>
<if(!rewriteMode)>
<if(backtracking)>if (BACKTRACKING == 0) {<endif>
<if(hetero)>
<label>_tree = <hetero>New(<label>);
<else>
<label>_tree = (<ASTLabelType>)ADAPTOR->dupNode(ADAPTOR, <label>);
<endif><\n>
root_<treeLevel> = (<ASTLabelType>)ADAPTOR->becomeRoot(ADAPTOR, <label>_tree, root_<treeLevel>);
```

```

<if(backtracking)></endif>
</endif>
>>

/** Match ^(label+=TOKEN ...) auto construct */
tokenRefRuleRootAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRefRuleRoot(...)>
<listLabel(elem=label,...)>
>>

// SET AST

matchSet(s,label,hetero,elementIndex,postmatchCode) ::= <<
 _last = (<ASTLabelType>)LT(1);
 <super.matchSet(..., postmatchCode={
 <if(!rewriteMode)>
 <if(backtracking)>if (BACKTRACKING == 0) {</endif>
 <if(hetero)>
 <label>_tree = <hetero>New(<label>);
 <else>
 <label>_tree = (<ASTLabelType>)ADAPTOR->dupNode(ADAPTOR, <label>);
 </endif><\n>
 ADAPTOR->addChild(ADAPTOR, root_<treeLevel>, <label>_tree);
 <if(backtracking)></endif>
 </endif>
 }
)>
 >>

matchRuleBlockSet(s,label,hetero,elementIndex,postmatchCode,treeLevel="0") ::= <<
<matchSet(...)>
<noRewrite()> <! set return tree !>
>>

matchSetBang(s,label,elementIndex,postmatchCode) ::= <<
 _last = (<ASTLabelType>)LT(1);
 <super.matchSet(...)>
 >>

matchSetRuleRoot(s,label,hetero,elementIndex,debug) ::= <<
 <super.matchSet(..., postmatchCode={
 <if(!rewriteMode)>
 <if(backtracking)>if (BACKTRACKING == 0) {</endif>
 <if(hetero)>
 <label>_tree = <hetero>New(<label>);
 <else>
 <label>_tree = (<ASTLabelType>)ADAPTOR->dupNode(ADAPTOR, <label>);
 </endif>
 </endif>
 }
)>
 >>

```

```

root_<treeLevel> = (<ASTLabelType>)ADAPTOR->becomeRoot(ADAPTOR, <label>_tree, root_<treeLevel>);
<if(backtracking)>><endif>
<endif>
}
)>
>>

// RULE REF AST

/** rule auto construct */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
 _last = (<ASTLabelType>)LT(1);
 <super.ruleRef(...)>
 <if(backtracking)>if (BACKTRACKING == 0)
 {
 <endif>
 <if(!rewriteMode)>
 ADAPTOR->addChild(ADAPTOR, root_<treeLevel>, <label>.tree);
 <else>
 if (_first_<treeLevel> == NULL) _first_<treeLevel> = <label>.tree;
 <endif>
 <if(backtracking)>><endif>
 >>

/** x+=rule auto construct */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
 <ruleRef(...)>
 <super.listLabelAST(elem=label,...)>
 >>

/** ^(rule ...) auto construct */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
 _last = (<ASTLabelType>)LT(1);
 <super.ruleRef(...)>
 <if(!rewriteMode)>
 <if(backtracking)>if (BACKTRACKING == 0) <endif>root_<treeLevel> = (<ASTLabelType>)(ADAPTOR-
 >becomeRoot(ADAPTOR, <label>.tree, root_<treeLevel>));
 <endif>
 >>

/** ^(x+=rule ...) auto construct */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
 <ruleRefRuleRoot(...)>
 <super.listLabelAST(elem=label,...)>
 >>

/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<

```

```

_last = (<ASTLabelType>)LT(1);
<super.ruleRefTrack(...)>
>>

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
_last = (<ASTLabelType>)LT(1);
<super.ruleRefTrackAndListLabel(...)>
>>

/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
_last = (<ASTLabelType>)LT(1);
<super.ruleRefRootTrack(...)>
>>

/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
_last = (<ASTLabelType>)LT(1);
<super.ruleRefRuleRootTrackAndListLabel(...)>
>>

/** Streams for token refs are tree nodes now; override to
 * change nextToken to nextNode.
 */
createRewriteNodeFromElement(token,hetero,scope) ::= <<
<if(hetero)>
<hetero>New(stream_<token>->nextNode(stream_<token>))
<else>
stream_<token>->nextNode(stream_<token>)
<endif>
>>

ruleCleanup() ::= <<
<super.ruleCleanup(...)>
<if(backtracking)>
if (<actions.(actionScope).synpredgate>) {<\n>
<endif>
<if(!ruleDescriptor.isSynPred)>
retval.stop = LT(-1);<\n>
<endif>
retval.tree = (<ASTLabelType>)ADAPTOR->rulePostProcessing(ADAPTOR, root_0);
<if(backtracking)>
}
<endif>
<ruleDescriptor.allTokenRefsInAltsWithRewrites
: {if (stream_<it> != NULL) stream_<it>->free(stream_<it>);}; separator="\n">
<ruleDescriptor.allRuleRefsInAltsWithRewrites

```

```
:{if (stream_<it> != NULL) stream_<it>->free(stream_<it>);}; separator="\n">
>>
```

Found in path(s):

```
* /opt/cola/permits/1204005060_1631853129.56/0/antlr-3-1-3-sources-4-
jar/org/antlr/codegen/templates/C/ASTTreeParser.stg
```

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```
/*
```

```
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```

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```

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```

```
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```

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THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

```
*/
```

```
/** Template overrides to add debugging to AST stuff. Dynamic inheritance
```

```
* hierarchy is set up as ASTDbg : AST : Dbg : C# by code generator.
```

```
*/
```

```
group ASTDbg;
```

```
parserMembers() ::= <<<
```

```
protected DebugTreeAdaptor adaptor;
```

```
public ITreeAdaptor TreeAdaptor
```

```
{
```

```
get {
```

```

<if(grammar.grammarIsRoot)>
 return this.adaptor;
<else>
 this.adaptor = (DebugTreeAdaptor)adaptor; // delegator sends dbg adaptor
<endif><\n>
 <grammar.directDelegates:{g|<g:delegateName()>.TreeAdaptor = this.adaptor;}>
 }
 set { this.adaptor = new DebugTreeAdaptor(dbg, value); }
}<\n>
>>

```

```

parserCtorBody() ::= <<
<super.parserCtorBody()>
>>

```

```

createListenerAndHandshake() ::= <<
DebugEventSocketProxy dbg = new DebugEventSocketProxy(this, port, adaptor);
DebugListener = dbg;
<!
Original line follows, replaced by the next two ifs:
set<inputStreamType>(new Debug<inputStreamType>(input,dbg));
!>
<if(PARSER)>
TokenStream = new DebugTokenStream(input,dbg);<\n>
<endif>
<if(TREE_PARSER)>
TokenStream = new DebugTreeNodeStream(input,dbg);<\n>
<endif>
try {
 dbg.Handshake();
} catch (IOException ioe) {
 ReportError(ioe);
}
>>

```

```

@ctorForRootGrammar.finally() ::= <<
ITreeAdaptor adap = new CommonTreeAdaptor();
TreeAdaptor = adap;
dbg.TreeAdaptor = adap;
>>

```

```

@ctorForProfilingRootGrammar.finally() ::= <<
ITreeAdaptor adap = new CommonTreeAdaptor();
TreeAdaptor = adap;
dbg.TreeAdaptor = adap;
>>

```

```

@ctorForPredefinedListener.superClassRef() ::= "base(input, dbg)"

```

```
@ctorForPredefinedListener.finally() ::=<<
<if(grammar.grammarIsRoot)> <! don't create new adaptor for delegates !>
ITreeAdaptor adap = new CommonTreeAdaptor();
TreeAdaptor = adap;<\n>
<endif>
>>
```

```
@rewriteElement.pregen() ::= "dbg.Location(<e.line>,<e.pos>);"
```

Found in path(s):

```
* /opt/cola/permits/1204005060_1631853129.56/0/antlr-3-1-3-sources-4-
jar/org/antlr/codegen/templates/CSharp2/ASTDbg.stg
```

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```

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```

```
*/
```

```
group Perl5 implements ANTLRCore;
```

```
/** The overall file structure of a recognizer; stores methods for rules
```

```
* and cyclic DFAs plus support code.
```



```

*/
outputFile(LEXER,PARSER,TREE_PARSER, actionScope, actions,
 docComment, recognizer,
 name, tokens, tokenNames, rules, cyclicDFAs,
 bitsets, buildTemplate, buildAST, rewriteMode, profile,
 backtracking, synpreds, memoize, numRules,
 fileName, ANTLRVersion, generatedTimestamp, trace,
 scopes, superClass, literals) ::=
<<
$ANTLR <ANTLRVersion> <fileName> <generatedTimestamp>
<actions.(actionScope).header>

<@imports>
<if(TREE_PARSER)>
<endif>
<if(backtracking)>
<endif>
<@end>

<docComment>
<recognizer>
>>

lexer(grammar, name, tokens, scopes, rules, numRules, labelType="Token",
 filterMode, superClass="ANTLR::Runtime::Lexer") ::= <<
package <name>;
use ANTLR::Runtime::Class;

use Carp;
use English qw(-no_match_vars);
use Readonly;
use Switch;

use ANTLR::Runtime::BaseRecognizer;
use ANTLR::Runtime::DFA;
use ANTLR::Runtime::NoViableAltException;

extends 'ANTLR::Runtime::Lexer';

use constant {
 HIDDEN => ANTLR::Runtime::BaseRecognizer->HIDDEN
};

use constant {
 <tokens:{ <it.name> => <it.type>, }; separator="\n">
};
<scopes:{<if(it.isDynamicGlobalScope)><globalAttributeScope(scope=it)><endif>}>
<actions.lexer.members>

```

```

sub BUILD {
 my ($self, $arg_ref) = @_ ;

 $self->init_dfas();
}

sub get_grammar_file_name {
 return "<fileName>";
}

<if(filterMode)>
<filteringNextToken()>
<endif>
<rules; separator="\n\n">

<synpreds:{p | <lexerSynpred(p)>>

<cyclicDFAs:{dfa | has 'dfa<dfa.decisionNumber>'}; separator="\n">

sub init_dfas {
 my ($self) = @_ ;

 <cyclicDFAs:{dfa |
 $self->dfa<dfa.decisionNumber>(<name>::DFA<dfa.decisionNumber>->new({ recognizer => $self }));
 }; separator="\n">

 return;
}

<cyclicDFAs:cyclicDFA(><! dump tables for all DFA !>

1;

>>

perlTypeInitMap ::= [
 "$":"undef",
 "@":"()",
 "%":"()",
 default:"undef"
]

/** A override of Lexer.nextToken() that backtracks over mTokens() looking
 * for matches. No error can be generated upon error; just rewind, consume
 * a token and then try again. backtracking needs to be set as well.
 * Make rule memoization happen only at levels above 1 as we start mTokens
 * at backtracking==1.

```

```

*/
filteringNextToken() ::= <<
public Token nextToken() {
 while (true) {
 if (input.LA(1)==CharStream.EOF) {
 return Token.EOF_TOKEN;
 }
 token = null;
channel = Token.DEFAULT_CHANNEL;
 tokenStartCharIndex = input.index();
 tokenStartCharPositionInLine = input.getCharPositionInLine();
 tokenStartLine = input.getLine();
text = null;
 try {
 int m = input.mark();
 backtracking=1; <!-- means we won't throw slow exception !>
 failed=false;
 mTokens();
 backtracking=0;
 <!-- mTokens backtracks with synpred at backtracking==2
 and we set the synpredgate to allow actions at level 1. !>
 if (failed) {
 input.rewind(m);
 input.consume(); <!-- advance one char and try again !>
 }
 else {
 emit();
 return token;
 }
 }
 catch (RecognitionException re) {
 // shouldn't happen in backtracking mode, but...
 reportError(re);
 recover(re);
 }
 }
}

public void memoize(IntStream input,
 int ruleIndex,
 int ruleStartIndex)
{
 if (backtracking>1) super.memoize(input, ruleIndex, ruleStartIndex);
}

public boolean alreadyParsedRule(IntStream input, int ruleIndex) {
 if (backtracking>1) return super.alreadyParsedRule(input, ruleIndex);
 return false;
}

```

```

}
>>

actionGate() ::= "$self->state->backtracking==0"

filteringActionGate() ::= "backtracking==1"

/** How to generate a parser */
genericParser(grammar, name, scopes, tokens, tokenNames, rules, numRules,
 bitsets, inputStreamType, superClass, filterMode,
 ASTLabelType="Object", labelType, members) ::= <<
package <name>;
use ANTLR::Runtime::Class;

use English qw(-no_match_vars);
use Readonly;
use Switch;
use Carp;
use ANTLR::Runtime::BitSet;

extends '<@superClassName><superClass><@end>';

Readonly my $token_names => [
 "\<invalid>", "\<EOR>", "\<DOWN>", "\<UP>", <tokenNames; separator=", ">
];

use constant {
<tokens:{ <it.name> => <it.type>, }; separator="\n">
};

<bitsets:bitset(name={FOLLOW_<it.name>_in_<it.inName><it.tokenIndex>},
 words64=it.bits)>

<scopes:{<if(it.isDynamicGlobalScope)><globalAttributeScope(scope=it)><endif>}>
<@members>
<! WARNING. bug in ST: this is cut-n-paste into Dbg.stg !>

sub BUILD {
 my ($self, $arg_ref) = @_ ;

<if(backtracking)>
 $self->state->rule_memo({});<\n>
<endif>
}
<@end>

sub get_token_names {
 return $token_names;
}

```

```

}

sub get_grammar_file_name {
 return "<fileName>";
}

<members>

<rules; separator="\n\n">

<synpreds:{p | <synpred(p)>}>

<cyclicDFAs:{dfa | dfa<dfa.decisionNumber> = __PACKAGE__::DFA<dfa.decisionNumber>->new($self);};
separator="\n">
<cyclicDFAs:cyclicDFA()> <! dump tables for all DFA !>

1;
>>

parser(grammar, name, scopes, tokens, tokenNames, rules, numRules, bitsets, ASTLabelType,
superClass="ANTLR::Runtime::Parser", labelType="ANTLR::Runtime::Token",
members={<actions.parser.members>}) ::= <<
<genericParser(inputStreamType="ANTLR::Runtime::TokenStream", ...)>
>>

/** How to generate a tree parser; same as parser except the input
 * stream is a different type.
 */
treeParser(grammar, name, scopes, tokens, tokenNames, globalAction, rules, numRules, bitsets,
labelType={<ASTLabelType>}, ASTLabelType="Object", superClass="ANTLR::Runtime::TreeParser",
members={<actions.treeparser.members>}, filterMode) ::= <<
<genericParser(inputStreamType="TreeNodeStream", ...)>
>>

/** A simpler version of a rule template that is specific to the imaginary
 * rules created for syntactic predicates. As they never have return values
 * nor parameters etc..., just give simplest possible method. Don't do
 * any of the normal memoization stuff in here either; it's a waste.
 * As predicates cannot be inlined into the invoking rule, they need to
 * be in a rule by themselves.
 */
synpredRule(ruleName, ruleDescriptor, block, description, nakedBlock) ::=
<<
$ANTLR start <ruleName>
sub <ruleName>_fragment {
<ruleDescriptor.parameterScope:parameterScope(scope=it)>

```

```

<if(trace)>
 $self->traceIn("<ruleName>_fragment", <ruleDescriptor.index>);
 eval {
 <block>
 };
 $self->traceOut("<ruleName>_fragment", <ruleDescriptor.index>);
 if ($EVAL_ERROR) {
 croak $EVAL_ERROR;
 }
<else>
 <block>
<endif>
}
$ANTLR end <ruleName>
>>

```

```

synpred(name) ::= <<
public final boolean <name>() {
 backtracking++;
 <@start()>
 int start = input.mark();
 try {
 <name>_fragment(); // can never throw exception
 } catch (RecognitionException re) {
 System.err.println("impossible: "+re);
 }
 boolean success = !failed;
 input.rewind(start);
 <@stop()>
 backtracking--;
 failed=false;
 return success;
}<\n>
>>

```

```

lexerSynpred(name) ::= <<
<synpred(name)>
>>

```

```

ruleMemoization(name) ::= <<
<if(memoize)>
if (backtracking>0 && alreadyParsedRule(input, <ruleDescriptor.index>)) { return <ruleReturnValue()>; }
<endif>
>>

```

```

/** How to test for failure and return from rule */
checkRuleBacktrackFailure() ::= <<

```

```

<if(backtracking)>
if ($self->state->failed) {
 return <ruleReturnValue(>);
}
<endif>
>>

/** This rule has failed, exit indicating failure during backtrack */
ruleBacktrackFailure() ::= <<
<if(backtracking)>if (backtracking>0) {failed=true; return <ruleReturnValue(>);}<endif>
>>

/** How to generate code for a rule. This includes any return type
 * data aggregates required for multiple return values.
 */
rule(ruleName,ruleDescriptor,block,emptyRule,description,exceptions,finally,memoize) ::= <<
<ruleAttributeScope(scope=ruleDescriptor.ruleScope)>
<returnScope(scope=ruleDescriptor.returnScope)>

$ANTLR start <ruleName>
<fileName>:<description>
sub <ruleName>() {
 my ($self, <ruleDescriptor.parameterScope:parameterScope(scope=it)>) = @_ ;
 <if(trace)>$self->traceIn("<ruleName>", <ruleDescriptor.index>);<endif>
 <ruleScopeSetUp(>
 <ruleDeclarations(>
 <ruleLabelDefs(>
 <ruleDescriptor.actions.init>
 <@preamble(>
 eval {
 <ruleMemoization(name=ruleName)>
 <block>
 <ruleCleanUp(>
 <(ruleDescriptor.actions.after):execAction(>
 };
<if(exceptions)>
 <exceptions:{e|<catch(decl=e.decl,action=e.action)><\n>}>
<else>
<if(!emptyRule)>
<if(actions.(actionScope).rulecatch)>
 <actions.(actionScope).rulecatch>
<else>
 my $exception = $EVAL_ERROR;
 if (ref $exception && $exception->isa('ANTLR::Runtime::RecognitionException')) {
 $self->report_error($exception);
 $self->recover($self->input, $exception);
 $exception = undef;
 }<\n>

```

```

<endif>
<endif>
<endif>
 <if(trace)>$self->traceOut("<ruleName>", <ruleDescriptor.index>);<endif>
 <memoize()>
 <ruleScopeCleanUp()>
 <finally>
 if ($exception) {
 croak $exception;
 # $exception->rethrow();
 }
 <@postamble()>
 return <ruleReturnValue()>;
}
$ANTLR end <ruleName>
>>

catch(decl,action) ::= <<
catch (<e.decl>) {
 <e.action>
}
>>

ruleDeclarations() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
my $retval = <returnType()>->new();
$retval->set_start($self->input->LT(1));<\n>
<else>
<ruleDescriptor.returnScope.attributes:{ a |
my $<a.name> = <if(a.initValue)><a.initValue><else><initValue(a.type)><endif>;
}>
<endif>
<if(memoize)>
my $<ruleDescriptor.name>_start_index = $self->input->index();
<endif>
>>

ruleScopeSetUp() ::= <<
<ruleDescriptor.useScopes:{<it>_stack.push(new <it>_scope());}; separator="\n">
<ruleDescriptor.ruleScope:{<it.name>_stack.push(new <it.name>_scope());}; separator="\n">
>>

ruleScopeCleanUp() ::= <<
<ruleDescriptor.useScopes:{<it>_stack.pop();}; separator="\n">
<ruleDescriptor.ruleScope:{<it.name>_stack.pop();}; separator="\n">
>>

ruleLabelDefs() ::= <<

```



```

<[ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels]
 :{my $<it.label.text> = undef;}; separator="\n"
>
<[ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels]
 :{List list_<it.label.text>=null;}; separator="\n"
>
<ruleDescriptor.ruleLabels:ruleLabelDef(label=it); separator="\n">
<ruleDescriptor.ruleListLabels:{||RuleReturnScope <ll.label.text> = null;}; separator="\n">
>>

lexerRuleLabelDefs() ::= <<
<[ruleDescriptor.tokenLabels,
 ruleDescriptor.tokenListLabels,
 ruleDescriptor.ruleLabels]
 :{<labelType> <it.label.text>=null;}; separator="\n"
>
<ruleDescriptor.charLabels:{my $<it.label.text>;}; separator="\n">
<[ruleDescriptor.tokenListLabels,
 ruleDescriptor.ruleListLabels,
 ruleDescriptor.ruleListLabels]
 :{List list_<it.label.text>=null;}; separator="\n"
>
>>

ruleReturnValue() ::= <<
<if(!ruleDescriptor.isSynPred)>
<if(ruleDescriptor.hasReturnValue)>
<if(ruleDescriptor.hasSingleReturnValue)>
$<ruleDescriptor.singleValueReturnName>
<else>
$retval
<endif>
<endif>
<endif>
>>

ruleCleanup() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<if(!TREE_PARSER)>
$retval->set_stop($self->input->LT(-1));<\n>
<endif>
<endif>
>>

memoize() ::= <<
<if(memoize)>
<if(backtracking)>
if (backtracking>0) { memoize(input, <ruleDescriptor.index>, <ruleDescriptor.name>_startIndex); }

```

```

<endif>
<endif>
>>

/** How to generate a rule in the lexer; naked blocks are used for
 * fragment rules.
 */
lexerRule(ruleName,nakedBlock,ruleDescriptor,block,memoize) ::= <<
$ANTLR start <ruleName>
sub m_<ruleName> {
<ruleDescriptor.parameterScope:parameterScope(scope=it)>
 my ($self) = @_ ;
 <if(trace)>traceIn("<ruleName>", <ruleDescriptor.index>);<endif>
 <ruleDeclarations()>
 eval {
<if(nakedBlock)>
 <ruleMemoization(name=ruleName)>
 <lexerRuleLabelDefs()>
 <ruleDescriptor.actions.init>
 <block><\n>
<else>
 my $_type = <ruleName>;
 my $_channel = $self->DEFAULT_TOKEN_CHANNEL;
 <ruleMemoization(name=ruleName)>
 <lexerRuleLabelDefs()>
 <ruleDescriptor.actions.init>
 <block>
 <ruleCleanUp()>
 $self->state->type($_type);
 $self->state->channel($_channel);
 <(ruleDescriptor.actions.after):execAction()>
<endif>
 };
 <if(trace)>traceOut("<ruleName>", <ruleDescriptor.index>);<endif>
 <memoize()>

 if ($EVAL_ERROR) {
 croak $EVAL_ERROR;
 }
}
$ANTLR end <ruleName>
>>

/** How to generate code for the implicitly-defined lexer grammar rule
 * that chooses between lexer rules.
 */
tokensRule(ruleName,nakedBlock,args,block,ruleDescriptor) ::= <<
sub m_tokens {

```

```

 my ($self) = @_;
 <block><\n>
}
>>

// S U B R U L E S

/** A (...) subrule with multiple alternatives */
block(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
<fileName>:<description>
my $alt<decisionNumber> = <maxAlt>;
<decls>
<@predecision()>
<decision>
<@postdecision()>
<@prebranch()>
switch ($alt<decisionNumber>) {
 <alts:altSwitchCase()>
}
<@postbranch()>
>>

/** A rule block with multiple alternatives */
ruleBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
<fileName>:<description>
my $alt<decisionNumber> = <maxAlt>;
<decls>
<@predecision()>
<decision>
<@postdecision()>
switch ($alt<decisionNumber>) {
 <alts:altSwitchCase()>
}
>>

ruleBlockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
<fileName>:<description>
<decls>
<@prealt()>
<alts>
<@postalt()>
>>

/** A special case of a (...) subrule with a single alternative */
blockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
<fileName>:<description>
<decls>
<@prealt()>

```

```

<alts>
<@postalt()>
>>

/** A (..)+ block with 1 or more alternatives */
positiveClosureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
<fileName>:<description>
my $cnt<decisionNumber> = 0;
<decls>
<@preloop()>
LOOP<decisionNumber>:
while (1) {
 my $alt<decisionNumber> = <maxAlt>;
 <@predecision()>
 <decision>
 <@postdecision()>
 switch ($alt<decisionNumber>) {
 <alts:altSwitchCase()>
 }
 else {
 if ($cnt<decisionNumber> >= 1) { last LOOP<decisionNumber> }
 <ruleBacktrackFailure()>
 my $see =
 ANTLR::Runtime::EarlyExitException->new(<decisionNumber>, $self->input);
 <@earlyExitException()>
 croak $see;
 }
}
++$cnt<decisionNumber>;
}
<@postloop()>
>>

```

```

positiveClosureBlockSingleAlt ::= positiveClosureBlock

```

```

/** A (..)* block with 1 or more alternatives */
closureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::=
<<
<fileName>:<description>
<decls>
<@preloop()>
LOOP<decisionNumber>:
while (1) {
 my $alt<decisionNumber> = <maxAlt>;
 <@predecision()>
 <decision>
 <@postdecision()>
 switch ($alt<decisionNumber>) {

```

```

 <alts:altSwitchCase()>
 else { last LOOP<decisionNumber> }
 }
}
<@postloop()>
>>

closureBlockSingleAlt ::= closureBlock

/** Optional blocks (x)? are translated to (x|) by before code generation
 * so we can just use the normal block template
 */
optionalBlock ::= block

optionalBlockSingleAlt ::= block

/** A case in a switch that jumps to an alternative given the alternative
 * number. A DFA predicts the alternative and then a simple switch
 * does the jump to the code that actually matches that alternative.
 */
altSwitchCase() ::= <<
case <i> {
 <@prealt()>
 <it>
}<\n>
>>

/** An alternative is just a list of elements; at outermost level */
alt(elements,altNum,description,autoAST,outerAlt,treeLevel,rew) ::= <<
<fileName>:<description>
{
<@declarations()>
<elements:element()>
<rew>
<@cleanup()>
}
>>

/** What to emit when there is no rewrite. For auto build
 * mode, does nothing.
 */
noRewrite(rewriteBlockLevel, treeLevel) ::= ""

// E L E M E N T S

/** Dump the elements one per line */
element() ::= <<
<@prematch()>

```

```

<it.el><\n>
>>

/** match a token optionally with a label in front */
tokenRef(token,label,elementIndex,hetero) ::= <<
<if(label)>${label} =<endif>${self->match(${self->input, <token>,
$FOLLOW_<token>_in_<ruleName><elementIndex>);
<checkRuleBacktrackFailure()>
>>

/** ids+=ID */
tokenRefAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRef(...)>
<listLabel(elem=label,...)>
>>

listLabel(label,elem) ::= <<
if (list_<label>==null) list_<label>=new ArrayList();
list_<label>.add(<elem>);<\n>
>>

/** match a character */
charRef(char,label) ::= <<
<if(label)>
<label> = ${self->input->LA(1)};<\n>
<endif>
${self->match(<char>); <checkRuleBacktrackFailure()>
>>

/** match a character range */
charRangeRef(a,b,label) ::= <<
<if(label)>
<label> = ${self->input->LA(1)};<\n>
<endif>
${self->match_range(<a>,); <checkRuleBacktrackFailure()>
>>

/** For now, sets are interval tests and must be tested inline */
matchSet(s,label,elementIndex,postmatchCode="") ::= <<
<if(label)>
<if(LEXER)>
<label>= ${self->input->LA(1)};<\n>
<else>
<label>=(<labelType>)input.LT(1);<\n>
<endif>
<endif>
if (<s>) {
 ${self->input->consume()};

```

```

 <postmatchCode>
<if(!LEXER)>
 $self->state->error_recovery(0);
<endif>
 <if(backtracking)>failed=false;<endif>
}
else {
 <ruleBacktrackFailure()>
 my $mse =
 ANTLR::Runtime::MismatchedSetException->new(undef, $self->input);
 <@mismatchedSetException()>
<if(LEXER)>
 $self->recover($mse);
 $mse->throw();
<else>
 $mse->throw();
 <! use following code to make it recover inline; remove throw mse;
 $self->recoverFromMismatchedSet($self->input, $mse, $FOLLOW_set_in_<ruleName><elementIndex>);
 !>
<endif>
}<\n>
>>

```

```

matchRuleBlockSet ::= matchSet

```

```

matchSetAndListLabel(s,label,elementIndex,postmatchCode) ::= <<
<matchSet(...)>
<listLabel(elem=label,...)>
>>

```

```

/** Match a string literal */
lexerStringRef(string,label) ::= <<
<if(label)>
int <label>Start = getCharIndex();
$self->match(<string>); <checkRuleBacktrackFailure()>
<labelType> <label> = new CommonToken(input, Token.INVALID_TOKEN_TYPE,
Token.DEFAULT_CHANNEL, <label>Start, getCharIndex()-1);
<else>
$self->match(<string>); <checkRuleBacktrackFailure()><\n>
<endif>
>>

```

```

wildcard(label,elementIndex) ::= <<
<if(label)>
<label>=<labelType>input.LT(1);<\n>
<endif>
matchAny(input); <checkRuleBacktrackFailure()>
>>

```

```

wildcardAndListLabel(label,elementIndex) ::= <<
<wildcard(...)>
<listLabel(elem=label,...)>
>>

/** Match . wildcard in lexer */
wildcardChar(label, elementIndex) ::= <<
<if(label)>
<label> = $self->input->LA(1);<\n>
<endif>
matchAny(); <checkRuleBacktrackFailure()>
>>

wildcardCharListLabel(label, elementIndex) ::= <<
<wildcardChar(...)>
<listLabel(elem=label,...)>
>>

/** Match a rule reference by invoking it possibly with arguments
 * and a return value or values.
 */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
$self->push_follow($FOLLOW_<rule.name>_in_<ruleName><elementIndex>);
<if(label)>
$self-><rule.name>(<args; separator=", ">);<\n>
<else>
$self-><rule.name>(<args; separator=", ">);<\n>
<endif>
$self->state->_fsp($self->state->_fsp - 1);
<checkRuleBacktrackFailure()>
>>

/** ids+=r */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>
<listLabel(elem=label,...)>
>>

/** A lexer rule reference.
 *
 * The 'rule' argument was the target rule name, but now
 * is type Rule, whose toString is same: the rule name.
 * Now though you can access full rule descriptor stuff.
 */
lexerRuleRef(rule,label,args,elementIndex,scope) ::= <<
<if(label)>
int <label>Start<elementIndex> = getCharIndex();

```



```

$self->m_<rule>(<args; separator=" ">; <checkRuleBacktrackFailure()>
<label> = new CommonToken(input, Token.INVALID_TOKEN_TYPE, Token.DEFAULT_CHANNEL,
<label>Start<elementIndex>, getCharIndex()-1);
<else>
$self->m_<rule.name>(<args; separator=" ">; <checkRuleBacktrackFailure()>
<endif>
>>

/** i+=INT in lexer */
lexerRuleRefAndListLabel(rule,label,args,elementIndex,scope) ::= <<
<lexerRuleRef(...)>
<listLabel(elem=label,...)>
>>

/** EOF in the lexer */
lexerMatchEOF(label,elementIndex) ::= <<
<if(label)>
int <label>Start<elementIndex> = getCharIndex();
match(EOF); <checkRuleBacktrackFailure()>
<labelType> <label> = new CommonToken(input, EOF, Token.DEFAULT_CHANNEL,
<label>Start<elementIndex>, getCharIndex()-1);
<else>
match(EOF); <checkRuleBacktrackFailure()>
<endif>
>>

/** match ^(root children) in tree parser */
tree(root, actionsAfterRoot, children, nullableChildList,
enclosingTreeLevel, treeLevel) ::= <<
<root:element()>
<actionsAfterRoot:element()>
<if(nullableChildList)>
if (input.LA(1)==Token.DOWN) {
match(input, Token.DOWN, null); <checkRuleBacktrackFailure()>
<children:element()>
match(input, Token.UP, null); <checkRuleBacktrackFailure()>
}
<else>
match(input, Token.DOWN, null); <checkRuleBacktrackFailure()>
<children:element()>
match(input, Token.UP, null); <checkRuleBacktrackFailure()>
<endif>
>>

/** Every predicate is used as a validating predicate (even when it is
* also hoisted into a prediction expression).
*/
validateSemanticPredicate(pred,description) ::= <<

```

```

if (!(<evalPredicate(...)>)) {
 <ruleBacktrackFailure()>
 throw new FailedPredicateException(input, "<ruleName>", "<description>");
}
>>

// F i x e d D F A (if-then-else)

dfaState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
my $LA<decisionNumber>_<stateNumber> = $self->input->LA(<k>);<\n>
<edges; separator="\nls">
else {
<if(eotPredictsAlt)>
 $alt<decisionNumber> = <eotPredictsAlt>;
<else>
 <ruleBacktrackFailure()>
 my $nvae =
 ANTLR::Runtime::NoViableAltException->new({
 grammar_decision_description => "<description>",
 decision_number => <decisionNumber>,
 state_number => <stateNumber>,
 input => $self->input,
 });<\n>
 <@noViableAltException()>
 croak $nvae;<\n>
<endif>
}
>>

/** Same as a normal DFA state except that we don't examine lookahead
 * for the bypass alternative. It delays error detection but this
 * is faster, smaller, and more what people expect. For (X)? people
 * expect "if (LA(1)==X) match(X);" and that's it.
 */
dfaOptionalBlockState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
my $LA<decisionNumber>_<stateNumber> = $self->input->LA(<k>);<\n>
<edges; separator="\nls">
>>

/** A DFA state that is actually the loopback decision of a closure
 * loop. If end-of-token (EOT) predicts any of the targets then it
 * should act like a default clause (i.e., no error can be generated).
 * This is used only in the lexer so that for ('a')* on the end of a rule
 * anything other than 'a' predicts exiting.
 */
dfaLoopbackState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
my $LA<decisionNumber>_<stateNumber> = $self->input->LA(<k>);<\n>
<edges; separator="\nls"><\n>

```

```

<if(eotPredictsAlt)>
<if(!edges)>
$alt<decisionNumber> = <eotPredictsAlt>; <! if no edges, don't gen ELSE !>
<else>
else {
 $alt<decisionNumber> = <eotPredictsAlt>;
}<\n>
<endif>
<endif>
>>

/** An accept state indicates a unique alternative has been predicted */
dfaAcceptState(alt) ::= "$alt<decisionNumber> = <alt>";

/** A simple edge with an expression. If the expression is satisfied,
 * enter to the target state. To handle gated productions, we may
 * have to evaluate some predicates for this edge.
 */
dfaEdge(labelExpr, targetState, predicates) ::= <<
if ((<labelExpr>) <if(predicates)>&& (<predicates>)<endif>) {
 <targetState>
}
>>

// F i x e d D F A (switch case)

/** A DFA state where a SWITCH may be generated. The code generator
 * decides if this is possible: CodeGenerator.canGenerateSwitch().
 */
dfaStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch ($self->input->LA(<k>)) {
 <edges; separator="\n">
 else {
 <if(eotPredictsAlt)>
 $alt<decisionNumber> = <eotPredictsAlt>;
 <else>
 <ruleBacktrackFailure()>
 my $nvae =
 ANTLR::Runtime::NoViableAltException->new({
 grammar_decision_description => "<description>",
 decision_number => <decisionNumber>,
 state_number => <stateNumber>,
 input => $self->input,
 });<\n>
 <@noViableAltException()>
 croak $nvae;<\n>
 <endif>
 }
}

```

```

}<\n>
>>

dfaOptionalBlockStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch ($self->input->LA(<k>)) {
 <edges; separator="\n">
}<\n>
>>

dfaLoopbackStateSwitch(k, edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch ($self->input->LA(<k>)) {
<edges; separator="\n"><\n>
<if(eotPredictsAlt)>
else { $alt<decisionNumber> = <eotPredictsAlt> }<\n>
<endif>
}<\n>
>>

dfaEdgeSwitch(labels, targetState) ::= <<
case [<labels: { <it> }; separator=","] { <targetState> }
>>

// C y c l i c D F A

/** The code to initiate execution of a cyclic DFA; this is used
 * in the rule to predict an alt just like the fixed DFA case.
 * The <name> attribute is inherited via the parser, lexer, ...
 */
dfaDecision(decisionNumber,description) ::= <<
$alt<decisionNumber> = $self->dfa<decisionNumber>->predict($self->input);
>>

/* Dump DFA tables as run-length-encoded Strings of octal values.
 * Can't use hex as compiler translates them before compilation.
 * These strings are split into multiple, concatenated strings.
 * Java puts them back together at compile time thankfully.
 * Java cannot handle large static arrays, so we're stuck with this
 * encode/decode approach. See analysis and runtime DFA for
 * the encoding methods.
 */
cyclicDFA(dfa) ::= <<
Readonly my $DFA<dfa.decisionNumber>_eot => ANTLR::Runtime::DFA->unpack_rle([
<dfa.javaCompressedEOT; separator="," >]);
Readonly my $DFA<dfa.decisionNumber>_eof => ANTLR::Runtime::DFA->unpack_rle([
<dfa.javaCompressedEOF; separator="," >]);
Readonly my $DFA<dfa.decisionNumber>_min => ANTLR::Runtime::DFA->unpack_rle([
<dfa.javaCompressedMin; separator="," >]);
Readonly my $DFA<dfa.decisionNumber>_max => ANTLR::Runtime::DFA->unpack_rle([

```

```

<dfa.javaCompressedMax; separator=", ">]);
Readonly my $DFA<dfa.decisionNumber>_accept => ANTLR::Runtime::DFA->unpack_rle([
<dfa.javaCompressedAccept; separator=", ">]);
Readonly my $DFA<dfa.decisionNumber>_special => ANTLR::Runtime::DFA->unpack_rle([
<dfa.javaCompressedSpecial; separator=", ">]);
Readonly my $DFA<dfa.decisionNumber>_transition => [
<dfa.javaCompressedTransition:{s|ANTLR::Runtime::DFA->unpack_rle([<s; separator=", ">])}; separator=", ">];

{
package <name>::DFA<dfa.decisionNumber>;
use ANTLR::Runtime::Class;

use strict;
use warnings;

extends 'ANTLR::Runtime::DFA';

sub BUILD {
 my $self = shift;
 my $param_ref = __PACKAGE__->unpack_params(@_, {
 spec => [
 {
 name => 'recognizer',
 isa => 'ANTLR::Runtime::BaseRecognizer'
 },
]
 });

 $self->recognizer($param_ref->{recognizer});
 $self->decision_number(<dfa.decisionNumber>);
 $self->eot($DFA<dfa.decisionNumber>_eot);
 $self->eof($DFA<dfa.decisionNumber>_eof);
 $self->min($DFA<dfa.decisionNumber>_min);
 $self->max($DFA<dfa.decisionNumber>_max);
 $self->accept($DFA<dfa.decisionNumber>_accept);
 $self->special($DFA<dfa.decisionNumber>_special);
 $self->transition($DFA<dfa.decisionNumber>_transition);
}

sub get_description {
 return "<dfa.description>";
}

<@errorMethod()>

<if(dfa.specialStateSTs)>
sub special_state_transition {
 my ($self, $param_ref) = unpack_params(@_, {

```

```

spec => [
 {
 name => 's',
 type => SCALAR,
 },
 {
 name => 'input',
 isa => 'ANTLR::Runtime::IntStream',
 }
]
));
my $s = $param_ref->{s};
my $input = $param_ref->{input};

switch ($s) {
 <dfa.specialStateSTs:{state |
 case <i0> \{ <! compressed special state numbers 0..n-1 !>
 <state>}; separator="\n">
 }
}

<if(backtracking)>
 if ($self->state->backtracking > 0) {
 $self->state->failed = 1;
 return -1;
 }<\n>
<endif>

my $nvae =
 ANTLR::Runtime::NoViableAltException->new({
 grammar_decision_description => $self->get_description(),
 decision_number => <dfa.decisionNumber>,
 state_number => $s,
 input => $input,
 });<\n>
 $self->error($nvae);
 $nvae->throw();
}<\n>
<endif>
}<\n>
>>

/** A state in a cyclic DFA; it's a special state and part of a big switch on
 * state.
 */
cyclicDFASState(decisionNumber,stateNumber,edges,needErrorClause,semPredState) ::= <<
my $input = $self->input;
my $LA<decisionNumber>_<stateNumber> = $input->LA(1);<\n>

```

```

<if(semPredState)> <! get next lookahead symbol to test edges, then rewind !>
my $index<decisionNumber>_<stateNumber> = $input->index();
$input->rewind();<\n>
<endif>
s = -1;
<edges; separator="\nls">
<if(semPredState)> <! return input cursor to state before we rewound !>
input.seek(index<decisionNumber>_<stateNumber>);<\n>
<endif>
if (s>=0) return s;
break;
>>

/** Just like a fixed DFA edge, test the lookahead and indicate what
 * state to jump to next if successful.
 */
cyclicDFAEdge(labelExpr, targetStateNumber, edgeNumber, predicates) ::= <<
if ((<labelExpr> <if(predicates)>&& (<predicates>)<endif>) { s = <targetStateNumber>;}<\n>
>>

/** An edge pointing at end-of-token; essentially matches any char;
 * always jump to the target.
 */
eotDFAEdge(targetStateNumber,edgeNumber, predicates) ::= <<
s = <targetStateNumber>;<\n>
>>

// D F A E X P R E S S I O N S

andPredicates(left,right) ::= "(<left> && <right>)"

orPredicates(operands) ::= "(<first(operands)><rest(operands):{o | ||<o>}>)"

notPredicate(pred) ::= "!(<evalPredicate(...)>)"

evalPredicate(pred,description) ::= "<pred>"

evalSynPredicate(pred,description) ::= "<pred>()"

lookaheadTest(atom,k,atomAsInt) ::= "$LA<decisionNumber>_<stateNumber> eq <atom>"

/** Sometimes a lookahead test cannot assume that LA(k) is in a temp variable
 * somewhere. Must ask for the lookahead directly.
 */
isolatedLookaheadTest(atom,k,atomAsInt) ::= "$self->input->LA(<k>) eq <atom>"

lookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= <<

```

```

($LA<decisionNumber>_<stateNumber> ge <lower> && $LA<decisionNumber>_<stateNumber> le <upper>)
>>

isolatedLookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= "($self->input->LA(<k>) ge
<lower> && $self->input->LA(<k>) le <upper>)"

setTest(ranges) ::= "<ranges; separator=\\\" || \\\">"

// A T T R I B U T E S

globalAttributeScope(scope) ::= <<
<if(scope.attributes)>
protected static class <scope.name>_scope {
 <scope.attributes:{<it.decl>;}; separator=\\\"\\n">
}
protected Stack <scope.name>_stack = new Stack();<\\n>
<endif>
>>

ruleAttributeScope(scope) ::= <<
<if(scope.attributes)>
protected static class <scope.name>_scope {
 <scope.attributes:{<it.decl>;}; separator=\\\"\\n">
}
protected Stack <scope.name>_stack = new Stack();<\\n>
<endif>
>>

returnType() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<ruleDescriptor.name>_return
<else>
<if(ruleDescriptor.hasSingleReturnValue)>
<ruleDescriptor.singleValueReturnType>
<else>
void
<endif>
<endif>
>>

/** Generate the Java type associated with a single or multiple return
 * values.
 */
ruleLabelType(referencedRule) ::= <<
<if(referencedRule.hasMultipleReturnValues)>
<referencedRule.name>_return
<else>
<if(referencedRule.hasSingleReturnValue)>

```



```

<referencedRule.singleValueReturnType>
<else>
void
<endif>
<endif>
>>

/** Using a type to init value map, try to init a type; if not in table
 * must be an object, default value is "undef".
 */
initValue(typeName) ::= <<
<if(typeName)>
<perlTypeInitMap.(typeName)>
<else>
undef
<endif>
>>

/** Define a rule label including default value */
ruleLabelDef(label) ::= <<
my $<label.label.text> = <initValue(typeName=ruleLabelType(referencedRule=label.referencedRule))>;<\n>
>>

/** Define a return struct for a rule if the code needs to access its
 * start/stop tokens, tree stuff, attributes, ... Leave a hole for
 * subgroups to stick in members.
 */
returnScope(scope) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
{
package <returnType()>;
use ANTLR::Runtime::Class;

extends 'ANTLR::Runtime::<if(TREE_PARSER)>Tree<else>Parser<endif>RuleReturnScope';

<scope.attributes:{public <it.decl>;}; separator="\n">
<@ruleReturnMembers()>
}
<endif>
>>

parameterScope(scope) ::= <<
<scope.attributes:{<$<it.name>}; separator=", ">
>>

parameterAttributeRef(attr) ::= "<$<attr.name>"
parameterSetAttributeRef(attr,expr) ::= "<$<attr.name> =<expr>";"

```

```

scopeAttributeRef(scope,attr,index,negIndex) ::= <<
<if(negIndex)>
((<scope>_scope)<scope>_stack.elementAt(<scope>_stack.size()-<negIndex>-1)).<attr.name>
<else>
<if(index)>
((<scope>_scope)<scope>_stack.elementAt(<index>)).<attr.name>
<else>
((<scope>_scope)<scope>_stack.peek()).<attr.name>
<endif>
<endif>
>>

scopeSetAttributeRef(scope,attr,expr,index,negIndex) ::= <<
<if(negIndex)>
((<scope>_scope)<scope>_stack.elementAt(<scope>_stack.size()-<negIndex>-1)).<attr.name> =<expr>;
<else>
<if(index)>
((<scope>_scope)<scope>_stack.elementAt(<index>)).<attr.name> =<expr>;
<else>
((<scope>_scope)<scope>_stack.peek()).<attr.name> =<expr>;
<endif>
<endif>
>>

/** $x is either global scope or x is rule with dynamic scope; refers
 * to stack itself not top of stack. This is useful for predicates
 * like {$function.size()>0 && $function::name.equals("foo")}?
 */
isolatedDynamicScopeRef(scope) ::= "<scope>_stack"

/** reference an attribute of rule; might only have single return value */
ruleLabelRef(referencedRule,scope,attr) ::= <<
<if(referencedRule.hasMultipleReturnValues)>
$<scope>.<attr.name>
<else>
$<scope>
<endif>
>>

returnAttributeRef(ruleDescriptor,attr) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
retval.<attr.name>
<else>
$<attr.name>
<endif>
>>

returnSetAttributeRef(ruleDescriptor,attr,expr) ::= <<

```

```

<if(ruleDescriptor.hasMultipleReturnValues)>
retval.<attr.name> =<expr>;
<else>
$<attr.name> =<expr>;
<endif>
>>

/** How to translate $tokenLabel */
tokenLabelRef(label) ::= "$<label>"

/** ids+=ID {$ids} or e+=expr {$e} */
listLabelRef(label) ::= "list_<label>"

// not sure the next are the right approach

tokenLabelPropertyRef_text(scope,attr) ::= "$<scope>->get_text()"
tokenLabelPropertyRef_type(scope,attr) ::= "<scope>.getType()"
tokenLabelPropertyRef_line(scope,attr) ::= "<scope>.getLine()"
tokenLabelPropertyRef_pos(scope,attr) ::= "<scope>.getCharPositionInLine()"
tokenLabelPropertyRef_channel(scope,attr) ::= "<scope>.getChannel()"
tokenLabelPropertyRef_index(scope,attr) ::= "<scope>.getTokenIndex()"
tokenLabelPropertyRef_tree(scope,attr) ::= "<scope>_tree"

ruleLabelPropertyRef_start(scope,attr) ::= "((<labelType>)<scope>.start)"
ruleLabelPropertyRef_stop(scope,attr) ::= "((<labelType>)<scope>.stop)"
ruleLabelPropertyRef_tree(scope,attr) ::= "((<ASTLabelType>)<scope>.tree)"
ruleLabelPropertyRef_text(scope,attr) ::= <<
<if(TREE_PARSER)>
input.getTokenStream().toString(
input.getTreeAdaptor().getTokenStartIndex(<scope>.start),
input.getTreeAdaptor().getTokenStopIndex(<scope>.start))
<else>
substr($self->input, $<scope>->start, $<scope>->stop)
<endif>
>>

ruleLabelPropertyRef_st(scope,attr) ::= "<scope>.st"

/** Isolated $RULE ref ok in lexer as it's a Token */
lexerRuleLabel(label) ::= "$<label>"

lexerRuleLabelPropertyRef_type(scope,attr) ::= "<scope>.getType()"
lexerRuleLabelPropertyRef_line(scope,attr) ::= "<scope>.getLine()"
lexerRuleLabelPropertyRef_pos(scope,attr) ::= "<scope>.getCharPositionInLine()"
lexerRuleLabelPropertyRef_channel(scope,attr) ::= "<scope>.getChannel()"
lexerRuleLabelPropertyRef_index(scope,attr) ::= "<scope>.getTokenIndex()"
lexerRuleLabelPropertyRef_text(scope,attr) ::= "<scope>.getText()"

```

```

// Somebody may ref $template or $tree or $stop within a rule:
rulePropertyRef_start(scope,attr) ::= "(<labelType>retval.start)"
rulePropertyRef_stop(scope,attr) ::= "(<labelType>retval.stop)"
rulePropertyRef_tree(scope,attr) ::= "(<ASTLabelType>retval.tree)"
rulePropertyRef_text(scope,attr) ::= <<
<if(TREE_PARSER)>
input.getTokenStream().toString(
input.getTreeAdaptor().getTokenStartIndex(retval.start),
input.getTreeAdaptor().getTokenStopIndex(retval.start))
<else>
input.toString(retval.start,input.LT(-1))
<endif>
>>
rulePropertyRef_st(scope,attr) ::= "retval.st"

lexerRulePropertyRef_text(scope,attr) ::= "getText()"
lexerRulePropertyRef_type(scope,attr) ::= "$_type"
lexerRulePropertyRef_line(scope,attr) ::= "tokenStartLine"
lexerRulePropertyRef_pos(scope,attr) ::= "tokenStartCharPositionInLine"
lexerRulePropertyRef_index(scope,attr) ::= "-1" // undefined token index in lexer
lexerRulePropertyRef_channel(scope,attr) ::= "$_channel"
lexerRulePropertyRef_start(scope,attr) ::= "tokenStartCharIndex"
lexerRulePropertyRef_stop(scope,attr) ::= "(getCharIndex()-1)"
lexerRulePropertyRef_self(scope,attr) ::= "$self"

// setting $st and $tree is allowed in local rule. everything else
// is flagged as error
ruleSetPropertyRef_tree(scope,attr,expr) ::= "retval.tree =<expr>";
ruleSetPropertyRef_st(scope,attr,expr) ::= "retval.st =<expr>";

/** How to execute an action */
execAction(action) ::= <<
<if(backtracking)>
<if(actions.(actionScope).synpredgate)>
if (<actions.(actionScope).synpredgate>) {
<action>
}
<else>
if (backtracking==0) {
<action>
}
<endif>
<else>
<action>
<endif>
>>

```

```
// M I S C (properties, etc...)

bitset(name, words64) ::= <<
Readonly my $<name> => ANTLR::Runtime::BitSet->new({ words64 => [<words64:{'<it>'};separator=", ">]
});<\n>
>>
```

```
codeFileExtension() ::= ".pm"
```

```
true() ::= "1"
```

```
false() ::= "0"
```

```
Found in path(s):
```

```
* /opt/cola/permits/1204005060_1631853129.56/0/antlr-3-1-3-sources-4-
jar/org/antlr/codegen/templates/Perl5/Perl5.stg
```

```
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```
/*
```

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```

```
*/
```

```
Found in path(s):
```

```
* /opt/cola/permits/1204005060_1631853129.56/0/antlr-3-1-3-sources-4-jar/org/antlr/codegen/RubyTarget.java
```

\* /opt/cola/permits/1204005060\_1631853129.56/0/antlr-3-1-3-sources-4-jar/org/antlr/codegen/PythonTarget.java

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\*/

/\*\* Templates for building ASTs during normal parsing.

\*

\* Deal with many combinations. Dimensions are:

\* Auto build or rewrite

\* no label, label, list label (label/no-label handled together)

\* child, root

\* token, set, rule, wildcard

\*

\* The situation is not too bad as rewrite (->) usage makes ^ and !

\* invalid. There is no huge explosion of combinations.

\*/

group ASTParser;

```

@rule.setErrorReturnValue() ::= <<
retval.tree = (<ASTLabelType>)adaptor.ErrorNode(input, retval.start, input.LT(-1), re);
<! System.out.WriteLine("<ruleName> returns "+((CommonTree)retval.tree).toStringTree()); !>
>>

// TOKEN AST STUFF

/** ID and output=AST */
tokenRef(token,label,elementIndex,hetero) ::= <<
<super.tokenRef(...)>
<if(backtracking)>if (state.backtracking==0) {<endif>
<label>_tree = <createNodeFromToken(...)>;
adaptor.AddChild(root_0, <label>_tree);
<if(backtracking)>}<endif>
>>

/** ID! and output=AST (same as plain tokenRef) */
tokenRefBang(token,label,elementIndex) ::= "<super.tokenRef(...)>"

/** ID^ and output=AST */
tokenRefRuleRoot(token,label,elementIndex,hetero) ::= <<
<super.tokenRef(...)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) {<endif>
<label>_tree = <createNodeFromToken(...)>;
root_0 = (<ASTLabelType>)adaptor.BecomeRoot(<label>_tree, root_0);
<if(backtracking)>}<endif>
>>

/** ids+=ID! and output=AST */
tokenRefBangAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRefBang(...)>
<listLabel(elem=label,...)>
>>

/** label+=TOKEN when output=AST but not rewrite alt */
tokenRefAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRef(...)>
<listLabel(elem=label,...)>
>>

/** Match label+=TOKEN^ when output=AST but not rewrite alt */
tokenRefRuleRootAndListLabel(token,label,hetero,elementIndex) ::= <<
<tokenRefRuleRoot(...)>
<listLabel(elem=label,...)>
>>

// SET AST

```

```

// the match set stuff is interesting in that it uses an argument list
// to pass code to the default matchSet; another possible way to alter
// inherited code. I don't use the region stuff because I need to pass
// different chunks depending on the operator. I don't like making
// the template name have the operator as the number of templates gets
// large but this is the most flexible--this is as opposed to having
// the code generator call matchSet then add root code or ruleroot code
// plus list label plus ... The combinations might require complicated
// rather than just added on code. Investigate that refactoring when
// I have more time.

matchSet(s,label,hetero,elementIndex,postmatchCode) ::= <<
<super.matchSet(..., postmatchCode={<if(backtracking)>if (<actions.(actionScope).synpredgate>)
<endif>adaptor.AddChild(root_0, <createNodeFromToken(...)>);}>
>>

matchRuleBlockSet(s,label,hetero,elementIndex,postmatchCode,treeLevel="0") ::= <<
<matchSet(...)>
>>

matchSetBang(s,label,elementIndex,postmatchCode) ::= "<super.matchSet(...)>"

// note there is no matchSetTrack because -> rewrites force sets to be
// plain old blocks of alts: (A|B|...|C)

matchSetRuleRoot(s,label,hetero,elementIndex,debug) ::= <<
<if(label)>
<label>=(<labelType>)input.LT(1);<\n>
<endif>
<super.matchSet(..., postmatchCode={<if(backtracking)>if (<actions.(actionScope).synpredgate>) <endif>root_0
= (<ASTLabelType>)adaptor.BecomeRoot(<createNodeFromToken(...)>, root_0);}>
>>

// RULE REF AST

/** rule when output=AST */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(...)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) <endif>adaptor.AddChild(root_0, <label>.Tree);
>>

/** rule! is same as normal rule ref */
ruleRefBang(rule,label,elementIndex,args,scope) ::= "<super.ruleRef(...)>"

/** rule^ */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(...)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) <endif>root_0 =

```



```

(<ASTLabelType>)adaptor.BecomeRoot(<label>.Tree, root_0);
>>

/** x+=rule when output=AST */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>
<listLabel(elem=label+".Tree",...)>
>>

/** x+=rule! when output=AST is a rule ref with list addition */
ruleRefBangAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefBang(...)>
<listLabel(elem=label+".Tree",...)>
>>

/** x+=rule^ */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...)>
<listLabel(elem=label+".Tree",...)>
>>

// WILDCARD AST

wildcard(label,elementIndex) ::= <<
<super.wildcard(...)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) {<endif>
<label>_tree = (<ASTLabelType>)adaptor.Create(<label>);
adaptor.AddChild(root_0, <label>_tree);
<if(backtracking)>}<endif>
>>

wildcardBang(label,elementIndex) ::= "<super.wildcard(...)>"

wildcardRuleRoot(label,elementIndex) ::= <<
<super.wildcard(...)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) {<endif>
<label>_tree = (<ASTLabelType>)adaptor.Create(<label>);
root_0 = (<ASTLabelType>)adaptor.BecomeRoot(<label>_tree, root_0);
<if(backtracking)>}<endif>
>>

createNodeFromToken(label,hetero) ::= <<
<if(hetero)>
new <hetero>(<label>) <! new MethodNode(IDLabel) !>
<else>
(<ASTLabelType>)adaptor.Create(<label>)
<endif>
>>

```

```
ruleCleanup() ::= <<
<super.ruleCleanup()>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) {<\n><endif>
retval.tree = (<ASTLabelType>)adaptor.RulePostProcessing(root_0);
adaptor.SetTokenBoundaries(retval.tree, retval.start, retval.stop);
<if(backtracking)>}<endif>
>>
```

Found in path(s):

```
* /opt/cola/permits/1204005060_1631853129.56/0/antlr-3-1-3-sources-4-
jar/org/antlr/codegen/templates/CSharp3/ASTParser.stg
```

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```

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```

```
* /opt/cola/permits/1204005060_1631853129.56/0/antlr-3-1-3-sources-4-jar/org/antlr/codegen/CSharp2Target.java
```

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```
*/
```

```
group ActionScript implements ANTLRCore;
```

```
asTypeInitMap ::= [
```

```
 "int": "0",
```

```
 "uint": "0",
```

```
 "Number": "0.0",
```

```
 "Boolean": "false",
```

```
 default: "null" // anything other than an atomic type
```

```
]
```

```
/** The overall file structure of a recognizer; stores methods for rules
```

```
 * and cyclic DFAs plus support code.
```

```
*/
```

```
outputFile(LEXER,PARSER,TREE_PARSER, actionScope, actions,
```

```
 docComment, recognizer,
```

```
 name, tokens, tokenNames, rules, cyclicDFAs,
```

```
 bitsets, buildTemplate, buildAST, rewriteMode, profile,
```

```
 backtracking, synpreds, memoize, numRules,
```

```
 fileName, ANTLRVersion, generatedTimestamp, trace,
```

```
 scopes, superClass, literals) ::=
```

```
<<
```

```

// $ANTLR <ANTLRVersion> <fileName> <generatedTimestamp>
package<if(actions.(actionScope).package)> <actions.(actionScope).package><endif> {
 <actions.(actionScope).header>
 <@imports>
import org.antlr.runtime.*;
<if(TREE_PARSER)>
 import org.antlr.runtime.tree.*;
<endif>
 <@end>

 <docComment>
 <recognizer>
}
>>

lexer(grammar, name, tokens, scopes, rules, numRules, labelType="Token",
 filterMode, superClass="Lexer") ::= <<
public class <grammar.recognizerName> extends
<if(actions.(actionScope).superClass)><actions.(actionScope).superClass><else><@superClassName><superClass>
><@end><endif> {
 <tokens:{public static const <it.name>:int=<it.type>;}; separator="\n">
 <scopes:{<if(it.isDynamicGlobalScope)><globalAttributeScope(scope=it)><endif>}>
 <actions.lexer.members>

 // delegates
 <grammar.delegates:
 {g|public var <g.delegateName()>:<g.recognizerName>;}; separator="\n">
 // delegators
 <grammar.delegators:
 {g|public var <g.delegateName()>:<g.recognizerName>;}; separator="\n">
 <last(grammar.delegators):{g|public var gParent:<g.recognizerName>;}>

 public function <grammar.recognizerName>(<grammar.delegators:{g|<g.delegateName()>:<g.recognizerName>,
}>input:CharStream = null, state:RecognizerSharedState = null) {
 super(input, state);
 <cyclicDFAs:cyclicDFACTor>
 <if(memoize)>
 <if(grammar.grammarIsRoot)>
 this.state.ruleMemo = new Array(<numRules>+1);<\n><! index from 1..n !>
 <endif>
 <endif>

 <grammar.directDelegates:
 {g|<g.delegateName()> = new <g.recognizerName>(<trunc(g.delegators):{p|<p.delegateName()>, }>this,
input, this.state);}; separator="\n">
 <grammar.delegators:
 {g|this.<g.delegateName()> = <g.delegateName()>;}; separator="\n">
 <last(grammar.delegators):{g|gParent = <g.delegateName()>;}>
}

```

```

public override function get grammarFileName():String { return "<fileName>"; }

<if(filterMode)>
 <filteringNextToken()>
<endif>
<rules; separator="\n\n">

<synpreds:{p | <lexerSynpred(p)>}>

<cyclicDFAs:cyclicDFA()> <! dump tables for all DFA !>

}
>>

/** A override of Lexer.nextToken() that backtracks over mTokens() looking
 * for matches. No error can be generated upon error; just rewind, consume
 * a token and then try again. backtracking needs to be set as well.
 * Make rule memoization happen only at levels above 1 as we start mTokens
 * at backtracking==1.
 */
filteringNextToken() ::= <<
public override function nextToken():Token {
 while (true) {
 if (input.LA(1)==CharStreamConstants.EOF) {
 return TokenConstants.EOF_TOKEN;
 }
 this.state.token = null;
 this.state.channel = TokenConstants.DEFAULT_CHANNEL;
 this.state.tokenStartCharIndex = input.index;
 this.state.tokenStartCharPositionInLine = input.charPositionInLine;
 this.state.tokenStartLine = input.line;
 this.state.text = null;
 try {
 var m:int = input.mark();
 this.state.backtracking=1; <! means we won't throw slow exception !>
 this.state.failed=false;
 mTokens();
 this.state.backtracking=0;
 <! mTokens backtracks with synpred at backtracking==2
 and we set the synpredgate to allow actions at level 1. !>
 if (this.state.failed) {
 input.rewindTo(m);
 input.consume(); <! advance one char and try again !>
 }
 else {
 emit();
 return this.state.token;
 }
 }
 }
}

```

```

 }
 catch (re:RecognitionException) {
 // shouldn't happen in backtracking mode, but...
 reportError(re);
 recover(re);
 }
}
// Not reached - For ActionScript compiler
throw new Error();
}

public override function memoize(input:IntStream,
 ruleIndex:int,
 ruleStartIndex:int):void
{
 if (this.state.backtracking>1) super.memoize(input, ruleIndex, ruleStartIndex);
}

public override function alreadyParsedRule(input:IntStream, ruleIndex:int):Boolean {
 if (this.state.backtracking>1) return super.alreadyParsedRule(input, ruleIndex);
 return false;
}
>>

actionGate() ::= "this.state.backtracking==0"

filteringActionGate() ::= "this.state.backtracking==1"

/** How to generate a parser */
genericParser(grammar, name, scopes, tokens, tokenNames, rules, numRules,
 bitsets, inputStreamType, superClass, filterMode,
 ASTLabelType="Object", labelType, members, rewriteElementType) ::= <<
public class <grammar.recognizerName> extends
<if(actions.(actionScope).superClass)><actions.(actionScope).superClass><else><@superClassName><superClass
><@end><endif> {
<if(grammar.grammarIsRoot)>
 public static const tokenNames:Array = [
 "\<invalid>", "\<EOR>", "\<DOWN>", "\<UP>", <tokenNames; separator=", ">
];<\n>
<endif>
 <tokens:{public static const <it.name>:int=<it.type>;}; separator="\n">

 // delegates
 <grammar.delegates:
 {g|public var <g.delegateName()>:<g.recognizerName>;}; separator="\n">
 // delegators
 <grammar.delegators:
 {g|public var <g.delegateName()>:<g.recognizerName>;}; separator="\n">

```

```

<last(grammar.delegators):{g|public var gParent:<g.recognizerName>;}>

<scopes:{<if(it.isDynamicGlobalScope)><globalAttributeScope(scope=it)><endif>}>
<@members>
<! WARNING. bug in ST: this is cut-n-paste into Dbg.stg !>
public function <grammar.recognizerName>(<grammar.delegators:{g|<g.delegateName()>:<g.recognizerName>,
}>input:<inputStreamType>, state:RecognizerSharedState = null) {
 super(input, state);
 <cyclicDFAs:cyclicDFACTOR>
 <parserCtorBody()>
 <grammar.directDelegates:
 {g|<g.delegateName()> = new <g.recognizerName>(<trunc(g.delegators):{p|<p.delegateName()>, }>this,
input, this.state);}; separator="\n">
 <grammar.indirectDelegates:{g | <g.delegateName()> = <g.delegator.delegateName()>.<g.delegateName()>;};
separator="\n">
 <last(grammar.delegators):{g|gParent = <g.delegateName()>;}>
}
<@end>

public override function get tokenNames():Array { return
<grammar.composite.rootGrammar.recognizerName>.tokenNames; }
public override function get grammarFileName():String { return "<fileName>"; }

<members>

<rules; separator="\n\n">

<! generate rule/method definitions for imported rules so they
appear to be defined in this recognizer. !>
// Delegated rules
<grammar.delegatedRules:{ruleDescriptor|
 public function
<ruleDescriptor.name>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>):<returnType>> \{
<if(ruleDescriptor.hasReturnValue)>return
<endif><ruleDescriptor.grammar:delegateName()>.<ruleDescriptor.name>(<ruleDescriptor.parameterScope.attributes:{a|<a.name>; separator=", ">}; \}); separator="\n">

<synpreds:{p | <synpred(p)>}>

<cyclicDFAs:cyclicDFA()> <! dump tables for all DFA !>

<bitsets:bitset(name={FOLLOW_<it.name>_in_<it.inName><it.tokenIndex>},
words64=it.bits)>
}
>>

parserCtorBody() ::= <<
<if(memoize)>

```

```

<if(grammar.grammarIsRoot)>
this.state.ruleMemo = new Array(<length(grammar.allImportedRules)>+1);<\n><! index from 1..n !>
<endif>
<endif>
<grammar.delegators:
{g|this.<g.delegateName()> = <g.delegateName()>;}; separator="\n">
>>

parser(grammar, name, scopes, tokens, tokenNames, rules, numRules, bitsets, ASTLabelType="Object",
superClass="Parser", labelType="Token", members={<actions.parser.members>}) ::= <<
<genericParser(inputStreamType="TokenStream", rewriteElementType="Token", ...)>
>>

/** How to generate a tree parser; same as parser except the input
 * stream is a different type.
 */
treeParser(grammar, name, scopes, tokens, tokenNames, globalAction, rules, numRules, bitsets,
labelType={<ASTLabelType>}, ASTLabelType="Object", superClass="TreeParser",
members={<actions.treeparser.members>}, filterMode) ::= <<
<genericParser(inputStreamType="TreeNodeStream", rewriteElementType="Node", ...)>
>>

/** A simpler version of a rule template that is specific to the imaginary
 * rules created for syntactic predicates. As they never have return values
 * nor parameters etc..., just give simplest possible method. Don't do
 * any of the normal memoization stuff in here either; it's a waste.
 * As predicates cannot be inlined into the invoking rule, they need to
 * be in a rule by themselves.
 */
synpredRule(ruleName, ruleDescriptor, block, description, nakedBlock) ::=
<<
// $ANTLR start <ruleName>
public final function <ruleName>_fragment(<ruleDescriptor.parameterScope:parameterScope(scope=it)>):void {
 <ruleLabelDefs()>
<if(trace)>
 traceIn("<ruleName>_fragment", <ruleDescriptor.index>);
 try {
 <block>
 }
 finally {
 traceOut("<ruleName>_fragment", <ruleDescriptor.index>);
 }
<else>
 <block>
<endif>
}
// $ANTLR end <ruleName>
>>

```



```

synpred(name) ::= <<
public final function <name>():Boolean {
 this.state.backtracking++;
 <@start(>
 var start:int = input.mark();
 try {
 <name>_fragment(); // can never throw exception
 } catch (re:RecognitionException) {
 trace("impossible: "+re);
 }
 var success:Boolean = !this.state.failed;
 input.rewindTo(start);
 <@stop(>
 this.state.backtracking--;
 this.state.failed=false;
 return success;
}<\n>
>>

lexerSynpred(name) ::= <<
<synpred(name)>
>>

ruleMemoization(name) ::= <<
<if(memoize)>
if (this.state.backtracking>0 && alreadyParsedRule(input, <ruleDescriptor.index>)) { return <ruleReturnValue(>;
}
<endif>
>>

/** How to test for failure and return from rule */
checkRuleBacktrackFailure() ::= <<
<if(backtracking)>if (this.state.failed) return <ruleReturnValue(>;<endif>
>>

/** This rule has failed, exit indicating failure during backtrack */
ruleBacktrackFailure() ::= <<
<if(backtracking)>if (this.state.backtracking>0) {this.state.failed=true; return <ruleReturnValue(>;}<endif>
>>

/** How to generate code for a rule. This includes any return type
 * data aggregates required for multiple return values.
 */
rule(ruleName,ruleDescriptor,block,emptyRule,description,exceptions,finally,memoize) ::= <<
<ruleAttributeScope(scope=ruleDescriptor.ruleScope)>
// $ANTLR start <ruleName>
// <fileName>:<description>

```

```

public final function <ruleName>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>:<returnType>) {
 <if(trace)>traceIn("<ruleName>", <ruleDescriptor.index>);<endif>
 <ruleScopeSetUp()>
 <ruleDeclarations()>
 <ruleLabelDefs()>
 <ruleDescriptor.actions.init>
 <@preamble()>
 try {
 <ruleMemoization(name=ruleName)>
 <block>
 <ruleCleanUp()>
 <(ruleDescriptor.actions.after):execAction()>
 }
 <if(exceptions)>
 <exceptions:{e|<catch(decl=e.decl,action=e.action)><\n>}>
 <else>
 <if(!emptyRule)>
 <if(actions.(actionScope).rulecatch)>
 <actions.(actionScope).rulecatch>
 <else>
 catch (re:RecognitionException) {
 reportError(re);
 recoverStream(input,re);
 <@setErrorReturnValue()>
 }<\n>
 <endif>
 <endif>
 <endif>
 finally {
 <if(trace)>traceOut("<ruleName>", <ruleDescriptor.index>);<endif>
 <memoize()>
 <ruleScopeCleanUp()>
 <finally>
 }
 <@postamble()>
 return <ruleReturnValue()>;
}
// $ANTLR end <ruleName>
>>

catch(decl,action) ::= <<
catch (<e.decl>) {
 <e.action>
}
>>

ruleDeclarations() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>

```

```

var retval:<returnType()> = new <returnType()>();
retval.start = input.LT(1);<\n>
<else>
<ruleDescriptor.returnScope.attributes:{ a |
var <a.name>:<a.type> = <if(a.initValue)><a.initValue><else><initValue(a.type)><endif>;
}>
<endif>
<if(memoize)>
var <ruleDescriptor.name>_startIndex:int = input.index;
<endif>
>>

ruleScopeSetUp() ::= <<
<ruleDescriptor.useScopes:{<it>_stack.push(new Object());}; separator="\n">
<ruleDescriptor.ruleScope:{<it.name>_stack.push(new Object());}; separator="\n">
>>

ruleScopeCleanUp() ::= <<
<ruleDescriptor.useScopes:{<it>_stack.pop();}; separator="\n">
<ruleDescriptor.ruleScope:{<it.name>_stack.pop();}; separator="\n">
>>

ruleLabelDefs() ::= <<
<[ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels,
ruleDescriptor.wildcardTreeLabels,ruleDescriptor.wildcardTreeListLabels]
:{var <it.label.text>:<labelType>=null;}; separator="\n"
>
<[ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels,ruleDescriptor.wildcardTreeListLabels]
:{var list_<it.label.text>:Array=null;}; separator="\n"
>
<ruleDescriptor.ruleLabels:ruleLabelDef(label=it); separator="\n">
<ruleDescriptor.ruleListLabels:{ll|var <ll.label.text>:RuleReturnScope = null;}; separator="\n">
>>

lexerRuleLabelDefs() ::= <<
<[ruleDescriptor.tokenLabels,
ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleLabels]
:{var <it.label.text>:<labelType>=null;}; separator="\n"
>
<ruleDescriptor.charLabels:{var <it.label.text>:int;}; separator="\n">
<[ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleListLabels]
:{var list_<it.label.text>:Array=null;}; separator="\n"
>
>>

ruleReturnValue() ::= <<

```

```

<if(!ruleDescriptor.isSynPred)>
<if(ruleDescriptor.hasReturnValue)>
<if(ruleDescriptor.hasSingleReturnValue)>
<ruleDescriptor.singleValueReturnName>
<else>
retval
<endif>
<endif>
<endif>
>>

```

```

ruleCleanUp() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<if(!TREE_PARSER)>
retval.stop = input.LT(-1);<\n>
<endif>
<endif>
>>

```

```

memoize() ::= <<
<if(memoize)>
<if(backtracking)>
if (this.state.backtracking>0) { memoize(input, <ruleDescriptor.index>, <ruleDescriptor.name>_StartIndex); }
<endif>
<endif>
>>

```

```

/** How to generate a rule in the lexer; naked blocks are used for
 * fragment rules.
 */

```

```

lexerRule(ruleName,nakedBlock,ruleDescriptor,block,memoize) ::= <<
// $ANTLR start <ruleName>
public final function m<ruleName>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>):void {
 <if(trace)>traceIn("<ruleName>", <ruleDescriptor.index>);<endif>
 <ruleScopeSetUp()>
 <ruleDeclarations()>
 try {
<if(nakedBlock)>
 <ruleMemoization(name=ruleName)>
 <lexerRuleLabelDefs()>
 <ruleDescriptor.actions.init>
 <block><\n>
<else>
 var _type:int = <ruleName>;
 var _channel:int = DEFAULT_TOKEN_CHANNEL;
 <ruleMemoization(name=ruleName)>
 <lexerRuleLabelDefs()>
 <ruleDescriptor.actions.init>

```

```

 <block>
 <ruleCleanUp()>
 this.state.type = _type;
 this.state.channel = _channel;
 <(ruleDescriptor.actions.after):execAction()>
<endif>
}
finally {
 <if(trace)>traceOut("<ruleName>", <ruleDescriptor.index>);<endif>
 <ruleScopeCleanUp()>
 <memoize()>
}
}
// $ANTLR end <ruleName>
>>

```

```

/** How to generate code for the implicitly-defined lexer grammar rule
 * that chooses between lexer rules.
 */

```

```

tokensRule(ruleName,nakedBlock,args,block,ruleDescriptor) ::= <<
public override function mTokens():void {
 <block><\n>
}
>>

```

```

// S U B R U L E S

```

```

/** A (...) subrule with multiple alternatives */

```

```

block(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// <fileName>:<description>
var alt<decisionNumber>:int=<maxAlt>;
<decls>
<@predecision()>
<decision>
<@postdecision()>
<@prebranch()>
switch (alt<decisionNumber>) {
 <alts:altSwitchCase()>
}
<@postbranch()>
>>

```

```

/** A rule block with multiple alternatives */

```

```

ruleBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// <fileName>:<description>
var alt<decisionNumber>:int=<maxAlt>;
<decls>
<@predecision()>

```

```

<decision>
<@postdecision()>
switch (alt<decisionNumber>) {
 <alts:altSwitchCase()>
}
>>

ruleBlockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
// <fileName>:<description>
<decls>
<@prealt()>
<alts>
<@postalt()>
>>

/** A special case of a (...) subrule with a single alternative */
blockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
// <fileName>:<description>
<decls>
<@prealt()>
<alts>
<@postalt()>
>>

/** A (..)+ block with 1 or more alternatives */
positiveClosureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// <fileName>:<description>
var cnt<decisionNumber>:int=0;
<decls>
<@preloop()>
loop<decisionNumber>:
do {
 var alt<decisionNumber>:int=<maxAlt>;
 <@predecision()>
 <decision>
 <@postdecision()>
 switch (alt<decisionNumber>) {
 <alts:altSwitchCase()>
 default :
 if (cnt<decisionNumber> >= 1) break loop<decisionNumber>;
 <ruleBacktrackFailure()>
 throw new EarlyExitException(<decisionNumber>, input);
 <! Need to add support for earlyExitException debug hook !>
 }
 cnt<decisionNumber>++;
} while (true);
<@postloop()>

```

>>

positiveClosureBlockSingleAlt ::= positiveClosureBlock

/\*\* A (.)<sup>\*</sup> block with 1 or more alternatives \*/

closureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::=

<<

// <fileName>:<description>

<decls>

<@preloop()>

loop<decisionNumber>:

do {

  var alt<decisionNumber>:int=<maxAlt>;

  <@predecision()>

  <decision>

  <@postdecision()>

  switch (alt<decisionNumber>) {

  <alts:altSwitchCase()>

  default :

    break loop<decisionNumber>;

  }

  } while (true);

<@postloop()>

>>

closureBlockSingleAlt ::= closureBlock

/\*\* Optional blocks (x)? are translated to (x|) by before code generation

\* so we can just use the normal block template

\*/

optionalBlock ::= block

optionalBlockSingleAlt ::= block

/\*\* A case in a switch that jumps to an alternative given the alternative

\* number. A DFA predicts the alternative and then a simple switch

\* does the jump to the code that actually matches that alternative.

\*/

altSwitchCase() ::= <<

case <i> :

  <@prealt()>

  <it>

  break;<\n>

>>

/\*\* An alternative is just a list of elements; at outermost level \*/

alt(elements,altNum,description,autoAST,outerAlt,treeLevel,rew) ::= <<

// <fileName>:<description>

```

{
<@declarations()>
<elements:element()>
<rew>
<@cleanup()>
}
>>

/** What to emit when there is no rewrite. For auto build
 * mode, does nothing.
 */
noRewrite(rewriteBlockLevel, treeLevel) ::= ""

// E L E M E N T S

/** Dump the elements one per line */
element() ::= <<
<@prematch()>
<it.el><\n>
>>

/** match a token optionally with a label in front */
tokenRef(token,label,elementIndex,hetero) ::= <<
<if(label)><label>=<labelType><(<endif>matchStream(input,<token>,FOLLOW_<token>_in_<ruleName><element
Index>)<if(label)><endif>; <checkRuleBacktrackFailure()>
>>

/** ids+=ID */
tokenRefAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRef(...)>
<listLabel(elem=label,...)>
>>

listLabel(label,elem) ::= <<
if (list_<label>==null) list_<label>=new Array();
list_<label>.push(<elem>);<\n>
>>

/** match a character */
charRef(char,label) ::= <<
<if(label)>
<label> = input.LA(1);<\n>
<endif>
match(<char>); <checkRuleBacktrackFailure()>
>>

/** match a character range */
charRangeRef(a,b,label) ::= <<

```



```

<if(label)>
<label> = input.LA(1);<\n>
<endif>
matchRange(<a>,); <checkRuleBacktrackFailure()>
>>

/** For now, sets are interval tests and must be tested inline */
matchSet(s,label,elementIndex,postmatchCode="") ::= <<
<if(label)>
<if(LEXER)>
<label>= input.LA(1);<\n>
<else>
<label>=<labelType>(input.LT(1));<\n>
<endif>
<endif>
<endif>
if (<s>) {
 input.consume();
 <postmatchCode>
<if(!LEXER)>
 this.state.errorRecovery=false;
<endif>
 <if(backtracking)>this.state.failed=false;<endif>
}
else {
 <ruleBacktrackFailure()>
 <@mismatchedSetException()>
<if(LEXER)>
 throw recover(new MismatchedSetException(null,input));<\n>
<else>
 throw new MismatchedSetException(null,input);
 <! use following code to make it recover inline; remove throw mse;
 recoverFromMismatchedSet(input,mse,FOLLOW_set_in_<ruleName><elementIndex>);
 !>
<endif>
}<\n>
>>

matchRuleBlockSet ::= matchSet

matchSetAndListLabel(s,label,elementIndex,postmatchCode) ::= <<
<matchSet(...)>
<listLabel(elem=label,...)>
>>

/** Match a string literal */
lexerStringRef(string,label) ::= <<
<if(label)>
var <label>Start:int = charIndex;

```

```

matchString(<string>); <checkRuleBacktrackFailure()>
<label> = CommonToken.createFromStream(input, TokenConstants.INVALID_TOKEN_TYPE,
TokenConstants.DEFAULT_CHANNEL, <label>Start, charIndex-1);
<else>
matchString(<string>); <checkRuleBacktrackFailure()><\n>
<endif>
>>

wildcard(label,elementIndex) ::= <<
<if(label)>
<label>=<labelType>(input.LT(1));<\n>
<endif>
matchAny(input); <checkRuleBacktrackFailure()>
>>

wildcardAndListLabel(label,elementIndex) ::= <<
<wildcard(...)>
<listLabel(elem=label,...)>
>>

/** Match . wildcard in lexer */
wildcardChar(label, elementIndex) ::= <<
<if(label)>
<label> = input.LA(1);<\n>
<endif>
matchAny(); <checkRuleBacktrackFailure()>
>>

wildcardCharListLabel(label, elementIndex) ::= <<
<wildcardChar(...)>
<listLabel(elem=label,...)>
>>

/** Match a rule reference by invoking it possibly with arguments
 * and a return value or values. The 'rule' argument was the
 * target rule name, but now is type Rule, whose toString is
 * same: the rule name. Now though you can access full rule
 * descriptor stuff.
 *
 * GMS: Note: do not use post-decrement operator! ASC produces bad code for exceptions in this case.
 * See: https://bugs.adobe.com/jira/browse/ASC-3625
 */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
pushFollow(FOLLOW_<rule.name>_in_<ruleName><elementIndex>);
<if(label)><label>=<endif><if(scope)><scope:delegateName()>.<endif><rule.name>(<args; separator=", ">);<\n>
state._fsp = state._fsp - 1;
<checkRuleBacktrackFailure()>
>>

```

```

/** ids+=r */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>
<listLabel(elem=label,...)>
>>

/** A lexer rule reference.
*
* The 'rule' argument was the target rule name, but now
* is type Rule, whose toString is same: the rule name.
* Now though you can access full rule descriptor stuff.
*/
lexerRuleRef(rule,label,args,elementIndex,scope) ::= <<
<if(label)>
var <label>Start<elementIndex>:int = charIndex;
<if(scope)><scope:delegateName().<endif>m<rule.name>(<args; separator=", ">);
<checkRuleBacktrackFailure()>
<label> = CommonToken.createFromStream(input, TokenConstants.INVALID_TOKEN_TYPE,
TokenConstants.DEFAULT_CHANNEL, <label>Start<elementIndex>, charIndex-1);
<else>
<if(scope)><scope:delegateName().<endif>m<rule.name>(<args; separator=", ">);
<checkRuleBacktrackFailure()>
<endif>
>>

/** i+=INT in lexer */
lexerRuleRefAndListLabel(rule,label,args,elementIndex,scope) ::= <<
<lexerRuleRef(...)>
<listLabel(elem=label,...)>
>>

/** EOF in the lexer */
lexerMatchEOF(label,elementIndex) ::= <<
<if(label)>
var <label>Start<elementIndex>:int = charIndex;
match(EOF); <checkRuleBacktrackFailure()>
var <label>:<labelType> = CommonToken.createFromStream(input, EOF,
TokenConstants.DEFAULT_CHANNEL, <label>Start<elementIndex>, charIndex-1);
<else>
match(EOF); <checkRuleBacktrackFailure()>
<endif>
>>

/** match ^(root children) in tree parser */
tree(root, actionsAfterRoot, children, nullableChildList,
enclosingTreeLevel, treeLevel) ::= <<

```

```

<root:element()>
<actionsAfterRoot:element()>
<if(nullableChildList)>
if (input.LA(1)==TokenConstants.DOWN) {
 matchStream(input, TokenConstants.DOWN, null); <checkRuleBacktrackFailure()>
 <children:element()>
 matchStream(input, TokenConstants.UP, null); <checkRuleBacktrackFailure()>
}
<else>
matchStream(input, TokenConstants.DOWN, null); <checkRuleBacktrackFailure()>
<children:element()>
matchStream(input, TokenConstants.UP, null); <checkRuleBacktrackFailure()>
<endif>
>>

/** Every predicate is used as a validating predicate (even when it is
 * also hoisted into a prediction expression).
 */
validateSemanticPredicate(pred,description) ::= <<
if (!(<evalPredicate(...)>)) {
 <ruleBacktrackFailure()>
 throw new FailedPredicateException(input, "<ruleName>", "<description>");
}
>>

// F i x e d D F A (if-then-else)

dfaState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
var LA<decisionNumber>_<stateNumber>:int = input.LA(<k>);<\n>
<edges; separator="\nelse ">
else {
<if(eotPredictsAlt)>
 alt<decisionNumber>=<eotPredictsAlt>;
<else>
 <ruleBacktrackFailure()>
 throw new NoViableAltException("<description>", <decisionNumber>, <stateNumber>, input);<\n>
 <! Need to add hook for noViableAltException() !>
<endif>
}
>>

/** Same as a normal DFA state except that we don't examine lookahead
 * for the bypass alternative. It delays error detection but this
 * is faster, smaller, and more what people expect. For (X)? people
 * expect "if (LA(1)==X) match(X);" and that's it.
 */
dfaOptionalBlockState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
var LA<decisionNumber>_<stateNumber>:int = input.LA(<k>);<\n>

```

```

<edges; separator="\nelse ">
>>

/** A DFA state that is actually the loopback decision of a closure
 * loop. If end-of-token (EOT) predicts any of the targets then it
 * should act like a default clause (i.e., no error can be generated).
 * This is used only in the lexer so that for ('a')* on the end of a rule
 * anything other than 'a' predicts exiting.
 */
dfaLoopbackState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
var LA<decisionNumber>_<stateNumber>:int = input.LA(<k>);<\n>
<edges; separator="\nelse "><\n>
<if(eotPredictsAlt)>
<if(!edges)>
alt<decisionNumber>=<eotPredictsAlt>; <! if no edges, don't gen ELSE !>
<else>
else {
 alt<decisionNumber>=<eotPredictsAlt>;
}<\n>
<endif>
<endif>
>>

/** An accept state indicates a unique alternative has been predicted */
dfaAcceptState(alt) ::= "alt<decisionNumber>=<alt>";

/** A simple edge with an expression. If the expression is satisfied,
 * enter to the target state. To handle gated productions, we may
 * have to evaluate some predicates for this edge.
 */
dfaEdge(labelExpr, targetState, predicates) ::= <<
if ((<labelExpr> <if(predicates)>&& (<predicates>)<endif>) {
 <targetState>
}
>>

// F i x e d D F A (switch case)

/** A DFA state where a SWITCH may be generated. The code generator
 * decides if this is possible: CodeGenerator.canGenerateSwitch().
 */
dfaStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch (input.LA(<k>)) {
<edges; separator="\n">
default:
<if(eotPredictsAlt)>
 alt<decisionNumber>=<eotPredictsAlt>;
<else>

```

```

 <ruleBacktrackFailure()>
 throw new NoViableAltException("<description>", <decisionNumber>, <stateNumber>, input);<\n>
 <! Need to add hook for noViableAltException !>
<endif>
}<\n>
>>

```

```

dfaOptionalBlockStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch (input.LA(<k>)) {
 <edges; separator="\n">
}<\n>
>>

```

```

dfaLoopbackStateSwitch(k, edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch (input.LA(<k>)) {
<edges; separator="\n"><\n>
<if(eotPredictsAlt)>
default:
 alt<decisionNumber>=<eotPredictsAlt>;
 break;<\n>
<endif>
}<\n>
>>

```

```

dfaEdgeSwitch(labels, targetState) ::= <<
<labels: { case <it>:}; separator="\n">
{
 <targetState>
}
break;
>>

```

// C y c l i c D F A

```

/** The code to initiate execution of a cyclic DFA; this is used
 * in the rule to predict an alt just like the fixed DFA case.
 * The <name> attribute is inherited via the parser, lexer, ...
 */
dfaDecision(decisionNumber,description) ::= <<
alt<decisionNumber> = dfa<decisionNumber>.predict(input);
>>

```

```

cyclicDFActor(dfa) ::= <<

```

```

 dfa<dfa.decisionNumber> = new DFA(this, <dfa.decisionNumber>,
 "<dfa.description>",
 DFA<dfa.decisionNumber>_eot, DFA<dfa.decisionNumber>_eof, DFA<dfa.decisionNumber>_min,
 DFA<dfa.decisionNumber>_max, DFA<dfa.decisionNumber>_accept, DFA<dfa.decisionNumber>_special,

```

```

 DFA<dfa.decisionNumber>_transition<if(dfa.specialStateSTs)>,
DFA<dfa.decisionNumber>_specialStateTransition<endif>);

>>
/* Dump DFA tables as run-length-encoded Strings of octal values.
* Can't use hex as compiler translates them before compilation.
* These strings are split into multiple, concatenated strings.
* Java puts them back together at compile time thankfully.
* Java cannot handle large static arrays, so we're stuck with this
* encode/decode approach. See analysis and runtime DFA for
* the encoding methods.
*/
cyclicDFA(dfa) ::= <<

private const DFA<dfa.decisionNumber>_eot:Array =
 DFA.unpackEncodedString("<dfa.javaCompressedEOT; wrap=\"\"+\n \>");
private const DFA<dfa.decisionNumber>_eof:Array =
 DFA.unpackEncodedString("<dfa.javaCompressedEOF; wrap=\"\"+\n \>");
private const DFA<dfa.decisionNumber>_min:Array =
 DFA.unpackEncodedString("<dfa.javaCompressedMin; wrap=\"\"+\n \>", true);
private const DFA<dfa.decisionNumber>_max:Array =
 DFA.unpackEncodedString("<dfa.javaCompressedMax; wrap=\"\"+\n \>", true);
private const DFA<dfa.decisionNumber>_accept:Array =
 DFA.unpackEncodedString("<dfa.javaCompressedAccept; wrap=\"\"+\n \>");
private const DFA<dfa.decisionNumber>_special:Array =
 DFA.unpackEncodedString("<dfa.javaCompressedSpecial; wrap=\"\"+\n \>");
private const DFA<dfa.decisionNumber>_transition:Array = [
 <dfa.javaCompressedTransition: {s|DFA.unpackEncodedString("<s; wrap=\"\"+\n\>")}; separator=",\n">
];
<if(dfa.specialStateSTs)>
private function DFA<dfa.decisionNumber>_specialStateTransition(dfa:DFA, s:int, _input:InputStream):int {
 <if(LEXER)>
 var input:InputStream = _input;
 <endif>
 <if(PARSER)>
 var input:TokenStream = TokenStream(_input);
 <endif>
 <if(TREE_PARSER)>
 var input:TreeNodeStream = TreeNodeStream(_input);
 <endif>
 var _s:int = s;
 switch (s) {
 <dfa.specialStateSTs:{state |
 case <i0> : <! compressed special state numbers 0..n-1 !>
 <state>}; separator="\n">
 }
<if(backtracking)>
 if (this.state.backtracking>0) {this.state.failed=true; return -1;}<\n>

```

```

<endif>
 throw dfa.error(new NoViableAltException(dfa.description, <dfa.decisionNumber>, _s, input));
} <\n>
<endif>

```

```
protected var dfa<dfa.decisionNumber>:DFA; // initialized in constructor
```

```
>>
```

```

/** A state in a cyclic DFA; it's a special state and part of a big switch on
 * state.
 */

```

```
cyclicDFAState(decisionNumber,stateNumber,edges,needErrorClause,semPredState) ::= <<
```

```
var LA<decisionNumber>_<stateNumber>:int = input.LA(1);<\n>
```

```
<if(semPredState)> <! get next lookahead symbol to test edges, then rewind !>
```

```
var index<decisionNumber>_<stateNumber>:int = input.index;
```

```
input.rewind();<\n>
```

```
<endif>
```

```
s = -1;
```

```
<edges; separator="\nelse ">
```

```
<if(semPredState)> <! return input cursor to state before we rewound !>
```

```
input.seek(index<decisionNumber>_<stateNumber>);<\n>
```

```
<endif>
```

```
if (s>=0) return s;
```

```
break;
```

```
>>
```

```

/** Just like a fixed DFA edge, test the lookahead and indicate what
 * state to jump to next if successful.
 */

```

```

*/

```

```
cyclicDFAEdge(labelExpr, targetStateNumber, edgeNumber, predicates) ::= <<
```

```
if ((<labelExpr> <if(predicates)>&& (<predicates>)<endif>) { s = <targetStateNumber>;}<\n>
```

```
>>
```

```

/** An edge pointing at end-of-token; essentially matches any char;
 * always jump to the target.
 */

```

```

*/

```

```
eotDFAEdge(targetStateNumber,edgeNumber, predicates) ::= <<
```

```
s = <targetStateNumber>;<\n>
```

```
>>
```

```
// D F A E X P R E S S I O N S
```

```
andPredicates(left,right) ::= "(<left>&&<right>)"
```

```
orPredicates(operands) ::= "(<first(operands)><rest(operands):{ o | ||<o> }>)"
```



```

notPredicate(pred) ::= "!(<evalPredicate(...)>)"

evalPredicate(pred,description) ::= "<pred>"

evalSynPredicate(pred,description) ::= "<pred>()"

lookaheadTest(atom,k,atomAsInt) ::= "LA<decisionNumber>_<stateNumber>===<atomAsInt>"

/** Sometimes a lookahead test cannot assume that LA(k) is in a temp variable
 * somewhere. Must ask for the lookahead directly.
 */
isolatedLookaheadTest(atom,k,atomAsInt) ::= "input.LA(<k>)==<atomAsInt>"

lookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= <<
(LA<decisionNumber>_<stateNumber>|>=<lowerAsInt> &&
LA<decisionNumber>_<stateNumber>|<=<upperAsInt>)
>>

isolatedLookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::=
"(input.LA(<k>)|>=<lowerAsInt> && input.LA(<k>)|<=<upperAsInt>)"

setTest(ranges) ::= "<ranges; separator=\\\"|\\\">"

// A T T R I B U T E S

globalAttributeScope(scope) ::= <<
<if(scope.attributes)>
protected var <scope.name>_stack:Array = new Array();<\n>
<endif>
>>

ruleAttributeScope(scope) ::= <<
<if(scope.attributes)>
protected var <scope.name>_stack:Array = new Array();<\n>
<endif>
>>

returnStructName() ::= "<if(TREE_PARSER)>Tree<else>Parser<endif>RuleReturnScope"

returnType() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<returnStructName()>
<else>
<if(ruleDescriptor.hasSingleReturnValue)>
<ruleDescriptor.singleValueReturnType>
<else>
void
<endif>

```

```

<endif>
>>

/** Generate the Java type associated with a single or multiple return
 * values.
 */
ruleLabelType(referencedRule) ::= <<
<if(referencedRule.hasMultipleReturnValues)>
<returnStructName()>
<else>
<if(referencedRule.hasSingleReturnValue)>
<referencedRule.singleValueType>
<else>
void
<endif>
<endif>
<endif>
>>

delegateName() ::= <<
<if(it.label)><it.label><else>g<it.name><endif>
>>

/** Using a type to init value map, try to init a type; if not in table
 * must be an object, default value is "null".
 */
initValue(typeName) ::= <<
<asTypeInitMap.(typeName)>
>>

/** Define a rule label including default value */
ruleLabelDef(label) ::= <<
var <label.label.text>:<ruleLabelType(referencedRule=label.referencedRule)> =
<initValue(typeName=ruleLabelType(referencedRule=label.referencedRule))>;<\n>
>>

/** Define a return struct for a rule if the code needs to access its
 * start/stop tokens, tree stuff, attributes, ... Leave a hole for
 * subgroups to stick in members.
 */
returnScope(scope) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
public static class <returnType()> extends <if(TREE_PARSER)>Tree<else>Parser<endif>RuleReturnScope {
 <scope.attributes:{public <it.decl>;}; separator="\n">
 <@ruleReturnMembers()>
};
<endif>
>>

```

```

parameterScope(scope) ::= <<
<scope.attributes:{<it.name>:<it.type>}; separator=", ">
>>

parameterAttributeRef(attr) ::= "<attr.name>"
parameterSetAttributeRef(attr,expr) ::= "<attr.name> =<expr>";

scopeAttributeRef(scope,attr,index,negIndex) ::= <<
<if(negIndex)>
<scope>_stack[<scope>_stack.length-<negIndex>-1].<attr.name>
<else>
<if(index)>
<scope>_stack[<index>].<attr.name>
<else>
<scope>_stack[<scope>_stack.length-1].<attr.name>
<endif>
<endif>
>>

scopeSetAttributeRef(scope,attr,expr,index,negIndex) ::= <<
<if(negIndex)>
<scope>_stack[<scope>_stack.length-<negIndex>-1].<attr.name> =<expr>;
<else>
<if(index)>
<scope>_stack[<index>].<attr.name> =<expr>;
<else>
<scope>_stack[<scope>_stack.length-1].<attr.name> =<expr>;
<endif>
<endif>
>>

/** $x is either global scope or x is rule with dynamic scope; refers
 * to stack itself not top of stack. This is useful for predicates
 * like {function.size()>0 && function::name.equals("foo")}?
 */
isolatedDynamicScopeRef(scope) ::= "<scope>_stack"

/** reference an attribute of rule; might only have single return value */
ruleLabelRef(referencedRule,scope,attr) ::= <<
<if(referencedRule.hasMultipleReturnValues)>
(<scope>!=null?<scope>.values.<attr.name>:<initValue(attr.type)>)
<else>
<scope>
<endif>
>>

returnAttributeRef(ruleDescriptor,attr) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>

```

```

retval.values.<attr.name>
<else>
<attr.name>
<endif>
>>

returnSetAttributeRef(ruleDescriptor,attr,expr) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
retval.values.<attr.name> =<expr>;
<else>
<attr.name> =<expr>;
<endif>
>>

/** How to translate $tokenLabel */
tokenLabelRef(label) ::= "<label>"

/** ids+=ID {$ids} or e+=expr {$e} */
listLabelRef(label) ::= "list_<label>"

// not sure the next are the right approach

tokenLabelPropertyRef_text(scope,attr) ::= "<scope>!=null?<scope>.text:null)"
tokenLabelPropertyRef_type(scope,attr) ::= "<scope>!=null?<scope>.type:0)"
tokenLabelPropertyRef_line(scope,attr) ::= "<scope>!=null?<scope>.line:0)"
tokenLabelPropertyRef_pos(scope,attr) ::= "<scope>!=null?<scope>.charPositionInLine:0)"
tokenLabelPropertyRef_channel(scope,attr) ::= "<scope>!=null?<scope>.channel:0)"
tokenLabelPropertyRef_index(scope,attr) ::= "<scope>!=null?<scope>.tokenIndex:0)"
tokenLabelPropertyRef_tree(scope,attr) ::= "<scope>_tree"
tokenLabelPropertyRef_int(scope,attr) ::= "<scope>!=null?int(<scope>.text):0)"

ruleLabelPropertyRef_start(scope,attr) ::= "<scope>!=null?<labelType><scope>.start:null)"
ruleLabelPropertyRef_stop(scope,attr) ::= "<scope>!=null?<labelType><scope>.stop:null)"
ruleLabelPropertyRef_tree(scope,attr) ::= "<scope>!=null?<ASTLabelType><scope>.tree:null)"
ruleLabelPropertyRef_text(scope,attr) ::= <<
<if(TREE_PARSER)>
<scope>!=null?(input.tokenStream.toStringWithRange(
input.treeAdaptor.getTokenStartIndex(<scope>.start),
input.treeAdaptor.getTokenStopIndex(<scope>.start)):null)
<else>
<scope>!=null?input.toStringWithRange(<scope>.start,<scope>.stop):null)
<endif>
>>

ruleLabelPropertyRef_st(scope,attr) ::= "<scope>!=null?<scope>.st:null)"

/** Isolated $RULE ref ok in lexer as it's a Token */

```

```

lexerRuleLabel(label) ::= "<label>"

lexerRuleLabelPropertyRef_type(scope,attr) ::=
 "<scope>!=null?<scope>.type:0)"
lexerRuleLabelPropertyRef_line(scope,attr) ::=
 "<scope>!=null?<scope>.lien:0)"
lexerRuleLabelPropertyRef_pos(scope,attr) ::=
 "<scope>!=null?<scope>.charPositionInLine:0)"
lexerRuleLabelPropertyRef_channel(scope,attr) ::=
 "<scope>!=null?<scope>.channel:0)"
lexerRuleLabelPropertyRef_index(scope,attr) ::=
 "<scope>!=null?<scope>.tokenIndex:0)"
lexerRuleLabelPropertyRef_text(scope,attr) ::=
 "<scope>!=null?<scope>.text:null)"
lexerRuleLabelPropertyRef_int(scope,attr) ::=
 "<scope>!=null?int(<scope>.text):0)"

// Somebody may ref $template or $tree or $stop within a rule:
rulePropertyRef_start(scope,attr) ::= "<labelType>(retval.start)"
rulePropertyRef_stop(scope,attr) ::= "<labelType>(retval.stop)"
rulePropertyRef_tree(scope,attr) ::= "<ASTLabelType>(retval.tree)"
rulePropertyRef_text(scope,attr) ::= <<
<if(TREE_PARSER)>
input.tokenStream.toStringWithRange(
 input.treeAdaptor.getTokenStartIndex(retval.start),
 input.treeAdaptor.getTokenStopIndex(retval.start))
<else>
input.toStringWithRange(retval.start,input.LT(-1))
<endif>
>>
rulePropertyRef_st(scope,attr) ::= "retval.st"

lexerRulePropertyRef_text(scope,attr) ::= "text"
lexerRulePropertyRef_type(scope,attr) ::= "_type"
lexerRulePropertyRef_line(scope,attr) ::= "state.tokenStartLine"
lexerRulePropertyRef_pos(scope,attr) ::= "state.tokenStartCharPositionInLine"
lexerRulePropertyRef_index(scope,attr) ::= "-1" // undefined token index in lexer
lexerRulePropertyRef_channel(scope,attr) ::= "_channel"
lexerRulePropertyRef_start(scope,attr) ::= "state.tokenStartCharIndex"
lexerRulePropertyRef_stop(scope,attr) ::= "(charIndex-1)"
lexerRulePropertyRef_int(scope,attr) ::= "int(<scope>.text)"

// setting $st and $tree is allowed in local rule. everything else
// is flagged as error
ruleSetPropertyRef_tree(scope,attr,expr) ::= "retval.tree =<expr>;"
ruleSetPropertyRef_st(scope,attr,expr) ::= "retval.st =<expr>;"

/** How to execute an action (only when not backtracking) */

```

```

execAction(action) ::= <<
<if(backtracking)>
if (<actions.(actionScope).synpredgate>) {
 <action>
}
<else>
<action>
<endif>
>>

/** How to always execute an action even when backtracking */
execForcedAction(action) ::= "<action>"

// M I S C (properties, etc...)

bitset(name, words64) ::= <<
public static const <name>:BitSet = new BitSet([<words64:{<it>};separator=", ">]);<\n>
>>

codeFileExtension() ::= ".as"

true() ::= "true"
false() ::= "false"

Found in path(s):
* /opt/cola/permits/1204005060_1631853129.56/0/antlr-3-1-3-sources-4-
jar/org/antlr/codegen/templates/ActionScript/ActionScript.stg
No license file was found, but licenses were detected in source scan.

/*
[The "BSD license"]
Copyright (c) 2006 Martin Traverso
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```

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\*/

```
group Ruby implements ANTLRCore;
```

```
/** The overall file structure of a recognizer; stores methods for rules
 * and cyclic DFAs plus support code.
```

```
*/
```

```
outputFile(LEXER,PARSER,TREE_PARSER, actionScope, actions,
 docComment, recognizer, name, tokens, tokenNames, rules,
 cyclicDFAs, bitsets, buildTemplate, buildAST, rewriteMode, profile,
 backtracking, synpreds, memoize, numRules,
 fileName, ANTLRVersion, generatedTimestamp, trace,
 scopes, superClass, literals) ::=
```

```
<<
```

```
<name> (<fileName>)
```

```
Generated by ANTLR <ANTLRVersion> on <generatedTimestamp>
```

```
<docComment>
```

```
<recognizer>
```

```
>>
```

```
/**
```

```
 * Inherits parameters from outputFile(...)
```

```
 *
```

```
 * labelType is not used for Ruby (no explicit type declarations)
```

```
*/
```

```
lexer(grammar, name, tokens, scopes, rules, numRules, labelType, filterMode,
 superClass) ::=
```

```
<<
```

```
class <name>
```

```
 require 'stringio'
```

```
<tokens:{<it.name>=<it.type>}; separator="\n">
```

```
 def initialize(input)
```

```
 input = StringIO.new(input) if input.respond_to?(:to_str)
```

```
 @input = CharStream.new(input)
```

```
 @backtracking = 0
```

```
 @failed = false
```

```
 <actions.lexer.init>
```

```

end

def next_token
 # TODO: catch exceptions
 @token = nil
 @channel = nil
 @text = nil

 @start = @input.index
 @line = @input.line
 @pos = @input.column

 @type = nil
 @type_int = nil

 return :EOF if <LA(1)> == :EOF

 match_Tokens()

 if @token == nil
 @text ||= @input.substring(@start, @input.index - 1)
 @token = Token.new(@type, @type_int, @line, @pos, @text, @channel)
 end

 <if(trace)>
 puts @token.inspect
 <endif>
 return @token
end

class Token
 attr_reader :token_type
 attr_reader :int_type
 attr_reader :line
 attr_reader :pos
 attr_reader :text
 attr_reader :channel

 def initialize(token_type, int_type, line, pos, text, channel = nil)
 @token_type = token_type
 @int_type = int_type
 @line = line
 @pos = pos
 @text = text
 @channel = channel
 end

 alias :to_i :int_type

```



end

<actions.lexer.members>

private

class CharStream

attr\_reader :line

attr\_reader :column

attr\_reader :index

def initialize(input)

@buffer = ""

@input = input

@line = 1

@column = 0

@index = 0;

end

# returns a Fixnum between 0 and 0xFFFF or :EOF

def look\_ahead(pos)

offset = @index + pos - 1

if @buffer.length < offset + 1

char = @input.read(offset + 1 - @buffer.length)

@buffer <<< char if not char.nil?

end

if offset < @buffer.length

@buffer[offset]

else

:EOF

end

end

def mark

@state = { :index => @index, :line => @line, :column => @column }

return 0

end

def rewind(marker)

@index = @state[:index]

@line = @state[:line]

@column = @state[:column]

end

def consume

look\_ahead(1) # force a read from the input if necessary

```

 @column = @column + 1
 if @buffer[@index] == ?\n
 @line = @line + 1
 @column = 0
 end
 @index = @index + 1
 end

 def substring(start, stop)
 @buffer.slice(start, stop - start + 1)
 end
end

def match(value = nil)
 @failed = false
 case
 when value.nil?
 @input.consume()
 when value.respond_to?(:to_str)
 catch(:done) do
 value.each_byte do |c|
 @failed ||= !(<isolatedLookaheadTest(atom="c", k=1)>)
 @input.consume() if !@failed
 throw :done if @failed
 end
 end
 else
 @failed = !(<isolatedLookaheadTest(atom="value", k=1)>)
 @input.consume() if !@failed
 end
end

if @failed && @backtracking \<= 0
 raise "Expected #{value.respond_to?(:chr) ? value.chr : value}"
end

def match_range(from, to)
 char = <LA(1)>

 if char != :EOF && (char \>= from || char \<= to)
 @failed = false
 match()
 elsif @backtracking > 0
 @failed = true
 else
 raise "Expected [#{from.chr}..#{to.chr}]"
 end
end

```

```

end

<rules; separator="\n\n">

<synpreds: synpred(); separator="\n\n">

<dfaClass()>
 <cyclicDFAs: cyclicDFA()>
end
>>

parser(grammar, name, scopes, tokens, tokenNames, rules, numRules,
 bitsets, ASTLabelType, superClass,
 labelType, members) ::=
<<
require '<grammar.name>Lexer'

class <name>
 attr_reader :lexer

 TOKENS = [
 <tokenNames: {[<it>, <i>]}; separator=",\n">
].inject({}) { |hash, pair|
 name = pair[0]
 index = pair[1] + 3 # hardcoded for now... no way to get this value from ANTLR

 if name[0] == '?'
 hash["T#{index}"] = index
 else
 hash["#{name}"] = index
 end

 hash
 }

 TOKENS[:EOF] = -1

 def initialize(input)
 if input.respond_to?(:to_str) || input.respond_to?(:read)
 input = <grammar.name>Lexer.new(input)
 end

 @lexer = input
 @input = TokenStream.new(input)
 @backtracking = 0
 @failed = false

 <actions.parser.init>

```

```

<if(trace)>
 @indent = 0
<endif>
end

<rules; separator="\n\n">

<actions.parser.members>

private

class TokenStream
 attr_reader :index

 def initialize(input)
 @buffer = []
 @input = input
 @channel = nil

 @index = 0;
 end

 # returns a Token
 def look_ahead(pos)
 offset = @index + pos - 1

 while @buffer[-1] != :EOF && @buffer.length \< offset + 1
 token = @input.next_token
 if token == :EOF || token.channel == @channel
 @buffer \<< token
 end
 end

 offset = -1 if offset >= @buffer.length
 if offset \< @buffer.length
 @buffer[offset]
 end
 end

 def mark
 @state = { :index => @index }
 return 0
 end

 def rewind(marker)
 @index = @state[:index]
 end
end

```

```

def consume
 look_ahead(1) # force a read from the input if necessary
 @index = @index + 1
end

def match(token = nil)
 if token.nil? || <LA(1)> == token
 @input.consume
 @failed = false
 return
 elsif @backtracking > 0
 @failed = true
 else
 raise "Expected #{token}"
 end
end

def look_ahead(k)
 token = @input.look_ahead(k)
 if token != :EOF
 token = token.token_type
 end

 token
end

<synpreds: synpred(); separator="\n\n">

<dfaClass()>
 <cyclicDFAs: cyclicDFA()>
end
>>

/** How to generate a tree parser; same as parser except the input
 * stream is a different type.
 */
treeParser(grammar, name, scopes, tokens, tokenNames, globalAction, rules,
 numRules, bitsets, labelType, ASTLabelType,
 superClass, members) ::=
<<
 raise "treeParser not implemented"
>>

/** A simpler version of a rule template that is specific to the imaginary
 * rules created for syntactic predicates. As they never have return values
 * nor parameters etc..., just give simplest possible method. Don't do

```

```

* any of the normal memoization stuff in here either; it's a waste.
* As predicates cannot be inlined into the invoking rule, they need to
* be in a rule by themselves.
*/
synpredRule(ruleName, ruleDescriptor, block, description, nakedBlock) ::=
<<
<description>
def <ruleName>_fragment
 <block>
end
>>

/** How to generate code for a rule. This includes any return type
* data aggregates required for multiple return values.
*/
rule(ruleName,ruleDescriptor,block,emptyRule,description,exceptions,finally,memoize) ::=
<<
<description>
def <ruleName>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>)
 <ruleDescriptor.returnScope.attributes:
 { _retval_<it.name> = nil }; separator = "\n"
 >
 <ruleLabelDefs()>

 <if(trace)>
 puts " " * @indent + "+<ruleName>"
 @indent += 1
 <endif>

 <ruleDescriptor.actions.init>

 <block>

 <if(trace)>
 @indent -= 1
 puts " " * @indent + "-<ruleName>"
 <endif>

 <if(!ruleDescriptor.isSynPred)>
 <if(ruleDescriptor.hasReturnValue)>
 <if(ruleDescriptor.hasMultipleReturnValues)>
 return {<ruleDescriptor.returnScope.attributes:{ a | :<a.name> => _retval_<a.name> }; separator = ","}>
 # TODO: need "Attribute.index" for this to work: return <ruleDescriptor.returnScope.attributes:{ a |
 retval<a.name> }; separator = ",">
 <else>
 return _retval_<ruleDescriptor.singleValueReturnName>
 <endif>

```

```

 <endif>
 <endif>
end
>>

ruleLabelDefs() ::= <<
<ruleDescriptor.tokenLabels :{<it.label.text> = nil}; separator="\n">
<[ruleDescriptor.tokenListLabels, ruleDescriptor.ruleListLabels]
 :{list_<it.label.text> = nil}; separator="\n"
>
>>

/** How to generate a rule in the lexer; naked blocks are used for
 * fragment rules.
 */
lexerRule(ruleName,nakedBlock,ruleDescriptor,block,memoize) ::=
<<
def match_<ruleName>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>)
 <ruleDescriptor.actions.init>

 <lexerRuleLabelDefs()>
 <if(nakedBlock)>
 <block><\n>
 <else>
 @type = :<ruleName>
 @type_int = <ruleName>
 <block>
 <endif>
end
>>

lexerRuleLabelDefs() ::= <<
<[ruleDescriptor.tokenLabels, ruleDescriptor.ruleLabels]
 :{<it.label.text> = nil}; separator="\n"
>
<ruleDescriptor.charLabels:{<it.label.text> = nil}; separator="\n">
<[ruleDescriptor.tokenListLabels, ruleDescriptor.ruleListLabels]
 :{list_<it.label.text> = nil}; separator="\n"
>
>>

/** How to generate code for the implicitly-defined lexer grammar rule
 * that chooses between lexer rules.
 */
tokensRule(ruleName,nakedBlock,args,block,ruleDescriptor) ::=

```

```

<<
<lexerRule(...)>
>>

filteringNextToken() ::=
<<
 raise "filteringNextToken not implemented"
>>

filteringActionGate() ::=
<<
 raise "filteringActionGate not implemented"
>>

// S U B R U L E S

/** A (...) subrule with multiple alternatives */
block(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::=
<<
<switchBlock(...)>
>>

/** A rule block with multiple alternatives */
ruleBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::=
<<
<switchBlock(...)>
>>

/**
 * decision, decisionNumber don't seem to be relevant in this template
 * alts actually has a single element
 */
ruleBlockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::=
<<
<plainBlock(...)>
>>

/** A special case of a (...) subrule with a single alternative */
blockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::=
<<
<plainBlock(...)>
>>

/** A (..)+ block with 0 or more alternatives */
positiveClosureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::=
<<

```



```

<description>
matchedOnce<decisionNumber> = false
<decls>
while true
 alt<decisionNumber> = <maxAlt>
 <decision>
 case alt<decisionNumber>
 <alts:switchCase(); separator="\n">
 else
 break
 end
 matchedOnce<decisionNumber> = true
end

if !matchedOnce<decisionNumber>
 raise "Expected at least one match: <description>"
end
>>

positiveClosureBlockSingleAlt ::= positiveClosureBlock

/** A (..)* block with 0 or more alternatives */
closureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::=
<<
<description>
<decls>
while true
 alt<decisionNumber> = <maxAlt>
 <decision>
 case alt<decisionNumber>
 <alts:switchCase(); separator="\n">
 else
 break
 end
end
end
>>

closureBlockSingleAlt ::= closureBlock

/** Optional blocks (x)? are translated to (x|) by before code generation
 * so we can just use the normal block template
 */
optionalBlock ::= block

optionalBlockSingleAlt ::= block

/** An alternative is just a list of elements; at outermost level */

```

```

alt(elements,altNum,description,autoAST,outerAlt,treeLevel,rew) ::=
<<
<description>
<elements: element(); separator="\n">
>>

// E L E M E N T S

/** match a token optionally with a label in front */
tokenRef(token,label,elementIndex,hetero) ::=
<<
<if(label)>
_<label> = @input.look_ahead(1)<\n>
<endif>
match(<token>)
>>

/** ids+=ID */
tokenRefAndListLabel(token,label,elementIndex,hetero) ::=
<<
<tokenRef(...)>
<listLabel(elem=label, ...)>
>>

listLabel(label,elem)::=
<<
list_<label> ||= []
list_<label> \<\< _<elem>
>>

/** match a character */
charRef(char,label)::=
<<
<if(label)>
_<label> = <char><\n>
<endif>
match(<char>)
>>

/** match a character range */
charRangeRef(a,b,label)::=
<<
<if(label)>
_<label> = <LA(1)><\n>
<endif>
match_range(<a>,)
>>

```

```

/** For now, sets are interval tests and must be tested inline */
matchSet(s,label,elementIndex,postmatchCode)::=
<<
<if(label)>
_<label> = <LA(1)><\n>
<endif>
if <s>
 match()
 <postmatchCode>
else
 raise "Expected set"
end
>>

matchSetAndListLabel(s,label,elementIndex,postmatchCode)::=
<<
<matchSet(...)>
<listLabel(elem=label,...)>
>>

/** Match a string literal */
lexerStringRef(string,label)::=
<<
<if(label)>
_<label> = <string><\n>
<endif>
match(<string>)<\n>
>>

wildcard(label, elementIndex)::=
<<
<if(label)>
_<label> = <LA(1)><\n>
<endif>
match()
>>

wildcardAndListLabel(label,elementIndex)::=
<<
<wildcard(...)>
<listLabel(elem=label,...)>
>>

/** Match . wildcard in lexer */
wildcardChar(label, elementIndex)::=

```

```

<<
<if(label)>
 _<label> = <LA(1)><\n>
<endif>
match()
>>

```

```

wildcardCharListLabel(label, elementIndex)::=
<<
 raise "wildcardCharListLabel not implemented"
>>

```

```

/** Match a rule reference by invoking it possibly with arguments
 * and a return value or values.
 */

```

```

ruleRef(rule,label,elementIndex,args,scope) ::=
<<
<if(label)>
 _<label> = <rule>(<args; separator=","><\n>
<else>
<rule>(<args; separator=","><\n>
<endif>
>>

```

```

/** ids+=ID */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::=
<<
<ruleRef(...)>
<listLabel(elem=label,...)>
>>

```

```

/**

```

```

A: b=B;
B: .;

```

TODO: Should we use a real token type instead of :invalid? How do we get it?

```

*/
lexerRuleRef(rule,label,args,elementIndex,scope)::=
<<
<if(label)>
 _<label>_start_<elementIndex> = @input.index
 _<label>_line_<elementIndex> = @input.line
 _<label>_pos_<elementIndex> = @input.column
 match_<rule>(<args; separator=",">)
 _<label> = Token.new(:invalid, 0,

```

```

 _<label>_line_<elementIndex>,
 _<label>_pos_<elementIndex>,
 @input.substring(_<label>_start_<elementIndex>, @input.index - 1), nil)
<else>
match_<rule><(args; separator=", ">
<endif>
>>

```

```

lexerRuleRefAndListLabel(rule,label,args,elementIndex,scope) ::=
<<
<lexerRuleRef(...)>
<listLabel(elem=label,...)>
>>

```

```

/** EOF in the lexer */
lexerMatchEOF(label,elementIndex)::=
<<
<if(label)>
_<label> = :EOF<\n>
<endif>
match(:EOF)
>>

```

```

/** match ^(root children) in tree parser */
tree(root, actionsAfterRoot, children, nullableChildList, enclosingTreeLevel,
treeLevel) ::=
<<
raise "tree not implemented"
>>

```

```

/** Every predicate is used as a validating predicate (even when it is
* also hoisted into a prediction expression).
*/
validateSemanticPredicate(pred,description)::=
<<
<description>
if !<evalPredicate(...)>
raise "Semantic predicate failed: #{<description>}"
end
>>

```

```

// F i x e d D F A (if-then-else)

```

```

dfaState(k,edges,eotPredictsAlt,description,stateNumber,semPredState)::=
<<
<description>
look_ahead<decisionNumber>_<stateNumber> = <LA(k)>

```

```

<if(LEXER)>
look_ahead<decisionNumber>_<stateNumber> = -1 if look_ahead<decisionNumber>_<stateNumber> == :EOF
<endif>

if <edges; separator="\nelsif ">
else
<if(eotPredictsAlt)>
 alt<decisionNumber> = <eotPredictsAlt><\n>
<else>
 raise "Expected: <description>"<\n>
<endif>
end
>>

/** Same as a normal DFA state except that we don't examine lookahead
 * for the bypass alternative. It delays error detection but this
 * is faster, smaller, and more what people expect. For (X)? people
 * expect "if (LA(1)==X) match(X);" and that's it.
 *
 * If a semPredState, don't force lookahead lookup; preds might not
 * need.
 */
dfaOptionalBlockState(k,edges,eotPredictsAlt,description,stateNumber,semPredState)::=
<<
<description>
look_ahead<decisionNumber>_<stateNumber> = <LA(k)>

<if(LEXER)>
look_ahead<decisionNumber>_<stateNumber> = -1 if look_ahead<decisionNumber>_<stateNumber> == :EOF
<endif>

if <edges; separator="\nelsif ">
end
>>

/** A DFA state that is actually the loopback decision of a closure
 * loop. If end-of-token (EOT) predicts any of the targets then it
 * should act like a default clause (i.e., no error can be generated).
 * This is used only in the lexer so that for ('a')* on the end of a
 * rule anything other than 'a' predicts exiting.
 *
 * If a semPredState, don't force lookahead lookup; preds might not
 * need.
 */
dfaLoopbackState(k,edges,eotPredictsAlt,description,stateNumber,semPredState)::=
<<
<description>

```

```

look_ahead<decisionNumber>_<stateNumber> = <LA(k)>
<if(LEXER)>
look_ahead<decisionNumber>_<stateNumber> = -1 if look_ahead<decisionNumber>_<stateNumber> == :EOF
<endif>

if <edges; separator="\nelseif ">
<if(eotPredictsAlt)>
else
 alt<decisionNumber> = <eotPredictsAlt>
<endif>
end
>>

/** An accept state indicates a unique alternative has been predicted */
/** It is not clear that decisionNumber is available here */
dfaAcceptState(alt) ::= "alt<decisionNumber> = <alt>"

/** A simple edge with an expression. If the expression is satisfied,
* enter to the target state. To handle gated productions, we may
* have to evaluate some predicates for this edge.
*/
dfaEdge(labelExpr, targetState, predicates)::=
<<
<labelExpr> <if(predicates)>&& <predicates><endif>
 <targetState>
>>

// F i x e d D F A (switch case)

/** A DFA state where a SWITCH may be generated. The code generator
* decides if this is possible: CodeGenerator.canGenerateSwitch().
*/
dfaStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState)::=
<<
<description>
case <LA(k)>
 <edges; separator="\n">
 else
 <if(eotPredictsAlt)>
 alt<decisionNumber> = <eotPredictsAlt><\n>
 <else>
 raise "Expected: <description>"<\n>
 <endif>
 end
>>

/**

```

```

* eotPredictsAlt is not relevant here
*/
dfaOptionalBlockStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState)::=
<<
<description>
case <LA(k)>
 <edges; separator="\n">
end
>>

```

```

dfaLoopbackStateSwitch(k, edges,eotPredictsAlt,description,stateNumber,semPredState)::=
<<
<description>
case <LA(k)>
 <edges; separator="\n">
 <if(eotPredictsAlt)><\n>
 else
 alt<decisionNumber> = <eotPredictsAlt>
 <endif>
end
>>

```

```

dfaEdgeSwitch(labels, targetState)::=
<<
<if(PARSER)>
when <labels:{<it>}; separator=","><\n>
<else>
when <labels:{<it>}; separator=","><\n>
<endif>
 <targetState>
>>

```

// C y c l i c D F A

```

/** The code to initiate execution of a cyclic DFA; this is used
* in the rule to predict an alt just like the fixed DFA case.
* The <name> attribute is inherited via the parser, lexer, ...
*/

```

```

dfaDecision(decisionNumber,description)::=
<<
alt<decisionNumber> = DFA<decisionNumber>.predict(self, @input)
>>

```

```

/** Generate the tables and support code needed for the DFASState object
* argument. Unless there is a semantic predicate (or syn pred, which
* become sem preds), all states should be encoded in the state tables.
* Consequently, cyclicDFASState/cyclicDFAEdge,eotDFAEdge templates are
* not used except for special DFA states that cannot be encoded as

```



```

* a transition table.
*/
cyclicDFA(dfa)::=
<<

DFA<dfa.decisionNumber> = DFA.new(
 [<dfa.eot; wrap="\n ", separator=",", null="-1">],
 [<dfa.eof; wrap="\n ", separator=",", null="-1">],
 [<dfa.min; wrap="\n ", separator=",", null="0">],
 [<dfa.max; wrap="\n ", separator=",", null="0">],
 [<dfa.accept; wrap="\n ", separator=",", null="-1">],
 [<dfa.special; wrap="\n ", separator=",", null="-1">],
 [
 <dfa.transition: { s | [<s; wrap="\n ", separator=",", null="-1">]}; separator=",\n", null="">
]
)

def special_state_transition(s)
 <if(dfa.specialStateSTs)>
 case s
 <dfa.specialStateSTs: {state |
 when <i0>
 <state>}; separator="\n">
 end

 raise "Expected: <dfa.description>"
 <else>
 -1
 <endif>
end

public :special_state_transition
>>

/** A special state in a cyclic DFA; special means has a semantic predicate
* or it's a huge set of symbols to check.
*/
cyclicDFAState(decisionNumber,stateNumber,edges,needErrorClause,semPredState)::=
<<
 <if(semPredState)>
 @input.rewind(0)
 <else>
 look_ahead_<decisionNumber>_<stateNumber> = <LA(1)>
 <endif>
 s = -1
 <edges>
 return s if s >= 0
>>

```

```

/** Just like a fixed DFA edge, test the lookahead and indicate what
 * state to jump to next if successful. Again, this is for special
 * states.
 */
cyclicDFAEdge(labelExpr, targetStateNumber, edgeNumber, predicates)::=
<<
return s = <targetStateNumber> if (<labelExpr>) <if(predicates)>&& (<predicates>)<endif><\n>
>>

/** An edge pointing at end-of-token; essentially matches any char;
 * always jump to the target.
 */
eotDFAEdge(targetStateNumber,edgeNumber, predicates)::=
<<
s = <targetStateNumber><\n>
>>

// D F A E X P R E S S I O N S

andPredicates(left,right)::= "<left> && <right>"

orPredicates(operands)::=
<<
(<operands; separator=" || ">)
>>

notPredicate(pred)::= "!(<evalPredicate(...>)"

evalPredicate(pred,description)::= "<pred>"

evalSynPredicate(pred,description)::= "<pred>()"

/**
 * It's not really clear that decisionNumber and stateNumber are available here
 */
lookaheadTest(atom,k,atomAsInt)::=
<<
<if(LEXER)>
look_ahead<decisionNumber>_<stateNumber> == <atom>
<else>
look_ahead<decisionNumber>_<stateNumber> == :<atom>
<endif>
>>

/** Sometimes a lookahead test cannot assume that LA(k) is in a temp variable
 * somewhere. Must ask for the lookahead directly.
 */

```

```

isolatedLookaheadTest(atom,k,atomAsInt) ::=
<<
<if(LEXER)>
<LA(k)> == <atom>
<else>
<LA(k)> == :<atom>
<endif>
>>

/**
 * It's not really clear that decisionNumber and stateNumber are available here
 */
lookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt)::=
<<
<if(LEXER)>
(look_ahead<decisionNumber>_<stateNumber> \>= <lower> && look_ahead<decisionNumber>_<stateNumber>
\<= <upper>)
<else>
(TOKENS[look_ahead<decisionNumber>_<stateNumber>] \>= <lowerAsInt> &&
TOKENS[look_ahead<decisionNumber>_<stateNumber>] \<= <upperAsInt>)
<endif>
>>

isolatedLookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::=
<<
<if(LEXER)>
(<LA(k)> \>= <lower> && <LA(k)> \<= <upper>)
<else>
(TOKENS[<LA(k)>] \>= <lowerAsInt> && TOKENS[<LA(k)>] \<= <upperAsInt>)
<endif>
>>

setTest(ranges) ::=
<<
<ranges; separator=" || ">
>>

// A T T R I B U T E S

parameterAttributeRef(attr)::= "<attr.name>"
parameterSetAttributeRef(attr,expr) ::= "<attr.name> = <expr>"

scopeAttributeRef(scope,attr,index,negIndex)::=
<<
raise "scopeAttributeRef not implemented"
>>

```

```

scopeSetAttributeRef(scope,attr,expr,index,negIndex) ::=
<<
 raise "scopeSetAttributeRef not implemented"
>>

/** $x is either global scope or x is rule with dynamic scope; refers
 * to stack itself not top of stack. This is useful for predicates
 * like {$function.size(>)>0 && $function::name.equals("foo")}?
 */
isolatedDynamicScopeRef(scope)::=
<<
 raise "isolatedDynamicScopeRef not implemented"
>>

/** reference an attribute of rule; might only have single return value */
ruleLabelRef(referencedRule,scope,attr)::=
<<
 <if(referencedRule.hasMultipleReturnValues)>
 _<scope>[:<attr.name>]
 <else>
 _<scope>
 <endif>
>>

/**
 <if(referencedRule.hasMultipleReturnValues)>
 <scope>[<attr.index>] # TODO: need "Attribute.index" for this to work
 <else>
 <scope>
 <endif>
>>
**/

returnAttributeRef(ruleDescriptor,attr)::=
<<
 retval<attr.name>
>>

returnSetAttributeRef(ruleDescriptor,attr,expr) ::=
<<
 retval<attr.name> = <expr>
>>

/** How to translate $tokenLabel */
tokenLabelRef(label)::= "_<label>"

/** ids+=ID {$ids} or e+=expr {$e} */

```

```

listLabelRef(label)::= "list_<label>"

// not sure the next are the right approach; and they are evaluated early;
// they cannot see TREE_PARSER or PARSER attributes for example. :(

tokenLabelPropertyRef_text(scope,attr)::= "_<scope>.text"
tokenLabelPropertyRef_type(scope,attr)::= "_<scope>.token_type"
tokenLabelPropertyRef_line(scope,attr)::= "_<scope>.line"
tokenLabelPropertyRef_pos(scope,attr) ::= "_<scope>.pos"
tokenLabelPropertyRef_channel(scope,attr)::= "_<scope>.channel"
tokenLabelPropertyRef_index(scope,attr)::= "_<scope>.index"

tokenLabelPropertyRef_tree(scope,attr)::= <<
 raise "tokenLabelPropertyRef_tree not implemented"
>>

ruleLabelPropertyRef_start(scope,attr)::=
<<
 raise "ruleLabelPropertyRef_start not implemented"
>>

ruleLabelPropertyRef_stop(scope,attr)::=
<<
 raise "ruleLabelPropertyRef_stop not implemented"
>>

ruleLabelPropertyRef_tree(scope,attr)::=
<<
 raise "ruleLabelPropertyRef_tree not implemented"
>>

ruleLabelPropertyRef_text(scope,attr)::=
<<
 raise "ruleLabelPropertyRef_text not implemented"
>>

ruleLabelPropertyRef_st(scope,attr)::=
<<
 raise "ruleLabelPropertyRef_st not implemented"
>>

/** Isolated $RULE ref ok in lexer as it's a Token */
lexerRuleLabel(label)::=
<<
 raise "lexerRuleLabel not implemented"

```

>>

```
lexerRuleLabelPropertyRef_type(scope,attr)::=
```

<<

```
raise "lexerRuleLabelPropertyRef_type not implemented"
```

>>

```
lexerRuleLabelPropertyRef_line(scope,attr)::=
```

<<

```
raise "lexerRuleLabelPropertyRef_line not implemented"
```

>>

```
lexerRuleLabelPropertyRef_pos(scope,attr)::=
```

<<

```
raise "lexerRuleLabelPropertyRef_pos not implemented"
```

>>

```
lexerRuleLabelPropertyRef_channel(scope,attr)::=
```

<<

```
raise "lexerRuleLabelPropertyRef_channel not implemented"
```

>>

```
lexerRuleLabelPropertyRef_index(scope,attr)::=
```

<<

```
raise "lexerRuleLabelPropertyRef_index not implemented"
```

>>

```
lexerRuleLabelPropertyRef_text(scope,attr)::=
```

<<

```
raise "lexerRuleLabelPropertyRef_text not implemented"
```

>>

```
lexerRulePropertyRef_text(scope,attr) ::= "@text"
```

```
lexerRulePropertyRef_type(scope,attr) ::= <<
```

```
raise "lexerRulePropertyRef_type not implemented"
```

>>

```
lexerRulePropertyRef_line(scope,attr) ::= "@line"
```

```
lexerRulePropertyRef_pos(scope,attr) ::= "@pos"
```

```
lexerRulePropertyRef_index(scope,attr) ::= <<
```

```
raise "lexerRulePropertyRef_index not implemented"
```

>>

```
lexerRulePropertyRef_channel(scope,attr) ::= "@channel"
```

```
lexerRulePropertyRef_start(scope,attr) ::= "@start"
```

```
lexerRulePropertyRef_stop(scope,attr) ::= <<
```

```
raise "lexerRulePropertyRef_stop not implemented"
```

```

>>

ruleSetPropertyRef_tree(scope,attr,expr) ::= <<
 raise "ruleSetPropertyRef_tree not implemented"
>>

ruleSetPropertyRef_st(scope,attr,expr) ::= <<
 raise "ruleSetPropertyRef_st not implemented"
>>

// Somebody may ref $template or $tree or $stop within a rule:
rulePropertyRef_start(scope,attr)::=
<<
 raise "rulePropertyRef_start not implemented"
>>

rulePropertyRef_stop(scope,attr)::=
<<
 raise "rulePropertyRef_stop not implemented"
>>

rulePropertyRef_tree(scope,attr)::=
<<
 raise "rulePropertyRef_tree not implemented"
>>

rulePropertyRef_text(scope,attr)::=
<<
 raise "rulePropertyRef_text not implemented"
>>

rulePropertyRef_st(scope,attr)::=
<<
 raise "rulePropertyRef_st not implemented"
>>

/** How to execute an action */
/** TODO: add syntactic predicate & backtracking gates */
execAction(action)::=
<<
<action>
>>

// M I S C (properties, etc...)

codeFileExtension()::=".rb"

```

```
true() ::= "true"
false() ::= "false"
```

```
noRewrite(rewriteBlockLevel, treeLevel) ::= ""
```

```
////////// ----- private templates -----
```

```
bitset() ::=
<<
 raise "bitset not implemented"
>>
```

```
element() ::= "<it.el>"
```

```
plainBlock(decls, alts, description) ::=
<<
<decls>
<alts>
>>
```

```
switchBlock(description, decisionNumber, maxAlt, alts, decls, decision) ::=
<<
<description>
alt<decisionNumber> = <maxAlt>
<decls>
<decision>
case alt<decisionNumber>
 <alts:switchCase(); separator="\n">
end
>>
```

```
switchCase() ::=
<<
when <i>
 <it>
>>
```

```
LA(k) ::=
<<
<if(LEXER)>
 @input.look_ahead(<k>)
<else>
 look_ahead(<k>)
<endif>
>>
```



```

synpred(name) ::= <<
def <name>
 start = @input.mark()
 @backtracking += 1
 <name>_fragment()
 @backtracking -= 1

 success = !@failed
 @input.rewind(start)
 @failed = false

 return success
end
>>

parameterScope(scope) ::= <<
<scope.attributes:{<it.decl>}; separator=", ">
>>

dfaClass() ::= <<
<if(cyclicDFAs)>
class DFA
 def initialize(eot, eof, min, max, accept, special, transition)
 @eot = eot
 @eof = eof
 @min = min
 @max = max
 @accept = accept
 @special = special
 @transition = transition
 end

 def predict(parser, input)
 mark = input.mark()
 s = 0 # we always start at s0
 begin
 loop do
 special_state = @special[s]
 if special_state >= 0
 s = parser.special_state_transition(special_state)
 input.consume()
 next
 end

 if @accept[s] >= 1

```

```

 return @accept[s]
end

look for a normal char transition
c = input.look_ahead(1).to_i
if c != :EOF && c >= @min[s] && c <= @max[s]
 next_state = @transition[s][c - @min[s]] # move to next state
 if next_state < 0
 # was in range but not a normal transition
 # must check EOT, which is like the else clause.
 # eot[s]>=0 indicates that an EOT edge goes to another
 # state.
 if @eot[s] >= 0 # EOT Transition to accept state?
 s = @eot[s]
 input.consume()
 next
 end
 raise "No viable alt"
 end
 s = next_state
 input.consume()
 next
end
if @eot[s] >= 0 # EOT Transition?
 s = @eot[s]
 input.consume()
 next
end
if c == :EOF && @eof[s] >= 0 # EOF Transition to accept state?
 return @accept[@eof[s]]
end

not in range and not EOF/EOT, must be invalid symbol
raise "No viable alt"
end
ensure
 input.rewind(mark)
end
end
end
<endif>
>>

```

Found in path(s):

\* /opt/cola/permits/1204005060\_1631853129.56/0/antlr-3-1-3-sources-4-jar/org/antlr/codegen/templates/Ruby/Ruby.stg

No license file was found, but licenses were detected in source scan.

```

/*
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 *
 * Conversion to C#:
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 * THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
 * (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 * THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
 */
/** Template overrides to add debugging to normal Java output;
 * If ASTs are built, then you'll also get ASTDbg.stg loaded.
 */
group Dbg;

@outputFile.imports() ::= <<
<@super.imports(>
using Antlr.Runtime.Debug;
using IOException = System.IO.IOException;
>>

@genericParser.members() ::= <<
<if(grammar.grammarIsRoot)>
public static readonly string[] ruleNames =
new string[]
{
"invalidRule", <grammar.allImportedRules:{rST | "<rST.name>"}; wrap="\n ", separator=", ">

```

```

};<\n>
<endif>
<if(grammar.grammarIsRoot)><! grammar imports other grammar(s) !>
int ruleLevel = 0;
public virtual int RuleLevel { get { return ruleLevel; } }
public virtual void IncRuleLevel() { ruleLevel++; }
public virtual void DecRuleLevel() { ruleLevel--; }
<if(profile)>
<ctorForProfilingRootGrammar()>
<else>
<ctorForRootGrammar()>
<endif>
<ctorForPredefinedListener()>
<else><! imported grammar !>
public int RuleLevel { get { return <grammar.delegators:{g| <g:delegateName()>>.RuleLevel; } } }
public void IncRuleLevel() { <grammar.delegators:{g| <g:delegateName()>>.IncRuleLevel(); } }
public void DecRuleLevel() { <grammar.delegators:{g| <g:delegateName()>>.DecRuleLevel(); } }
<ctorForDelegateGrammar()>
<endif>
<if(profile)>
public virtual bool AlreadyParsedRule(IIntStream input, int ruleIndex)
{
((Profiler)dbg).ExamineRuleMemoization(input, ruleIndex,
<grammar.composite.rootGrammar.recognizerName>.ruleNames[ruleIndex]);
return super.AlreadyParsedRule(input, ruleIndex);
}<\n>
public virtual void Memoize(IIntStream input, int ruleIndex, int ruleStartIndex)
{
((Profiler)dbg).Memoize(input, ruleIndex, ruleStartIndex,
<grammar.composite.rootGrammar.recognizerName>.ruleNames[ruleIndex]);
super.Memoize(input, ruleIndex, ruleStartIndex);
}<\n>
<endif>
protected virtual bool EvalPredicate(bool result, string predicate)
{
dbg.SemanticPredicate(result, predicate);
return result;
}<\n>
>>

ctorForRootGrammar() ::= <<
<! bug: can't use <@super.members()> cut-n-paste instead !>
<! Same except we add port number and profile stuff if root grammar !>
public <name>(<inputStreamType> input)
: this(input, DebugEventSocketProxy.DEFAULT_DEBUGGER_PORT, new RecognizerSharedState())
{
}
}
public <name>(<inputStreamType> input, int port, RecognizerSharedState state)

```

```

: base(input, state)
{
<parserCtorBody()>
<createListenerAndHandshake()>
<grammar.directDelegates:{g|<g:delegateName()> = new <g.recognizerName>(input, dbg, this.state,
this<grammar.delegates:{g|, <g:delegateName()>> }>);}; separator="\n">
<@finally()>
}<\n>
>>

```

```

ctorForProfilingRootGrammar() ::= <<
<! bug: can't use <@super.members()> cut-n-paste instead !>
public <name>(<inputStreamType> input)
: this(input, new Profiler(null), new RecognizerSharedState())
{
}
public <name>(<inputStreamType> input, IDebugEventListener dbg, RecognizerSharedState state)
: base(input, dbg, state)
{
Profiler p = (Profiler)dbg;
p.setParser(this);
<parserCtorBody()>
<grammar.directDelegates:
{g|<g:delegateName()> = new <g.recognizerName>(input, dbg, this.state, this<grammar.delegates:{g|,
<g:delegateName()>> }>);}; separator="\n">
<@finally()>
}
}<\n>
>>

```

```

/** Basically we don't want to set any dbg listeners are root will have it. */
ctorForDelegateGrammar() ::= <<
public <name>(<inputStreamType> input, IDebugEventListener dbg, RecognizerSharedState
state<grammar.delegates:{g|, <g.recognizerName> <g:delegateName()>> }>)
: base(input, dbg, state)
{
<parserCtorBody()>
<grammar.directDelegates:
{g|<g:delegateName()> = new <g.recognizerName>(input, this, this.state<grammar.delegates:{g|,
<g:delegateName()>> }>);}; separator="\n">
}<\n>
}>>

```

```

ctorForPredefinedListener() ::= <<
public <name>(<inputStreamType> input, IDebugEventListener dbg)
<@superClassRef>: base(input, dbg, new RecognizerSharedState())<@end>
{
<if(profile)>

```

```

Profiler p = (Profiler)dbg;
p.setParser(this);
<endif>
<parserCtorBody()>
<grammar.directDelegates:{g|<g:delegateName()> = new <g.recognizerName>(input, dbg, this.state,
this<grammar.delegates:{g|, <g:delegateName()>}>)}; separator="\n">
<@finally()>
}<\n>
>>

```

```

createListenerAndHandshake() ::= <<
<if(TREE_PARSER)>
DebugEventSocketProxy proxy = new DebugEventSocketProxy(this, port, input.TreeAdaptor);<\n>
<else>
DebugEventSocketProxy proxy = new DebugEventSocketProxy(this, port, null);<\n>
<endif>
DebugListener = proxy;
try
{
proxy.Handshake();
}
catch (IOException ioe)
{
ReportError(ioe);
}
>>

```

```

@genericParser.superClassName() ::= "Debug<@super.superClassName()>"

```

```

@rule.preamble() ::= <<
try
{
dbg.EnterRule(GrammarFileName, "<ruleName>");
if (RuleLevel == 0)
{
dbg.Commence();
}
IncRuleLevel();
dbg.Location(<ruleDescriptor.tree.line>, <ruleDescriptor.tree.charPositionInLine>);<\n>
>>

```

```

@rule.postamble() ::= <<
dbg.Location(<ruleDescriptor.EORNode.line>, <ruleDescriptor.EORNode.charPositionInLine>);<\n>
}
finally
{
dbg.ExitRule(GrammarFileName, "<ruleName>");
DecRuleLevel();
}

```

```

if (RuleLevel == 0)
{
 dbg.Terminate();
}
}<\n>
>>

@synpred.start() ::= "dbg.BeginBacktrack(state.backtracking);"

@synpred.stop() ::= "dbg.EndBacktrack(state.backtracking, success);"

// Common debug event triggers used by region overrides below

enterSubRule() ::= <<
try
{
 dbg.EnterSubRule(<decisionNumber>);<\n>
}>>

exitSubRule() ::= <<
}
finally
{
 dbg.ExitSubRule(<decisionNumber>);
}<\n>
>>

enterDecision() ::= <<
try
{
 dbg.EnterDecision(<decisionNumber>);<\n>
}>>

exitDecision() ::= <<
}
finally
{
 dbg.ExitDecision(<decisionNumber>);
}<\n>
>>

enterAlt(n) ::= "dbg.EnterAlt(<n>);<\n>"

// Region overrides that tell various constructs to add debugging triggers

@block.predecision() ::= "<enterSubRule()><enterDecision()>"

@block.postdecision() ::= "<exitDecision()>"

```

```

@block.postbranch() ::= "<exitSubRule(>"

@ruleBlock.predecision() ::= "<enterDecision(>"

@ruleBlock.postdecision() ::= "<exitDecision(>"

@ruleBlockSingleAlt.prealt() ::= "<enterAlt(n=\"1\")>"

@blockSingleAlt.prealt() ::= "<enterAlt(n=\"1\")>"

@positiveClosureBlock.preloop() ::= "<enterSubRule(>"

@positiveClosureBlock.postloop() ::= "<exitSubRule(>"

@positiveClosureBlock.predecision() ::= "<enterDecision(>"

@positiveClosureBlock.postdecision() ::= "<exitDecision(>"

@positiveClosureBlock.earlyExitException() ::=
"dbg.RecognitionException(eee<decisionNumber>);<n>"

@closureBlock.preloop() ::= "<enterSubRule(>"

@closureBlock.postloop() ::= "<exitSubRule(>"

@closureBlock.predecision() ::= "<enterDecision(>"

@closureBlock.postdecision() ::= "<exitDecision(>"

@altSwitchCase.prealt() ::= "<enterAlt(n=i)>"

@element.prematch() ::=
"dbg.Location(<it.line>, <it.pos>);"

@matchSet.mismatchedSetException() ::=
"dbg.RecognitionException(mse);"

@dfaState.noViableAltException() ::= "dbg.RecognitionException(nvae);"

@dfaStateSwitch.noViableAltException() ::= "dbg.RecognitionException(nvae);"

dfaDecision(decisionNumber,description) ::= <<
try
{
isCyclicDecision = true;
<super.dfaDecision(...)>
}

```



```
catch (NoViableAltException nvae)
{
 dbg.RecognitionException(nvae);
 throw nvae;
}
>>
```

```
@cyclicDFA.errorMethod() ::= <<
public override void Error(NoViableAltException nvae)
{
 ((DebugParser)recognizer).dbg.RecognitionException(nvae);
}
>>
```

```
/** Force predicate validation to trigger an event */
evalPredicate(pred,description) ::= <<
EvalPredicate(<pred>, "<description>")
>>
```

Found in path(s):

```
* /opt/cola/permits/1204005060_1631853129.56/0/antlr-3-1-3-sources-4-
jar/org/antlr/codegen/templates/CSharp3/Dbg.stg
```

No license file was found, but licenses were detected in source scan.

```
/*
[The "BSD licence"]
Copyright (c) 2005-2006 Terence Parr
All rights reserved.
```

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(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

\*/

group Cpp implements ANTLRCore;

cppTypeInitMap ::= [

"int":"0",

"long":"0",

"float":"0.0",

"double":"0.0",

"bool":"false",

"byte":"0",

"short":"0",

"char":"0",

default:"0" // anything other than an atomic type

]

// What we generate lexer/parser/treeparser, used a suffix in a few places

generatedType() ::= <<

<if(LEXER)>Lexer<endif><if(PARSER)>Parser<endif><if(TREE\_PARSER)>TreeParser<endif>

>>

leadIn(type) ::=

<<

/\*\* \file

\*

\* This <type> file was generated by ANTLR version <ANTLRVersion>

\*

\* - From the grammar source file : <fileName>

\* - On : <generatedTimestamp>

<if(LEXER)>

\* - for the lexer : <name><\n>

<endif>

<if(PARSER)>

\* - for the parser : <name><\n>

<endif>

<if(TREE\_PARSER)>

\* - for the tree parser : <name><\n>

<endif>

\*

\* Edit at your own peril.

\*/

>>

standardHeaders() ::=

<<

#include \<antlr3/<generatedType(>).h>

```

<if(profile)>
#warning "No profiling support.."
<endif>
<if(TREE_PARSER)>
#warning "No tree parsing yet..."
<endif>
>>

/** The overall file structure of a recognizer; stores methods for rules
 * and cyclic DFAs plus support code.
 */
outputFile(LEXER,PARSER,TREE_PARSER, actionScope, actions,
 docComment, recognizer,
 name, tokens, tokenNames, rules, cyclicDFAs,
 bitsets, buildTemplate, profile,
 backtracking, synpreds, memoize, numRules,
 fileName, ANTLRVersion, generatedTimestamp, trace,
 scopes, superClass) ::=

<<
<leadIn("C++ source")>
<@includes>
#include "<name><headerFileExtension()>"
<@end>
<if(actions.(actionScope).header)>
// Header action start =====
<actions.(actionScope).header>
// Header action end =====
<endif>

<headerAction>

<standardHeaders()>

<docComment>
<recognizer>
>>
parserHeaderFile() ::= <<
>>
treeParserHeaderFile() ::= <<
>>
lexerHeaderFile() ::= <<
template<<typename StreamType, typename TokenType, typename TokenBuilder>
class <name> : public antlr3::Lexer<<StreamType,TokenType,TokenBuilder> {
// carry over general types
typedef typename StreamType::position_type position_type;
typedef typename StreamType::char_type char_type;

typedef antlr3::tokenid_type tokenid_type;

```

```

typedef antlr3::channel_type channel_type;
typedef antlr3::decision_type decision_type;
// exception shorthands
typedef antlr3::MismatchException\<position_type,char_type> MismatchException;
typedef antlr3::MismatchedRangeException\<position_type,char_type> MismatchedRangeException;
typedef antlr3::MismatchedSetException\<position_type,char_type> MismatchedSetException;
typedef antlr3::EarlyExitException\<position_type> EarlyExitException;
typedef antlr3::NoViableAltException\<position_type> NoViableAltException;
<if(backtracking)>
// @TODO backtracking ruleMemo = new HashMap[\<numRules>+1];\<n> \<! index from 1..n !>
<endif>

public:
<tokens:{ static const tokenid_type <tokenPrefix()>\<it.name> = <it.type>;}; separator="\n">
<scopes:{ <if(it.isDynamicGlobalScope)>\<globalAttributeScope(scope=it)>\<endif>}>
<actions.lexer.members>

<name>(StreamType* input)
: antlr3::Lexer\<StreamType,TokenType,TokenBuilder>(input)
{
}

<!if(filterMode)!>
<!filteringNextToken()!>
<!endif!>
<rules; separator="\n\n">

// syn preds
<synpreds:{ p | <lexerSynpred(p)>}>

// cyclic dfa's
<cyclicDFAs:{ dfa | DFA<dfa.decisionNumber> dfa<dfa.decisionNumber> = new
DFA<dfa.decisionNumber>(this);}; separator="\n">
// dfa tables..
}; // class <name>\<n>
>>

headerFile(LEXER,
 PARSER,
 TREE_PARSER,
 actionScope,
 actions,
 docComment,
 recognizer,
 name,
 tokens,
 tokenNames,
 rules,

```

```

 cyclicDFAs,
 bitsets,
 buildTemplate,
 profile,
 backtracking,
 synpreds,
 memoize,
 numRules,
 fileName,
 ANTLRVersion,
 generatedTimestamp,
 trace,
 scopes,
 superClass
) ::=
<<
#ifndef _<name>_H
#define _<name>_H
<leadIn("C++ header")>
<actions.(actionScope).headerfile>

<@includes>
<standardHeaders()>
<@end>

<if(LEXER)>
<lexerHeaderFile()>
<endif>
<if(PARSER)>
<parserHeaderFile()>
<endif>
<if(TREE_PARSER)>
<treeParserHeaderFile()>
<endif>

#endif // _<name>_H<\n>
>>

lexer(grammar, name, tokens, scopes, rules, numRules, labelType="Token",
 filterMode) ::= <<

<cyclicDFAs:cyclicDFA()> <! dump tables for all DFA !>

>>

filteringNextToken() ::= <<
/** A override of Lexer.nextToken() that backtracks over mTokens() looking

```

- \* for matches. No error can be generated upon error; just rewind, consume
- \* a token and then try again. backtracking needs to be set as well.
- \* Make rule memoization happen only at levels above 1 as we start mTokens
- \* at backtracking==1.

\*/

```
public Token nextToken() {
 while (true) {
 if (input.LA(1)==CharStream.EOF) {
 return Token.EOF_TOKEN;
 }
 this->token = 0;
 tokenStartCharIndex = getCharIndex();
 try {
 int m = input.mark();
 backtracking=1; <! means we won't throw slow exception !>
 failed=false;
 mTokens();
 backtracking=0;
 <! mTokens backtracks with synpred at backtracking==2
 and we set the synpredgate to allow actions at level 1. !>
 if (failed) {
 input.rewind(m);
 input.consume(); <! advance one char and try again !>
 }
 else {
 return token;
 }
 }
 catch (RecognitionException re) {
 // shouldn't happen in backtracking mode, but...
 reportError(re);
 recover(re);
 }
 }
}
```

```
public void memoize(IntStream input, int ruleIndex, int ruleStartIndex)
{
 if (backtracking > 1)
 super.memoize(input, ruleIndex, ruleStartIndex);
}
```

```
public boolean alreadyParsedRule(IntStream input, int ruleIndex)
{
 if (backtracking > 1)
 return super.alreadyParsedRule(input, ruleIndex);
 return false;
}
```

>>

```
filteringActionGate() ::= "backtracking == 1"
```

```
/** How to generate a parser */
```

```
genericParser(
 grammar, name, scopes, tokens, tokenNames, rules, numRules, cyclicDFAs,
 bitsets, inputStreamType, superClass, ASTLabelType="Object",
 labelType, members, filterMode
) ::= <<
```

```
// genericParser
```

```
class <name> : public <@superClassName><superClass><@end> {
```

```
public:
```

```
 static const char* tokenNames[] = {
```

```
 "\<invalid>", "\<EOR>", "\<DOWN>", "\<UP>", <tokenNames; separator=", ">
```

```
 };
```

```
 <tokens:{static tokenId_type <tokenPrefix()><it.name>=<it.type>; separator="\n">
```

```
 <scopes:{<if(it.isDynamicGlobalScope)><globalAttributeScope(scope=it)><endif>>
```

```
 <@members>
```

```
 <name>(StreamType* input)
```

```
 : <superClass>\<StreamType,TokenType>(input)
```

```
 {
```

```
 <if(backtracking)>
```

```
 ruleMemo = new HashMap[<numRules>+1];<n> <! index from 1..n !>
```

```
 <endif>
```

```
 }
```

```
 <@end>
```

```
 //@TODO public String[] getTokenNames() { return tokenNames; }
```

```
 //@TODO public String getGrammarFileName() { return "<fileName>"; }
```

```
 <members>
```

```
 <rules; separator="\n\n">
```

```
 <synpreds:{p | <synpred(p)>>>
```

```
 <cyclicDFAs:{dfa | protected DFA<dfa.decisionNumber> dfa<dfa.decisionNumber> = new
 DFA<dfa.decisionNumber>(this);}; separator="\n">
```

```
 <cyclicDFAs:cyclicDFA()> <! dump tables for all DFA !>
```

```
 <bitsets:bitset(name={FOLLOW_<it.name>_in_<it.inName><it.tokenIndex>},
```

```
 words64=it.bits)>
```

```
 };
```

```
>>
```

```
parser(
 grammar, name, scopes, tokens, tokenNames,
```

```
 bitsets, inputStreamType, superClass, ASTLabelType="Object",
 labelType, members, filterMode
```

```

rules, numRules, bitsets, ASTLabelType,
superClass="Parser", labelType="Token",
members={<actions.parser.members>}) ::= <<
<genericParser(inputStreamType="TokenStream", ...)>
>>

/** How to generate a tree parser; same as parser except the input
 * stream is a different type.
 */
treeParser(grammar, name, scopes, tokens, tokenNames, globalAction,
rules, numRules,
bitsets,
labelType={<ASTLabelType>}, ASTLabelType="Object",
superClass="TreeParser", members={<actions.treeparser.members>}, filterMode
) ::= <<
<genericParser(inputStreamType="TreeNodeStream", ...)>
>>

/** A simpler version of a rule template that is specific to the imaginary
 * rules created for syntactic predicates. As they never have return values
 * nor parameters etc..., just give simplest possible method. Don't do
 * any of the normal memoization stuff in here either; it's a waste.
 * As predicates cannot be inlined into the invoking rule, they need to
 * be in a rule by themselves.
 */
synpredRule(ruleName, ruleDescriptor, block, description, nakedBlock) ::=
<<
// $ANTLR start <ruleName>
public void <ruleName>_fragment(<ruleDescriptor.parameterScope:parameterScope(scope=it)>) throws
RecognitionException {
<if(trace)>System.out.println("enter <ruleName> "+input.LT(1)+" failed="+failed+"
backtracking="+backtracking);<endif>
<if(trace)>
try {
<block>
}
finally {
System.out.println("exit <ruleName> "+input.LT(1)+" failed="+failed+" backtracking="+backtracking);
}
<else>
<block>
<endif>
}
// $ANTLR end <ruleName>
>>

synpred(name) ::= <<
public boolean <name>() {

```



```

this->backtracking++;
<@start(>
int start = input.mark();
try {
 <name>_fragment(); // can never throw exception
} catch (RecognitionException re) {
 System.err.println("impossible: "+re);
}
boolean success = ! this->failed;
input.rewind(start);
<@stop(>
this->backtracking--;
this->failed = false;
return success;
}<\n>
>>

lexerSynpred(name) ::= <<
<synpred(name)>
>>

ruleMemoization(name) ::= <<
<if(memoize)>
if (backtracking > 0 && alreadyParsedRule(input, <ruleDescriptor.index>)
return <ruleReturnValue(>;
<endif>
>>

/** How to test for failure and return from rule */
checkRuleBacktrackFailure() ::= <<
<if(backtracking)>
if (failed)
return <ruleReturnValue(>;
<endif>
>>

/** This rule has failed, exit indicating failure during backtrack */
ruleBacktrackFailure() ::= <<
<if(backtracking)>
if (backtracking > 0)
{
failed = true;
return <ruleReturnValue(>;
}
<endif>
>>

/** How to generate code for a rule. This includes any return type

```

```

* data aggregates required for multiple return values.
*/
rule(ruleName,ruleDescriptor,block,emptyRule,description,exceptions,memoize) ::= <<
<ruleAttributeScope(scope=ruleDescriptor.ruleScope)>
<returnScope(scope=ruleDescriptor.returnScope)>

// $ANTLR start <ruleName>
// <fileName>:<description>
public <returnType()> <ruleName>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>)
throw(antlr3::BaseRecognitionException)
{
<if(trace)>
antlr3::Tracer trace(this,"<ruleName>");
System.out.println("enter <ruleName> "+input.LT(1)+" failed="+failed+" backtracking="+backtracking);
<endif>
<ruleDeclarations()>
<ruleLabelDefs()>
<ruleDescriptor.actions.init>
<@preamble()>
try {
<ruleMemoization(name=ruleName)>
<block>
}
<if(exceptions)>
<exceptions: {e|<catch(decl=e.decl,action=e.action)><\n>}>
<else>
<if(!emptyRule)>
<if(actions.(actionScope).rulecatch)>
<actions.(actionScope).rulecatch>
<else>
catch (RecognitionException re) {
reportError(re);
recover(input,re);
}<\n>
<endif>
<endif>
<endif>
finally {
<if(trace)>System.out.println("exit <ruleName> "+input.LT(1)+" failed="+failed+"
backtracking="+backtracking);<endif>
<ruleCleanUp()>
<(ruleDescriptor.actions.finally):execAction()>
}
<@postamble()>
return <ruleReturnValue()>;
}
// $ANTLR end <ruleName>
>>

```

```

catch(decl,action) ::= <<
catch (<e.decl>) {
 <e.action>
}
>>

```

```

ruleDeclarations() ::= <<
<ruleDescriptor.useScopes:{<it>_stack.push(new <it>_scope());}; separator="\n">
<ruleDescriptor.ruleScope:{<it.name>_stack.push(new <it.name>_scope());}; separator="\n">
<if(ruleDescriptor.hasMultipleReturnValues)>
<returnType()> retval = new <returnType()>();
retval.start = input.LT(1);<n>
<else>
<ruleDescriptor.returnScope.attributes:{ a |
<a.type> <a.name> = <if(a.initValue)><a.initValue><else><initValue(a.type)><endif>;
}>
<endif>
<if(memoize)>
int <ruleDescriptor.name>_startIndex = input.index();
<endif>
>>

```

```

ruleLabelDefs() ::= <<
<[ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels]
: {<labelType> <it.label.text>=null;}; separator="\n"
>
<[ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels]
: {List list_<it.label.text>=null;}; separator="\n"
>
<[ruleDescriptor.ruleLabels,ruleDescriptor.ruleListLabels]
: ruleLabelDef(label=it); separator="\n"
>
<[ruleDescriptor.allRuleRefsInAltsWithRewrites,ruleDescriptor.allTokenRefsInAltsWithRewrites]
: {List list_<it>=new ArrayList();}; separator="\n"
>
>>

```

```

ruleReturnValue() ::= <<
<if(!ruleDescriptor.isSynPred)>
<if(ruleDescriptor.hasReturnValue)>
<if(ruleDescriptor.hasSingleReturnValue)>
<ruleDescriptor.singleValueReturnName>
<else>
retval
<endif>
<endif>
<endif>

```

```

>>

ruleCleanup() ::= <<
<ruleDescriptor.useScopes:{<it>_stack.pop();}; separator="\n">
<ruleDescriptor.ruleScope:{<it.name>_stack.pop();}; separator="\n">
<if(ruleDescriptor.hasMultipleReturnValues)>
retval.stop = input.LT(-1);<\n>
<endif>
<if(memoize)>
<if(backtracking)>
if (backtracking > 0) { memoize(input, <ruleDescriptor.index>, <ruleDescriptor.name>_startIndex); }
<endif>
<endif>
>>

/** How to generate a rule in the lexer; naked blocks are used for
 * fragment rules.
 */
lexerRule(ruleName,nakedBlock,ruleDescriptor,block,memoize) ::= <<
void m<ruleName>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>)
throw(antlr3::BaseRecognitionException)
{
<if(trace)>
antlr3::Tracer trace(this,"<ruleName>");
<endif>
antlr3::CountScope nestingTracker(this->ruleNestingLevel);
StreamType& input(this->getInput());
<if(nakedBlock)>
<ruleDescriptor.actions.init>
<ruleMemoization(name=ruleName)>
<block><\n>
<else>
tokenid_type type = <tokenPrefix()><ruleName>;
channel_type channel = antlr3::Token::DEFAULT_CHANNEL;
position_type start(input.getPosition());
<ruleDescriptor.actions.init>
<ruleMemoization(name=ruleName)>
<block>
<! create token if none exists *and* we are an outermost token rule !>
<execAction({if (this->token == 0 && this->ruleNestingLevel == 1) {
TokenType *tt = TokenBuilder::build(type,start,input,channel);
std::cout << (*tt) << std::endl;
this->emit(tt);
}<\n>
})>
<endif>
}
>>

```

```

/** How to generate code for the implicitly-defined lexer grammar rule
 * that chooses between lexer rules.
 */
tokensRule(ruleName,nakedBlock,args,block,ruleDescriptor) ::= <<
void mTokens() throw(antlr3::BaseRecognitionException)
{
 StreamType& input(this->getInput());
 <block><\n>
}
>>

// S U B R U L E S

/** A (...) subrule with multiple alternatives */
block(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,
maxK,maxAlt,description) ::= <<
// block <fileName>:<description>
decision_type alt<decisionNumber>=<maxAlt>;
<decls>
<@predecision()>
<decision>
<@postdecision()>
<@prebranch()>
switch (alt<decisionNumber>) {
 <alts:altSwitchCase()>
}
<@postbranch()>
>>

/** A rule block with multiple alternatives */
ruleBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// ruleBlock <fileName>:<description>
decision_type alt<decisionNumber>=<maxAlt>;
<decls>
<@predecision()>
<decision>
<@postdecision()>
switch (alt<decisionNumber>) {
 <alts:altSwitchCase()>
}
>>

ruleBlockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
// ruleBlockSingleAlt <fileName>:<description>
<decls>
<@prealt()>
<alts>

```

```

<@postalt()>
>>

/** A special case of a (...) subrule with a single alternative */
blockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
// <fileName>:<description>
<decls>
<@prealt()>
<alts>
<@postalt()>
>>

/** A (..)+ block with 0 or more alternatives */
positiveClosureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// positiveClosureBlock <fileName>:<description>
decision_type cnt<decisionNumber>=0;
<decls>
<@preloop()>
do {
decision_type alt<decisionNumber>=<maxAlt>;
<@predecision()>
<decision>
<@postdecision()>
switch (alt<decisionNumber>) {
<alts:altSwitchCase()>
default :
if (cnt<decisionNumber> >= 1)
goto loop<decisionNumber>;
EarlyExitException eee(input.getPosition(), <decisionNumber>);
<@earlyExitException()>
throw eee;
}
cnt<decisionNumber>++;
} while (true);
loop<decisionNumber>: ;
<@postloop()>
>>

positiveClosureBlockSingleAlt ::= positiveClosureBlock

/** A (..)* block with 1 or more alternatives */
closureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::=
<<
// closureBlock <fileName>:<description>
<decls>
<@preloop()>
do {

```

```

decision_type alt<decisionNumber>=<maxAlt>;
<@predecision()>
<decision>
<@postdecision()>
switch (alt<decisionNumber>) {
<alts:altSwitchCase()>
default :
 goto loop<decisionNumber>;
}
} while (true);
loop<decisionNumber>; ;
<@postloop()>
>>

closureBlockSingleAlt ::= closureBlock

/** Optional blocks (x)? are translated to (x|) by before code generation
 * so we can just use the normal block template
 */
optionalBlock ::= block

optionalBlockSingleAlt ::= block

/** A case in a switch that jumps to an alternative given the alternative
 * number. A DFA predicts the alternative and then a simple switch
 * does the jump to the code that actually matches that alternative.
 */
altSwitchCase() ::= <<
case <i> :
 <@prealt()>
 <it>
 break;<\n>
>>

/** An alternative is just a list of elements; at outermost level */
alt(elements,altNum,description,autoAST,outerAlt) ::= <<
// alt <fileName>:<description>
{
 <@declarations()>
 <elements:element()>
 <@cleanup()>
}
>>

// E L E M E N T S

/** Dump the elements one per line */
element() ::= <<

```

```

// element <fileName>:<description>
<@prematch(>
<it.el><\n>
>>

/** match a token optionally with a label in front */
tokenRef(token,label,elementIndex) ::= <<
// tokenRef
<if(label)>
<label> = input.LT(1);<\n>
<endif>
this->match(input,<token>,FOLLOW_<token>_in_<ruleName><elementIndex>);
<checkRuleBacktrackFailure(>
>>

/** ids+=ID no AST building */
tokenRefAndListLabel(token,label,elementIndex) ::= <<
<tokenRef(...)>
<listLabel(...)>
>>

listLabel(label) ::= <<
if (list_<label>==null) list_<label>=new ArrayList();
list_<label>.add(<label>);<\n>
>>

/** match a character */
charRef(char,label) ::= <<
// charRef
<if(label)>
<tokenid_type(> <label> = input.LA(1);<\n>
<endif>
this->match(<char>);
<checkRuleBacktrackFailure(>
>>

/** match a character range */
charRangeRef(a,b) ::= "this->matchRange(<a>,); <checkRuleBacktrackFailure(>"

/** For now, sets are interval tests and must be tested inline */
matchSet(s,label,elementIndex,postmatchCode="") ::= <<
// matchSet
<if(label)>
<label> = input.LT(1);<\n>
<endif>
if (<s>)
{
<postmatchCode>

```



```

input.consume();
<if(!LEXER)>
errorRecovery=false;
<endif>
<if(backtracking)>failed=false;<endif>
}
else
{
<ruleBacktrackFailure()>
MismatchedSetException mse(input.getPosition(),input.LA(1));
<@mismatchedSetException()>
<if(LEXER)>
this->recover(mse);
<else>
this->recoverFromMismatchedSet(input,mse,FOLLOW_set_in_<ruleName><elementIndex>);
<endif>
throw mse;
}<\n>
>>

matchSetAndListLabel(s,label,elementIndex,postmatchCode) ::= <<
<matchSet(...)>
<listLabel(...)>
>>

/** Match a string literal */
lexerStringRef(string,label) ::= <<
// lexerStringRef
<if(label)>
position_type <label>Start(input.getPosition());
this->match(<string>);
<checkRuleBacktrackFailure()>
TokenType* <label> =
TokenBuilder::build(Token.INVALID_TOKEN_TYPE,<label>Start,input,Token.DEFAULT_CHANNEL);
<else>
this->match(<string>);
<checkRuleBacktrackFailure()><\n>
<endif>
>>

wildcard(label,elementIndex) ::= <<
<if(label)>
<label> = input.LT(1);<\n>
<endif>
this->matchAny(input);
<checkRuleBacktrackFailure()>
>>

```

```

wildcardAndListLabel(label,elementIndex) ::= <<
<wildcard(...)>
<listLabel(...)>
>>

/** Match . wildcard */
wildcardChar(label, elementIndex) ::= <<
<if(label)>
<tokenid_type() <label> = input.LA(1);<\n>
<endif>
this->matchAny();
<checkRuleBacktrackFailure()>
>>

tokenid_type() ::= "<if(LEXER)>char_type<else>tokenid_type<endif>"

wildcardCharListLabel(label, elementIndex) ::= <<
<wildcardChar(...)>
<listLabel(...)>
>>

/** Match a rule reference by invoking it possibly with arguments
 * and a return value or values.
 */
ruleRef(rule,label,elementIndex,args) ::= <<
following.push(FOLLOW_<rule>_in_<ruleName><elementIndex>);
<if(label)>
<label>=<rule><args>;<\n>
<else>
<rule><args>;<\n>
<endif>
following.pop();
<checkRuleBacktrackFailure()>
>>

/** ids+=ID */
ruleRefAndListLabel(rule,label,elementIndex,args) ::= <<
<ruleRef(...)>
<listLabel(...)>
>>

/** A lexer rule reference */
lexerRuleRef(rule,label,args) ::= <<
<if(label)>
position_type <label>Start(input.getPosition());
m<rule><args>;
<checkRuleBacktrackFailure()>
TokenType* <label> =

```

```

TokenBuilder::build(Token.INVALID_TOKEN_TYPE,<label>Start,input,Token.DEFAULT_CHANNEL);
<else>
m<rule>(<args>);
<checkRuleBacktrackFailure()>
<endif>
>>

/** EOF in the lexer */
lexerMatchEOF(label) ::= <<
<if(label)>
position_type <label>Start(input.getPosition());
match(EOF);
<checkRuleBacktrackFailure()>
TokenType* <label> = TokenBuilder::build(Token.EOF,<label>Start,input,Token.DEFAULT_CHANNEL);
<else>
match(EOF);
<checkRuleBacktrackFailure()>
<endif>
>>

/** match ^(root children) in tree parser */
tree(root, children, nullableChildList) ::= <<
<root:element()>
<if(nullableChildList)>
if (input.LA(1)==antlr3::Token::DOWN) {
 match(input, antlr3::Token::DOWN, null);
 <checkRuleBacktrackFailure()>
 <children:element()>
 match(input, antlr3::Token::UP, null);
 <checkRuleBacktrackFailure()>
}
<else>
match(input, antlr3::Token::DOWN, null);
<checkRuleBacktrackFailure()>
<children:element()>
match(input, antlr3::Token::UP, null);
<checkRuleBacktrackFailure()>
<endif>
>>

/** Every predicate is used as a validating predicate (even when it is
 * also hoisted into a prediction expression).
 */
validateSemanticPredicate(pred,description) ::= <<
if (!(<evalPredicate(...)>)) {
 <ruleBacktrackFailure()>
 throw new FailedPredicateException(input, "<ruleName>", "<description>");
}

```

```

>>

// F i x e d D F A (if-then-else)
dfaState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
<if(!semPredState)>
<tokenid_type()> LA<decisionNumber>_<stateNumber> = input.LA(<k>);<\n>
<endif>
<edges; separator="\nelse ">
else
{
<if(eotPredictsAlt)>
alt<decisionNumber> = <eotPredictsAlt>;<\n>
<else>
<ruleBacktrackFailure()>
NoViableAltException nvae(input.getPosition(), "<description>", <decisionNumber>, <stateNumber>);<\n>
<@noViableAltException()>
throw nvae;<\n>
<endif>
}
>>

/** Same as a normal DFA state except that we don't examine lookahead
 * for the bypass alternative. It delays error detection but this
 * is faster, smaller, and more what people expect. For (X)? people
 * expect "if (LA(1)==X) match(X);" and that's it.
 */
dfaOptionalBlockState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
<if(!semPredState)>
<tokenid_type()> LA<decisionNumber>_<stateNumber> = input.LA(<k>);
<endif>
<edges; separator="\nelse ">
>>

/** A DFA state that is actually the loopback decision of a closure
 * loop. If end-of-token (EOT) predicts any of the targets then it
 * should act like a default clause (i.e., no error can be generated).
 * This is used only in the lexer so that for ('a')* on the end of a rule
 * anything other than 'a' predicts exiting.
 */
dfaLoopbackState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
<if(!semPredState)>
<tokenid_type()> LA<decisionNumber>_<stateNumber> = input.LA(<k>);
<endif>
<edges; separator="\nelse "><\n>
<if(eotPredictsAlt)>
else
{
alt<decisionNumber> = <eotPredictsAlt>;

```

```

}<\n>
<endif>
>>

/** An accept state indicates a unique alternative has been predicted */
dfaAcceptState(alt) ::= "alt<decisionNumber> = <alt>";

/** A simple edge with an expression. If the expression is satisfied,
 * enter to the target state. To handle gated productions, we may
 * have to evaluate some predicates for this edge.
 */
dfaEdge(labelExpr, targetState, predicates) ::= <<
if ((<labelExpr> <if(predicates)>&& (<predicates>)<endif>)
{
 <targetState>
}
>>

// F i x e d D F A (switch case)

/** A DFA state where a SWITCH may be generated. The code generator
 * decides if this is possible: CodeGenerator.canGenerateSwitch().
 */
dfaStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch (input.LA(<k>)) {
 <edges; separator="\n">
 default:
 <if(eotPredictsAlt)>
 alt<decisionNumber> = <eotPredictsAlt>;
 <else>
 NoViableAltException nvae(input.getPosition(), "<description>", <decisionNumber>, <stateNumber>);<\n>
 <@noViableAltException()>
 throw nvae;<\n>
 <endif>
}<\n>
>>

dfaOptionalBlockStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch (input.LA(<k>)) {
 <edges; separator="\n">
}<\n>
>>

dfaLoopbackStateSwitch(k, edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch (input.LA(<k>)) {
 <edges; separator="\n"><\n>
 <if(eotPredictsAlt)>
 default:

```

```

alt<decisionNumber> = <eotPredictsAlt>;
break;<\n>
<endif>
}<\n>
>>

dfaEdgeSwitch(labels, targetState) ::= <<
<labels:{ case <it>:}; separator="\n"> {
 <targetState>
} break;
>>

// C y c l i c D F A

/** The code to initiate execution of a cyclic DFA; this is used
 * in the rule to predict an alt just like the fixed DFA case.
 * The <name> attribute is inherited via the parser, lexer, ...
 */
dfaDecision(decisionNumber,description) ::= <<
// dfaDecision
alt<decisionNumber> = predictDFA<decisionNumber>(input);
>>

/** The overall cyclic DFA chunk; contains all the DFA states */
cyclicDFA(dfa) ::= <<
/* cyclicDFA=<dfa>
*/
// cyclic = <dfa.cyclic>
// numstates = <dfa.numberOfStates>

// startState = <dfa.startState>
// startState.numberOfTransitions = <dfa.startState.NumberOfTransitions>
// startState.lookaheadDepth = <dfa.startState.LookaheadDepth>

const static short <name>dfa<dfa.decisionNumber>_eot[<dfa.numberOfStates>] = {
 <dfa.eot; wrap="\n ", separator=",", null="-1">
};
const static short <name>dfa<dfa.decisionNumber>_eof[<dfa.numberOfStates>] = {
 <dfa.eof; wrap="\n ", separator=",", null="-1">
};
const static unichar <name>dfa<dfa.decisionNumber>_min[<dfa.numberOfStates>] = {
 <dfa.min; wrap="\n ", separator=",", null="0">
};
const static unichar <name>dfa<dfa.decisionNumber>_max[<dfa.numberOfStates>] = {
 <dfa.max; wrap="\n ", separator=",", null="0">
};
const static short <name>dfa<dfa.decisionNumber>_accept[<dfa.numberOfStates>] = {
 <dfa.accept; wrap="\n ", separator=",", null="-1">
};

```

```

};
const static short <name>dfa<dfa.decisionNumber>_special[<dfa.numberofStates>] = {
<dfa.special; wrap="\n ", separator=",", null="-1">
};
<dfa.edgeTransitionClassMap.keys:{ table |
const static short <name>dfa<dfa.decisionNumber>_transition<i0>[] = {
<table; separator=", ", wrap="\n ", null="-1">
};
}; null="">
const static short <name>dfa<dfa.decisionNumber>_transition[] = {
<dfa.transitionEdgeTables:{ whichTable|<name>dfa<dfa.decisionNumber>_transition<whichTable>,};
separator="\n", null="0 /* fixme? */">
};
<! add attribute for the DFA !>
DFA\<char_type> dfa<dfa.decisionNumber>;
<! this should go in the initializer of the thing
- (id) init
{
if ((self = [super init]) != nil) {
eot = <name>dfa<dfa.decisionNumber>_eot;
eof = <name>dfa<dfa.decisionNumber>_eof;
min = <name>dfa<dfa.decisionNumber>_min;
max = <name>dfa<dfa.decisionNumber>_max;
accept = <name>dfa<dfa.decisionNumber>_accept;
special = <name>dfa<dfa.decisionNumber>_special;
if (!(transition = calloc(<dfa.numberofStates>, sizeof(void*)))) {
[self release];
return nil;
}
<dfa.transitionEdgeTables:{ whichTable|transition[<i0>] =
<name>dfa<dfa.decisionNumber>_transition<whichTable>,}; separator="\n", null="">
}
return self;
}
!>

```

```

<if(dfa.specialStateSTs)>
int specialStateTransition(int state)
{
int s = state;
switch (s) {
<dfa.specialStateSTs:{ state |
case <i0> : <! compressed special state numbers 0..n-1 !>
<state>}; separator="\n">
}
<if(backtracking)>
if (recognizer.isBacktracking()) {
recognizer.setFailed();

```

```

 return -1;
 }<\n>
<endif>
 noViableAlt(s, input);
}<\n>
<endif>

<\n>

// <dfa.description>
decision_type predictDFA<dfa.decisionNumber>(StreamType& input)
{
 /* mark current location (rewind automatically when the rewinder goes
 * out of scope */
 antlr3::Rewinder<\<position_type> markPoint(input.getPosition());
 goto s0; // goto start...
 // ...
 throw NoViableAltException(input.getPosition(), "<dfa.description>", <dfa.decisionNumber>, 0 /* fixme */);<\n>
}<\n>
>>

/** A state in a cyclic DFA */
cyclicDFAState(decisionNumber,stateNumber,edges,needErrorClause,semPredState) ::= <<
// cyclicDFAState
s<stateNumber>: {
 <if(semPredState)>
 input.rewind();<\n>
 <else>
 <tokenid_type()> LA<decisionNumber>_<stateNumber> = input.LA(1);
 <endif>
 <edges>
 <if(needErrorClause)>
 throw NoViableAltException(input.getPosition(), "<description>", <decisionNumber>, <stateNumber>);<\n>
 <endif><\n>
}<\n>
>>

/** Just like a fixed DFA edge, test the lookahead and indicate what
 * state to jump to next if successful.
 */
cyclicDFAEdge(labelExpr, targetStateNumber, edgeNumber, predicates) ::= <<
// cyclicDFAEdge
if ((<labelExpr> <if(predicates)>&& (<predicates>)<endif>)
{
 input.consume();
 goto s<targetStateNumber>;
}<\n>

```



```

>>

/** An edge pointing at end-of-token; essentially matches any char;
 * always jump to the target.
 */
eotDFAEdge(targetStateNumber,edgeNumber, predicates) ::= "goto s<targetStateNumber>";

// D F A E X P R E S S I O N S

andPredicates(left,right) ::= "<left> && <right>"

orPredicates(operands) ::= "<first(operands)><rest(operands):{ o | ||<o> }>"

notPredicate(pred) ::= "!<pred>"

evalPredicate(pred,description) ::= "<pred>"

evalSynPredicate(pred,description) ::= "<pred>()"

lookaheadTest(atom,k,atomAsInt) ::= "LA<decisionNumber>_<stateNumber>==<atom>"

/** Sometimes a lookahead test cannot assume that LA(k) is in a temp variable
 * somewhere. Must ask for the lookahead directly.
 */
isolatedLookaheadTest(atom,k,atomAsInt) ::= "input.LA(<k>)==<atom>"

lookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= <<
(LA<decisionNumber>_<stateNumber>\>=<lower> && LA<decisionNumber>_<stateNumber>\<=<upper>)
>>

isolatedLookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= "(input.LA(<k>)\>=<lower>
&& input.LA(<k>)\<=<upper>)"

setTest(ranges) ::= "<ranges; separator=\\\"\\\">"

// A T T R I B U T E S

globalAttributeScope(scope) ::= <<
<if(scope.attributes)>
protected static class <scope.name> {
 <scope.attributes:{<it.decl>;}; separator="\n">
}
protected Stack <scope.name>_stack = new Stack();<\n>
<endif>
>>

ruleAttributeScope(scope) ::= <<
<if(scope.attributes)>

```

```

protected static class <scope.name>_scope {
 <scope.attributes>{<it.decl>;}; separator="\n"
}
protected Stack <scope.name>_stack = new Stack();<\n>
<endif>
>>

returnType() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<ruleDescriptor.name>_return
<else>
<if(ruleDescriptor.singleValueReturnType)>
<ruleDescriptor.singleValueReturnType>
<else>
void
<endif>
<endif>
>>

ruleLabelType(referencedRule) ::= <<
<if(referencedRule.hasMultipleReturnValues)>
<referencedRule.name>_return
<else>
<if(referencedRule.singleValueReturnType)>
<referencedRule.singleValueReturnType>
<else>
void
<endif>
<endif>
>>

/** Using a type to init value map, try to init a type; if not in table
 * must be an object, default value is "null".
 */
initValue(typeName) ::= <<
<javaTypeInitMap.(typeName)>
>>

ruleLabelDef(label) ::= <<
<ruleLabelType(referencedRule=label.referencedRule)> <label.label.text> =
<initValue(typeName=ruleLabelType(referencedRule=label.referencedRule))>;<\n>
>>

returnScope(scope) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
public static class <returnType()> {
 <labelType> start, stop;
<if(buildAST)>

```

```

 <ASTLabelType> tree;
<else>
<if(buildTemplate)>
 StringTemplate st;
<endif>
<endif>
 <scope.attributes:{<it.decl>;}; separator="\n">
};
<endif>
>>

parameterScope(scope) ::= <<
<scope.attributes:{<it.decl>;}; separator=", ">
>>

/** Used in codegen.g to translate $x.y references.
 * I could have left actions as StringTemplates to be inserted in
 * the output (so they could use attributes inherited from surrounding
 * templates), but really wanted to pass in AttributeScope and Attribute
 * objects so this translation could query them. So, translation of
 * $x.y to executable code occurs before recognizerST.toString() occurs.
 * I.e., actions are just text strings during final code generation.
 */
globalAttributeRef(scope,attr) ::= <<
((<scope>)<scope>_stack.peek()).<attr.name>
>>

parameterAttributeRef(attr) ::= "<attr.name>"

scopeAttributeRef(scope,attr,index,negIndex) ::= <<
<if(negIndex)>
((<scope>_scope)<scope>_stack.elementAt(<scope>_stack.size()-<negIndex>-1)).<attr.name>
<else>
<if(index)>
((<scope>_scope)<scope>_stack.elementAt(<index>)).<attr.name>
<else>
((<scope>_scope)<scope>_stack.peek()).<attr.name>
<endif>
<endif>
>>

/** $x is either global scope or x is rule with dynamic scope; refers
 * to stack itself not top of stack. This is useful for predicates
 * like {$function.size()>0 && $function::name.equals("foo")}?
 */
isolatedDynamicScopeRef(scope) ::= "<scope>_stack"

/** reference an attribute of rule; might only have single return value */

```

```

ruleLabelRef(referencedRule,scope,attr) ::= <<
<if(referencedRule.singleValueReturnType)>
<scope>
<else>
<scope>.<attr.name>
<endif>
>>

returnAttributeRef(ruleDescriptor,attr) ::= <<
<if(ruleDescriptor.singleValueReturnType)>
<attr.name>
<else>
retval.<attr.name>
<endif>
>>

/** How to translate $tokenLabel */
tokenLabelRef(label) ::= "<label>"

/** ids+=ID {$ids} or e+=expr {$e} */
listLabelRef(label) ::= "list_<label>"

// not sure the next are the right approach; and they are evaluated early;
// they cannot see TREE_PARSER or PARSER attributes for example. :(

tokenLabelPropertyRef_text(scope,attr) ::= "<scope>.getText()"
tokenLabelPropertyRef_type(scope,attr) ::= "<scope>.getType()"
tokenLabelPropertyRef_line(scope,attr) ::= "<scope>.getLine()"
tokenLabelPropertyRef_pos(scope,attr) ::= "<scope>.getCharPositionInLine()"
tokenLabelPropertyRef_channel(scope,attr) ::= "<scope>.getChannel()"
tokenLabelPropertyRef_index(scope,attr) ::= "<scope>.getTokenIndex()"
tokenLabelPropertyRef_tree(scope,attr) ::= "<scope>_tree"

ruleLabelPropertyRef_start(scope,attr) ::= "<scope>.start"
ruleLabelPropertyRef_stop(scope,attr) ::= "<scope>.stop"
ruleLabelPropertyRef_tree(scope,attr) ::= "<scope>.tree"
ruleLabelPropertyRef_text(scope,attr) ::= "input.toString(<scope>.start,<scope>.stop)"
ruleLabelPropertyRef_st(scope,attr) ::= "<scope>.st"

/** Isolated $RULE ref ok in lexer as it's a Token */
lexerRuleLabel(label) ::= "<label>"

lexerRuleLabelPropertyRef_type(scope,attr) ::= "<scope>.getType()"
lexerRuleLabelPropertyRef_line(scope,attr) ::= "<scope>.getLine()"
lexerRuleLabelPropertyRef_pos(scope,attr) ::= "<scope>.getCharPositionInLine()"
lexerRuleLabelPropertyRef_channel(scope,attr) ::= "<scope>.getChannel()"
lexerRuleLabelPropertyRef_index(scope,attr) ::= "<scope>.getTokenIndex()"
lexerRuleLabelPropertyRef_text(scope,attr) ::= "<scope>.getText()"

```

```

// Somebody may ref $template or $tree or $stop within a rule:
rulePropertyRef_start(scope,attr) ::= "(<labelType>retval.start)"
rulePropertyRef_stop(scope,attr) ::= "(<labelType>retval.stop)"
rulePropertyRef_tree(scope,attr) ::= "(<ASTLabelType>retval.tree)"
rulePropertyRef_text(scope,attr) ::= "input.toString(retval.start,input.LT(-1))"
rulePropertyRef_st(scope,attr) ::= "retval.st"

// A C T I O N S

emit(type) ::= "emit(<type>);"

setType(type) ::= "setType(<type>);"

/** How to execute an action */
execAction(action) ::= <<
<if(backtracking)>
<if(actions.(actionScope).synpredgate)>
if (<actions.(actionScope).synpredgate>)
{
<action>
}
<else>
if (backtracking == 0)
{
<action>
}
<endif>
<else>
<action>
<endif>
>>

// M I S C (properties, etc...)

bitset(name, words64) ::= <<
public static final BitSet <name> = new BitSet(new long[] { <it>L};separator=", ">);<\n>
>>

tokenPrefix() ::= "TOK_"
codeFileExtension() ::= ".cpp"
// used in CPPTarget.java to generate the headerfile extension
headerFileExtension() ::= ".h"

true() ::= "true"
false() ::= "false"

```

Found in path(s):

```
* /opt/cola/permits/1204005060_1631853129.56/0/antlr-3-1-3-sources-4-
jar/org/antlr/codegen/templates/CPP/ CPP.stg
```

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```
/*
```

```
[The "BSD licence"]
```

```
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```

```
http://www.temporal-wave.com
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```
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```

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```
*/
```

```
/** Template overrides to add debugging to AST stuff. Dynamic inheritance
```

```
* hierarchy is set up as ASTDbg : AST : Dbg : Java by code generator.
```

```
*/
```

```
group ASTDbg;
```

```
parserMembers() ::= <<
```

```
protected DebugTreeAdaptor adaptor =
```

```
 new DebugTreeAdaptor(null,new CommonTreeAdaptor());
```

```
public void setTreeAdaptor(TreeAdaptor adaptor) {
```

```
 this.adaptor = new DebugTreeAdaptor(dbg,adaptor);
```

```
}
```

```
public TreeAdaptor getTreeAdaptor() {
```

```
 return adaptor;
```

```
}<\n>
```

```
>>
```

```
parserCtorBody() ::= <<
```

```
>>
```

```
createListenerAndHandshake() ::= <<
```

```
<super.createListenerAndHandshake(>
```

```
>>
```

```
ctorForPredefinedListener() ::= <<
```

```
>>
```

```
@rewriteElement.pregen() ::= ""
```

Found in path(s):

```
* /opt/cola/permits/1204005060_1631853129.56/0/antlr-3-1-3-sources-4-
jar/org/antlr/codegen/templates/C/ASTDbg.stg
```

No license file was found, but licenses were detected in source scan.

```
/*
```

```
[The "BSD licence"]
```

```
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*/
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/*
```

New style messages. This file contains the actual layout of the messages emitted by ANTLR.  
The text itself is coming out of the languages/\*stg files, according to the chosen locale.  
This file contains the default format ANTLR uses.  
\*/

group antlr;

location(file, line, column) ::= "<file>:<line>:<column>:"

message(id, text) ::= "<id> <text>"

report(location, message, type) ::= "<type><message.id>: <location> <message.text>"

wantsSingleLineMessage() ::= "false"

Found in path(s):

\* /opt/cola/permits/1204005060\_1631853129.56/0/antlr-3-1-3-sources-4-jar/org/antlr/tool/templates/messages/formats/antlr.stg

No license file was found, but licenses were detected in source scan.

/\* [The "BSD licence"]

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```

*/
group Delphi implements ANTLRCore;

csharpTypeInitMap ::= [
 "int": "0",
 "uint": "0",
 "long": "0",
 "ulong": "0",
 "float": "0.0",
 "double": "0.0",
 "bool": "False",
 "byte": "0",
 "sbyte": "0",
 "short": "0",
 "ushort": "0",
 "char": "#0",
 "string": "",
 "String": "",
 default: "nil" // anything other than an atomic type
]

/** The overall file structure of a recognizer; stores methods for rules
 * and cyclic DFAs plus support code.
 * LEXER (Boolean): should we generate lexer code?
 * PARSER (Boolean): should we generate parser code?
 * TREE_PARSER (Boolean): should we generate tree parser code?
 * actionScope (String): 'lexer', 'parser', 'tree_parser' or custom scope
 * actions (HashMap):
 * docComment (String): document comment
 * recognizer (Object): recognizer class generator
 * name (String): name of grammar
 * tokens (HashMap<name: String, type: Integer>):
 * tokenNames:
 * rules:
 * cyclicDFAs:
 * bitsets:
 * buildTemplate (Boolean): should we generate a string template?
 * buildAST (Boolean): should we generate an AST?
 * rewriteMode (Boolean): are we rewriting nodes?
 * profile (Boolean):
 * backtracking (Boolean): backtracking mode?
 * synpreds (): syntactic predicates
 * memoize (Boolean): should we memoize?
 * numRules (Integer): number of rules
 * fileName (String): fully qualified name of original .g file
 * ANTLRVersion (String): ANTLR version in Major.Minor.Build format
 * generatedTimestamp (String): date/time when the file is generated
 * trace (Boolean): should we trace input/output?

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* scopes:
* superClass (String): name of base class, or empty string
* literals:
*/
outputFile(LEXER,PARSER,TREE_PARSER, actionScope, actions,
 docComment, recognizer,
 name, tokens, tokenNames, rules, cyclicDFAs,
 bitsets, buildTemplate, buildAST, rewriteMode, profile,
 backtracking, synpreds, memoize, numRules,
 fileName, ANTLRVersion, generatedTimestamp, trace,
 scopes, superClass, literals) ::=
<<
unit <name>;

{$HINTS OFF}

// $ANTLR <ANTLRVersion> <fileName> <generatedTimestamp>

<actions.(actionScope).header>

interface

<@imports>
uses<\n>
<@end>
<actions.(actionScope).usesInterface>
<if(TREE_PARSER)>
 Antlr.Runtime.Tree,<\n>
<endif>
 Antlr.Runtime,
 Antlr.Runtime.Collections,
 Antlr.Runtime.Tools;

<docComment>
<recognizer>
>>

/** Generates source code for the lexer class
 * grammar (Grammar object)
 */
lexer(grammar, name, tokens, scopes, rules, numRules, labelType="Token",
 filterMode, superClass="Lexer") ::= <<
type
I<grammar.recognizerName> = interface(I<@superClassName><superClass><@end>)
end;

T<grammar.recognizerName> = class(T<@superClassName><superClass><@end>,
I<grammar.recognizerName>)

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strict private
 FCnt: array [0..<grammar.numberofDecisions>] of Byte;
 FLA: array [0..<grammar.numberofDecisions>, 0..255] of Integer;
 FException: ERecognitionException;
 procedure InitializeCyclicDFAs;
 <cyclicDFAs:cyclicDFADeclaration()>
public
 const
 <tokens:{<it.name> = <it.type>;} separator="\n">
 <scopes:{<if(it.isDynamicGlobalScope)><globalAttributeScope(scope=it)><endif>}>
strict private
 <actions.(actionScope).memberDeclarations>
public
 // delegates
 <grammar.delegates: {g|<g.delegateName(): I<superClass>; {<g.recognizerName>}}; separator="\n">
public
 // delegators
 <grammar.delegators: {g|<g.delegateName(): Pointer; {<g.recognizerName>}}; separator="\n">
 <last(grammar.delegators):{g|gParent: Pointer; {<g.recognizerName>}}>
protected
 { IBaseRecognizer }
 function GetGrammarFileName: String; override;
 <if(filterMode)>
 function AlreadyParsedRule(const Input: IIntStream;
 const RuleIndex: Integer): Boolean; override;
 procedure Memoize(const Input: IIntStream; const RuleIndex,
 RuleStartIndex: Integer); override;
protected
 { ILexer }
 function NextToken: IToken; override;<\n>
 <endif>
protected
 { ILexer }
 procedure DoTokens; override;
public
 constructor Create; overload;
 constructor Create(const AInput: ICharStream<grammar.delegators:{g}; const A<g.delegateName():
IBaseRecognizer{<g.recognizerName>}>); overload;
 constructor Create(const AInput: ICharStream; const AState: IRecognizerSharedState<grammar.delegators:{g};
const A<g.delegateName(): IBaseRecognizer{<g.recognizerName>}>); overload;

 <rules: {r | <if(!r.ruleDescriptor.isSynPred)><lexerRuleDeclaration(r)><endif>}>
 <synpreds:{p | <lexerSynpredDeclaration(p)>}>; separator="\n">
end;

implementation

uses

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<grammar.delegates: {g|<g.recognizerName>,}; separator="\n">
<grammar.delegates: {g|<g.recognizerName>,}; separator="\n">
<actions.(actionScope).usesImplementation>
SysUtils,
StrUtils,
Math;

{ T<grammar.recognizerName> }

constructor T<grammar.recognizerName>.Create;
begin
 InitializeCyclicDFAs;
end;

constructor T<grammar.recognizerName>.Create(const AInput: ICharStream<grammar.delegates:{g}; const
A<g:delegateName(): IBaseRecognizer{<g.recognizerName>}>);
begin
 Create(AInput, nil<grammar.delegates:{g}, A<g:delegateName()>>);
end;

constructor T<grammar.recognizerName>.Create(const AInput: ICharStream; const AState:
IRecognizerSharedState<grammar.delegates:{g}; const A<g:delegateName()>:
IBaseRecognizer{<g.recognizerName>}>);
begin
 inherited Create(AInput, AState);
 InitializeCyclicDFAs; { TODO: Necessary in Delphi??? Not removed yet. }
 <if(memoize)>
 <if(grammar.grammarIsRoot)>
 State.RuleMemoCount := <numRules>+1;<\n> <! index from 1..n !>
 <endif>
 <endif>
 <grammar.directDelegates:
 {g|<g:delegateName()> := T<g.recognizerName>.Create(AInput, State<trunc(g.delegates):{p|,
<p:delegateName()>>, Self);}; separator="\n">
 <grammar.delegates:
 {g|<g:delegateName()> := Pointer(A<g:delegateName()>);}; separator="\n">
 <last(grammar.delegates):{g|gParent := Pointer(A<g:delegateName()>);}>
 <actions.(actionScope).memberInitializations>
end;
<actions.(actionScope).memberImplementations>
function T<grammar.recognizerName>.GetGrammarFileName: String;
begin
 Result := '<fileName>';
end;

<if(filterMode)>
<filteringNextToken()>
<endif>

```

```

<rules; separator="\n\n">
<synpreds:{p | <lexerSynpred(p)>}>

procedure T<grammar.recognizerName>.InitializeCyclicDFAs;
begin
 <cyclicDFAs:{ dfa | FDFA<dfa.decisionNumber> :=
TDFA<dfa.decisionNumber>.Create(Self<@debugAddition()>); separator="\n">
 <cyclicDFAs:{ dfa | <if(dfa.specialStateSTs)>FDFA<dfa.decisionNumber>.SpecialStateTransitionHandler :=
DFA<dfa.decisionNumber>_SpecialStateTransition;<endif>}; separator="\n">
end;

<cyclicDFAs:cyclicDFA()> <! dump tables for all DFA !>
end.>>

lexerRuleDeclaration(rule) ::= <<
procedure m<rule.ruleName>(<rule.ruleDescriptor.parameterScope:parameterScope(scope=rule)>);<n>
>>

/** A override of Lexer.nextToken() that backtracks over mTokens() looking
 * for matches. No error can be generated upon error; just rewind, consume
 * a token and then try again. backtracking needs to be set as well.
 *
 * Make rule memoization happen only at levels above 1 as we start mTokens
 * at backtracking==1.
 */
filteringNextToken() ::= <<
function T<grammar.recognizerName>.NextToken: IToken;
var
 M: Integer;
begin
 while (True) do
 begin
 if (Input.LA(1) = Integer(cscEOF)) then
 Exit(TToken.EOF_TOKEN);

 State.Token := nil;
 State.Channel := TToken.DEFAULT_CHANNEL;
 State.TokenStartCharIndex := Input.Index;
 State.TokenStartCharPositionInLine := Input.CharPositionInLine;
 State.TokenStartLine := Input.Line;
 State.Text := "";
 try
 M := Input.Mark();
 State.Backtracking := 1; <! means we won't throw slow exception !>
 State.Failed := False;
 mTokens();
 State.Backtracking := 0;

```

```

<!
 mTokens backtracks with synpred at backtracking==2
 and we set the synpredgate to allow actions at level 1.
!>
 if (State.Failed) then
 begin
 Input.Rewind(M);
 Input.Consume; <! // advance one char and try again !>
 end
 else
 begin
 Emit;
 Exit(State.Token);
 end;
except
 on RE: ERecognitionException do
 begin
 // shouldn't happen in backtracking mode, but...
 ReportError(RE);
 Recover(RE);
 end;
end;
end;
end;

function T<grammar.recognizerName>.AlreadyParsedRule(const Input: IIntStream;
 const RuleIndex: Integer): Boolean;
begin
 if (State.Backtracking > 1) then
 Result := inherited AlreadyParsedRule(Input, RuleIndex)
 else
 Result := False;
 end;
end;

procedure T<grammar.recognizerName>.Memoize(const Input: IIntStream; const RuleIndex,
 RuleStartIndex: Integer);
begin
 if (State.Backtracking > 1) then
 inherited Memoize(Input, RuleIndex, RuleStartIndex);
 end;
end;

>>

filteringActionGate() ::= "(State.Backtracking = 1)"

/** How to generate a parser */
genericParser(grammar, name, scopes, tokens, tokenNames, rules, numRules,
 bitsets, inputStreamType, superClass, filterMode,

```

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 ASTLabelType="ANTLRInterface", labelType, members, rewriteElementType) ::= <<
type
<rules: {r | <genericParserRuleReturnType(rule=r, ruleDescriptor=r.ruleDescriptor)>>
I<grammar.recognizerName> = interface(I<@superClassName><superClass><@end>)
 <rules: {r | <genericParserRuleInterface(rule=r, ruleDescriptor=r.ruleDescriptor)>>
end;

T<grammar.recognizerName> = class(T<@superClassName><superClass><@end>,
I<grammar.recognizerName>)
<if(grammar.grammarIsRoot)>
public
 const
 TOKEN_NAMES: array [0..<length(tokenNames)>+3] of String = (
 '\<invalid>',
 '\<EOR>',
 '\<DOWN>',
 '\<UP>',
 <tokenNames; separator=",\n">);<\n>
<endif>
public
 const
 <tokens: {<it.name> = <it.type>;}; separator="\n">
public
 // delegates
 <grammar.delegates: {g|<g.delegateName(): I<superClass>; {<g.recognizerName>}}; separator="\n">
public
 // delegators
 <grammar.delegators: {g|<g.delegateName(): Pointer; {<g.recognizerName>}}; separator="\n">
 <last(grammar.delegators): {g|gParent: Pointer; {<g.recognizerName>}}>

 <scopes: {<if(it.isDynamicGlobalScope)><globalAttributeScopeDeclaration(scope=it)><endif>}>
<@members>
 <! WARNING. bug in ST: this is cut-n-paste into Dbg.stg !>
public
 constructor Create(const AInput: <inputStreamType><grammar.delegates: {g}; const A<g.delegateName():
IBaseRecognizer{<g.recognizerName>}}>); overload;
 constructor Create(const AInput: <inputStreamType>; const AState:
IRecognizerSharedState<grammar.delegates: {g}; const A<g.delegateName():
IBaseRecognizer{<g.recognizerName>}}>); overload;
<@end>
protected
 { IBaseRecognizer }
 function GetTokenNames: TStringArray; override;
 function GetGrammarFileName: String; override;
strict private
 <actions.(actionScope).memberDeclarations>
<rules: {r | <genericParserRuleDeclaration(rule=r, ruleDescriptor=r.ruleDescriptor)>>

```

```

<! generate rule/method definitions for imported rules so they
appear to be defined in this recognizer. !>
// Delegated rules
<grammar.delegatedRules:{ruleDescriptor| <delegatedRuleDeclaration(ruleDescriptor)>>>

<synpreds:{p | <synpredDeclaration(p)>}; separator="\n">
<cyclicDFAs:cyclicDFADeclaration()>
strict private
 FException: ERecognitionException;
 FLA: array [0..<grammar.numberofDecisions>, 0..255] of Integer;
 FCnt: array [0..<grammar.numberofDecisions>] of Byte;
 procedure InitializeCyclicDFAs;
<if(bitsets)>
public
 class var
 <bitsets:bitsetDecl(name={FOLLOW_<it.name>_in_<it.inName><it.tokenIndex>})>
public
 class procedure InitializeBitsets; static;<\n>
<endif>
end;

implementation

uses
 <grammar.delegates: {g|<g.recognizerName>}; separator="\n">
 <grammar.delegators: {g|<g.recognizerName>}; separator="\n">
 <actions.(actionScope).usesImplementation>
 SysUtils,
 StrUtils,
 Math;

{ T<grammar.recognizerName> }

constructor T<grammar.recognizerName>.Create(const AInput: <inputStreamType><grammar.delegators:{g}; const
A<g:delegateName(): IBaseRecognizer{<g.recognizerName>} }>);
begin
 Create(AInput, TRecognizerSharedState.Create<grammar.delegators:{g}, A<g:delegateName()>>);
end;

constructor T<grammar.recognizerName>.Create(const AInput: <inputStreamType>;
const AState: IRecognizerSharedState<grammar.delegators:{g}; const A<g:delegateName()>);
IBaseRecognizer{<g.recognizerName>} }>);
begin
 inherited Create(AInput, AState);
 <@membersConstructor>
 <@end>
 <parserCtorBody()>
 <grammar.directDelegates:{g|<g:delegateName()> := T<g.recognizerName>.Create(Input,

```



```

State<trunc(g.delegators):{p| <p:delegateName()>>, Self}); separator="\n">
<grammar.indirectDelegates:{g | <g:delegateName()> := <g.delegator.delegateName()>.<g:delegateName()>;};
separator="\n">
<last(grammar.delegators):{g|gParent := Pointer(A<g:delegateName()>);}>
<rules: {r | <ruleAttributeScopeInit(scope=r.ruleDescriptor.ruleScope)>>
<scopes:{<if(it.isDynamicGlobalScope)><globalAttributeScope(scope=it)><endif>>}>
<actions.(actionScope).memberInitializations>
end;
<actions.(actionScope).memberImplementations>

<grammar.delegatedRules:{ruleDescriptor| <delegatedRuleImplementation(ruleDescriptor)>}; separator="\n">
procedure T<grammar.recognizerName>.InitializeCyclicDFAs;
begin
<cyclicDFAs:{dfa | FDFA<dfa.decisionNumber> := TDFA<dfa.decisionNumber>.Create(Self);}; separator="\n">
<cyclicDFAs:{dfa | <if(dfa.specialStateSTs)>FDFA<dfa.decisionNumber>.SpecialStateTransitionHandler :=
DFA<dfa.decisionNumber>_SpecialStateTransition;<endif>}; separator="\n">
end;

<if(bitsets)>
class procedure T<grammar.recognizerName>.InitializeBitsets;
begin
<bitsets:bitset(name={FOLLOW_<it.name>_in_<it.inName><it.tokenIndex>}, words64=it.bits)>
end;
<endif>

<@membersImplementation>
<@end>

function T<grammar.recognizerName>.GetTokenNames: TStringArray;
var
I: Integer;
begin
SetLength(Result,Length(T<grammar.composite.rootGrammar.recognizerName>.TOKEN_NAMES));
for I := 0 to Length(T<grammar.composite.rootGrammar.recognizerName>.TOKEN_NAMES) - 1 do
Result[I] := T<grammar.composite.rootGrammar.recognizerName>.TOKEN_NAMES[I];
end;

function T<grammar.recognizerName>.GetGrammarFileName: String;
begin
Result := '<fileName>';
end;

<rules; separator="\n\n">
<synpreds:{p | <synpred(p)>}>

<cyclicDFAs:cyclicDFA()> <! dump tables for all DFA !>
<if(bitsets)>
initialization

```

```

T<grammar.recognizerName>.InitializeBitsets;<\n>
<endif>
end.>>

delegatedRuleDeclaration(ruleDescriptor) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
function <ruleDescriptor.name>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>):
I<returnType()>;<\n>
<else>
<if(ruleDescriptor.hasSingleReturnValue)>
function <ruleDescriptor.name>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>):
<returnType()>;<\n>
<else>
procedure <ruleDescriptor.name>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>);<\n>
<endif>
<endif>
>>

delegatedRuleImplementation(ruleDescriptor) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
function
T<grammar.recognizerName>.<ruleDescriptor.name>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>
): I<returnType()>;<\n>
<else>
<if(ruleDescriptor.hasSingleReturnValue)>
function
T<grammar.recognizerName>.<ruleDescriptor.name>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>
): <returnType()>;<\n>
<else>
procedure
T<grammar.recognizerName>.<ruleDescriptor.name>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>
);<\n>
<endif>
<endif>
begin
<if(ruleDescriptor.hasReturnValue)>Result :=<endif>
T<ruleDescriptor.grammar.recognizerName>(<ruleDescriptor.grammar:delegateName()>.Implementor).<ruleDescri
ptor.name>(<ruleDescriptor.parameterScope.attributes:{a|<a.name>} ; separator=" , ">);
end;

>>

parserCtorBody() ::= <<
InitializeCyclicDFAs;
<if(memoize)>
<if(grammar.grammarIsRoot)>
State.RuleMemoCount := <length(grammar.allImportedRules)>+1;<\n> <! index from 1..n !>
<endif>

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<endif>
<grammar.delegators: {g|<g:delegateName()> := Pointer(A<g:delegateName()>);}; separator="\n">
>>

parser(grammar, name, scopes, tokens, tokenNames, rules, numRules, bitsets, ASTLabelType, superClass="Parser",
labelType="Token", members={<actions.parser.members>}) ::= <<
<genericParser(inputStreamType="ITokenStream", rewriteElementType="Token", ...)>
>>

/** How to generate a tree parser; same as parser except the input
 * stream is a different type.
 */
treeParser(grammar, name, scopes, tokens, tokenNames, globalAction, rules, numRules, bitsets,
labelType={<ASTLabelType>}, ASTLabelType="object", superClass="TreeParser",
members={<actions.treeparser.members>}, filterMode) ::= <<
<genericParser(inputStreamType="ITreeNodeStream", rewriteElementType="Node", ...)>
>>

/** A simpler version of a rule template that is specific to the imaginary
 * rules created for syntactic predicates. As they never have return values
 * nor parameters etc..., just give simplest possible method. Don't do
 * any of the normal memoization stuff in here either; it's a waste.
 * As predicates cannot be inlined into the invoking rule, they need to
 * be in a rule by themselves.
 */
synpredRule(ruleName, ruleDescriptor, block, description, nakedBlock) ::=
<<
// $ANTLR start "<ruleName>"
procedure
T<grammar.recognizerName>.<ruleName>_fragment(<ruleDescriptor.parameterScope:parameterScope(scope=it)>)
;
var
Alt: array [0..<grammar.numberOfDecisions>] of Integer;
<ruleLabelDefVars()>
begin
<ruleLabelDefs()>
<if(trace)>
TraceIn('<ruleName>_fragment', <ruleDescriptor.index>);
try
<block>
finally
TraceOut('<ruleName>_fragment', <ruleDescriptor.index>);
end;
<else>
<block>
<endif>
end;
// $ANTLR end "<ruleName>"

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```
synpredDecls(name) ::= <<
SynPredPointer <name>;<\n>
>>
```

```
synpred(name) ::= <<
```

```
function T<grammar.recognizerName>.<name>: Boolean;
var
 Start: Integer;
 Success: Boolean;
begin
 State.Backtracking := State.Backtracking + 1;
 <@start(>
 Start := Input.Mark;
 try
 <name>_fragment(); // can never throw exception
 except
 on RE: ERecognitionException do
 WriteLn('Impossible: ' + RE.ToString);
 end;
 Success := not State.Failed;
 Input.Rewind(Start);
 <@stop(>
 State.Backtracking := State.Backtracking - 1;
 State.Failed := False;
 Result := Success;
end;<\n>
>>
```

```
lexerSynpred(name) ::= <<
<synpred(name)>
>>
```

```
lexerSynpredDeclaration(name) ::= <<
function <name>: Boolean;
procedure <name>_fragment;
>>
```

```
synpredDeclaration(name) ::= <<
function <name>: Boolean;
procedure <name>_fragment;
>>
```

```
ruleMemoization(name) ::= <<
<if(memoize)>
if ((State.Backtracking > 0) and AlreadyParsedRule(Input, <ruleDescriptor.index>)) then
```

```

Exit(<ruleReturnValue(>);
<endif>
>>

/** How to test for failure and return from rule */
checkRuleBacktrackFailure() ::= <<
<if(backtracking)><\n>if (State.Failed) then Exit(<ruleReturnValue(>);<\n><endif>
>>

/** This rule has failed, exit indicating failure during backtrack */
ruleBacktrackFailure() ::= <<
<if(backtracking)>if (State.Backtracking > 0) then
begin
State.Failed := True;
Exit(<ruleReturnValue(>);
end;<endif>
>>

genericParserRuleDeclaration(rule, ruleDescriptor) ::= <<
<if(ruleDescriptor.isSynPred)>
<else>
<ruleAttributeScopeDeclaration(scope=ruleDescriptor.ruleScope)>
<returnScopeDeclaration(scope=ruleDescriptor.returnScope)>
public
<if(ruleDescriptor.hasMultipleReturnValues)>
function <rule.ruleName>: I<returnType(>);<\n>
<else>
<if(ruleDescriptor.hasSingleReturnValue)>
function <rule.ruleName>: <returnType(>);<\n>
<else>
procedure <rule.ruleName>;<\n>
<endif>
<endif>
<endif>
>>

genericParserRuleInterface(rule, ruleDescriptor) ::= <<
<if(ruleDescriptor.isSynPred)>
<else>
<if(ruleDescriptor.hasMultipleReturnValues)>
function <rule.ruleName>: I<returnType(>);<\n>
<else>
<if(ruleDescriptor.hasSingleReturnValue)>
function <rule.ruleName>: <returnType(>);<\n>
<else>
procedure <rule.ruleName>;<\n>
<endif>
<endif>
>>

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<endif>
>>

genericParserRuleReturnType(rule, ruleDescriptor) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<if(ruleDescriptor.isSynPred)>
<else>
I<returnType()> = interface(I<if(TREE_PARSER)>Tree<else>Parser<endif>RuleReturnScope)
end;<\n>
<endif>
<endif>
>>

/** How to generate code for a rule. This includes any return type
 * data aggregates required for multiple return values.
 */
rule(ruleName,ruleDescriptor,block,emptyRule,description,exceptions,finally,memoize) ::= <<
<ruleAttributeScope(scope=ruleDescriptor.ruleScope)>
<returnScope(scope=ruleDescriptor.returnScope)>

// $ANTLR start "<ruleName>"
(* <fileName>:<description> *)
<if(ruleDescriptor.hasMultipleReturnValues)>
function T<grammar.recognizerName>.<ruleName>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>):
I<returnType()>;
<else>
<if(ruleDescriptor.hasSingleReturnValue)>
function T<grammar.recognizerName>.<ruleName>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>):
<returnType()>;
<else>
procedure
T<grammar.recognizerName>.<ruleName>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>);
<endif>
<endif>

var
<ruleDescriptor.actions.vars>
Locals: TLocalStorage;
<if(ruleDescriptor.hasMultipleReturnValues)>
RetVal: I<returnType()>;<\n>
<else>
<if(ruleDescriptor.hasSingleReturnValue)>
RetVal: <returnType()>;<\n>
<else>
<endif>
<endif>
Alt: array [0..<grammar.numberofDecisions>] of Integer;
<ruleDeclarationVars()>

```

```

<ruleLabelDefVars()>
begin
Locals.Initialize;
try
<if(trace)>TraceIn('<ruleName>', <ruleDescriptor.index>);<endif>
<ruleScopeSetUp()>
<ruleDeclarations()>
<ruleLabelDefs()>
<ruleDescriptor.actions.init>
<@preamble()>
try
try
<ruleMemoization(name=ruleName)>
<block>
<ruleCleanUp()>
<(ruleDescriptor.actions.after):execAction()>
<if(exceptions)>
<exceptions: {e|<catch(decl=e.decl,action=e.action)><\n}>}>
<else>
<if(!emptyRule)>
<if(actions.(actionScope).rulecatch)>
<actions.(actionScope).rulecatch>
<else>
except
on RE: ERecognitionException do
begin
ReportError(RE);
Recover(Input,RE);
<@setErrorReturnValue()>
end;<\n>
<endif>
<endif>
<endif>
end;
finally
<if(trace)>TraceOut("<ruleName>", <ruleDescriptor.index>);<endif>
<memoize()>
<ruleScopeCleanUp()>
<finally>
end;
<@postamble()>
finally
Locals.Finalize;
end;
Exit(<ruleReturnValue()>);
end;
// $ANTLR end "<ruleName>"
>>

```

```

catch(decl,action) ::= <<
catch (<e.decl>)
{
 <e.action>
}
>>

```

```

ruleDeclarations() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
RetVal := T<returnType()>.Create;
RetVal.Start := Input.LT(1);<\n>
<else>
<ruleDescriptor.returnScope.attributes: { a |
<a.name> := <if(a.initValue)><a.initValue><else><initValue(a.type)><endif>;
}>
<endif>
<if(memoize)>
<ruleDescriptor.name>_StartIndex := Input.Index();
<endif>
>>

```

```

ruleDeclarationVars() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<else>
<ruleDescriptor.returnScope.attributes: { a |
<a.name>: <a.type>;
}>
<endif>
<if(memoize)>
<ruleDescriptor.name>_StartIndex: Integer;
<endif>
>>

```

```

ruleScopeSetUp() ::= <<
<ruleDescriptor.useScopes: {<it>Stack.Push(T<it>Scope.Create);}; separator="\n">
<ruleDescriptor.ruleScope: {<it.name>Stack.Push(T<it.name>Scope.Create);}; separator="\n">
>>

```

```

ruleScopeCleanUp() ::= <<
<ruleDescriptor.useScopes: {<it>Stack.Pop();}; separator="\n">
<ruleDescriptor.ruleScope: {<it.name>Stack.Pop();}; separator="\n">
>>

```

```

ruleLabelDefs() ::= <<
<[ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels]: {<it.label.text> := nil;}; separator="\n">
<[ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels]: {list_<it.label.text> := nil;}; separator="\n">
<ruleDescriptor.ruleLabels:ruleLabelDef(label=it); separator="\n">

```



```

<ruleDescriptor.ruleListLabels:{ll<ll.label.text> := nil;}; separator="\n">
>>

ruleLabelDefVars() ::= <<
<[ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels]:{<it.label.text>: I<labelType>;}; separator="\n">
<[ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels]:{list_<it.label.text>: IList<IANTLRInterface>;};
separator="\n">
<ruleDescriptor.ruleLabels:ruleLabelDefVar(label=it); separator="\n">
<ruleDescriptor.ruleListLabels:{ll<ll.label.text>: <ruleLabelType(referencedRule=ll.referencedRule)>;};
separator="\n">
>>

lexerRuleLabelDefs() ::= <<
<[ruleDescriptor.tokenLabels,
ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleLabels]
: {<it.label.text> := nil;}; separator="\n"
>
<ruleDescriptor.charLabels:{int <it.label.text>;}; separator="\n">
<[ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleListLabels,
ruleDescriptor.ruleListLabels]
: {List_<it.label.text> := nil;}; separator="\n"
>
>>

lexerRuleLabelDefDeclarations() ::= <<
<[ruleDescriptor.tokenLabels,
ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleLabels]
: {<it.label.text>: I<labelType>;}; separator="\n"
>
<ruleDescriptor.charLabels:{int <it.label.text>;}; separator="\n">
<[ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleListLabels,
ruleDescriptor.ruleListLabels]
: {List_<it.label.text>: IList;}; separator="\n"
>
>>

ruleReturnValue() ::= <<
<if(!ruleDescriptor.isSynPred)>
<if(ruleDescriptor.hasReturnValue)>
<if(ruleDescriptor.hasSingleReturnValue)>
<ruleDescriptor.singleValueReturnName>
<else>
RetVal
<endif>

```

```

<else>
<! nil !>
<endif>
<endif>
>>

ruleCleanup() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<if(!TREE_PARSER)>
RetVal.Stop := Input.LT(-1);
<endif>
<endif>
>>

memoize() ::= <<
<if(memoize)>
<if(backtracking)>
if (State.Backtracking > 0) then
Memoize(Input, <ruleDescriptor.index>, <ruleDescriptor.name>_StartIndex);
<endif>
<endif>
>>

/** How to generate a rule in the lexer; naked blocks are used for
* fragment rules.
*/
lexerRule(ruleName,nakedBlock,ruleDescriptor,block,memoize) ::= <<
// $ANTLR start "<ruleName>"
<ruleDescriptor.parameterScope>
procedure
T<grammar.recognizerName>.m<ruleName>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>);
var
<ruleDescriptor.actions.vars>
Locals: TLocalStorage;
TokenType, Channel: Integer;
Alt: array [0..<grammar.numberofDecisions>] of Integer;
<lexerRuleLabelDefDeclarations()>
begin
Locals.Initialize;
try
<ruleAttributeScope(scope=ruleDescriptor.ruleScope)>
<if(trace)>TraceIn("<ruleName>", <ruleDescriptor.index>);<endif>
<ruleScopeSetUp()>
<ruleDeclarations()>
try
<if(nakedBlock)>
<ruleMemoization(name=ruleName)>
<lexerRuleLabelDefs()>

```

```

 <ruleDescriptor.actions.init>
 <block><\n>
<else>
 TokenType := <ruleName>;
 Channel := DEFAULT_TOKEN_CHANNEL;
 <ruleMemoization(name=ruleName)>
 <lexerRuleLabelDefs()>
 <ruleDescriptor.actions.init>
 <block>
 <ruleCleanup()>
 State.TokenType := TokenType;
 State.Channel := Channel;
 <(ruleDescriptor.actions.after):execAction()>
<endif>
 finally
 <if(trace)>TraceOut("<ruleName>", <ruleDescriptor.index>);<endif>
 <ruleScopeCleanup()>
 <memoize()>
 end;
 finally
 Locals.Finalize;
 end;
end;
// $ANTLR end "<ruleName>"
>>

/** How to generate code for the implicitly-defined lexer grammar rule
 * that chooses between lexer rules.
 */
tokensRule(ruleName,nakedBlock,args,block,ruleDescriptor) ::= <<
procedure T<grammar.recognizerName>.mTokens;
var
 Alt: array [0..<grammar.numberOfDecisions>] of Integer;
begin
 <block>
end;

procedure T<grammar.recognizerName>.DoTokens;
begin
 mTokens;
end;
>>

// S U B R U L E S

/** A (...) subrule with multiple alternatives */
block(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
(* <fileName>:<description> *)

```

```

Alt[<decisionNumber>] := <maxAlt>;
<decls>
<@predecision()>
<decision>
<@postdecision()>
<@prebranch()>
case Alt[<decisionNumber>] of
 <alts:altSwitchCase()>
end;
<@postbranch()>
>>

```

```

/** A rule block with multiple alternatives */
ruleBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
(* <fileName>:<description> *)
Alt[<decisionNumber>] := <maxAlt>;
<decls>
<@predecision()>
<decision>
<@postdecision()>
case Alt[<decisionNumber>] of
 <alts:altSwitchCase()>
end;
>>

```

```

ruleBlockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
(* <fileName>:<description> *)
<decls>
<@prealt()>
<alts>
<@postalt()>
>>

```

```

/** A special case of a (...) subrule with a single alternative */
blockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
(* <fileName>:<description> *)
<decls>
<@prealt()>
<alts>
<@postalt()>
>>

```

```

/** A (..)+ block with 1 or more alternatives */
positiveClosureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
(* <fileName>:<description> *)
FCnt[<decisionNumber>] := 0;
<decls>

```

```

<@preloop()>
while (True) do
begin
Alt[<decisionNumber>] := <maxAlt>;
<@predecision()>
<decision>
<@postdecision()>
case Alt[<decisionNumber>] of
 <alts:altSwitchCase()>
else
 begin
 if (FCnt[<decisionNumber>] >= 1) then
 Break;
 <ruleBacktrackFailure()>
 raise EEarlyExitException.Create(<decisionNumber>, Input);
 <@earlyExitException()>
 end;
end;
Inc(FCnt[<decisionNumber>]);
end;
<@postloop()>
>>

```

positiveClosureBlockSingleAlt ::= positiveClosureBlock

*/\*\* A (..)\* block with 1 or more alternatives \*/*

closureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::=

<<

(\* <fileName>:<description> \*)

<decls>

<@preloop()>

while (True) do

begin

Alt[<decisionNumber>] := <maxAlt>;

<@predecision()>

<decision>

<@postdecision()>

case Alt[<decisionNumber>] of

<alts:altSwitchCase()>

else

Break;

end;

end;

<@postloop()>

>>

closureBlockSingleAlt ::= closureBlock

```

/** Optional blocks (x)? are translated to (x|) by before code generation
 * so we can just use the normal block template
 */
optionalBlock ::= block

optionalBlockSingleAlt ::= block

/** A case in a switch that jumps to an alternative given the alternative
 * number. A DFA predicts the alternative and then a simple switch
 * does the jump to the code that actually matches that alternative.
 */
altSwitchCase() ::= <<
<i>:
<@prealt()>
<it><\n>
>>

/** An alternative is just a list of elements; at outermost level */
alt(elements,altNum,description,autoAST,outerAlt,treeLevel,rew) ::= <<
(* <fileName>:<description> *)
begin
<@declarations()>
<elements:element()>
<rew>
<@cleanup()>
end;
>>

/** What to emit when there is no rewrite. For auto build
 * mode, does nothing.
 */
noRewrite(rewriteBlockLevel, treeLevel) ::= ""

// E L E M E N T S

/** Dump the elements one per line */
element() ::= <<
<@prematch()>
<it.el>
>>

/** match a token optionally with a label in front */
tokenRef(token,label,elementIndex,hetero) ::= <<
<if(label)><label> := <endif>Match(Input, <token>,
FOLLOW_<token>_in_<ruleName><elementIndex>)<if(label)> as
I<labelType><endif>;<\n><checkRuleBacktrackFailure()>
>>

```

```

/** ids+=ID */
tokenRefAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRef(...)>
<listLabel(elem=label,...)>
>>

listLabel(label,elem) ::= <<
if (list_<label> = nil) then list_<label> := TList<IANTLRInterface>.Create;
list_<label>.Add(<elem>);<\n>
>>

/** match a character */
charRef(char,label) ::= <<
<if(label)>
<label> := Input.LA(1);<\n>
<endif>
Match(<char>); <checkRuleBacktrackFailure()>
>>

/** match a character range */
charRangeRef(a,b,label) ::= <<
<if(label)>
<label> := Input.LA(1);<\n>
<endif>
MatchRange(<a>,); <checkRuleBacktrackFailure()>
>>

/** For now, sets are interval tests and must be tested inline */
matchSet(s,label,elementIndex,postmatchCode="") ::= <<
<if(label)>
<if(LEXER)>
<label> := Input.LA(1);<\n>
<else>
<label> := Input.LT(1) as I<labelType>;<\n>
<endif>
<endif>
if (<s>) then
begin
Input.Consume;
<postmatchCode>
<if(!LEXER)>
State.ErrorRecovery := False;<endif>
<if(backtracking)>State.Failed := False;<endif>
end
else
begin
<ruleBacktrackFailure()>
FException := EMismatchedSetException.Create(nil, Input);

```

```

<@mismatchedSetException()>
<if(LEXER)>
Recover(FException);
raise FException;<\n>
<else>
raise FException;
<! use following code to make it recover inline; remove throw mse;
RecoverFromMismatchedSet(input,mse,FOLLOW_set_in_<ruleName><elementIndex>);
!>
<endif>
end;<\n>
>>

```

```

matchRuleBlockSet ::= matchSet

```

```

matchSetAndListLabel(s,label,elementIndex,postmatchCode) ::= <<
<matchSet(...)>
<listLabel(elem=label,...)>
>>

```

```

/** Match a string literal */
lexerStringRef(string,label) ::= <<
<if(label)>
Locals.AsInteger['<label>Start'] := CharIndex;
Match(<string>); <checkRuleBacktrackFailure()>
<label> := TCommonToken.Create(Input, TToken.INVALID_TOKEN_TYPE, TToken.DEFAULT_CHANNEL,
Locals.AsInteger['<label>Start'], CharIndex-1);
<else>
Match(<string>); <checkRuleBacktrackFailure()>
<endif>
>>

```

```

wildcard(label,elementIndex) ::= <<
<if(label)>
<label> := Input.LT(1) as I<labelType>;<\n>
<endif>
MatchAny(input); <checkRuleBacktrackFailure()>
>>

```

```

wildcardAndListLabel(label,elementIndex) ::= <<
<wildcard(...)>
<listLabel(elem=label,...)>
>>

```

```

/** Match . wildcard in lexer */
wildcardChar(label, elementIndex) ::= <<
<if(label)>
<label> := Input.LA(1);<\n>

```



```

<endif>
MatchAny(); <checkRuleBacktrackFailure()>
>>

wildcardCharListLabel(label, elementIndex) ::= <<
<wildcardChar(...)>
<listLabel(elem=label,...)>
>>

/** Match a rule reference by invoking it possibly with arguments
 * and a return value or values. The 'rule' argument was the
 * target rule name, but now is type Rule, whose toString is
 * same: the rule name. Now though you can access full rule
 * descriptor stuff.
 */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
PushFollow(FOLLOW_<rule.name>_in_<ruleName><elementIndex>);
<if(label)>
<label> := <if(scope)><scope:delegateName()>.<endif><rule.name><(args; separator=" ">);<\n>
<else>
<if(scope)>T<scope.recognizerName>(IANTLRObject(<scope:delegateName()>).Implementor).<endif><rule.name>
><(args; separator=" ">);<\n>
<endif>
State.FollowingStackPointer := State.FollowingStackPointer - 1;
<checkRuleBacktrackFailure()>
>>

/** ids+=r */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>
<listLabel(elem=label,...)>
>>

/** A lexer rule reference.
 *
 * The 'rule' argument was the target rule name, but now
 * is type Rule, whose toString is same: the rule name.
 * Now though you can access full rule descriptor stuff.
 */
lexerRuleRef(rule,label,args,elementIndex,scope) ::= <<
<if(label)>
Locals.AsInteger['<label>Start<elementIndex>'] := CharIndex;
<if(scope)><scope:delegateName()>.<endif>m<rule.name><(args; separator=" ">);
<checkRuleBacktrackFailure()>
<label> := TCommonToken.Create(Input, TToken.INVALID_TOKEN_TYPE, TToken.DEFAULT_CHANNEL,
Locals.AsInteger['<label>Start<elementIndex>'], CharIndex - 1);
<else>
<if(scope)><(scope:delegateName()>).Implementor as T<scope.recognizerName>.<endif>m<rule.name><(args;

```

```

separator=", ">); <checkRuleBacktrackFailure()>
<endif>
>>

/** i+=INT in lexer */
lexerRuleRefAndListLabel(rule,label,args,elementIndex,scope) ::= <<
<lexerRuleRef(...)>
<listLabel(elem=label,...)>
>>

/** EOF in the lexer */
lexerMatchEOF(label,elementIndex) ::= <<
<if(label)>
Locals.AsInteger['<label>Start<elementIndex>'] := CharIndex;
Match(EOF); <checkRuleBacktrackFailure()>
Locals['<label>'] := TCommonToken.Create(Input, EOF, TToken.DEFAULT_CHANNEL,
Locals.AsInteger['<label>Start<elementIndex>'], CharIndex-1);
<else>
Match(EOF); <checkRuleBacktrackFailure()>
<endif>
>>

/** match ^(root children) in tree parser */
tree(root, actionsAfterRoot, children, nullableChildList,
enclosingTreeLevel, treeLevel) ::= <<
<root:element()>
<actionsAfterRoot:element()>
<if(nullableChildList)>
if (Input.LA(1) = TToken.DOWN) then
begin
Match(Input, TToken.DOWN, nil); <checkRuleBacktrackFailure()>
<children:element()>
Match(Input, TToken.UP, nil); <checkRuleBacktrackFailure()>
end;
<else>
Match(Input, TToken.DOWN, nil); <checkRuleBacktrackFailure()>
<children:element()>
Match(Input, TToken.UP, nil); <\n><checkRuleBacktrackFailure()>
<endif>
>>

/** Every predicate is used as a validating predicate (even when it is
* also hoisted into a prediction expression).
*/
validateSemanticPredicate(pred,description) ::= <<
if (not (<evalPredicate(...)>)) then
begin
<ruleBacktrackFailure()>

```

```

 raise EFailedPredicateException.Create(Input, '<ruleName>', '<description>');
end;<\n>
>>

// F i x e d D F A (if-then-else)

dfaState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
FLA[<decisionNumber>,<stateNumber>] := Input.LA(<k>);<\n>
<edges; separator="\nelse ">
else
begin
<if(eotPredictsAlt)>
 Alt[<decisionNumber>] := <eotPredictsAlt>;<\n>
<else>
 <ruleBacktrackFailure()>
 raise ENoViableAltException.Create('<description>', <decisionNumber>, <stateNumber>, Input);<\n>
<endif>
end;
>>

/** Same as a normal DFA state except that we don't examine lookahead
 * for the bypass alternative. It delays error detection but this
 * is faster, smaller, and more what people expect. For (X)? people
 * expect "if (LA(1)==X) match(X);" and that's it.
 */
dfaOptionalBlockState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
FLA[<decisionNumber>,<stateNumber>] := Input.LA(<k>);<\n>
<edges; separator="\nelse ">;
>>

/** A DFA state that is actually the loopback decision of a closure
 * loop. If end-of-token (EOT) predicts any of the targets then it
 * should act like a default clause (i.e., no error can be generated).
 * This is used only in the lexer so that for ('a')* on the end of a rule
 * anything other than 'a' predicts exiting.
 */
dfaLoopbackState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
FLA[<decisionNumber>,<stateNumber>] := Input.LA(<k>);
<edges; separator="\nelse ">;<\n>
<if(eotPredictsAlt)>
<if(!edges)>
Alt[<decisionNumber>] := <eotPredictsAlt>; <! if no edges, don't gen ELSE !>
<else>
else
begin
 Alt[<decisionNumber>] := <eotPredictsAlt>;
end;<\n>
<endif>

```

```

<endif>
>>

/** An accept state indicates a unique alternative has been predicted */
dfaAcceptState(alt) ::= "Alt[<decisionNumber>] := <alt>";

/** A simple edge with an expression. If the expression is satisfied,
 * enter to the target state. To handle gated productions, we may
 * have to evaluate some predicates for this edge.
 */
dfaEdge(labelExpr, targetState, predicates) ::= <<
if ((<labelExpr>)<if(predicates)> and (<predicates>)<endif>) then
begin
 <targetState>
end <! no ; here !>
>>

// F i x e d D F A (switch case)

/** A DFA state where a SWITCH may be generated. The code generator
 * decides if this is possible: CodeGenerator.canGenerateSwitch().
 */
dfaStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
case Input.LA(<k>) of
 <edges; separator="\n">
else
 begin
 <if(eotPredictsAlt)>
 Alt[<decisionNumber>] := <eotPredictsAlt>;
 <else>
 <ruleBacktrackFailure()>
 <@noViableAltException()>
 raise ENoViableAltException.Create('<description>', <decisionNumber>, <stateNumber>, Input);<\n>
 <endif>
 end;
end;<\n>
>>

dfaOptionalBlockStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
case Input.LA(<k>) of
 <edges; separator="\n">
end;<\n>
>>

dfaLoopbackStateSwitch(k, edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
case Input.LA(<k>) of
 <edges; separator="\n"><\n>
 <if(eotPredictsAlt)>

```

```

else
 Alt[<decisionNumber>] := <eotPredictsAlt>;<\n>
<endif>
end;<\n>
>>

dfaEdgeSwitch(labels, targetState) ::= <<
<labels:{<it>}; separator=",\n">:
 begin
 <targetState>
 end;
>>

// C y c l i c D F A

/** The code to initiate execution of a cyclic DFA; this is used
 * in the rule to predict an alt just like the fixed DFA case.
 * The <name> attribute is inherited via the parser, lexer, ...
 */
dfaDecision(decisionNumber,description) ::= <<
Alt[<decisionNumber>] := FDFA<decisionNumber>.Predict(Input);
>>

/* Dump DFA tables.
 */
cyclicDFADeclaration(dfa) ::= <<
strict protected
type
 TDFA<dfa.decisionNumber> = class(TDFA)
 protected
 { IDFA }
 function Description: String; override;
 public
 constructor Create(const ARecognizer: IBaseRecognizer);
 end;
var
 FDFA<dfa.decisionNumber>: IDFA;
<if(dfa.specialStateSTs)>
strict protected
function DFA<dfa.decisionNumber>_SpecialStateTransition(const DFA: IDFA; S: Integer;
 const AInput: IIntStream): Integer;<endif>
>>

cyclicDFA(dfa) ::= <<
{ T<grammar.recognizerName>.TDFA<dfa.decisionNumber> }

constructor T<grammar.recognizerName>.TDFA<dfa.decisionNumber>.Create(const ARecognizer:
IBaseRecognizer);

```

```

const
DFA<dfa.decisionNumber>_EOT = '<dfa.javaCompressedEOT; wrap=""+\n "'>;
DFA<dfa.decisionNumber>_EOF = '<dfa.javaCompressedEOF; wrap=""+\n "'>;
DFA<dfa.decisionNumber>_MIN = '<dfa.javaCompressedMin; wrap=""+\n "'>;
DFA<dfa.decisionNumber>_MAX = '<dfa.javaCompressedMax; wrap=""+\n "'>;
DFA<dfa.decisionNumber>_ACCEPT = '<dfa.javaCompressedAccept; wrap=""+\n "'>;
DFA<dfa.decisionNumber>_SPECIAL = '<dfa.javaCompressedSpecial; wrap=""+\n "'>;
DFA<dfa.decisionNumber>_TRANSITION: array [0..<length(dfa.javaCompressedTransition)>-1] of String = (
 <dfa.javaCompressedTransition:{s|<s; wrap=""+\n"'>}; separator=",\n">);
begin
inherited Create;
Recognizer := ARecognizer;
DecisionNumber := <dfa.decisionNumber>;
EOT := TDFA.UnpackEncodedString(DFA<dfa.decisionNumber>_EOT);
EOF := TDFA.UnpackEncodedString(DFA<dfa.decisionNumber>_EOF);
Min := TDFA.UnpackEncodedStringToUnsignedChars(DFA<dfa.decisionNumber>_MIN);
Max := TDFA.UnpackEncodedStringToUnsignedChars(DFA<dfa.decisionNumber>_MAX);
Accept := TDFA.UnpackEncodedString(DFA<dfa.decisionNumber>_ACCEPT);
Special := TDFA.UnpackEncodedString(DFA<dfa.decisionNumber>_SPECIAL);
Transition := TDFA.UnpackEncodedStringArray(DFA<dfa.decisionNumber>_TRANSITION);
end;

function T<grammar.recognizerName>.TDFA<dfa.decisionNumber>.Description: String;
begin
 Result := '<dfa.description>';
end;<\n>
<if(dfa.specialStateSTs)>
function T<grammar.recognizerName>.DFA<dfa.decisionNumber>_SpecialStateTransition(const DFA: IDFA; S:
Integer;
const AInput: IIntStream): Integer;
var
 Locals: TLocalStorage;
 <if(LEXER)>
 Input: IIntStream;
 <endif>
 <if(PARSER)>
 Input: ITokenStream;
 <endif>
 <if(TREE_PARSER)>
 Input: ITreeNodeStream;
 <endif>
 _S: Integer;
 NVAE: ENoViableAltException;
begin
 Result := -1;
 Locals.Initialize;
 try
 <if(LEXER)>

```

```

Input := AInput;
<endif>
<if(PARSER)>
Input := AInput as ITokenStream;
<endif>
<if(TREE_PARSER)>
Input := AInput as ITreeNodeStream;
<endif>
_S := S;
case S of
 <dfa.specialStateSTs:{state | <i0>: begin<! compressed special state numbers 0..n-1 !>
 <state> <\n> end;}; separator="\n">
end;
<if(backtracking)>
if (State.Backtracking > 0) then
begin
 State.Failed := True;
 Exit(-1);
end;<\n>
<endif>
NVAE := ENoViableAltException.Create(DFA.Description, <dfa.decisionNumber>, _S, Input);
DFA.Error(NVAE);
raise NVAE;
finally
 Locals.Finalize;
end;
end;<\n>
<endif>
>>

/** A state in a cyclic DFA; it's a special state and part of a big switch on
 * state.
 */
cyclicDFAState(decisionNumber,stateNumber,edges,needErrorClause,semPredState) ::= <<
FLA[<decisionNumber>,<stateNumber>] := Input.LA(1);<\n>
<if(semPredState)> <! get next lookahead symbol to test edges, then rewind !>
Locals.AsInteger['index<decisionNumber>_<stateNumber>'] := Input.Index;
Input.Rewind;<\n>
<endif>
S := -1;
<edges; separator="\nelse ">;
<if(semPredState)> <! return input cursor to state before we rewound !>
Input.Seek(Locals.AsInteger['index<decisionNumber>_<stateNumber>']);<\n>
<endif>
if (S >= 0) then
 Exit(S);
>>

```

```

/** Just like a fixed DFA edge, test the lookahead and indicate what
 * state to jump to next if successful.
 */
cyclicDFAEdge(labelExpr, targetStateNumber, edgeNumber, predicates) ::= <<
if ((<labelExpr><if(predicates)> and (<predicates><endif>) then
 S := <targetStateNumber>
>>

/** An edge pointing at end-of-token; essentially matches any char;
 * always jump to the target.
 */
eotDFAEdge(targetStateNumber,edgeNumber, predicates) ::= <<
S := <targetStateNumber>;<n>
>>

// D F A E X P R E S S I O N S

andPredicates(left,right) ::= "((<left>) and (<right>))"

orPredicates(operands) ::= "((<first(operands)><rest(operands):{o | or (<o>)}>))"

notPredicate(pred) ::= "!(<evalPredicate(...)>)"

evalPredicate(pred,description) ::= "<pred>"

evalSynPredicate(pred,description) ::= "<pred>()"

lookaheadTest(atom,k,atomAsInt) ::= "FLA[<decisionNumber>,<stateNumber>] = <atomAsInt>"

/** Sometimes a lookahead test cannot assume that LA(k) is in a temp variable
 * somewhere. Must ask for the lookahead directly.
 */
isolatedLookaheadTest(atom,k,atomAsInt) ::= "Input.LA(<k>) = <atomAsInt>"

lookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= <<
((FLA[<decisionNumber>,<stateNumber>] \>= <lowerAsInt>) and (FLA[<decisionNumber>,<stateNumber>] \<=
<upperAsInt>))
>>

isolatedLookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= "(Input.LA(<k>) \>=
<lowerAsInt>) and (Input.LA(<k>) \<= <upperAsInt>)"

setTest(ranges) ::= "<ranges; separator=\\\" or (\\\">"

// A T T R I B U T E S

globalAttributeScope(scope) ::= <<

```



```

<scope.name>Stack := TStackList\<I<scope.name>Scope>.Create;<\n>
<endif>
>>

globalAttributeScopeDeclaration(scope) ::= <<
<if(scope.attributes)>
strict protected
type
 I<scope.name>Scope = interface(IANTLRObject)
 end;
 T<scope.name>Scope = class(TANTLRObject, I<scope.name>Scope)
 protected
 <scope.attributes:{<it.name>: <it.type>;}; separator="\n">
 end;
strict protected
 <scope.name>Stack: IStackList\<I<scope.name>Scope>;
<endif>
>>

ruleAttributeScopeDeclaration(scope) ::= <<
<if(scope.attributes)>
strict protected
type
 I<scope.name>Scope = interface(IANTLRObject)
 end;
 T<scope.name>Scope = class(TANTLRObject, I<scope.name>Scope)
 protected
 <scope.attributes:{<it.name>: <it.type>;}; separator="\n">
 end;
strict protected
 <scope.name>Stack: IStackList\<I<scope.name>Scope>;
<endif>
>>

ruleAttributeScope(scope) ::= <<
<! protected Stack <scope.name>Stack = new Stack();<\n> !>
>>

ruleAttributeScopeInit(scope) ::= <<
<if(scope)>
<scope.name>Stack := TStackList\<I<scope.name>Scope>.Create;<\n>
<endif>
>>

returnStructName() ::= "<it.name>_return"

returnType() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>

```

```

<ruleDescriptor:returnStructName()>
<! I<if(TREE_PARSER)>Tree<else>Parser<endif>RuleReturnScope !>
<else>
<if(ruleDescriptor.hasSingleReturnValue)>
<ruleDescriptor.singleValueReturnType>
<else>
<! Pointer/void !>
<endif>
<endif>
>>

/** Generate the C# type associated with a single or multiple return
 * values.
 */
ruleLabelType(referencedRule) ::= <<
<if(referencedRule.hasMultipleReturnValues)>
I<referencedRule.name>_return
<else>
<if(referencedRule.hasSingleReturnValue)>
<referencedRule.singleValueReturnType>
<else>
void
<endif>
<endif>
>>

delegateName() ::= <<
<if(it.label)><it.label><else>g<it.name><endif>
>>

/** Using a type to init value map, try to init a type; if not in table
 * must be an object, default value is "null".
 */
initValue(typeName) ::= <<
<csharpTypeInitMap.(typeName)>
>>

/** Define a rule label including default value */
ruleLabelDef(label) ::= <<
<label.label.text> := <initValue(typeName=ruleLabelType(referencedRule=label.referencedRule))>;<\n>
>>

ruleLabelDefVar(label) ::= <<
<label.label.text>: <ruleLabelType(referencedRule=label.referencedRule)>;
>>

/** Define a return struct for a rule if the code needs to access its
 * start/stop tokens, tree stuff, attributes, ... Leave a hole for

```

```

* subgroups to stick in members.
*/
returnScope(scope) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
{ T<ruleDescriptor:returnStructName()> }

<scope.attributes:{public <it.decl>;}; separator="\n">
<@ruleReturnMembers()>
<endif>
>>

returnScopeDeclaration(scope) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
public
type
 T<ruleDescriptor:returnStructName()> =
class(T<if(TREE_PARSER)>Tree<else>Parser<endif>RuleReturnScope, I<ruleDescriptor:returnStructName()>)
 <scope.attributes:{public <it.decl>;}; separator="\n">
 <@ruleReturnMembers()>
 end;
<endif>
>>

parameterScope(scope) ::= <<
<scope.attributes:{<it.decl>;}; separator=", ">
>>

parameterAttributeRef(attr) ::= "<attr.name>"
parameterSetAttributeRef(attr,expr) ::= "<attr.name> := <expr>;"

scopeAttributeRef(scope,attr,index,negIndex) ::= <<
<if(negIndex)>
(<scope>Stack[<scope>Stack.Count-<negIndex>-1] as T<scope>Scope).<attr.name>
<else>
<if(index)>
(<scope>Stack[<index>] as T<scope>Scope).<attr.name>
((<scope>_scope)<scope>_stack[<index>]).<attr.name>
<else>
(<scope>Stack.Peek.Implementor as T<scope>Scope).<attr.name>
<endif>
<endif>
>>

scopeSetAttributeRef(scope,attr,expr,index,negIndex) ::= <<
<if(negIndex)>
(<scope>Stack[<scope>Stack.Count-<negIndex>-1] as T<scope>Scope).<attr.name> := <expr>;<\n>
<else>
<if(index)>

```

```

(<scope>Stack[<index>] as T<scope>Scope).<attr.name> := <expr>;<\n>
<else>
(<scope>Stack.Peek.Implementor as T<scope>Scope).<attr.name> := <expr>;<\n>
<endif>
<endif>
>>

```

```

/** $x is either global scope or x is rule with dynamic scope; refers
 * to stack itself not top of stack. This is useful for predicates
 * like {$function.size()>0 && $function::name.equals("foo")}?
 */
isolatedDynamicScopeRef(scope) ::= "<scope>Stack"

```

```

/** reference an attribute of rule; might only have single return value */
ruleLabelRef(referencedRule,scope,attr) ::= <<
<if(referencedRule.hasMultipleReturnValues)>
(IfThen(Assigned(<scope>),Def(<scope>).<attr.name>,<initValue(attr.type)>))
<else>
<scope>
<endif>
>>

```

```

returnAttributeRef(ruleDescriptor,attr) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
RetVal.<attr.name>
<else>
<attr.name>
<endif>
>>

```

```

returnSetAttributeRef(ruleDescriptor,attr,expr) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
RetVal.<attr.name> := <expr>;
<else>
<attr.name> := <expr>;
<endif>
>>

```

```

/** How to translate $tokenLabel */
tokenLabelRef(label) ::= "<label>"

```

```

/** ids+=ID {$ids} or e+=expr {$e} */
listLabelRef(label) ::= "list_<label>"

```

```

// not sure the next are the right approach

```

```

tokenLabelPropertyRef_text(scope,attr) ::= "(Def(<scope>).Text)"

```

```

tokenLabelPropertyRef_type(scope,attr) ::= "(Def(<scope>).TokenType)"
tokenLabelPropertyRef_line(scope,attr) ::= "(Def(<scope>).Line)"
tokenLabelPropertyRef_pos(scope,attr) ::= "(Def(<scope>).CharPositionInLine)"
tokenLabelPropertyRef_channel(scope,attr) ::= "(Def(<scope>).Channel)"
tokenLabelPropertyRef_index(scope,attr) ::= "(Def(<scope>).TokenIndex)"
tokenLabelPropertyRef_tree(scope,attr) ::= "<scope>_tree"
tokenLabelPropertyRef_int(scope,attr) ::= "(StrToIntDef(Def(<scope>).Text,0))"

ruleLabelPropertyRef_start(scope,attr) ::= "(IfThen(Assigned(<scope>), Def(<scope>).Start, nil) as I<labelType>)"
ruleLabelPropertyRef_stop(scope,attr) ::= "(Def(<scope>).Stop as I<labelType>)"
ruleLabelPropertyRef_tree(scope,attr) ::= "(Def(Def(<scope>).Tree as I<ASTLabelType>))"
ruleLabelPropertyRef_text(scope,attr) ::= <<
<if(TREE_PARSER)>
IfThen(Assigned(<scope>), Input.TokenStream.ToString(
 Input.TreeAdaptor.GetTokenStartIndex(Def(<scope>).Start),
 Input.TreeAdaptor.GetTokenStopIndex(Def(<scope>).Start)), ")
<else>
IfThen(Assigned(<scope>), Input.ToString(
 (Def(<scope>).Start) as IToken,(Def(<scope>).Stop) as IToken), ")
<endif>
>>
ruleLabelPropertyRef_st(scope,attr) ::= "((<scope> != null) ? <scope>.ST : null)"

/** Isolated $RULE ref ok in lexer as it's a Token */
lexerRuleLabel(label) ::= "<label>"

lexerRuleLabelPropertyRef_type(scope,attr) ::= "(Def(<scope>).TokenType)"
lexerRuleLabelPropertyRef_line(scope,attr) ::= "(Def(<scope>).Line)"
lexerRuleLabelPropertyRef_pos(scope,attr) ::= "(IfThen(Assigned(<scope>),Def(<scope>).CharPositionInLine,-1))"
lexerRuleLabelPropertyRef_channel(scope,attr) ::= "(Def(<scope>).Channel)"
lexerRuleLabelPropertyRef_index(scope,attr) ::= "(Def(<scope>).TokenIndex)"
lexerRuleLabelPropertyRef_text(scope,attr) ::= "(Def(<scope>).Text)"
lexerRuleLabelPropertyRef_int(scope,attr) ::= "(StrToIntDef(Def(<scope>).Text,0))"

// Somebody may ref $template or $tree or $stop within a rule:
rulePropertyRef_start(scope,attr) ::= "(RetVal.Start as I<labelType>)"
rulePropertyRef_stop(scope,attr) ::= "(RetVal.Stop as I<labelType>)"
rulePropertyRef_tree(scope,attr) ::= "(RetVal.Tree as I<ASTLabelType>)"
rulePropertyRef_text(scope,attr) ::= <<
<if(TREE_PARSER)>
Input.TokenStream.ToString(
 Input.TreeAdaptor.GetTokenStartIndex(RetVal.Start),
 Input.TreeAdaptor.GetTokenStopIndex(RetVal.Start))
<else>
Input.ToString(RetVal.Start as IToken,Input.LT(-1))
<endif>
>>
rulePropertyRef_st(scope,attr) ::= "RetVal.ST"

```

```

lexerRulePropertyRef_text(scope,attr) ::= "Text"
lexerRulePropertyRef_type(scope,attr) ::= "TokenType"
lexerRulePropertyRef_line(scope,attr) ::= "State.TokenStartLine"
lexerRulePropertyRef_pos(scope,attr) ::= "State.TokenStartCharPositionInLine"
lexerRulePropertyRef_index(scope,attr) ::= "-1" // undefined token index in lexer
lexerRulePropertyRef_channel(scope,attr) ::= "Channel"
lexerRulePropertyRef_start(scope,attr) ::= "State.TokenStartCharIndex"
lexerRulePropertyRef_stop(scope,attr) ::= "(CharIndex-1)"
lexerRulePropertyRef_int(scope,attr) ::= "StrToInt(<scope>.Text)"

```

```

// setting $st and $tree is allowed in local rule. everything else
// is flagged as error
ruleSetPropertyRef_tree(scope,attr,expr) ::= "RetVal.Tree := <expr>;"
ruleSetPropertyRef_st(scope,attr,expr) ::= "RetVal.ST := <expr>;"

```

```

/** How to execute an action (only when not backtracking) */

```

```

execAction(action) ::= <<
<if(backtracking)>
<if(actions.(actionScope).synpredgate)>
if (<actions.(actionScope).synpredgate>) then
begin
<action>
end;
<else>
if (State.Backtracking = 0) then
begin
<action>
end;<\n>
<endif>
<else>
<action>
<endif>
>>

```

```

/** How to always execute an action even when backtracking */

```

```

execForcedAction(action) ::= "<action>"

```

```

// M I S C (properties, etc...)

```

```

bitset(name, words64) ::= <<
<name> := TBitSet.Create([<words64: {<it>};separator=",">]);<\n>
>>

```

```

bitsetDecl(name) ::= <<
<name>: IBitSet;<\n>

```

>>

```
codeFileExtension() ::= ".pas"
```

```
true() ::= "True"
```

```
false() ::= "False"
```

Found in path(s):

```
* /opt/cola/permits/1204005060_1631853129.56/0/antlr-3-1-3-sources-4-
jar/org/antlr/codegen/templates/Delphi/Delphi.stg
```

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```
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```

```
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```
*/
```

```
/** Templates for building ASTs during normal parsing.
```

```
*
```

```
* Deal with many combinations. Dimensions are:
```

```
* Auto build or rewrite
```

```
* no label, label, list label (label/no-label handled together)
```

```

* child, root
* token, set, rule, wildcard
*
* The situation is not too bad as rewrite (->) usage makes ^ and !
* invalid. There is no huge explosion of combinations.
*/
group ASTParser;

@rule.setErrorReturnValue() ::= <<
retval.tree = (<ASTLabelType>)(ADAPTOR->errorNode(ADAPTOR, INPUT, retval.start, LT(-1), EXCEPTION));
>>

// TOKEN AST STUFF

/** ID and output=AST */
tokenRef(token,label,elementIndex,hetero) ::= <<
<super.tokenRef(...)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) {<endif>
<label>_tree = (<ASTLabelType>)(ADAPTOR->create(ADAPTOR, <label>));
ADAPTOR->addChild(ADAPTOR, root_0, <label>_tree);
<if(backtracking)>}<endif>
>>

/** ID! and output=AST (same as plain tokenRef) */
tokenRefBang(token,label,elementIndex) ::= "<super.tokenRef(...)>"

/** ID^ and output=AST */
tokenRefRuleRoot(token,label,elementIndex,hetero) ::= <<
<super.tokenRef(...)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) {<endif>
<label>_tree = <createNodeFromToken(...)>;
root_0 = (<ASTLabelType>)(ADAPTOR->becomeRoot(ADAPTOR, <label>_tree, root_0));
<if(backtracking)>}<endif>
>>

/** ids+=ID! and output=AST */
tokenRefBangAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRefBang(...)>
<listLabel(elem=label,...)>
>>

/** label+=TOKEN when output=AST but not rewrite alt */
tokenRefAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRef(...)>
<listLabel(elem=label,...)>
>>

```



```

/** Match label+=TOKEN^ when output=AST but not rewrite alt */
tokenRefRuleRootAndListLabel(token,label,hetero,elementIndex) ::= <<
<tokenRefRuleRoot(...)>
<listLabel(elem=label,...)>
>>

// SET AST

// the match set stuff is interesting in that it uses an argument list
// to pass code to the default matchSet; another possible way to alter
// inherited code. I don't use the region stuff because I need to pass
// different chunks depending on the operator. I don't like making
// the template name have the operator as the number of templates gets
// large but this is the most flexible--this is as opposed to having
// the code generator call matchSet then add root code or ruleroot code
// plus list label plus ... The combinations might require complicated
// rather than just added on code. Investigate that refactoring when
// I have more time.

matchSet(s,label,hetero,elementIndex,postmatchCode) ::= <<
<super.matchSet(..., postmatchCode={<if(backtracking)>if (<actions.(actionScope).synpredgate>)
<endif>ADAPTOR->addChild(ADAPTOR, root_0, <createNodeFromToken(...)>);}>>
>>

matchRuleBlockSet(s,label,hetero,elementIndex,postmatchCode,treeLevel="0") ::= <<
<matchSet(...)>
>>

matchSetBang(s,label,elementIndex,postmatchCode) ::= "<super.matchSet(...)>"

// note there is no matchSetTrack because -> rewrites force sets to be
// plain old blocks of alts: (A|B|...|C)

matchSetRuleRoot(s,label,hetero,elementIndex,debug) ::= <<
<if(label)>
<label>=(<labelType>)LT(1);<\n>
<endif>
<super.matchSet(..., postmatchCode={<if(backtracking)>if (<actions.(actionScope).synpredgate>) <endif>root_0
= (<ASTLabelType>)(ADAPTOR->becomeRoot(ADAPTOR, <createNodeFromToken(...)>, root_0));}>>
>>

// RULE REF AST

/** rule when output=AST */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(...)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) <endif>ADAPTOR->addChild(ADAPTOR, root_0,

```

```

<label>.tree);
>>

/** rule! is same as normal rule ref */
ruleRefBang(rule,label,elementIndex,args,scope) ::= "<super.ruleRef(...)>"

/** rule^ */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(...)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) <endif>root_0 = (<ASTLabelType>)(ADAPTOR-
>becomeRoot(ADAPTOR, <label>.tree, root_0));
>>

/** x+=rule when output=AST */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>
<listLabelAST(...)>
>>

/** x+=rule! when output=AST is a rule ref with list addition */
ruleRefBangAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefBang(...)>
<listLabelAST(...)>
>>

/** x+=rule^ */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...)>
<listLabelAST(...)>
>>

// WILDCARD AST

wildcard(label,elementIndex) ::= <<
<super.wildcard(...)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) {<endif>
<label>_tree = (<ASTLabelType>)(ADAPTOR->create(ADAPTOR, <label>));
ADAPTOR->addChild(ADAPTOR, root_0, <label>_tree);
<if(backtracking)>}<endif>
>>

wildcardBang(label,elementIndex) ::= "<super.wildcard(...)>"

wildcardRuleRoot(label,elementIndex) ::= <<
<super.wildcard(...)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) {<endif>
<label>_tree = (<ASTLabelType>)(ADAPTOR->create(ADAPTOR, <label>));
root_0 = (<ASTLabelType>)(ADAPTOR->becomeRoot(ADAPTOR, <label>_tree, root_0));

```

```

<if(backtracking)></endif>
>>

createNodeFromToken(label,hetero) ::= <<
<if(hetero)>
<hetero>New(<label>) <! new MethodNode(IDLabel) !>
<else>
(<ASTLabelType>)(ADAPTOR->create(ADAPTOR, <label>))
</endif>
>>

ruleCleanUp() ::= <<
<super.ruleCleanUp(...)>
<if(backtracking)>
if (<actions.(actionScope).synpredgate>)
{<\n>
</endif>
<if(!ruleDescriptor.isSynPred)>
retval.stop = LT(-1);<\n>
</endif>
retval.tree = (<ASTLabelType>)(ADAPTOR->rulePostProcessing(ADAPTOR, root_0));
ADAPTOR->setTokenBoundaries(ADAPTOR, retval.tree, retval.start, retval.stop);
<ruleDescriptor.allTokenRefsInAltsWithRewrites
: {if (stream_<it> != NULL) stream_<it>->free(stream_<it>);}; separator="\n">
<ruleDescriptor.allRuleRefsInAltsWithRewrites
: {if (stream_<it> != NULL) stream_<it>->free(stream_<it>);}; separator="\n">
</if(backtracking)>
}<\n>
</endif>
>>

```

Found in path(s):

```

* /opt/cola/permits/1204005060_1631853129.56/0/antlr-3-1-3-sources-4-
jar/org/antlr/codegen/templates/C/ASTParser.stg

```

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```

/*

```

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\*/

/\*

Template group file for the Objective C code generator.  
Heavily based on Java.stg

Written by Kay Roepke <kroepke(at)classdump.org>

This file is part of ANTLR and subject to the same license as ANTLR itself.

\*/

```
group ObjC implements ANTLRCore;
```

```
objcTypeInitMap ::= [
 "int": "0",
 "long": "0",
 "float": "0.0",
 "double": "0.0",
 "boolean": "false",
 "byte": "0",
 "short": "0",
 "char": "0",
 "id": "nil",
 default: "nil" // anything other than an atomic type
]
```

```
className() ::= "<name><! if(LEXER)>Lexer<else><if(TREE_PARSER)>Tree<endif>Parser<endif !>"
```

```
/** The overall file structure of a recognizer; stores methods for rules
 * and cyclic DFAs plus support code.
 */
```

```
outputFile(LEXER,PARSER,TREE_PARSER, actionScope, actions,
 docComment, recognizer,
 name, tokens, tokenNames, rules, cyclicDFAs,
```

```

 bitsets, buildTemplate, buildAST, rewriteMode, profile,
 backtracking, synpreds, memoize, numRules,
 fileName, ANTLRVersion, generatedTimestamp, trace,
 scopes, superClass,literals) ::=
<<
// $ANTLR <ANTLRVersion> <fileName> <generatedTimestamp>

<@imports>
#import "<name><!if(LEXER)>Lexer<else><if(TREE_PARSER)>Tree<endif>Parser<endif!>.h"
<@end>

<docComment>
<recognizer>
>>

headerFile(LEXER,PARSER,TREE_PARSER, actionScope, actions,
 docComment, recognizer,
 name, tokens, tokenNames, rules, cyclicDFAs,
 bitsets, buildTemplate, buildAST, rewriteMode, profile,
 backtracking, synpreds, memoize, numRules,
 fileName, ANTLRVersion, generatedTimestamp, trace,
 scopes, superClass,literals) ::=
<<
// $ANTLR <ANTLRVersion> <fileName> <generatedTimestamp>

<@imports>
#import \<Cocoa/Cocoa.h>
#import \<ANTLR/ANTLR.h>
<@end>

<actions.(actionScope).header>

<if(LEXER)>
<lexerHeaderFile(...)>
<endif>
<if(PARSER)>
<parserHeaderFile(...)>
<endif>
<if(TREE_PARSER)>
<treeParserHeaderFile(...)>
<endif>
>>

lexerHeaderFile() ::=
<<
<cyclicDFAs:cyclicDFAInterface(>

```

```

#pragma mark Rule return scopes start
<rules:{rule |
<rule:{ruleDescriptor | <returnScopeInterface(scope=ruleDescriptor.returnScope)>>
}>
#pragma mark Rule return scopes end

#pragma mark Tokens
<tokens:{#define <name>_<it.name> <it.type>}; separator="\n">

@interface <className()> : ANTLRLexer {
<cyclicDFAs:{dfa | <name>DFA<dfa.decisionNumber> *dfa<dfa.decisionNumber>;}; separator="\n">
<synpreds:{p | SEL <p>SyntacticPredicate;}; separator="\n">
<actions.lexer.ivars>
}

<actions.lexer.methodsdecl>

<rules:{rule |
- (<rule.ruleDescriptor:{ruleDescriptor|<returnType()>>})
<if(!rule.ruleDescriptor.isSynPred)>m<endif><rule.ruleName><if(rule.ruleDescriptor.parameterScope)><rule.ruleD
escriptor.parameterScope:parameterScope(scope=it)><endif>;
}>

@end
>>

lexer(grammar, name, tokens, scopes, rules, numRules, labelType="id<ANTLRToken> ",
 filterMode) ::= <<
<cyclicDFAs:cyclicDFA()>

/** As per Terence: No returns for lexer rules!
#pragma mark Rule return scopes start
<rules:{rule |
<rule.ruleDescriptor:{ruleDescriptor | <returnScope(scope=ruleDescriptor.returnScope)>>
}>
#pragma mark Rule return scopes end
*/
@implementation <className()>

static NSArray *tokenNames;

<actions.lexer.methods>

+ (void) initialize
{
 // todo: get tokenNames into lexer - requires changes to CodeGenerator.java and ANTLRCore.sti
 tokenNames = [[NSArray alloc] init];

```

```

}

- (id) initWithCharStream:(id<ANTLRCharStream>)anInput
{
if (nil!=(self = [super initWithCharStream:anInput])) {
<if(memoize)>
// initialize the memoization cache - the indices are 1-based in the runtime code!
[ruleMemo addObject:[NSNull null]]; // dummy entry to ensure 1-basedness.
for (int i = 0; i << <numRules>; i++) {
[[state ruleMemo] addObject:[NSMutableDictionary dictionary]];
}
<endif>
<synpreds:{p | <lexerSynpred(name=p)>};separator="\n">
<cyclicDFAs:{dfa | dfa<dfa.decisionNumber> = [[<name>DFA<dfa.decisionNumber> alloc]
initWithRecognizer:self];}; separator="\n">
<actions.lexer.init>
}
return self;
}

- (void) dealloc
{
<cyclicDFAs:{dfa | [dfa<dfa.decisionNumber> release];}; separator="\n">
<actions.lexer.dealloc>
[super dealloc];
}

+ (NSString *) tokenNameForType:(int)aTokenType
{
return nil;
}

+ (NSArray *) tokenNames
{
return tokenNames;
}

- (NSString *) grammarFileName
{
return @"<fileName>";
}

<if(actions.lexer.reset)>
- (void) reset
{
<actions.lexer.reset>
[super reset];
}

```

```

<endif>

<if(filterMode)>
<filteringNextToken()>
<endif>

<rules; separator="\n\n">

@end
>>

/** A override of Lexer.nextToken() that backtracks over mTokens() looking
 * for matches. No error can be generated upon error; just rewind, consume
 * a token and then try again. backtracking needs to be set as well.
 */
filteringNextToken() ::= <<
- (id<ANTLRToken>) nextToken
{
 <sharedStateLocalVarDefinition()>
 while (YES) {
 if ([input LA:1] == ANTLRCharStreamEOF) {
 return nil; // should really be a +eofToken call here -> go figure
 }
 [self setToken:nil];
 [_state setChannel:ANTLRTokenChannelDefault];
 [_state setTokenStartLine:[input line]];
 [_state setTokenCharPositionInLine:[input charPositionInLine]];
 [_state setTokenStartCharIndex:[self charIndex]];
 @try {
 int m = [input mark];
 [_state setBacktracking:1];
 [_state setIsFailed:NO];
 [self mTokens];
 [_state setBacktracking:0];
 if ([_state isFailed]) {
 [input rewind:m];
 [input consume]; <!-- advance one char and try again !>
 } else {
 [self emit];
 return token;
 }
 }
 }
 @catch (ANTLRRecognitionException *re) {
 // shouldn't happen in backtracking mode, but...
 [self reportError:re];
 [self recover:re];
 }
}

```



```

}
>>

filteringActionGate() ::= "[_state backtracking] == 1"

treeParserHeaderFile(LEXER, PARSER, TREE_PARSER, actionScope, actions, docComment,
 recognizer, name, tokens, tokenNames, rules, cyclicDFAs,
 bitsets, buildTemplate, profile, backtracking, synpreds,
 memoize, numRules, fileName, ANTLRVersion, generatedTimestamp, trace, scopes,
 superClass="ANTLRTreeParser") ::= <<
<parserHeaderFile(...)>
>>

parserHeaderFile(LEXER, PARSER, TREE_PARSER, actionScope, actions, docComment,
 recognizer, name, tokens, tokenNames, rules, cyclicDFAs,
 bitsets, buildTemplate, profile, backtracking, synpreds,
 memoize, numRules, fileName, ANTLRVersion, generatedTimestamp, trace, scopes,
 superClass="ANTLRParser") ::=
<<

<cyclicDFAs:cyclicDFAInterface(>

#pragma mark Tokens
<tokens:{#define <name>_<it.name> <it.type>}; separator="\n">

#pragma mark Dynamic Global Scopes
<scopes:{<if(it.isDynamicGlobalScope)><globalAttributeScopeDecl(scope=it)><endif>}>

#pragma mark Dynamic Rule Scopes
<rules:{rule |
<rule.ruleDescriptor:{ ruleDescriptor | <ruleAttributeScopeDecl(scope=ruleDescriptor.ruleScope)>}>
}>

#pragma mark Rule Return Scopes
<rules:{rule |
<rule.ruleDescriptor:{ ruleDescriptor | <returnScopeInterface(scope=ruleDescriptor.returnScope)>}>
}>

@interface <className()> : <@superClassName><superClass><@end> {

<cyclicDFAs:{ dfa | <name>DFA<dfa.decisionNumber> *dfa<dfa.decisionNumber>;}; separator="\n">
<synpreds:{p | SEL <p>SyntacticPredicate;}; separator="\n">
<scopes:{<if(it.isDynamicGlobalScope)><globalAttributeScopeIVar(scope=it)><endif>}>
<rules:{rule |
<rule.ruleDescriptor.ruleScope:ruleAttributeScopeIVar(scope=it)>
}>
<@ivars()>

```

```

 <actions.(actionScope).ivars>
}

<actions.(actionScope).methodsdecl>

<rules:{ rule |
- (<rule.ruleDescriptor:{ ruleDescriptor|<returnType()>}>)
<rule.ruleName><if(rule.ruleDescriptor.parameterScope)><rule.ruleDescriptor.parameterScope:parameterScope(scope=it)><endif>;
}>

<@methodsdecl()>

@end
>>

/** How to generate a parser */
genericParser(name, scopes, tokens, tokenNames, rules, numRules,
 cyclicDFAs, bitsets, inputStreamType, superClass,
 ASTLabelType="id", labelType, members) ::= <<

<cyclicDFAs:cyclicDFA()>

#pragma mark Bitsets
<bitsets:bitset(name={ FOLLOW_<it.name>_in_<it.inName><it.tokenIndex>}, words64=it.bits)>

#pragma mark Dynamic Global Scopes
<scopes:{ <if(it.isDynamicGlobalScope)><globalAttributeScopeImpl(scope=it)><endif>}>

#pragma mark Dynamic Rule Scopes
<rules:{ rule |
<rule.ruleDescriptor.ruleScope:ruleAttributeScopeImpl(scope=it)>
}>

#pragma mark Rule return scopes start
<rules:{ rule |
<rule.ruleDescriptor:{ ruleDescriptor | <returnScope(scope=ruleDescriptor.returnScope)>}>
}>

@implementation <className()>

static NSArray *tokenNames;

+ (void) initialize
{
 <bitsets:bitsetInit(name={ FOLLOW_<it.name>_in_<it.inName><it.tokenIndex>}, words64=it.bits)>
 tokenNames = [[NSArray alloc] initWithObjects:@"\<invalid>", @"\<EOR>", @"\<DOWN>", @"\<UP>",

```

```

<tokenNames:{ @<it>}; separator=", ", wrap="\n ">, nil];
}

<if(PARSER)>
- (id) initWithTokenStream:(<inputStreamType>)aStream
{
if ((self = [super initWithTokenStream:aStream])) {
<else><!TREE_PARSER!>
- (id) initWithTreeNodeStream:(<inputStreamType>)aStream
{
if ((self = [super initWithTreeNodeStream:aStream])) {
<endif><\n>
<if(memoize)>
ruleMemo = [[NSMutableDictionary alloc] initWithCapacity:<numRules>+1];
<endif>
<cyclicDFAs:{ dfa | dfa<dfa.decisionNumber> = [[<name>DFA<dfa.decisionNumber> alloc]
initWithRecognizer:self];}; separator="\n">
<scopes:{<if(it.isDynamicGlobalScope)><globalAttributeScopeInit(scope=it)><endif>}>
<rules:{rule |
<rule.ruleDescriptor.ruleScope:ruleAttributeScopeInit(scope=it)>
}>
<actions.(actionScope).init>
<@init()>
}
return self;
}

- (void) dealloc
{
<if(memoize)>
[ruleMemo release];
<endif>
<cyclicDFAs:{ dfa | [dfa<dfa.decisionNumber> release];}; separator="\n">
<scopes:{<if(it.isDynamicGlobalScope)><globalAttributeScopeDealloc(scope=it)><endif>}>
<actions.(actionScope).dealloc>
<@dealloc()>
[super dealloc];
}

- (NSString *) grammarFileName
{
return @"<fileName>";
}

<actions.(actionScope).methods>

<rules; separator="\n\n">

```

```
<synpreds:{p | <synpred(p)>}>
```

```
<@methods()>
```

```
@end
```

```
>>
```

```
parser(grammar, name, scopes, tokens, tokenNames, rules, numRules, bitsets, ASTLabelType,
superClass="ANTLRParser", labelType="id<ANTLRToken> ", members={<actions.parser.members>}) ::= <<
<genericParser(inputStreamType="id<ANTLRTokenStream>", ...)>
>>
```

```
treeParser(grammar, name, scopes, tokens, tokenNames, globalAction, rules, numRules, bitsets,
labelType={<ASTLabelType>}, ASTLabelType="id", superClass="ANTLRTreeParser",
members={<actions.treeparser.members>}) ::= <<
<genericParser(inputStreamType="id<ANTLRTreeNodeStream>", ...)>
>>
```

```
/** Maintain a local variable for the shared state object to avoid calling the accessor all the time. */
sharedStateLocalVarDefinition() ::= <<
<if(LEXER)>ANTLRLexerState<else>ANTLRBaseRecognizerState<endif> *_state = [self state];
>>
```

```
/** A simpler version of a rule template that is specific to the imaginary
* rules created for syntactic predicates. As they never have return values
* nor parameters etc..., just give simplest possible method. Don't do
* any of the normal memoization stuff in here either; it's a waste.
* As predicates cannot be inlined into the invoking rule, they need to
* be in a rule by themselves.
*/
synpredRule(ruleName, ruleDescriptor, block, description, nakedBlock) ::=
<<
- (void) <ruleName>
{
 <sharedStateLocalVarDefinition()>
 <if(trace)>NSLog(@"enter <ruleName> %d failed=%@ backtracking=%d", [input LA:1], [_state isFailed] ?
@"YES" : @"NO", [_state backtracking]);
 @try {
 <block>
 }
 @finally {
 NSLog(@"exit <ruleName> %d failed=%@ backtracking=%d", [input LA:1], [_state isFailed] ? @"YES" :
@"NO", [_state backtracking]);
 }
<else>
 <block>
<endif>
}
```

```
>>
```

```
/** How to test for failure and return from rule */
```

```
checkRuleBacktrackFailure() ::= <<
<if(backtracking)>if ([_state isFailed]) return <ruleReturnValue(>);<endif>
>>
```

```
/** This rule has failed, exit indicating failure during backtrack */
```

```
ruleBacktrackFailure() ::= <<
<if(backtracking)>if ([_state isBacktracking]) {[_state setIsFailed:YES]; return <ruleReturnValue(>);}<endif>
>>
```

```
synpred(name) ::= <<
```

```
<!name>SyntacticPredicate = @selector(<name>); !>
>>
```

```
lexerSynpred(name) ::= <<
```

```
<synpred(name)>
>>
```

```
ruleMemoization(name) ::= <<
```

```
<if(memoize)>
if ([_state isBacktracking] && [self alreadyParsedRule:input ruleIndex:<ruleDescriptor.index>]) { return
<ruleReturnValue(>); }
<endif>
>>
```

```
/** How to generate code for a rule.
```

```
* The return type aggregates are declared in the header file (headerFile template)
```

```
*/
```

```
rule(ruleName,ruleDescriptor,block,emptyRule,description,exceptions,finally,memoize) ::= <<
```

```
// $ANTLR start <ruleName>
```

```
// <fileName>:<description>
```

```
- (<returnType(>) <ruleName><ruleDescriptor.parameterScope:parameterScope(scope=it)>
```

```
{
```

```
<if(trace)>NSLog(@"enter <ruleName> %@ failed=%@ backtracking=%d", [input LT:1], [_state isFailed] ?
@"YES" : @"NO", [_state backtracking]);<endif>
```

```
<sharedStateLocalVarDefinition(>
```

```
<ruleScopeSetUp(>
```

```
<ruleDeclarations(>
```

```
<ruleLabelDefs(>
```

```
<ruleDescriptor.actions.init>
```

```
<@preamble(>
```

```
<ruleMemoization(name=ruleName)>
```

```
@try {
```

```
<block>
```

```
}
```

```

<if(exceptions)>
 <exceptions:{e|<catch(decl=e.decl,action=e.action)><\n>}>
<else>
<if(!emptyRule)>
<if(actions.(actionScope).rulecatch)>
 <actions.(actionScope).rulecatch>
<else>
 @catch (ANTLRRecognitionException *re) {
 [self reportError:re];
 [self recover:input exception:re];
 }<\n>
<endif>
<endif>
<endif>
 @finally {
 <if(trace)>NSLog(@"exit <ruleName> %@ failed=%@ backtracking=%d", [input LT:1], [_state isFailed] ?
@"YES" : @"NO", [_state backtracking]);<endif>
 <ruleCleanUp()>
 <(ruleDescriptor.actions.finally):execAction()>
 <ruleScopeCleanUp()>
 }
 <@postamble()>
 return <ruleReturnValue()>;
}
// $ANTLR end <ruleName>
>>

```

```

catch(decl,action) ::= <<
catch (<e.decl>) {
 <e.action>
}
>>

```

```

ruleDeclarations() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<returnType()> _retval = [[[<returnTypeName()> alloc] init] autorelease];
[_retval setStart:[input LT:1]];<\n>
<else>
<if(ruleDescriptor.hasSingleReturnValue)>
<returnType()> _<ruleDescriptor.singleValueReturnName> = <initValue(typeName=returnType())>;
<endif>
<endif>
<if(memoize)>
int <ruleDescriptor.name>_startIndex = [input index];
<endif>
>>

```

```

ruleScopeSetUp() ::= <<

```

```

<ruleDescriptor.useScopes: {[<name>_<it>_stack addObject:[[[<name><it>Scope alloc] init] autorelease]]];
separator="\n">
<ruleDescriptor.ruleScope: {[<name>_<it.name>_stack addObject:[[[<name><it.name>Scope alloc] init]
autorelease]]]; separator="\n">
>>

```

```

ruleScopeCleanup() ::= <<
<ruleDescriptor.useScopes: {[<name>_<it>_stack removeLastObject];}; separator="\n">
<ruleDescriptor.ruleScope: {[<name>_<it.name>_stack removeLastObject];}; separator="\n">
>>

```

```

ruleLabelDefs() ::= <<
<[ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels]
: {<labelType>_<it.label.text> = nil;}; separator="\n"
>
<[ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels]
: {NSMutableArray *_list_<it.label.text> = nil;}; separator="\n"
>
<ruleDescriptor.ruleLabels:ruleLabelDef(label=it); separator="\n">
<ruleDescriptor.ruleListLabels: {ll|ANTLRRuleReturnScope <ll.label.text> = nil;}; separator="\n">
>>

```

```

ruleReturnValue() ::= <<
<if(!ruleDescriptor.isSynPred)>
<if(ruleDescriptor.hasReturnValue)>
<if(ruleDescriptor.hasSingleReturnValue)>
_<ruleDescriptor.singleValueReturnName>
<else>
_retval
<endif>
<endif>
<endif>
>>

```

```

ruleCleanup() ::= <<
// token+rule list labels
<[ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels]:{[_list_<it.label.text> release];}; separator="\n">
<if(ruleDescriptor.hasMultipleReturnValues)>
<if(!TREE_PARSER)>
[_retval setStop:[input LT:-1]];<\n>
<endif>
<endif>
<if(memoize)>
<if(backtracking)>
if ([_state isBacktracking]) { [self memoize:input ruleIndex:<ruleDescriptor.index>
startIndex:<ruleDescriptor.name>_startIndex]; }
<endif>
<endif>

```

>>

```
/** How to generate a rule in the lexer; naked blocks are used for
 * fragment rules.
 */
lexerRule(ruleName,nakedBlock,ruleDescriptor,block, memoize) ::= <<
```

```
- (void)
```

```
m<ruleName><if(ruleDescriptor.parameterScope)><ruleDescriptor.parameterScope:parameterScope(scope=it)><en
dif>
```

```
{
```

```
<if(trace)>NSLog(@"enter <ruleName> %C line=%d:%d failed=%@ backtracking=%d", [input LA:1], [self line],
[self charPositionInLine], [_state isFailed] ? @"YES" : @"NO", [_state backtracking]);<endif>
```

```
<sharedStateLocalVarDefinition()>
```

```
<ruleDeclarations()>
```

```
<ruleLabelDefs()>
```

```
<ruleMemoization(name=ruleName)>
```

```
@try {
```

```
<ruleDescriptor.actions.init>
```

```
<if(nakedBlock)>
```

```
<block><\n>
```

```
<else>
```

```
int _type = <name>_<ruleName>;
```

```
<block>
```

```
[_state setTokenType:_type];<\n>
```

```
<endif>
```

```
}
```

```
@finally {
```

```
<if(trace)>NSLog(@"exit <ruleName> %C line=%d:%d failed=%@ backtracking=%d", [input LA:1], [self
line], [self charPositionInLine], [_state isFailed] ? @"YES" : @"NO", [_state backtracking]);<endif>
```

```
// rule cleanup
```

```
<ruleCleanUp()>
```

```
<(ruleDescriptor.actions.finally):execAction()>
```

```
}
```

```
return;
```

```
}
```

```
// $ANTLR end <ruleName>
```

>>

```
/** How to generate code for the implicitly-defined lexer grammar rule
```

```
* that chooses between lexer rules.
```

```
*/
```

```
tokensRule(ruleName,nakedBlock,args,block,ruleDescriptor) ::= <<
```

```
- (void) mTokens
```

```
{
```

```
<block><\n>
```

```
}
```



>>

// S U B R U L E S

/\*\* A (...) subrule with multiple alternatives \*/

block(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<

// <fileName>:<description> // block

int alt<decisionNumber>=<maxAlt>;

<decls>

<@predecision()>

<decision>

<@postdecision()>

<@prebranch()>

switch (alt<decisionNumber>) {

<alts:altSwitchCase()>

}

<@postbranch()>

>>

/\*\* A rule block with multiple alternatives \*/

ruleBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<

// <fileName>:<description> //ruleblock

int alt<decisionNumber>=<maxAlt>;

<decls>

<@predecision()>

<decision>

<@postdecision()>

switch (alt<decisionNumber>) {

<alts:altSwitchCase()>

}

>>

ruleBlockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<

// <fileName>:<description> // ruleBlockSingleAlt

<decls>

<@prealt()>

<alts>

<@postalt()>

>>

/\*\* A special case of a (...) subrule with a single alternative \*/

blockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<

// <fileName>:<description> // blockSingleAlt

<decls>

<@prealt()>

<alts>

<@postalt()>

>>

```

/** A (..)+ block with 0 or more alternatives */
positiveClosureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// <fileName>:<description> // positiveClosureBlock
int cnt<decisionNumber>=0;
<decls>
<@preloop()>

do {
 int alt<decisionNumber>=<maxAlt>;
 <@predecision()>
 <decision>
 <@postdecision()>
 switch (alt<decisionNumber>) {
 <alts:altSwitchCase()>
 default :
 if (cnt<decisionNumber> >= 1) goto loop<decisionNumber>;
 <if(backtracking)>
 <ruleBacktrackFailure()>
 <endif>
 ANTLREarlyExitException *eee = [ANTLREarlyExitException exceptionWithStream:input
decisionNumber:<decisionNumber>];
 <@earlyExitException()>
 @throw eee;
 }
 cnt<decisionNumber>++;
} while (YES); loop<decisionNumber>; ;
<@postloop()>
>>

```

```

positiveClosureBlockSingleAlt ::= positiveClosureBlock

```

```

/** A (..)* block with 0 or more alternatives */
closureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::=
<<
<decls>
<@preloop()>
do {
 int alt<decisionNumber>=<maxAlt>;
 <@predecision()>
 <decision>
 <@postdecision()>
 switch (alt<decisionNumber>) {
 <alts:altSwitchCase()>
 default :
 goto loop<decisionNumber>;
 }
}

```

```

} while (YES); loop<decisionNumber>: ;
<@postloop()>
>>

closureBlockSingleAlt ::= closureBlock

/** Optional blocks (x)? are translated to (x|) by before code generation
 * so we can just use the normal block template
 */
optionalBlock ::= block

optionalBlockSingleAlt ::= block

/** A case in a switch that jumps to an alternative given the alternative
 * number. A DFA predicts the alternative and then a simple switch
 * does the jump to the code that actually matches that alternative.
 */
altSwitchCase() ::= <<
case <i> :
 <@prealt()>
 <it>
 break;<\n>
>>

/** An alternative is just a list of elements; at outermost level */
alt(elements,altNum,description,autoAST,outerAlt,treeLevel) ::= <<
// <fileName>:<description> // alt
{
<@declarations()>
<elements:element()>
<@cleanup()>
}
>>

/** What to emit when there is no rewrite. For auto build
 * mode, does nothing.
 */
noRewrite(rewriteBlockLevel, treeLevel) ::= ""

// E L E M E N T S

/** Dump the elements one per line */
element() ::= <<
<@prematch()>
<it.el><\n>
>>

/** match a token optionally with a label in front */

```

```

tokenRef(token,label,elementIndex,hetero) ::= <<
<if(label)>
_<label>=(<labelType>)[input LT:1];<\n>
<endif>
[self match:input tokenType:<token> follow:FOLLOW_<token>_in_<ruleName><elementIndex>];
<checkRuleBacktrackFailure()>
>>

/** ids+=ID */
tokenRefAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRef(...)>
<listLabel(elem=label,...)>
>>

listLabel(label,elem) ::= <<
if (_list_<label> == nil)
list<label> = [[NSMutableArray alloc] init];
[_list_<label> addObject:_<elem>];
>>

/** match a character */
charRef(char,label) ::= <<
<if(label)>
int _<label> = [input LA:1];<\n>
<endif>
[self matchChar:<char>];
<checkRuleBacktrackFailure()><\n>
>>

/** match a character range */
charRangeRef(a,b,label) ::= <<
<if(label)>
_<label> = [input LA:1];<\n>
<endif>
[self matchRangeFromChar:<a> to:];<checkRuleBacktrackFailure()>
>>

/** For now, sets are interval tests and must be tested inline */
matchSet(s,label,elementIndex,postmatchCode="") ::= <<
<if(label)>
_<label> = (<labelType>)[input LT:1];<\n>
<endif>
if (<s>) {
<postmatchCode>
[input consume];
<if(!LEXER)>
[_state setIsErrorRecovery:NO];
<endif>
}

```

```

<if(backtracking)>[_state setIsFailed:NO];<endif>
} else {
<ruleBacktrackFailure()>
ANTLRMismatchedSetException *mse = [ANTLRMismatchedSetException exceptionWithSet:nil stream:input];
<@mismatchedSetException()>
<if(LEXER)>
[self recover:mse];
<else>
[self recoverFromMismatchedSet:input exception:mse follow:FOLLOW_set_in_<ruleName><elementIndex>];
<endif>
@throw mse;
}<\n>
>>

```

```

matchSetAndListLabel(s,label,elementIndex,postmatchCode) ::= <<
<matchSet(...)>
<listLabel(...)>
>>

```

```

/** Match a string literal */
lexerStringRef(string,label) ::= <<
<if(label)>
int _<label>Start = [self charIndex];
[self matchString:<string>];
<checkRuleBacktrackFailure()>
_<label> = [[ANTLRCommonToken alloc] initWithInput:input tokenType:ANTLRTokenTypeInvalid
channel:ANTLRTokenChannelDefault start:_<label>Start stop:[self charIndex]];
<else>
[self matchString:<string>];
<checkRuleBacktrackFailure()><\n>
<endif>
>>

```

```

wildcard(label,elementIndex) ::= <<
<if(label)>
_<label> = (<labelType>)[input LT:1];<\n>
<endif>
[self matchAny:input];
<checkRuleBacktrackFailure()>
>>

```

```

wildcardAndListLabel(label,elementIndex) ::= <<
<wildcard(...)>
<listLabel(...)>
>>

```

```

/** Match . wildcard in lexer */
wildcardChar(label, elementIndex) ::= <<

```

```

<if(label)>
int _<label> = [input LA:1];<\n>
<endif>
[self matchAny];
<checkRuleBacktrackFailure()><\n>
>>

wildcardCharListLabel(label, elementIndex) ::= <<
<wildcardChar(...)>
<listLabel(...)>
>>

/** Match a rule reference by invoking it possibly with arguments
 * and a return value or values.
 */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
[[_state following] addObject:FOLLOW_<rule.name>_in_<ruleName><elementIndex>];
<if(label)>
_<label> = [self <rule.name><if(args)>:<args; separator=" :"><endif>];<\n>
<else>
[self <rule.name><if(args)>:<args; separator=" :"><endif>];<\n>
<endif>
[[_state following] removeLastObject];
<checkRuleBacktrackFailure()><\n>
>>

/** ids+=1 */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>
<listLabel(...)>
>>

/** A lexer rule reference */
lexerRuleRef(rule,label,args,elementIndex,scope) ::= <<
<if(label)>
int _<label>Start<elementIndex> = [self charIndex];
[self m<rule.name><if(args)>:<args; separator=" :"><endif>];
<checkRuleBacktrackFailure()><\n>
_<label> = [[ANTLRCommonToken alloc] initWithInput:input tokenType:ANTLRTokenTypeInvalid
channel:ANTLRTokenChannelDefault start:_<label>Start<elementIndex> stop:[self charIndex]-1];
[_<label> setLine:[self line]];
<else>
[self m<rule.name><if(args)>:<args; separator=" :"><endif>];
<checkRuleBacktrackFailure()><\n>
<endif>
>>

/** i+=INT in lexer */

```

```

lexerRuleRefAndListLabel(rule,label,args,elementIndex,scope) ::= <<
<lexerRuleRef(...)>
<listLabel(elem=label,...)>
>>

/** EOF in the lexer */
lexerMatchEOF(label,elementIndex) ::= <<
<if(label)>
int _<label>Start<elementIndex> = [self charIndex];
[self matchChar:ANTLRCharStreamEOF];
<checkRuleBacktrackFailure()><\n>
<labelType> _<label> = [[ANTLRCommonToken alloc] initWithInput:input tokenType:ANTLRTokenTypeEOF
channel:ANTLRTokenChannelDefault start:_<label>Start<elementIndex> stop:[self charIndex]-1];
[_<label> setLine:[self line]];
<else>
[self matchChar:ANTLRCharStreamEOF];
<checkRuleBacktrackFailure()><\n>
<endif>
>>

/** match ^(root children) in tree parser */
tree(root, actionsAfterRoot, children, nullableChildList,
enclosingTreeLevel, treeLevel) ::= <<
<root:element()>
<actionsAfterRoot:element()>
<if(nullableChildList)>
if ([input LA:1] == ANTLRTokenTypeDOWN) {
[self match:input tokenType:ANTLRTokenTypeDOWN follow:nil]; <checkRuleBacktrackFailure()>
<children:element()>
[self match:input tokenType:ANTLRTokenTypeUP follow:nil]; <checkRuleBacktrackFailure()>
}
<else>
[self match:input tokenType:ANTLRTokenTypeDOWN follow:nil]; <checkRuleBacktrackFailure()>
<children:element()>
[self match:input tokenType:ANTLRTokenTypeUP follow:nil]; <checkRuleBacktrackFailure()>
<endif>
>>

/** Every predicate is used as a validating predicate (even when it is
* also hoisted into a prediction expression).
*/
validateSemanticPredicate(pred,description) ::= <<
if (!(<evalPredicate(...)>)) {
<ruleBacktrackFailure()>
@throw [ANTLRFailedPredicateException exceptionWithRuleName:@"<ruleName>"
predicate:@"<description>" stream:input];
}
>>

```

```

// F i x e d D F A (if-then-else)

dfaState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
{
 int LA<decisionNumber>_<stateNumber> = [input LA:<k>];
 <edges; separator="\nelse ">
 else {
<if(eotPredictsAlt)>
 alt<decisionNumber> = <eotPredictsAlt>;
<else>
 <ruleBacktrackFailure()>
 ANTLRNoViableAltException *nvae = [ANTLRNoViableAltException
exceptionWithDecision:<decisionNumber> state:<stateNumber> stream:input];
 <@noViableAltException()>
 @throw nvae;<\n>
<endif>
 }
}
>>

/** Same as a normal DFA state except that we don't examine lookahead
 * for the bypass alternative. It delays error detection but this
 * is faster, smaller, and more what people expect. For (X)? people
 * expect "if (LA(1)==X) match(X);" and that's it.
 */
dfaOptionalBlockState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
{
 int LA<decisionNumber>_<stateNumber> = [input LA:<k>];
 <edges; separator="\nelse ">
}
>>

/** A DFA state that is actually the loopback decision of a closure
 * loop. If end-of-token (EOT) predicts any of the targets then it
 * should act like a default clause (i.e., no error can be generated).
 * This is used only in the lexer so that for ('a')* on the end of a rule
 * anything other than 'a' predicts exiting.
 */
dfaLoopbackState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
{
 int LA<decisionNumber>_<stateNumber> = [input LA:<k>];
 <edges; separator="\nelse "><\n>
 <if(eotPredictsAlt)>
 else {
 alt<decisionNumber> = <eotPredictsAlt>;
 }<\n>
 <endif>
}

```



```

}
>>

/** An accept state indicates a unique alternative has been predicted */
dfaAcceptState(alt) ::= "alt<decisionNumber> = <alt>";

/** A simple edge with an expression. If the expression is satisfied,
 * enter to the target state. To handle gated productions, we may
 * have to evaluate some predicates for this edge.
 */
dfaEdge(labelExpr, targetState, predicates) ::= <<
if (<labelExpr> <if(predicates)>&& <predicates><endif>) {
 <targetState>
}
>>

// F i x e d D F A (switch case)

/** A DFA state where a SWITCH may be generated. The code generator
 * decides if this is possible: CodeGenerator.canGenerateSwitch().
 */
dfaStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch ([input LA:<k>]) {
 <edges; separator="\n">
default:
 <if(eotPredictsAlt)>
 alt<decisionNumber> = <eotPredictsAlt>;
 <else> {
 <ruleBacktrackFailure()>
 ANTLRNoViableAltException *nvae = [ANTLRNoViableAltException
exceptionWithDecision:<decisionNumber> state:<stateNumber> stream:input];
 <@noViableAltException()>
 @throw nvae;<\n>
 }
 <endif>
}
>>

dfaOptionalBlockStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch ([input LA:<k>]) {
 <edges; separator="\n">
}<\n>
>>

dfaLoopbackStateSwitch(k, edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch ([input LA:<k>]) {
 <edges; separator="\n">
 <if(eotPredictsAlt)>

```

```

default:
 alt<decisionNumber> = <eotPredictsAlt>
 break;<\n>
<endif>
}<\n>
>>

dfaEdgeSwitch(labels, targetState) ::= <<
<labels:{ case <it>:}; separator="\n">
 <targetState>
 break;
>>

// C y c l i c D F A

/** The code to initiate execution of a cyclic DFA; this is used
 * in the rule to predict an alt just like the fixed DFA case.
 * The <name> attribute is inherited via the parser, lexer, ...
 */
dfaDecision(decisionNumber,description) ::= <<
alt<decisionNumber> = [dfa<decisionNumber> predict];
>>

/** Used in headerFile */
cyclicDFAInterface(dfa) ::= <<
#pragma mark Cyclic DFA interface start <name>DFA<dfa.decisionNumber>
@interface <name>DFA<dfa.decisionNumber> : ANTLRDFA {} @end<\n>
#pragma mark Cyclic DFA interface end <name>DFA<dfa.decisionNumber>
>>

/** Used in lexer/parser implementation files */
cyclicDFA(dfa) ::= <<
#pragma mark Cyclic DFA implementation start <name>DFA<dfa.decisionNumber>
@implementation <name>DFA<dfa.decisionNumber>
const static int <name>dfa<dfa.decisionNumber>_eot[<dfa.numberofStates>] =
 {<dfa.eot; wrap="\n ", separator=",", null="-1">};
const static int <name>dfa<dfa.decisionNumber>_eof[<dfa.numberofStates>] =
 {<dfa.eof; wrap="\n ", separator=",", null="-1">};
const static unichar <name>dfa<dfa.decisionNumber>_min[<dfa.numberofStates>] =
 {<dfa.min; wrap="\n ", separator=",", null="0">};
const static unichar <name>dfa<dfa.decisionNumber>_max[<dfa.numberofStates>] =
 {<dfa.max; wrap="\n ", separator=",", null="0">};
const static int <name>dfa<dfa.decisionNumber>_accept[<dfa.numberofStates>] =
 {<dfa.accept; wrap="\n ", separator=",", null="-1">};
const static int <name>dfa<dfa.decisionNumber>_special[<dfa.numberofStates>] =
 {<dfa.special; wrap="\n ", separator=",", null="-1">};
const static int <name>dfa<dfa.decisionNumber>_transition[] = {};
<dfa.edgeTransitionClassMap.keys:{ table |

```

```

const static int <name>dfa<dfa.decisionNumber>_transition<i0>[] = { <table; separator=", ", wrap="\n ", null="-
1">};
}; null="">

- (id) initWithRecognizer:(ANTLRBaseRecognizer *) theRecognizer
{
if ((self = [super initWithRecognizer:theRecognizer]) != nil) {
eot = <name>dfa<dfa.decisionNumber>_eot;
eof = <name>dfa<dfa.decisionNumber>_eof;
min = <name>dfa<dfa.decisionNumber>_min;
max = <name>dfa<dfa.decisionNumber>_max;
accept = <name>dfa<dfa.decisionNumber>_accept;
special = <name>dfa<dfa.decisionNumber>_special;
if (!(transition = calloc(<dfa.numberofStates>, sizeof(void*)))) {
[self release];
return nil;
}
<dfa.transitionEdgeTables:{ whichTable|transition[<i0>] =
<name>dfa<dfa.decisionNumber>_transition<whichTable>;}; separator="\n", null="">
}
return self;
}

<if(dfa.specialStateSTs)>
- (int) specialStateTransition:(int) s
{
int _s = s;
switch (s) {
<dfa.specialStateSTs:{ state |
case <i0> : <! compressed special state numbers 0..n-1 !>
<state>;}; separator="\n">
}
<if(backtracking)>
if ([recognizer isBacktracking]) {
[recognizer setIsFailed:YES];
return -1;
}<\n>
<endif>
ANTLRNoViableAltException *nvae = [ANTLRNoViableAltException
exceptionWithDecision:<dfa.decisionNumber> state:_s stream:[recognizer input]];
<! [self error:nvae]; !> <! for debugger - do later !>
@throw nvae;
}<\n>
<endif>

- (void) dealloc
{
free(transition);
}

```

```

[super dealloc];
}

- (NSString *) description
{
return @"<dfa.description>";
}

<@errorMethod()>

@end
#pragma mark Cyclic DFA implementation end <name>DFA<dfa.decisionNumber>
<\n>
>>

cyclicDFAState(decisionNumber, stateNumber,edges,needErrorClause,semPredState) ::= <<
<if(semPredState)>
[[recognizer input] rewind];<\n>
<else>
int LA<decisionNumber>_<stateNumber> = [input LA:1];<\n>
<endif>
s = -1;
<edges; separator="\nelse ">
if (s>=0) return s;
break;
>>

/** Just like a fixed DFA edge, test the lookahead and indicate what
* state to jump to next if successful.
*/
cyclicDFAEdge(labelExpr, targetStateNumber, edgeNumber, predicates) ::= <<
if ((<labelExpr> <if(predicates)>&& (<predicates>)<endif>) { s = <targetStateNumber>;}<\n>
>>

/** An edge pointing at end-of-token; essentially matches any char;
* always jump to the target.
*/
eotDFAEdge(targetStateNumber,edgeNumber, predicates) ::= <<
s = <targetStateNumber>;<\n>
>>

// D F A E X P R E S S I O N S

andPredicates(left,right) ::= "<left>&&<right>"

orPredicates(operands) ::= "(first(operands)<rest(operands):{ o | ||<o> }>)"

notPredicate(pred) ::= "!(<evalPredicate(...)>)"

```

```

evalPredicate(pred,description) ::= "<pred>"

/** synpreds are broken in cyclic DFA special states
 * Damn! For now, work around with using the selectors directly, and by providing a trampoline evalSynPred
method in
 * ANTLRDFA
 */
/* evalSynPredicate(pred,description) ::= "[self evaluateSyntacticPredicate:<pred>SyntacticPredicate stream:input]"
*/
evalSynPredicate(pred,description) ::= "[self evaluateSyntacticPredicate:@selector(<pred>)]"

lookaheadTest(atom,k,atomAsInt) ::= "LA<decisionNumber>_<stateNumber>===<atom>"

/** Sometimes a lookahead test cannot assume that LA(k) is in a temp variable
 * somewhere. Must ask for the lookahead directly.
 */
isolatedLookaheadTest(atom,k,atomAsInt) ::= "[input LA:<k>]===<atom>"

lookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= <<
(LA<decisionNumber>_<stateNumber>|>=<lower> && LA<decisionNumber>_<stateNumber>|<=<upper>)
>>

isolatedLookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= "([input LA:<k>]|>=<lower>
&& [input LA:<k>]|<=<upper>)"

setTest(ranges) ::= "<ranges; separator=\\\"|\\\">"

// A T T R I B U T E S

globalAttributeScopeDecl(scope) ::= <<
@interface <name><scope.name>Scope : NSObject {
<scope.attributes:{<it.decl>;}; separator="\\n">
}
// use KVC to access attributes!
@end
>>

globalAttributeScopeIVar(scope) ::= <<
NSMutableArray *<name>_<scope.name>_stack;
>>

globalAttributeScopeImpl(scope) ::= <<
@implementation <name><scope.name>Scope
@end
>>

globalAttributeScopeInit(scope) ::= <<

```

```
<name>_<scope.name>_stack = [[NSMutableArray alloc] init];
```

```
>>
```

```
globalAttributeScopeDealloc(scope) ::= <<
```

```
[<name>_<scope.name>_stack release];
```

```
>>
```

```
ruleAttributeScopeDecl(scope) ::= <<
```

```
<if(scope.attributes)>
```

```
@interface <name><scope.name>Scope : NSObject {
```

```
<scope.attributes>{<it.decl>;}; separator="\n">
```

```
}
```

```
// use KVC to access attributes!
```

```
@end
```

```
<endif>
```

```
>>
```

```
ruleAttributeScopeIVar(scope) ::= <<
```

```
NSMutableArray *<name>_<scope.name>_stack;
```

```
>>
```

```
ruleAttributeScopeImpl(scope) ::= <<
```

```
<if(scope.attributes)>
```

```
@implementation <name><scope.name>Scope
```

```
@end
```

```
<endif>
```

```
>>
```

```
ruleAttributeScopeInit(scope) ::= <<
```

```
<name>_<scope.name>_stack = [[NSMutableArray alloc] init];
```

```
>>
```

```
ruleAttributeScopeDealloc(scope) ::= <<
```

```
[<name>_<scope.name>_stack release];
```

```
>>
```

```
returnTypeName() ::= <<
```

```
<if(!ruleDescriptor.isSynPred)>
```

```
<if(ruleDescriptor.hasMultipleReturnValues)>
```

```
<className()>_<ruleDescriptor.name>_return
```

```
<else>
```

```
<if(ruleDescriptor.hasSingleReturnValue)>
```

```
<ruleDescriptor.singleValueReturnType>
```

```
<else>
```

```
void
```

```
<endif>
```

```
<endif>
```

```

<else>
void<! for synpreds this is always void !>
<endif>
>>

returnType() ::= <<
<returnTypeName()><if(!ruleDescriptor.isSynPred)><if(ruleDescriptor.hasMultipleReturnValues)>
*<endif><endif>
>>

/** Generate the Objective-C type associated with a single or multiple return
 * values.
 */
ruleLabelType(referencedRule) ::= <<
<if(referencedRule.hasMultipleReturnValues)>
<className()>_<referencedRule.name>_return *
<else>
<if(referencedRule.hasSingleReturnValue)>
<referencedRule.singleValueReturnType>
<else>
void
<endif>
<endif>
>>

/** Using a type to init value map, try to init a type; if not in table
 * must be an object, default value is "null".
 */
initValue(typeName) ::= <<
<objcTypeInitMap.(typeName)>
>>

/** Define a rule label including default value */
ruleLabelDef(label) ::= <<
<ruleLabelType(referencedRule=label.referencedRule)>_<label.label.text> =
<initValue(typeName=ruleLabelType(referencedRule=label.referencedRule))>;<\n>
>>

/** Define a return struct for a rule if the code needs to access its
 * start/stop tokens, tree stuff, attributes, ... Leave a hole for
 * subgroups to stick in members.
 */
returnScopeInterface(scope) ::= <<
<if(!ruleDescriptor.isSynPred)>
<if(ruleDescriptor.hasMultipleReturnValues)>
@interface <returnTypeName()> : ANTLR<if(TREE_PARSER)>Tree<endif>ParserRuleReturnScope {
 <scope.attributes:{<it.decl>;}; separator="\n">
 <@ivars()>

```

```

 <actions.(actionScope).ruleReturnIvars>
 }
<@methods()>
<actions.(actionScope).ruleReturnMethodsDecl>
@end
<endif>
<endif>
>>

returnScope(scope) ::= <<
<if(!ruleDescriptor.isSynPred)>
<if(ruleDescriptor.hasMultipleReturnValues)>
@implementation <returnTypeName()>
<@methods()>
<actions.(actionScope).ruleReturnMethods>
@end
<endif>
<endif>
>>

parameterScope(scope) ::= <<
<scope.attributes: {:(<it.type><it.name>); separator=" ">
>>

parameterAttributeRef(attr) ::= "<attr.name>"
parameterSetAttributeRef(attr,expr) ::= "<attr.name> =<expr>";

scopeAttributeRef(scope,attr,index,negIndex) ::= <<
[<scopeAttributeRefStack()> valueForKey:@"<attr.name>"]
>>

scopeSetAttributeRef(scope,attr,expr,index,negIndex) ::= <<
[<scopeAttributeRefStack()> setValue:<expr> forKey:@"<attr.name>"];
>>

scopeAttributeRefStack() ::= <<
<if(negIndex)>
[<name>_<scope>_stack objectAtIndex:<name>_<scope>_stack count]-<negIndex>-1]
<else>
<if(index)>
[<name>_<scope>_stack objectAtIndex:<index>]
<else>
[<name>_<scope>_stack lastObject]
<endif>
<endif>
>>

/** $x is either global scope or x is rule with dynamic scope; refers

```



```

* to stack itself not top of stack. This is useful for predicates
* like {$function.size()>0 && $function::name.equals("foo")}?
*/
isolatedDynamicScopeRef(scope) ::= "<name>_<scope>_stack"

/** reference an attribute of rule; might only have single return value */
ruleLabelRef(referencedRule,scope,attr) ::= <<
<if(referencedRule.hasMultipleReturnValues)>
[<scope> valueForKey:@"<attr.name>"]
<else>
_<scope>
<endif>
>>

returnAttributeRef(ruleDescriptor,attr) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
[_retval setValue: forKey:@"<attr.name>"];
<else>
_<attr.name>
<endif>
>>

returnSetAttributeRef(ruleDescriptor,attr,expr) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
[_retval setValue:<expr> forKey:@"<attr.name>"];
<else>
_<attr.name> =<expr>;
<if(LEXER)>
// double check this after beta release!
[_<attr.name> retain];
<endif>
<endif>
>>
/** How to translate $tokenLabel */
tokenLabelRef(label) ::= "_<label>"

/** ids+=ID {$ids} or e+=expr {$e} */
listLabelRef(label) ::= "_list_<label>"

// not sure the next are the right approach; and they are evaluated early;
// they cannot see TREE_PARSER or PARSER attributes for example. :(

tokenLabelPropertyRef_text(scope,attr) ::= "[<scope> text]"
tokenLabelPropertyRef_type(scope,attr) ::= "[<scope> type]"
tokenLabelPropertyRef_line(scope,attr) ::= "[<scope> line]"
tokenLabelPropertyRef_pos(scope,attr) ::= "[<scope> charPositionInLine]"
tokenLabelPropertyRef_channel(scope,attr) ::= "[<scope> channel]"

```

```

tokenLabelPropertyRef_index(scope,attr) ::= "[<scope> tokenIndex]"
tokenLabelPropertyRef_tree(scope,attr) ::= "_<scope>_tree"

ruleLabelPropertyRef_start(scope,attr) ::= "[<scope> start]"
ruleLabelPropertyRef_stop(scope,attr) ::= "[<scope> stop]"
ruleLabelPropertyRef_tree(scope,attr) ::= "[<scope> tree]"
ruleLabelPropertyRef_text(scope,attr) ::= <<
<if(TREE_PARSER)>
//[input textForNode:[<scope> start]]
[input substringWithRange:NSMakeRange([[input treeAdaptor] startIndex:[<scope> start]], [[input treeAdaptor]
stopIndex:[<scope> start]])]
<else>
[input substringWithRange:NSMakeRange([<scope> start], [<scope> stop]-[<scope> start])]
<endif>
>>
ruleLabelPropertyRef_st(scope,attr) ::= "[<scope> st]"

/** Isolated $RULE ref ok in lexer as it's a Token */
lexerRuleLabel(label) ::= "_<label>"

lexerRuleLabelPropertyRef_type(scope,attr) ::= "[<scope> type]"
lexerRuleLabelPropertyRef_line(scope,attr) ::= "[<scope> line]"
lexerRuleLabelPropertyRef_pos(scope,attr) ::= "[<scope> charPositionInLine]"
lexerRuleLabelPropertyRef_channel(scope,attr) ::= "[<scope> channel]"
lexerRuleLabelPropertyRef_index(scope,attr) ::= "[<scope> tokenIndex]"
lexerRuleLabelPropertyRef_text(scope,attr) ::= "[<scope> text]"

// Somebody may ref $template or $tree or $stop within a rule:
rulePropertyRef_start(scope,attr) ::= "[_retval start]"
rulePropertyRef_stop(scope,attr) ::= "[_retval stop]"
rulePropertyRef_tree(scope,attr) ::= "[_retval tree]"
rulePropertyRef_text(scope,attr) ::= "[input substringWithRange:NSMakeRange(_start, [input index]-_start)]"
rulePropertyRef_st(scope,attr) ::= "[_retval st]"

ruleSetPropertyRef_tree(scope,attr,expr) ::= "[_retval setValue:<expr> forKey:@\"tree\"]"
ruleSetPropertyRef_st(scope,attr,expr) ::= "<\n>#error StringTemplates are unsupported<\n>"

/* hideous: find a way to cut down on the number of templates to support read/write access */
/* TODO: also, which ones are valid to write to? ask Ter */
lexerRuleSetPropertyRef_text(scope,attr,expr) ::= "[_state setText:<expr>];"
lexerRuleSetPropertyRef_type(scope,attr,expr) ::= "_type"
lexerRuleSetPropertyRef_line(scope,attr,expr) ::= "[_state tokenStartLine]"
lexerRuleSetPropertyRef_pos(scope,attr,expr) ::= "[_state tokenCharPositionInLine]"
lexerRuleSetPropertyRef_index(scope,attr,expr) ::= "-1" // undefined token index in lexer
lexerRuleSetPropertyRef_channel(scope,attr,expr) ::= "[_state setChannel:<expr>];"
lexerRuleSetPropertyRef_start(scope,attr,expr) ::= "[_state tokenStartCharIndex]"
lexerRuleSetPropertyRef_stop(scope,attr,expr) ::= "([self charIndex]-1)"

```

```

lexerRulePropertyRef_text(scope,attr) ::= "[self text]"
lexerRulePropertyRef_type(scope,attr) ::= "_type"
lexerRulePropertyRef_line(scope,attr) ::= "[_state tokenStartLine]"
lexerRulePropertyRef_pos(scope,attr) ::= "[_state tokenCharPositionInLine]"
lexerRulePropertyRef_index(scope,attr) ::= "-1" // undefined token index in lexer
lexerRulePropertyRef_channel(scope,attr) ::= "[_state channel]"
lexerRulePropertyRef_start(scope,attr) ::= "[_state tokenStartCharIndex]"
lexerRulePropertyRef_stop(scope,attr) ::= "([self charIndex]-1)"

/** How to execute an action */
execAction(action) ::= <<
<if(backtracking)>
<if(actions.(actionScope).synpredgate)>
if (<actions.(actionScope).synpredgate>) {
 <action>
}
<else>
if (!_state isBacktracking) {
 <action>
}
<endif>
<else>
<action>
<endif>
>>

// M I S C (properties, etc...)

bitset(name, words64) ::= <<
const static unsigned long long <name>_data[] = {<words64:{<it>LL};separator=",">};
static ANTLRBitSet *<name>;
<! ANTLRBitSet *<name> = [[ANTLRBitSet alloc] initWithBits:<name>_data count:<length(words64)>];<\n> !>
>>

bitsetInit(name, words64) ::= <<
<name> = [[ANTLRBitSet alloc] initWithBits:<name>_data count:<length(words64)>];<\n>
>>

codeFileExtension() ::= ".m"
headerFileExtension() ::= ".h"

true() ::= "YES"
false() ::= "NO"

Found in path(s):
* /opt/cola/permits/1204005060_1631853129.56/0/antlr-3-1-3-sources-4-

```

jar/org/antlr/codegen/templates/ObjC/ObjC.stg

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\*/

group CSharp implements ANTLRCore;

csharpTypeInitMap ::= [

"int": "0",

"uint": "0",

"long": "0",

"ulong": "0",

"float": "0.0",

"double": "0.0",

"bool": "false",

"byte": "0",

"sbyte": "0",

"short": "0",

"ushort": "0",

"char": "char.MinValue",

default: "null" // anything other than an atomic type

```

]

/** The overall file structure of a recognizer; stores methods for rules
 * and cyclic DFAs plus support code.
 */
outputFile(LEXER,PARSER,TREE_PARSER, actionScope, actions,
 docComment, recognizer,
 name, tokens, tokenNames, rules, cyclicDFAs,
 bitsets, buildTemplate, buildAST, rewriteMode, profile,
 backtracking, synpreds, memoize, numRules,
 fileName, ANTLRVersion, generatedTimestamp, trace,
 scopes, superClass, literals) ::=
<<
// $ANTLR <ANTLRVersion> <fileName> <generatedTimestamp>

<@debugPreprocessor()>
<actions.(actionScope).header>

<@imports>
using System;
using Antlr.Runtime;
<if(TREE_PARSER)>
using Antlr.Runtime.Tree;
<endif>
using IList = System.Collections.IList;
using ArrayList = System.Collections.ArrayList;
using Stack = Antlr.Runtime.Collections.StackList;

<if(backtracking)>
using IDictionary = System.Collections.IDictionary;
using Hashtable = System.Collections.Hashtable;
<endif>

<@end>

<if(actions.(actionScope).namespace)>
namespace <actions.(actionScope).namespace>
{
<endif>

<docComment>
<recognizer>
<if(actions.(actionScope).namespace)>
}
<endif>
>>

```

```

lexer(grammar, name, tokens, scopes, rules, numRules, labelType="IToken",
 filterMode, superClass="Lexer") ::= <<
public class <grammar.recognizerName> : <@superClassName><superClass><@end> {
 <tokens:{public const int <it.name> = <it.type>;}; separator="\n">
 <scopes:{<if(it.isDynamicGlobalScope)><globalAttributeScope(scope=it)><endif>}>
 <actions.lexer.members>

 // delegates
 <grammar.delegates:
 {g|public <g.recognizerName> <g.delegateName()>;}; separator="\n">
 // delegators
 <grammar.delegators:
 {g|public <g.recognizerName> <g.delegateName()>;}; separator="\n">
 <last(grammar.delegators):{g|public <g.recognizerName> gParent;}>

 public <grammar.recognizerName>() <! needed by subclasses !>
 {
 InitializeCyclicDFAs();
 }
 public <grammar.recognizerName>(ICharStream input<grammar.delegators:{g|, <g.recognizerName>
<g.delegateName()>}>)
 : this(input, null<grammar.delegators:{g|, <g.delegateName()>}>) {
 }
 public <grammar.recognizerName>(ICharStream input, RecognizerSharedState state<grammar.delegators:{g|,
<g.recognizerName> <g.delegateName()>}>)
 : base(input, state) {
 InitializeCyclicDFAs(); <! Necessary in C#??? Not removed yet. !>
 <if(memoize)>
 <if(grammar.grammarIsRoot)>
 state.ruleMemo = new Hashtable[<numRules>+1];<n> <! index from 1..n !>
 <endif>
 <endif>
 <grammar.directDelegates:
 {g|<g.delegateName()> = new <g.recognizerName>(input, state<trunc(g.delegators):{p|,
<p.delegateName()>}>, this);}; separator="\n">
 <grammar.delegators:
 {g|this.<g.delegateName()> = <g.delegateName()>;}; separator="\n">
 <last(grammar.delegators):{g|gParent = <g.delegateName()>;}>
 }

 override public string GrammarFileName
 {
 get { return "<fileName>";}
 }

 <if(filterMode)>
 <filteringNextToken()>
 <endif>

```

```

<rules; separator="\n\n">

<synpreds:{p | <lexerSynpred(p)>}>

<cyclicDFAs:{dfa | protected DFA<dfa.decisionNumber> dfa<dfa.decisionNumber>;}; separator="\n">
private void InitializeCyclicDFAs(<@debugInitializeCyclicDFAs(>)
{
 <cyclicDFAs:{dfa | this.dfa<dfa.decisionNumber> = new
DFA<dfa.decisionNumber>(this<@debugAddition(>);}; separator="\n">
 <cyclicDFAs:{dfa | <if(dfa.specialStateSTs)>this.dfa<dfa.decisionNumber>.specialStateTransitionHandler = new
DFA.SpecialStateTransitionHandler(DFA<dfa.decisionNumber>_SpecialStateTransition);<endif>};
separator="\n">
}

<cyclicDFAs:cyclicDFA()> <! dump tables for all DFA !>

}
>>

/** A override of Lexer.nextToken() that backtracks over mTokens() looking
 * for matches. No error can be generated upon error; just rewind, consume
 * a token and then try again. backtracking needs to be set as well.
 *
 * Make rule memoization happen only at levels above 1 as we start mTokens
 * at backtracking==1.
 */
filteringNextToken() ::= <<
override public IToken NextToken()
{
 while (true)
 {
 if (input.LA(1) == (int)CharStreamConstants.EOF)
 {
 return Token.EOF_TOKEN;
 }

 state.token = null;
state.channel = Token.DEFAULT_CHANNEL;
 state.tokenStartCharIndex = input.Index();
 state.tokenStartCharPositionInLine = input.CharPositionInLine;
 state.tokenStartLine = input.Line;
state.text = null;
 try
 {
 int m = input.Mark();
 state.backtracking = 1; <! means we won't throw slow exception !>
 state.failed = false;
 mTokens();

```

```

 state.backtracking = 0;
<!
 mTokens backtracks with synpred at backtracking==2
 and we set the synpredgate to allow actions at level 1.
!>
 if (state.failed)
 {
 input.Rewind(m);
 input.Consume(); <! // advance one char and try again !>
 }
 else
 {
 Emit();
 return state.token;
 }
}
catch (RecognitionException re)
{
 // shouldn't happen in backtracking mode, but...
 ReportError(re);
 Recover(re);
}
}
}

override public void Memoize(IIntStream input, int ruleIndex, int ruleStartIndex)
{
 if (state.backtracking > 1)
 base.Memoize(input, ruleIndex, ruleStartIndex);
}

override public bool AlreadyParsedRule(IIntStream input, int ruleIndex)
{
 if (state.backtracking>1)
 return base.AlreadyParsedRule(input, ruleIndex);
 return false;
}
>>

actionGate() ::= "(state.backtracking==0)"

filteringActionGate() ::= "(state.backtracking == 1)"

/** How to generate a parser */
genericParser(grammar, name, scopes, tokens, tokenNames, rules, numRules,
 bitsets, inputStreamType, superClass, filterMode,
 ASTLabelType="object", labelType, members, rewriteElementType) ::= <<
public class <grammar.recognizerName> : <@superClassName><superClass><@end>

```



```

{
<if(grammar.grammarIsRoot)>
 public static readonly string[] tokenNames = new string[]
 {
 "\<invalid>",
 "\<EOR>",
 "\<DOWN>",
 "\<UP>",
 <tokenNames; separator=", \n">
 };<\n>
<endif>

 <tokens:{public const int <it.name> = <it.type>;}; separator="\n">

 // delegates
 <grammar.delegates:
 {g|public <g.recognizerName> <g.delegateName()>;}; separator="\n">
 // delegators
 <grammar.delegators:
 {g|public <g.recognizerName> <g.delegateName()>;}; separator="\n">
 <last(grammar.delegators):{g|public <g.recognizerName> gParent;}>

 <scopes:{<if(it.isDynamicGlobalScope)><globalAttributeScope(scope=it)><endif>}>
 <@members>
 <! WARNING. bug in ST: this is cut-n-paste into Dbg.stg !>

 public <grammar.recognizerName>(<inputStreamType> input<grammar.delegators:{g|, <g.recognizerName>
 <g.delegateName()>}>
 : this(input, new RecognizerSharedState(<grammar.delegators:{g|, <g.delegateName()>}>) {
 }

 public <grammar.recognizerName>(<inputStreamType> input, RecognizerSharedState
 state<grammar.delegators:{g|, <g.recognizerName> <g.delegateName()>}>)
 : base(input, state) {
 <parserCtorBody()>
 <grammar.directDelegates:
 {g|<g.delegateName()> = new <g.recognizerName>(input, state<trunc(g.delegators):{p|,
 <p.delegateName()>}>, this);}; separator="\n">
 <grammar.indirectDelegates:{g | <g.delegateName()> = <g.delegator.delegateName()>.<g.delegateName()>;};
 separator="\n">
 <last(grammar.delegators):{g|gParent = <g.delegateName()>;}>
 }
 <@end>

 override public string[] TokenNames {
 get { return <grammar.composite.rootGrammar.recognizerName>.tokenNames; }
 }

```

```

 override public string GrammarFileName {
 get { return "<fileName>"; }
 }

 <members>

 <rules; separator="\n\n">

 <! generate rule/method definitions for imported rules so they
 appear to be defined in this recognizer. !>
 // Delegated rules
 <grammar.delegatedRules:{ruleDescriptor|
 public <returnType>< <ruleDescriptor.name><(ruleDescriptor.parameterScope:parameterScope(scope=it)> //
 throws RecognitionException
 \{
 <if(ruleDescriptor.hasReturnValue)>return
 <endif><ruleDescriptor.grammar:delegateName()>.<ruleDescriptor.name><(ruleDescriptor.parameterScope.attribut
 es:{a|<a.name>}; separator=", ">);
 \}}; separator="\n">

 <synpreds:{p | <synpred(p)>>

 <cyclicDFAs:{dfa | protected DFA<dfa.decisionNumber> dfa<dfa.decisionNumber>;}; separator="\n">
 private void InitializeCyclicDFAs(<@debugInitializeCyclicDFAs()>)
 {
 <cyclicDFAs:{dfa | this.dfa<dfa.decisionNumber> = new
 DFA<dfa.decisionNumber>(this<@debugAddition()>);}; separator="\n">
 <cyclicDFAs:{dfa | <if(dfa.specialStateSTs)>this.dfa<dfa.decisionNumber>.specialStateTransitionHandler = new
 DFA.SpecialStateTransitionHandler(DFA<dfa.decisionNumber>_SpecialStateTransition);<endif>};
 separator="\n">
 }

 <cyclicDFAs:cyclicDFA()> <! dump tables for all DFA !>

 <bitsets:bitset(name={FOLLOW_<it.name>_in_<it.inName><it.tokenIndex>},
 words64=it.bits)>
 }
 >>

 parserCtorBody() ::= <<
 <@initializeCyclicDFAs>InitializeCyclicDFAs();<@end>
 <if(memoize)>
 <if(grammar.grammarIsRoot)>
 this.state.ruleMemo = new Hashtable[<length(grammar.allImportedRules)>+1];<\n> <! index from 1..n !>
 <endif>
 <endif>
 <grammar.delegators:
 {g|this.<g:delegateName()> = <g:delegateName()>;}; separator="\n">

```

```

>>

parser(grammar, name, scopes, tokens, tokenNames, rules, numRules, bitsets, ASTLabelType, superClass="Parser",
labelType="IToken", members={<actions.parser.members>}) ::= <<
<genericParser(inputStreamType="ITokenStream", rewriteElementType="Token", ...)>
>>

/** How to generate a tree parser; same as parser except the input
 * stream is a different type.
 */
treeParser(grammar, name, scopes, tokens, tokenNames, globalAction, rules, numRules, bitsets,
labelType={<ASTLabelType>}, ASTLabelType="object", superClass="TreeParser",
members={<actions.treeparser.members>}, filterMode) ::= <<
<genericParser(inputStreamType="ITreeNodeStream", rewriteElementType="Node", ...)>
>>

/** A simpler version of a rule template that is specific to the imaginary
 * rules created for syntactic predicates. As they never have return values
 * nor parameters etc..., just give simplest possible method. Don't do
 * any of the normal memoization stuff in here either; it's a waste.
 * As predicates cannot be inlined into the invoking rule, they need to
 * be in a rule by themselves.
 */
synpredRule(ruleName, ruleDescriptor, block, description, nakedBlock) ::=
<<
// $ANTLR start "<ruleName>"
public void <ruleName>_fragment(<ruleDescriptor.parameterScope:parameterScope(scope=it)>) {
 <ruleLabelDefs(>)
<if(trace)>
 TraceIn("<ruleName>_fragment", <ruleDescriptor.index>);
 try
 {
 <block>
 }
 finally
 {
 TraceOut("<ruleName>_fragment", <ruleDescriptor.index>);
 }
<else>
 <block>
<endif>
}
// $ANTLR end "<ruleName>"
>>

synpredDecls(name) ::= <<
SynPredPointer <name>;<\n>
>>

```

```

synpred(name) ::= <<
public bool <name>()
{
 state.backtracking++;
 <@start()>
 int start = input.Mark();
 try
 {
 <name>_fragment(); // can never throw exception
 }
 catch (RecognitionException re)
 {
 Console.Error.WriteLine("impossible: "+re);
 }
 bool success = !state.failed;
 input.Rewind(start);
 <@stop()>
 state.backtracking--;
 state.failed = false;
 return success;
}<\n>
>>

lexerSynpred(name) ::= <<
<synpred(name)>
>>

ruleMemoization(name) ::= <<
<if(memoize)>
if ((state.backtracking > 0) && AlreadyParsedRule(input, <ruleDescriptor.index>))
{
 return <ruleReturnValue()>;
}
<endif>
>>

/** How to test for failure and return from rule */
checkRuleBacktrackFailure() ::= <<
<if(backtracking)>if (state.failed) return <ruleReturnValue()>;<endif>
>>

/** This rule has failed, exit indicating failure during backtrack */
ruleBacktrackFailure() ::= <<
<if(backtracking)>if (state.backtracking > 0) {state.failed = true; return <ruleReturnValue()>;}<endif>
>>

/** How to generate code for a rule. This includes any return type

```

```

* data aggregates required for multiple return values.
*/
rule(ruleName,ruleDescriptor,block,emptyRule,description,exceptions,finally,memoize) ::= <<
<ruleAttributeScope(scope=ruleDescriptor.ruleScope)>
<returnScope(scope=ruleDescriptor.returnScope)>

// $ANTLR start "<ruleName>"
// <fileName>:<description>
public <returnType()> <ruleName>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>) // throws
RecognitionException [1]
{
 <if(trace)>TraceIn("<ruleName>", <ruleDescriptor.index>);<endif>
 <ruleScopeSetUp()>
 <ruleDeclarations()>
 <ruleLabelDefs()>
 <ruleDescriptor.actions.init>
 <@preamble()>
 try
 {
 <ruleMemoization(name=ruleName)>
 <block>
 <ruleCleanUp()>
 <(ruleDescriptor.actions.after):execAction()>
 }
 <if(exceptions)>
 <exceptions:{e|<catch(decl=e.decl,action=e.action)><n}>}>
 <else>
 <if(!emptyRule)>
 <if(actions.(actionScope).rulecatch)>
 <actions.(actionScope).rulecatch>
 <else>
 catch (RecognitionException re)
 {
 ReportError(re);
 Recover(input,re);
 <@setErrorReturnValue()>
 }<n>
 <endif>
 <endif>
 <endif>
 finally
 {
 <if(trace)>TraceOut("<ruleName>", <ruleDescriptor.index>);<endif>
 <memoize()>
 <ruleScopeCleanUp()>
 <finally>
 }
 <@postamble()>

```

```

 return <ruleReturnValue>;
}
// $ANTLR end "<ruleName>"
>>

catch(decl,action) ::= <<
catch (<e.decl>)
{
 <e.action>
}
>>

ruleDeclarations() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<returnType()> retval = new <returnType()>();
retval.Start = input.LT(1);<\n>
<else>
<ruleDescriptor.returnScope.attributes: { a |
<a.type> <a.name> = <if(a.initValue)><a.initValue><else><initValue(a.type)><endif>;
}>
<endif>
<if(memoize)>
int <ruleDescriptor.name>_startIndex = input.Index();
<endif>
>>

ruleScopeSetUp() ::= <<
<ruleDescriptor.useScopes: {<it>_stack.Push(new <it>_scope());}; separator="\n">
<ruleDescriptor.ruleScope: {<it.name>_stack.Push(new <it.name>_scope());}; separator="\n">
>>

ruleScopeCleanUp() ::= <<
<ruleDescriptor.useScopes: {<it>_stack.Pop();}; separator="\n">
<ruleDescriptor.ruleScope: {<it.name>_stack.Pop();}; separator="\n">
>>

ruleLabelDefs() ::= <<
<[ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels,
ruleDescriptor.wildcardTreeLabels,ruleDescriptor.wildcardTreeListLabels]
: {<labelType> <it.label.text> = null;}; separator="\n"
>
<[ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels,ruleDescriptor.wildcardTreeListLabels]
: {IList list_<it.label.text> = null;}; separator="\n"
>
<ruleDescriptor.ruleLabels:ruleLabelDef(label=it); separator="\n">
<ruleDescriptor.ruleListLabels: {I|<I:ruleLabelDef(label=it)> <I.label.text> = null;}; separator="\n">
>>

```

```

lexerRuleLabelDefs() ::= <<
<[ruleDescriptor.tokenLabels,
ruleDescriptor.ruleListLabels,
ruleDescriptor.ruleLabels]
: {<labelType> <it.label.text> = null; }; separator="\n"
>
<ruleDescriptor.charLabels: {int <it.label.text>; }; separator="\n">
<[ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleListLabels]
: {IList list_<it.label.text> = null; }; separator="\n"
>
>>

ruleReturnValue() ::= <<
<if(!ruleDescriptor.isSynPred)>
<if(ruleDescriptor.hasReturnValue)>
<if(ruleDescriptor.hasSingleReturnValue)>
<ruleDescriptor.singleValueReturnName>
<else>
retval
<endif>
<endif>
<endif>
>>

ruleCleanUp() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<if(!TREE_PARSER)>
retval.Stop = input.LT(-1);<\n>
<endif>
<endif>
>>

memoize() ::= <<
<if(memoize)>
<if(backtracking)>
if (state.backtracking > 0)
{
Memoize(input, <ruleDescriptor.index>, <ruleDescriptor.name>_StartIndex);
}
<endif>
<endif>
>>

/** How to generate a rule in the lexer; naked blocks are used for
 * fragment rules.
 */
lexerRule(ruleName,nakedBlock,ruleDescriptor,block,memoize) ::= <<

```

```

// $ANTLR start "<ruleName>"
public void m<ruleName>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>) // throws
RecognitionException [2]
{
 <ruleAttributeScope(scope=ruleDescriptor.ruleScope)>
 <if(trace)>TraceIn("<ruleName>", <ruleDescriptor.index>);<endif>
 <ruleScopeSetUp()>
 <ruleDeclarations()>
 try
 {
 <if(nakedBlock)>
 <ruleMemoization(name=ruleName)>
 <lexerRuleLabelDefs()>
 <ruleDescriptor.actions.init>
 <block><\n>
 <else>
 int _type = <ruleName>;
 int _channel = DEFAULT_TOKEN_CHANNEL;
 <ruleMemoization(name=ruleName)>
 <lexerRuleLabelDefs()>
 <ruleDescriptor.actions.init>
 <block>
 <ruleCleanUp()>
 state.type = _type;
 state.channel = _channel;
 <(ruleDescriptor.actions.after):execAction()>
 <endif>
 }
 finally
 {
 <if(trace)>TraceOut("<ruleName>", <ruleDescriptor.index>);<endif>
 <ruleScopeCleanUp()>
 <memoize()>
 }
}
// $ANTLR end "<ruleName>"
>>

```

/\*\* How to generate code for the implicitly-defined lexer grammar rule  
\* that chooses between lexer rules.

\*/

```

tokensRule(ruleName,nakedBlock,args,block,ruleDescriptor) ::= <<
override public void mTokens() // throws RecognitionException
{
 <block><\n>
}
>>

```



## // S U B R U L E S

/\*\* A (...) subrule with multiple alternatives \*/

block(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<

// <fileName>:<description>

int alt<decisionNumber> = <maxAlt>;

<decls>

<@predecision()>

<decision>

<@postdecision()>

<@prebranch()>

switch (alt<decisionNumber>)

{

  <alts:altSwitchCase()>

}

<@postbranch()>

>>

/\*\* A rule block with multiple alternatives \*/

ruleBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<

// <fileName>:<description>

int alt<decisionNumber> = <maxAlt>;

<decls>

<@predecision()>

<decision>

<@postdecision()>

switch (alt<decisionNumber>)

{

  <alts:altSwitchCase()>

}

>>

ruleBlockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<

// <fileName>:<description>

<decls>

<@prealt()>

<alts>

<@postalt()>

>>

/\*\* A special case of a (...) subrule with a single alternative \*/

blockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<

// <fileName>:<description>

<decls>

<@prealt()>

<alts>

<@postalt()>

>>

```

/** A (..)+ block with 1 or more alternatives */
positiveClosureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// <fileName>:<description>
int cnt<decisionNumber> = 0;
<decls>
<@preloop()>
do
{
 int alt<decisionNumber> = <maxAlt>;
 <@predecision()>
 <decision>
 <@postdecision()>
 switch (alt<decisionNumber>)
 {
 <alts:altSwitchCase()>
 default:
 if (cnt<decisionNumber> >= 1) goto loop<decisionNumber>;
 <ruleBacktrackFailure()>
 EarlyExitException eee<decisionNumber> =
 new EarlyExitException(<decisionNumber>, input);
 <@earlyExitException()>
 throw eee<decisionNumber>;
 }
 cnt<decisionNumber>++;
} while (true);

loop<decisionNumber>:
; // Stops C# compiler whining that label 'loop<decisionNumber>' has no statements
<@postloop()>
>>

```

```

positiveClosureBlockSingleAlt ::= positiveClosureBlock

```

```

/** A (..)* block with 1 or more alternatives */
closureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::=
<<
// <fileName>:<description>
<decls>
<@preloop()>
do
{
 int alt<decisionNumber> = <maxAlt>;
 <@predecision()>
 <decision>
 <@postdecision()>
 switch (alt<decisionNumber>)

```

```

{
 <alts:altSwitchCase()>
 default:
 goto loop<decisionNumber>;
}
} while (true);

loop<decisionNumber>:
; // Stops C# compiler whining that label 'loop<decisionNumber>' has no statements
<@postloop()>
>>

closureBlockSingleAlt ::= closureBlock

/** Optional blocks (x)? are translated to (x|) by before code generation
 * so we can just use the normal block template
 */
optionalBlock ::= block

optionalBlockSingleAlt ::= block

/** A case in a switch that jumps to an alternative given the alternative
 * number. A DFA predicts the alternative and then a simple switch
 * does the jump to the code that actually matches that alternative.
 */
altSwitchCase() ::= <<
case <i> :
 <@prealt()>
 <it>
 break;<\n>
>>

/** An alternative is just a list of elements; at outermost level */
alt(elements,altNum,description,autoAST,outerAlt,treeLevel,rew) ::= <<
// <fileName>:<description>
{
 <@declarations()>
 <elements:element()>
 <rew>
 <@cleanup()>
}
>>

/** What to emit when there is no rewrite. For auto build
 * mode, does nothing.
 */
noRewrite(rewriteBlockLevel, treeLevel) ::= ""

```

```
// ELEMENTS
```

```
/** Dump the elements one per line */
```

```
element() ::= <<
```

```
<@prematch(>
```

```
<it.el><\n>
```

```
>>
```

```
/** match a token optionally with a label in front */
```

```
tokenRef(token,label,elementIndex,hetero) ::= <<
```

```
<if(label)><label>=(<labelType>)<endif>Match(input,<token>,FOLLOW_<token>_in_<ruleName><elementIndex>); <checkRuleBacktrackFailure(>
```

```
>>
```

```
/** ids+=ID */
```

```
tokenRefAndListLabel(token,label,elementIndex,hetero) ::= <<
```

```
<tokenRef(...)>
```

```
<listLabel(elem=label,...)>
```

```
>>
```

```
listLabel(label,elem) ::= <<
```

```
if (list_<label> == null) list_<label> = new ArrayList();
```

```
list_<label>.Add(<elem>);<\n>
```

```
>>
```

```
/** match a character */
```

```
charRef(char,label) ::= <<
```

```
<if(label)>
```

```
<label> = input.LA(1);<\n>
```

```
<endif>
```

```
Match(<char>); <checkRuleBacktrackFailure(>
```

```
>>
```

```
/** match a character range */
```

```
charRangeRef(a,b,label) ::= <<
```

```
<if(label)>
```

```
<label> = input.LA(1);<\n>
```

```
<endif>
```

```
MatchRange(<a>,); <checkRuleBacktrackFailure(>
```

```
>>
```

```
/** For now, sets are interval tests and must be tested inline */
```

```
matchSet(s,label,elementIndex,postmatchCode="") ::= <<
```

```
<if(label)>
```

```
<if(LEXER)>
```

```
<label>= input.LA(1);<\n>
```

```
<else>
```

```
<label> = (<labelType>)input.LT(1);<\n>
```

```

<endif>
<endif>
if (<s>)
{
 input.Consume();
 <postmatchCode>
<if(!LEXER)>
 state.errorRecovery = false;
<endif>
 <if(backtracking)>state.failed = false;<endif>
}
else
{
 <ruleBacktrackFailure()>
 MismatchedSetException mse = new MismatchedSetException(null,input);
 <@mismatchedSetException()>
<if(LEXER)>
 Recover(mse);
 throw mse;
<else>
 throw mse;
 <! use following code to make it recover inline; remove throw mse;
 RecoverFromMismatchedSet(input,mse,FOLLOW_set_in_<ruleName><elementIndex>);
 !>
<endif>
}<\n>
>>

```

```

matchRuleBlockSet ::= matchSet

```

```

matchSetAndListLabel(s,label,elementIndex,postmatchCode) ::= <<
<matchSet(...)>
<listLabel(elem=label,...)>
>>

```

```

/** Match a string literal */
lexerStringRef(string,label) ::= <<
<if(label)>
int <label>Start = CharIndex;
Match(<string>); <checkRuleBacktrackFailure()>
<label> = new CommonToken(input, Token.INVALID_TOKEN_TYPE, Token.DEFAULT_CHANNEL,
<label>Start, CharIndex-1);
<else>
Match(<string>); <checkRuleBacktrackFailure()><\n>
<endif>
>>

```

```

wildcard(label,elementIndex) ::= <<

```

```

<if(label)>
<label> = (<labelType>)input.LT(1);<\n>
<endif>
MatchAny(input); <checkRuleBacktrackFailure()>
>>

wildcardAndListLabel(label,elementIndex) ::= <<
<wildcard(...)>
<listLabel(elem=label,...)>
>>

/** Match . wildcard in lexer */
wildcardChar(label, elementIndex) ::= <<
<if(label)>
<label> = input.LA(1);<\n>
<endif>
MatchAny(); <checkRuleBacktrackFailure()>
>>

wildcardCharListLabel(label, elementIndex) ::= <<
<wildcardChar(...)>
<listLabel(elem=label,...)>
>>

/** Match a rule reference by invoking it possibly with arguments
 * and a return value or values. The 'rule' argument was the
 * target rule name, but now is type Rule, whose toString is
 * same: the rule name. Now though you can access full rule
 * descriptor stuff.
 */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
PushFollow(FOLLOW_<rule.name>_in_<ruleName><elementIndex>);
<if(label)>
<label> = <if(scope)><scope:delegateName()>.<endif><rule.name><(args; separator=", ">);<\n>
<else>
<if(scope)><scope:delegateName()>.<endif><rule.name><(args; separator=", ">);<\n>
<endif>
state.followingStackPointer--;
<checkRuleBacktrackFailure()>
>>

/** ids+=r */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>
<listLabel(elem=label,...)>
>>

/** A lexer rule reference.

```

```

*
* The 'rule' argument was the target rule name, but now
* is type Rule, whose toString is same: the rule name.
* Now though you can access full rule descriptor stuff.
*/
lexerRuleRef(rule,label,args,elementIndex,scope) ::= <<
<if(label)>
int <label>Start<elementIndex> = CharIndex;
<if(scope)><scope:delegateName().<endif>m<rule.name><(args; separator=", ">);
<checkRuleBacktrackFailure()>
<label> = new CommonToken(input, Token.INVALID_TOKEN_TYPE, Token.DEFAULT_CHANNEL,
<label>Start<elementIndex>, CharIndex-1);
<else>
<if(scope)><scope:delegateName().<endif>m<rule.name><(args; separator=", ">);
<checkRuleBacktrackFailure()>
<endif>
>>

/** i+=INT in lexer */
lexerRuleRefAndListLabel(rule,label,args,elementIndex,scope) ::= <<
<lexerRuleRef(...)>
<listLabel(elem=label,...)>
>>

/** EOF in the lexer */
lexerMatchEOF(label,elementIndex) ::= <<
<if(label)>
int <label>Start<elementIndex> = CharIndex;
Match(EOF); <checkRuleBacktrackFailure()>
<labelType> <label> = new CommonToken(input, EOF, Token.DEFAULT_CHANNEL,
<label>Start<elementIndex>, CharIndex-1);
<else>
Match(EOF); <checkRuleBacktrackFailure()>
<endif>
>>

/** match ^(root children) in tree parser */
tree(root, actionsAfterRoot, children, nullableChildList,
enclosingTreeLevel, treeLevel) ::= <<
<root:element()>
<actionsAfterRoot:element()>
<if(nullableChildList)>
if (input.LA(1) == Token.DOWN)
{
Match(input, Token.DOWN, null); <checkRuleBacktrackFailure()>
<children:element()>
Match(input, Token.UP, null); <checkRuleBacktrackFailure()>
}
}

```

```

<else>
Match(input, Token.DOWN, null); <checkRuleBacktrackFailure()>
<children:element()>
Match(input, Token.UP, null); <checkRuleBacktrackFailure()>
<endif>
>>

/** Every predicate is used as a validating predicate (even when it is
 * also hoisted into a prediction expression).
 */
validateSemanticPredicate(pred,description) ::= <<
if (!(<evalPredicate(...)>)
{
 <ruleBacktrackFailure()>
 throw new FailedPredicateException(input, "<ruleName>", "<description>");
}
>>

// F i x e d D F A (if-then-else)

dfaState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
int LA<decisionNumber>_<stateNumber> = input.LA(<k>);<\n>
<edges; separator="\nelse ">
else
{
<if(eotPredictsAlt)>
 alt<decisionNumber> = <eotPredictsAlt>;
<else>
 <ruleBacktrackFailure()>
 NoViableAltException nvae_d<decisionNumber>s<stateNumber> =
 new NoViableAltException("<description>", <decisionNumber>, <stateNumber>, input);<\n>
 <@noViableAltException()>
 throw nvae_d<decisionNumber>s<stateNumber>;<\n>
<endif>
}
>>

/** Same as a normal DFA state except that we don't examine lookahead
 * for the bypass alternative. It delays error detection but this
 * is faster, smaller, and more what people expect. For (X)? people
 * expect "if (LA(1)==X) match(X);" and that's it.
 */
dfaOptionalBlockState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
int LA<decisionNumber>_<stateNumber> = input.LA(<k>);<\n>
<edges; separator="\nelse ">
>>

/** A DFA state that is actually the loopback decision of a closure

```



```

* loop. If end-of-token (EOT) predicts any of the targets then it
* should act like a default clause (i.e., no error can be generated).
* This is used only in the lexer so that for ('a)* on the end of a rule
* anything other than 'a' predicts exiting.
*/
dfaLoopbackState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
int LA<decisionNumber>_<stateNumber> = input.LA(<k>);<\n>
<edges; separator="\nelse "><\n>
<if(eotPredictsAlt)>
<if(!edges)>
alt<decisionNumber>=<eotPredictsAlt>; <! if no edges, don't gen ELSE !>
<else>
else
{
 alt<decisionNumber> = <eotPredictsAlt>;
}<\n>
<endif>
<endif>
>>

/** An accept state indicates a unique alternative has been predicted */
dfaAcceptState(alt) ::= "alt<decisionNumber> = <alt>;"

/** A simple edge with an expression. If the expression is satisfied,
* enter to the target state. To handle gated productions, we may
* have to evaluate some predicates for this edge.
*/
dfaEdge(labelExpr, targetState, predicates) ::= <<
if ((<labelExpr>) <if(predicates)>&& (<predicates>) <endif>)
{
 <targetState>
}
>>

// F i x e d D F A (switch case)

/** A DFA state where a SWITCH may be generated. The code generator
* decides if this is possible: CodeGenerator.canGenerateSwitch().
*/
dfaStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch (input.LA(<k>))
{
<edges; separator="\n">
default:
<if(eotPredictsAlt)>
 alt<decisionNumber> = <eotPredictsAlt>;
 break;
<else>

```

```

<ruleBacktrackFailure()>
 NoViableAltException nvae_d<decisionNumber>s<stateNumber> =
 new NoViableAltException("<description>", <decisionNumber>, <stateNumber>, input);<\n>
 <@noViableAltException()>
 throw nvae_d<decisionNumber>s<stateNumber>;<\n>
<endif>
}<\n>
>>

```

```

dfaOptionalBlockStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch (input.LA(<k>))
{
 <edges; separator="\n">
}<\n>
>>

```

```

dfaLoopbackStateSwitch(k, edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch (input.LA(<k>))
{
 <edges; separator="\n"><\n>
 <if(eotPredictsAlt)>
 default:
 alt<decisionNumber> = <eotPredictsAlt>;
 break;<\n>
 <endif>
}<\n>
>>

```

```

dfaEdgeSwitch(labels, targetState) ::= <<
<labels:{ case <it>:}; separator="\n">
{
 <targetState>
}
break;
>>

```

// C y c l i c D F A

```

/** The code to initiate execution of a cyclic DFA; this is used
 * in the rule to predict an alt just like the fixed DFA case.
 * The <name> attribute is inherited via the parser, lexer, ...
 */
dfaDecision(decisionNumber,description) ::= <<
alt<decisionNumber> = dfa<decisionNumber>.Predict(input);
>>

```

```

/* Dump DFA tables.
*/

```

```

cyclicDFA(dfa) ::= <<
const string DFA<dfa.decisionNumber>_eotS =
 "<dfa.javaCompressedEOT; wrap="\n \n">";
const string DFA<dfa.decisionNumber>_eofS =
 "<dfa.javaCompressedEOF; wrap="\n \n">";
const string DFA<dfa.decisionNumber>_minS =
 "<dfa.javaCompressedMin; wrap="\n \n">";
const string DFA<dfa.decisionNumber>_maxS =
 "<dfa.javaCompressedMax; wrap="\n \n">";
const string DFA<dfa.decisionNumber>_acceptS =
 "<dfa.javaCompressedAccept; wrap="\n \n">";
const string DFA<dfa.decisionNumber>_specialS =
 "<dfa.javaCompressedSpecial; wrap="\n \n">";
static readonly string[] DFA<dfa.decisionNumber>_transitionS = {
 <dfa.javaCompressedTransition: {s|<s; wrap="\n \n">}; separator=",\n">
};

static readonly short[] DFA<dfa.decisionNumber>_eot =
DFA.UnpackEncodedString(DFA<dfa.decisionNumber>_eotS);
static readonly short[] DFA<dfa.decisionNumber>_eof =
DFA.UnpackEncodedString(DFA<dfa.decisionNumber>_eofS);
static readonly char[] DFA<dfa.decisionNumber>_min =
DFA.UnpackEncodedStringToUnsignedChars(DFA<dfa.decisionNumber>_minS);
static readonly char[] DFA<dfa.decisionNumber>_max =
DFA.UnpackEncodedStringToUnsignedChars(DFA<dfa.decisionNumber>_maxS);
static readonly short[] DFA<dfa.decisionNumber>_accept =
DFA.UnpackEncodedString(DFA<dfa.decisionNumber>_acceptS);
static readonly short[] DFA<dfa.decisionNumber>_special =
DFA.UnpackEncodedString(DFA<dfa.decisionNumber>_specialS);
static readonly short[][] DFA<dfa.decisionNumber>_transition =
DFA.UnpackEncodedStringArray(DFA<dfa.decisionNumber>_transitionS);

protected class DFA<dfa.decisionNumber> : DFA
{
 <@debugMember()>
 public DFA<dfa.decisionNumber>(BaseRecognizer recognizer)
 {
 this.recognizer = recognizer;
 this.decisionNumber = <dfa.decisionNumber>;
 this.eot = DFA<dfa.decisionNumber>_eot;
 this.eof = DFA<dfa.decisionNumber>_eof;
 this.min = DFA<dfa.decisionNumber>_min;
 this.max = DFA<dfa.decisionNumber>_max;
 this.accept = DFA<dfa.decisionNumber>_accept;
 this.special = DFA<dfa.decisionNumber>_special;
 this.transition = DFA<dfa.decisionNumber>_transition;
 }
}

```

```

<@dbgCtor()>

override public string Description
{
 get { return "<dfa.description>"; }
}

<@errorMethod()>
}<\n>
<if(dfa.specialStateSTs)>

protected internal int DFA<dfa.decisionNumber>_SpecialStateTransition(DFA dfa, int s, IIntStream _input)
//throws NoViableAltException
{
 <if(LEXER)>
 IIntStream input = _input;
 <endif>
 <if(PARSER)>
 ITokenStream input = (ITokenStream)_input;
 <endif>
 <if(TREE_PARSER)>
 ITreeNodeStream input = (ITreeNodeStream)_input;
 <endif>
 int _s = s;
 switch (s)
 {
 <dfa.specialStateSTs:{state |
 case <i0> : <! compressed special state numbers 0..n-1 !>
 <state>}; separator="\n">
 }
 <if(backtracking)>
 if (state.backtracking > 0) { state.failed = true; return -1;}<\n>
 <endif>
 NoViableAltException nvae<dfa.decisionNumber> =
 new NoViableAltException(dfa.Description, <dfa.decisionNumber>, _s, input);
 dfa.Error(nvae<dfa.decisionNumber>);
 throw nvae<dfa.decisionNumber>;
 }<\n>
 <endif>
 >>

/** A state in a cyclic DFA; it's a special state and part of a big switch on
 * state.
 */
cyclicDFAState(decisionNumber,stateNumber,edges,needErrorClause,semPredState) ::= <<
int LA<decisionNumber>_<stateNumber> = input.LA(1);<\n>
<if(semPredState)> <! get next lookahead symbol to test edges, then rewind !>
int index<decisionNumber>_<stateNumber> = input.Index();

```

```

input.Rewind();<\n>
<endif>
s = -1;
<edges; separator="\nelse ">
<if(semPredState)> <! return input cursor to state before we rewound !>
input.Seek(index<decisionNumber>_<stateNumber>);<\n>
<endif>
if (s >= 0) return s;
break;
>>

/** Just like a fixed DFA edge, test the lookahead and indicate what
 * state to jump to next if successful.
 */
cyclicDFAEdge(labelExpr, targetStateNumber, edgeNumber, predicates) ::= <<
if ((<labelExpr> <if(predicates)>&& (<predicates> <endif>) { s = <targetStateNumber>; }<\n>
>>

/** An edge pointing at end-of-token; essentially matches any char;
 * always jump to the target.
 */
eotDFAEdge(targetStateNumber,edgeNumber, predicates) ::= <<
s = <targetStateNumber>;<\n>
>>

// D F A E X P R E S S I O N S

andPredicates(left,right) ::= "(<left> && <right>)"

orPredicates(operands) ::= "(<first(operands)><rest(operands):{ o | || <o> }>)"

notPredicate(pred) ::= "!(<evalPredicate(...)>)"

evalPredicate(pred,description) ::= "<pred>"

evalSynPredicate(pred,description) ::= "<pred>()"

lookaheadTest(atom,k,atomAsInt) ::= "LA<decisionNumber>_<stateNumber> == <atom>"

/** Sometimes a lookahead test cannot assume that LA(k) is in a temp variable
 * somewhere. Must ask for the lookahead directly.
 */
isolatedLookaheadTest(atom,k,atomAsInt) ::= "input.LA(<k>) == <atom>"

lookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= <<
(LA<decisionNumber>_<stateNumber> |>= <lower> && LA<decisionNumber>_<stateNumber> |<= <upper>)
>>

```

```

isolatedLookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= "(input.LA(<k>) \>=
<lower> && input.LA(<k>) \<= <upper>)"

setTest(ranges) ::= "<ranges; separator=\" \| \>"

// A T T R I B U T E S

globalAttributeScope(scope) ::= <<
<if(scope.attributes)>
protected class <scope.name>_scope
{
 <scope.attributes:{protected internal <it.decl>;}; separator="\n">
}
protected Stack <scope.name>_stack = new Stack();<\n>
<endif>
>>

ruleAttributeScope(scope) ::= <<
<if(scope.attributes)>
protected class <scope.name>_scope
{
 <scope.attributes:{protected internal <it.decl>;}; separator="\n">
}
protected Stack <scope.name>_stack = new Stack();<\n>
<endif>
>>

returnStructName() ::= "<it.name>_return"

returnType() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<ruleDescriptor.grammar.recognizerName>.<ruleDescriptor:returnStructName()>
<else>
<if(ruleDescriptor.hasSingleReturnValue)>
<ruleDescriptor.singleValueReturnType>
<else>
void
<endif>
<endif>
>>

/** Generate the C# type associated with a single or multiple return
 * values.
 */
ruleLabelType(referencedRule) ::= <<
<if(referencedRule.hasMultipleReturnValues)>
<referencedRule.grammar.recognizerName>.<referencedRule.name>_return

```

```

<else>
<if(referencedRule.hasSingleReturnValue)>
<referencedRule.singleValueReturnType>
<else>
void
<endif>
<endif>
>>

delegateName() ::= <<
<if(it.label)><it.label><else>g<it.name><endif>
>>

/** Using a type to init value map, try to init a type; if not in table
 * must be an object, default value is "null".
 */
initValue(typeName) ::= <<
<csharpTypeInitMap.(typeName)>
>>

/** Define a rule label including default value */
ruleLabelDef(label) ::= <<
<ruleLabelType(referencedRule=label.referencedRule)> <label.label.text> =
<initValue(typeName=ruleLabelType(referencedRule=label.referencedRule))>;<\n>
>>

/** Define a return struct for a rule if the code needs to access its
 * start/stop tokens, tree stuff, attributes, ... Leave a hole for
 * subgroups to stick in members.
 */
returnScope(scope) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
public class <ruleDescriptor.returnStructName()> :
<if(TREE_PARSER)>Tree<else>Parser<endif>RuleReturnScope
{
 <scope.attributes:{public <it.decl>;}; separator="\n">
 <@ruleReturnMembers()>
};
<endif>
>>

parameterScope(scope) ::= <<
<scope.attributes:{<it.decl>;}; separator=", ">
>>

parameterAttributeRef(attr) ::= "<attr.name>"
parameterSetAttributeRef(attr,expr) ::= "<attr.name> = <expr>";"

```

```

scopeAttributeRef(scope,attr,index,negIndex) ::= <<
<if(negIndex)>
((<scope>_scope)<scope>_stack[<scope>_stack.Count-<negIndex>-1]).<attr.name>
<else>
<if(index)>
((<scope>_scope)<scope>_stack[<index>]).<attr.name>
<else>
((<scope>_scope)<scope>_stack.Peek()).<attr.name>
<endif>
<endif>
>>

scopeSetAttributeRef(scope,attr,expr,index,negIndex) ::= <<
<if(negIndex)>
((<scope>_scope)<scope>_stack[<scope>_stack.Count-<negIndex>-1]).<attr.name> = <expr>;
<else>
<if(index)>
((<scope>_scope)<scope>_stack[<index>]).<attr.name> = <expr>;
<else>
((<scope>_scope)<scope>_stack.Peek()).<attr.name> = <expr>;
<endif>
<endif>
>>

/** $x is either global scope or x is rule with dynamic scope; refers
 * to stack itself not top of stack. This is useful for predicates
 * like {$function.size(>0) && $function::name.equals("foo")}?
 */
isolatedDynamicScopeRef(scope) ::= "<scope>_stack"

/** reference an attribute of rule; might only have single return value */
ruleLabelRef(referencedRule,scope,attr) ::= <<
<if(referencedRule.hasMultipleReturnValues)>
((<scope> != null) ? <scope>.<attr.name> : <initValue(attr.type)>)
<else>
<scope>
<endif>
>>

returnAttributeRef(ruleDescriptor,attr) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
retval.<attr.name>
<else>
<attr.name>
<endif>
>>

returnSetAttributeRef(ruleDescriptor,attr,expr) ::= <<

```



```

<if(ruleDescriptor.hasMultipleReturnValues)>
retval.<attr.name> = <expr>;
<else>
<attr.name> = <expr>;
<endif>
>>

/** How to translate $tokenLabel */
tokenLabelRef(label) ::= "<label>"

/** ids+=ID {$ids} or e+=expr {$e} */
listLabelRef(label) ::= "list_<label>"

// not sure the next are the right approach

tokenLabelPropertyRef_text(scope,attr) ::= "(<scope> != null) ? <scope>.Text : null)"
tokenLabelPropertyRef_type(scope,attr) ::= "(<scope> != null) ? <scope>.Type : 0)"
tokenLabelPropertyRef_line(scope,attr) ::= "(<scope> != null) ? <scope>.Line : 0)"
tokenLabelPropertyRef_pos(scope,attr) ::= "(<scope> != null) ? <scope>.CharPositionInLine : 0)"
tokenLabelPropertyRef_channel(scope,attr) ::= "(<scope> != null) ? <scope>.Channel : 0)"
tokenLabelPropertyRef_index(scope,attr) ::= "(<scope> != null) ? <scope>.TokenIndex : 0)"
tokenLabelPropertyRef_tree(scope,attr) ::= "<scope>_tree"
tokenLabelPropertyRef_int(scope,attr) ::= "<scope>!=null?int.Parse(<scope>.Text):0)"

ruleLabelPropertyRef_start(scope,attr) ::= "(<scope> != null) ? ((<labelType>)<scope>.Start) : null)"
ruleLabelPropertyRef_stop(scope,attr) ::= "(<scope> != null) ? ((<labelType>)<scope>.Stop) : null)"
ruleLabelPropertyRef_tree(scope,attr) ::= "(<scope> != null) ? ((<ASTLabelType>)<scope>.Tree) : null)"
ruleLabelPropertyRef_text(scope,attr) ::= <<
<if(TREE_PARSER)>
((<scope> != null) ? input.TokenStream.ToString(
input.TreeAdaptor.GetTokenStartIndex(<scope>.Start),
input.TreeAdaptor.GetTokenStopIndex(<scope>.Start)) : null)
<else>
((<scope> != null) ? input.ToString((IToken)<scope>.Start),(IToken)<scope>.Stop)) : null)
<endif>
>>
ruleLabelPropertyRef_st(scope,attr) ::= "(<scope> != null) ? <scope>.ST : null)"

/** Isolated $RULE ref ok in lexer as it's a Token */
lexerRuleLabel(label) ::= "<label>"

lexerRuleLabelPropertyRef_type(scope,attr) ::= "(<scope> != null) ? <scope>.Type : 0)"
lexerRuleLabelPropertyRef_line(scope,attr) ::= "(<scope> != null) ? <scope>.Line : 0)"
lexerRuleLabelPropertyRef_pos(scope,attr) ::= "(<scope> != null) ? <scope>.CharPositionInLine : -1)"
lexerRuleLabelPropertyRef_channel(scope,attr) ::= "(<scope> != null) ? <scope>.Channel : 0)"
lexerRuleLabelPropertyRef_index(scope,attr) ::= "(<scope> != null) ? <scope>.TokenIndex : 0)"
lexerRuleLabelPropertyRef_text(scope,attr) ::= "(<scope> != null) ? <scope>.Text : null)"

```

```
lexerRuleLabelPropertyRef_int(scope,attr) ::= "<scope>!=null?int.Parse(<scope>.Text):0"
```

```
// Somebody may ref $template or $tree or $stop within a rule:
```

```
rulePropertyRef_start(scope,attr) ::= "(<labelType>)retval.Start"
rulePropertyRef_stop(scope,attr) ::= "(<labelType>)retval.Stop"
rulePropertyRef_tree(scope,attr) ::= "(<ASTLabelType>)retval.Tree)"
rulePropertyRef_text(scope,attr) ::= <<
<if(TREE_PARSER)>
input.TokenStream.ToString(
input.TreeAdaptor.GetTokenStartIndex(retval.Start),
input.TreeAdaptor.GetTokenStopIndex(retval.Start))
<else>
input.ToString((IToken)retval.Start,input.LT(-1))
<endif>
>>
rulePropertyRef_st(scope,attr) ::= "retval.ST"
```

```
lexerRulePropertyRef_text(scope,attr) ::= "Text"
lexerRulePropertyRef_type(scope,attr) ::= "_type"
lexerRulePropertyRef_line(scope,attr) ::= "state.tokenStartLine"
lexerRulePropertyRef_pos(scope,attr) ::= "state.tokenStartCharPositionInLine"
lexerRulePropertyRef_index(scope,attr) ::= "-1" // undefined token index in lexer
lexerRulePropertyRef_channel(scope,attr) ::= "_channel"
lexerRulePropertyRef_start(scope,attr) ::= "state.tokenStartCharIndex"
lexerRulePropertyRef_stop(scope,attr) ::= "(CharIndex-1)"
lexerRulePropertyRef_int(scope,attr) ::= "int.Parse(<scope>.Text)"
```

```
// setting $st and $tree is allowed in local rule. everything else
```

```
// is flagged as error
```

```
ruleSetPropertyRef_tree(scope,attr,expr) ::= "retval.Tree = <expr>";
ruleSetPropertyRef_st(scope,attr,expr) ::= "retval.ST = <expr>";
```

```
/** How to execute an action (only when not backtracking) */
```

```
execAction(action) ::= <<
<if(backtracking)>
if (<actions.(actionScope).synpredgate>)
{
<action>
}
<else>
<action>
<endif>
>>
```

```
/** How to always execute an action even when backtracking */
```

```
execForcedAction(action) ::= "<action>"
```

```
// M I S C (properties, etc...)
```

```
bitset(name, words64) ::= <<
```

```
public static readonly BitSet <name> = new BitSet(new ulong[] { <it>UL }; separator=", ">)); <\n>
>>
```

```
codeFileExtension() ::= ".cs"
```

```
true() ::= "true"
```

```
false() ::= "false"
```

Found in path(s):

```
* /opt/cola/permits/1204005060_1631853129.56/0/antlr-3-1-3-sources-4-
jar/org/antlr/codegen/templates/CSharp/CSharp.stg
```

No license file was found, but licenses were detected in source scan.

```
/*
```

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```

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```

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```
*/
```

```
/** Template overrides to add debugging to AST stuff. Dynamic inheritance
```

```
* hierarchy is set up as ASTDbg : AST : Dbg : Java by code generator.
```

```
*/
```

```

group ASTDbg;

parserMembers() ::= <<
protected DebugTreeAdaptor adaptor;
public void setTreeAdaptor(TreeAdaptor adaptor) {
<if(grammar.grammarIsRoot)>
 this.adaptor = new DebugTreeAdaptor(dbg,adaptor);
<else>
 this.adaptor = (DebugTreeAdaptor)adaptor; // delegator sends dbg adaptor
<endif><\n>
 <grammar.directDelegates:{g|<g:delegateName()>.setTreeAdaptor(this.adaptor);}>
}
public TreeAdaptor getTreeAdaptor() {
 return adaptor;
}<\n>
>>

parserCtorBody() ::= <<
<super.parserCtorBody()>
>>

createListenerAndHandshake() ::= <<
DebugEventSocketProxy proxy =
 new DebugEventSocketProxy(this,port,<if(TREE_PARSER)>input.getTreeAdaptor()<else>adaptor<endif>);
setDebugListener(proxy);
set<inputStreamType>(new Debug<inputStreamType>(input,proxy));
try {
 proxy.handshake();
}
catch (IOException ioe) {
 reportError(ioe);
}
>>

@ctorForRootGrammar.finally() ::= <<
TreeAdaptor adap = new CommonTreeAdaptor();
setTreeAdaptor(adap);
proxy.setTreeAdaptor(adap);
>>

@ctorForProfilingRootGrammar.finally() ::= <<
TreeAdaptor adap = new CommonTreeAdaptor();
setTreeAdaptor(adap);
proxy.setTreeAdaptor(adap);
>>

@ctorForPredefinedListener.superClassRef() ::= "super(input, dbg);"

```

```

@ctorForPredefinedListener.finally() ::=<<
<if(grammar.grammarIsRoot)> <! don't create new adaptor for delegates !>
TreeAdaptor adap = new CommonTreeAdaptor();
setTreeAdaptor(adap);<\n>
<endif>
>>

```

```

@rewriteElement.pregen() ::= "dbg.location(<e.line>,<e.pos>);"

```

Found in path(s):

```

* /opt/cola/permits/1204005060_1631853129.56/0/antlr-3-1-3-sources-4-
jar/org/antlr/codegen/templates/Java/ASTDbg.stg

```

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```

/*

```

```

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```

```

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```

```

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```

*/

```

```

group AST;

```

```

@outputFile.imports() ::= <<

```

```

<@super.imports()>

```

```

<if(!TREE_PARSER)><! tree parser would already have imported !>

```

```

import org.antlr.runtime.tree.*;<\n>

```

```

<endif>

```

```

>>

@genericParser.members() ::= <<
<@super.members()>
<parserMembers()>
>>

/** Add an adaptor property that knows how to build trees */
parserMembers() ::= <<
protected TreeAdaptor adaptor = new CommonTreeAdaptor();<\n>
public void setTreeAdaptor(TreeAdaptor adaptor) {
 this.adaptor = adaptor;
 <grammar.directDelegates:{g|<g.delegateName()>.setTreeAdaptor(this.adaptor);}>
}
public TreeAdaptor getTreeAdaptor() {
 return adaptor;
}
>>

@returnScope.ruleReturnMembers() ::= <<
<ASTLabelType> tree;
public Object getTree() { return tree; }
>>

/** Add a variable to track rule's return AST */
ruleDeclarations() ::= <<
<super.ruleDeclarations()>
<ASTLabelType> root_0 = null;<\n>
>>

ruleLabelDefs() ::= <<
<super.ruleLabelDefs()>
<[ruleDescriptor.tokenLabels,ruleDescriptor.wildcardTreeLabels,
ruleDescriptor.wildcardTreeListLabels]:{<ASTLabelType> <it.label.text>_tree=null;}; separator="\n">
<ruleDescriptor.tokenListLabels:{<ASTLabelType> <it.label.text>_tree=null;}; separator="\n">
<ruleDescriptor.allTokenRefsInAltsWithRewrites
: {RewriteRule<rewriteElementType>Stream stream_<it>=new
RewriteRule<rewriteElementType>Stream(adaptor,"token <it>");}; separator="\n">
<ruleDescriptor.allRuleRefsInAltsWithRewrites
: {RewriteRuleSubtreeStream stream_<it>=new RewriteRuleSubtreeStream(adaptor,"rule <it>");};
separator="\n">
>>

/** When doing auto AST construction, we must define some variables;
* These should be turned off if doing rewrites. This must be a "mode"
* as a rule could have both rewrite and AST within the same alternative
* block.
*/

```

```

@alt.declarations() ::= <<
<if(autoAST)>
<if(outerAlt)>
<if(!rewriteMode)>
root_0 = (<ASTLabelType>)adaptor.nil();<\n>
<endif>
<endif>
<endif>
>>

// Tracking Rule Elements

/** ID and track it for use in a rewrite rule */
tokenRefTrack(token,label,elementIndex,hetero) ::= <<
<tokenRefBang(...)> <! Track implies no auto AST construction!>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) <endif>stream_<token>.add(<label>);<\n>
>>

/** ids+=ID and track it for use in a rewrite rule; adds to ids *and*
 * to the tracking list stream_ID for use in the rewrite.
 */
tokenRefTrackAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRefTrack(...)>
<listLabel(elem=label,...)>
>>

/** ^(ID ...) track for rewrite */
tokenRefRuleRootTrack(token,label,elementIndex,hetero) ::= <<
<tokenRefBang(...)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) <endif>stream_<token>.add(<label>);<\n>
>>

/** Match ^(label+=TOKEN ...) track for rewrite */
tokenRefRuleRootTrackAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRefRuleRootTrack(...)>
<listLabel(elem=label,...)>
>>

/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(...)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) <endif>stream_<rule.name>.add(<label>.getTree());
>>

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefTrack(...)>
<listLabel(elem=label+".getTree()",...)>

```

```

>>

/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) <endif>stream_<rule>.add(<label>.getTree());
>>

/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRootTrack(...)>
<listLabel(elem=label+".getTree()",...)>
>>

// R e w r i t e

rewriteCode(
alts, description,
referencedElementsDeep, // ALL referenced elements to right of ->
referencedTokenLabels,
referencedTokenListLabels,
referencedRuleLabels,
referencedRuleListLabels,
referencedWildcardLabels,
referencedWildcardListLabels,
rewriteBlockLevel, enclosingTreeLevel, treeLevel) ::=
<<

// AST REWRITE
// elements: <referencedElementsDeep; separator=", ">
// token labels: <referencedTokenLabels; separator=", ">
// rule labels: <referencedRuleLabels; separator=", ">
// token list labels: <referencedTokenListLabels; separator=", ">
// rule list labels: <referencedRuleListLabels; separator=", ">
// wildcard labels: <[referencedWildcardLabels,referencedWildcardListLabels]; separator=", ">
<if(backtracking)>
if (<actions.(actionScope).synpredgate>) {<\n>
<endif>
<prevRuleRootRef(>).tree = root_0;
<rewriteCodeLabels(>
root_0 = (<ASTLabelType>)adaptor.nil();
<alts:rewriteAlt(); separator="else ">
<! if tree parser and rewrite=true !>
<if(TREE_PARSER)>
<if(rewriteMode)>
<prevRuleRootRef(>).tree = (<ASTLabelType>)adaptor.rulePostProcessing(root_0);
input.replaceChildren(adaptor.getParent(retval.start),
adaptor.getChildIndex(retval.start),

```



```

 adaptor.getChildIndex(_last),
 retval.tree);
<endif>
<endif>
<! if parser or tree-parser && rewrite!=true, we need to set result !>
<if(!TREE_PARSER)>
<prevRuleRootRef(>.tree = root_0;
<else>
<if(!rewriteMode)>
<prevRuleRootRef(>.tree = root_0;
<endif>
<endif>
<if(backtracking)>
}
<endif>
>>

rewriteCodeLabels() ::= <<
<referencedTokenLabels
 :{RewriteRule<rewriteElementType>Stream stream_<it>=new
RewriteRule<rewriteElementType>Stream(adaptor,"token <it>",<it>)};
 separator="\n"
>
<referencedTokenListLabels
 :{RewriteRule<rewriteElementType>Stream stream_<it>=new
RewriteRule<rewriteElementType>Stream(adaptor,"token <it> ", list_<it>)};
 separator="\n"
>
<referencedWildcardLabels
 :{RewriteRuleSubtreeStream stream_<it>=new RewriteRuleSubtreeStream(adaptor,"wildcard <it>",<it>)};
 separator="\n"
>
<referencedWildcardListLabels
 :{RewriteRuleSubtreeStream stream_<it>=new RewriteRuleSubtreeStream(adaptor,"wildcard <it> ",list_<it>)};
 separator="\n"
>
<referencedRuleLabels
 :{RewriteRuleSubtreeStream stream_<it>=new RewriteRuleSubtreeStream(adaptor,"rule
<it>",<it>!=null?<it>.tree:null)};
 separator="\n"
>
<referencedRuleListLabels
 :{RewriteRuleSubtreeStream stream_<it>=new RewriteRuleSubtreeStream(adaptor,"token <it> ",list_<it>)};
 separator="\n"
>
>>

/** Generate code for an optional rewrite block; note it uses the deep ref'd element

```

```

* list rather shallow like other blocks.
*/
rewriteOptionalBlock(
 alt,rewriteBlockLevel,
 referencedElementsDeep, // all nested refs
 referencedElements, // elements in immediately block; no nested blocks
 description) ::=
<<
// <fileName>:<description>
if (<referencedElementsDeep:{el | stream_<el>.hasNext()}; separator="||">) {
 <alt>
}
<referencedElementsDeep:{el | stream_<el>.reset();<n>}>
>>

rewriteClosureBlock(
 alt,rewriteBlockLevel,
 referencedElementsDeep, // all nested refs
 referencedElements, // elements in immediately block; no nested blocks
 description) ::=
<<
// <fileName>:<description>
while (<referencedElements:{el | stream_<el>.hasNext()}; separator="||">) {
 <alt>
}
<referencedElements:{el | stream_<el>.reset();<n>}>
>>

rewritePositiveClosureBlock(
 alt,rewriteBlockLevel,
 referencedElementsDeep, // all nested refs
 referencedElements, // elements in immediately block; no nested blocks
 description) ::=
<<
if (!(<referencedElements:{el | stream_<el>.hasNext()}; separator="||">)) {
 throw new RewriteEarlyExitException();
}
while (<referencedElements:{el | stream_<el>.hasNext()}; separator="||">) {
 <alt>
}
<referencedElements:{el | stream_<el>.reset();<n>}>
>>

rewriteAlt(a) ::= <<
// <a.description>
<if(a.pred)>
if (<a.pred>) {
 <a.alt>

```

```

}<\n>
<else>
{
 <a.alt>
}<\n>
<endif>
>>

/** For empty rewrites: "r : ... -> ;" */
rewriteEmptyAlt() ::= "root_0 = null;"

rewriteTree(root,children,description,enclosingTreeLevel,treeLevel) ::= <<
// <fileName>:<description>
{
<ASTLabelType> root_<treeLevel> = (<ASTLabelType>)adaptor.nil();
<root:rewriteElement()>
<children:rewriteElement()>
adaptor.addChild(root_<enclosingTreeLevel>, root_<treeLevel>);
}<\n>
>>

rewriteElementList(elements) ::= "<elements:rewriteElement()>"

rewriteElement(e) ::= <<
<@pregen()>
<e.el>
>>

/** Gen ID or ID[args] */
rewriteTokenRef(token,elementIndex,hetero,args) ::= <<
adaptor.addChild(root_<treeLevel>, <createRewriteNodeFromElement(...)>);<\n>
>>

/** Gen $label ... where defined via label=ID */
rewriteTokenLabelRef(label,elementIndex) ::= <<
adaptor.addChild(root_<treeLevel>, stream_<label>.nextNode());<\n>
>>

/** Gen $label ... where defined via label+=ID */
rewriteTokenListLabelRef(label,elementIndex) ::= <<
adaptor.addChild(root_<treeLevel>, stream_<label>.nextNode());<\n>
>>

/** Gen ^($label ...) */
rewriteTokenLabelRefRoot(label,elementIndex) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.becomeRoot(stream_<label>.nextNode(), root_<treeLevel>);<\n>
>>

```

```

/** Gen ^($label ...) where label+=... */
rewriteTokenListLabelRefRoot ::= rewriteTokenLabelRefRoot

/** Gen ^(ID ...) or ^(ID[args] ...) */
rewriteTokenRefRoot(token,elementIndex,hetero,args) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.becomeRoot(<createRewriteNodeFromElement(...)>,
root_<treeLevel>);<\n>
>>

rewriteImaginaryTokenRef(args,token,hetero,elementIndex) ::= <<
adaptor.addChild(root_<treeLevel>, <createImaginaryNode(tokenType=token, ...)>);<\n>
>>

rewriteImaginaryTokenRefRoot(args,token,hetero,elementIndex) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.becomeRoot(<createImaginaryNode(tokenType=token, ...)>,
root_<treeLevel>);<\n>
>>

/** plain -> {foo} action */
rewriteAction(action) ::= <<
root_0 = <action>;<\n>
>>

/** What is the name of the previous value of this rule's root tree? This
* let's us refer to $rule to mean previous value. I am reusing the
* variable 'tree' sitting in retval struct to hold the value of root_0 right
* before I set it during rewrites. The assign will be to retval.tree.
*/
prevRuleRootRef() ::= "retval"

rewriteRuleRef(rule) ::= <<
adaptor.addChild(root_<treeLevel>, stream_<rule>.nextTree());<\n>
>>

rewriteRuleRefRoot(rule) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.becomeRoot(stream_<rule>.nextNode(), root_<treeLevel>);<\n>
>>

rewriteNodeAction(action) ::= <<
adaptor.addChild(root_<treeLevel>, <action>);<\n>
>>

rewriteNodeActionRoot(action) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.becomeRoot(<action>, root_<treeLevel>);<\n>
>>

/** Gen $ruleLabel ... where defined via ruleLabel=rule */
rewriteRuleLabelRef(label) ::= <<

```

```

adaptor.addChild(root_<treeLevel>, stream_<label>.nextTree());<\n>
>>

/** Gen $ruleLabel ... where defined via ruleLabel+=rule */
rewriteRuleListLabelRef(label) ::= <<
adaptor.addChild(root_<treeLevel>, stream_<label>.nextTree());<\n>
>>

/** Gen ^($ruleLabel ...) where ruleLabel=rule */
rewriteRuleLabelRefRoot(label) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.becomeRoot(stream_<label>.nextNode(), root_<treeLevel>);<\n>
>>

/** Gen ^($ruleLabel ...) where ruleLabel+=rule */
rewriteRuleListLabelRefRoot(label) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.becomeRoot(stream_<label>.nextNode(), root_<treeLevel>);<\n>
>>

rewriteWildcardLabelRef(label) ::= <<
adaptor.addChild(root_<treeLevel>, stream_<label>.nextTree());<\n>
>>

createImaginaryNode(tokenType,hetero,args) ::= <<
<if(hetero)>
<! new MethodNode(IDLabel, args) !>
new <hetero>(<tokenType><if(args)>, <args; separator=", "><endif>)
<else>
(<ASTLabelType>)adaptor.create(<tokenType>, <args; separator=", "><if(!args)>"<tokenType>"<endif>)
<endif>
>>

createRewriteNodeFromElement(token,hetero,args) ::= <<
<if(hetero)>
new <hetero>(stream_<token>.nextToken()<if(args)>, <args; separator=", "><endif>)
<else>
<if(args)> <! must create new node from old !>
adaptor.create(<token>, <args; separator=", ">)
<else>
stream_<token>.nextNode()
<endif>
<endif>
>>

Found in path(s):
* /opt/cola/permits/1204005060_1631853129.56/0/antlr-3-1-3-sources-4-
jar/org/antlr/codegen/templates/Java/AST.stg

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```
*/
```

```
/** Template overrides to add debugging to AST stuff. Dynamic inheritance
```

```
* hierarchy is set up as ASTDbg : AST : Dbg : C# by code generator.
```

```
*/
```

```
group ASTDbg;
```

```
parserMembers() ::= <<
```

```
protected DebugTreeAdaptor adaptor;
```

```
public ITreeAdaptor TreeAdaptor
```

```
{
```

```
get {
```

```
<if(grammar.grammarIsRoot)>
```

```
return this.adaptor;
```

```
<else>
```

```
this.adaptor = (DebugTreeAdaptor)adaptor; // delegator sends dbg adaptor
```

```
<endif><\n>
```

```
<grammar.directDelegates: {g|<g.delegateName()>.TreeAdaptor = this.adaptor;}>
```

```

 }
 set { this.adaptor = new DebugTreeAdaptor(dbg, value); }
 }<\n>
>>

parserCtorBody() ::= <<
<super.parserCtorBody()>
>>

createListenerAndHandshake() ::= <<
DebugEventSocketProxy proxy = new DebugEventSocketProxy(this, port, adaptor);
DebugListener = proxy;
<!
Original line follows, replaced by the next two ifs:
set<inputStreamType>(new Debug<inputStreamType>(input,proxy));
!>
<if(PARSER)>
TokenStream = new DebugTokenStream(input,proxy);<\n>
<endif>
<if(TREE_PARSER)>
TokenStream = new DebugTreeNodeStream(input,proxy);<\n>
<endif>
try {
 proxy.Handshake();
} catch (IOException ioe) {
 ReportError(ioe);
}
>>

@ctorForRootGrammar.finally() ::= <<
ITreeAdaptor adap = new CommonTreeAdaptor();
TreeAdaptor = adap;
proxy.TreeAdaptor = adap;
>>

@ctorForProfilingRootGrammar.finally() ::= <<
ITreeAdaptor adap = new CommonTreeAdaptor();
TreeAdaptor = adap;
proxy.TreeAdaptor = adap;
>>

@ctorForPredefinedListener.superClassRef() ::= "base(input, dbg)"

@ctorForPredefinedListener.finally() ::= <<
<if(grammar.grammarIsRoot)> <! don't create new adaptor for delegates !>
ITreeAdaptor adap = new CommonTreeAdaptor();
TreeAdaptor = adap;<\n>
<endif>

```

>>

```
@rewriteElement.pregen() ::= "dbg.Location(<e.line>,<e.pos>);"
```

Found in path(s):

```
* /opt/cola/permits/1204005060_1631853129.56/0/antlr-3-1-3-sources-4-
jar/org/antlr/codegen/templates/CSharp/ASTDbg.stg
```

# 1.100 phantomjsdriver 1.3.0

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```
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```

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```
*/
```

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```
* /opt/cola/permits/1685982415_1684869182.9480639/0/phantomjsdriver-1-3-0-sources-
jar/org/openqa/selenium/phantomjs/MultiSessionCommandExecutor.java
* /opt/cola/permits/1685982415_1684869182.9480639/0/phantomjsdriver-1-3-0-sources-
jar/org/openqa/selenium/phantomjs/PhantomJSDriver.java
* /opt/cola/permits/1685982415_1684869182.9480639/0/phantomjsdriver-1-3-0-sources-
jar/org/openqa/selenium/phantomjs/PhantomJSCCommandExecutor.java
```



\* /opt/cola/permits/1685982415\_1684869182.9480639/0/phantomjsdriver-1-3-0-sources-jar/org/openqa/selenium/phantomjs/PhantomJSDataService.java

# 1.101 apache-commons-i-o 2.6

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\* /opt/cola/permits/1685982458\_1684951065.219022/0/shapeless-2-11-2-1-0-sources-jar/shapeless/sybcass.scala  
\* /opt/cola/permits/1685982458\_1684951065.219022/0/shapeless-2-11-2-1-0-sources-jar/shapeless/examples/staging.scala  
\* /opt/cola/permits/1685982458\_1684951065.219022/0/shapeless-2-11-2-1-0-sources-jar/shapeless/fntopproduct.scala  
\* /opt/cola/permits/1685982458\_1684951065.219022/0/shapeless-2-11-2-1-0-sources-jar/shapeless/hmapbuilder.scala  
\* /opt/cola/permits/1685982458\_1684951065.219022/0/shapeless-2-11-2-1-0-sources-jar/shapeless/polytraits.scala  
\* /opt/cola/permits/1685982458\_1684951065.219022/0/shapeless-2-11-2-1-0-sources-jar/shapeless/ops/hlists.scala  
\* /opt/cola/permits/1685982458\_1684951065.219022/0/shapeless-2-11-2-1-0-sources-jar/shapeless/tupler.scala  
\* /opt/cola/permits/1685982458\_1684951065.219022/0/shapeless-2-11-2-1-0-sources-jar/shapeless/polyapply.scala  
\* /opt/cola/permits/1685982458\_1684951065.219022/0/shapeless-2-11-2-1-0-sources-jar/shapeless/records.scala  
\* /opt/cola/permits/1685982458\_1684951065.219022/0/shapeless-2-11-2-1-0-sources-jar/shapeless/unpack.scala  
\* /opt/cola/permits/1685982458\_1684951065.219022/0/shapeless-2-11-2-1-0-sources-jar/shapeless/cases.scala  
\* /opt/cola/permits/1685982458\_1684951065.219022/0/shapeless-2-11-2-1-0-sources-

jar/shapeless/syntax/hlists.scala  
\* /opt/cola/permits/1685982458\_1684951065.219022/0/shapeless-2-11-2-1-0-sources-  
jar/shapeless/typeoperators.scala  
\* /opt/cola/permits/1685982458\_1684951065.219022/0/shapeless-2-11-2-1-0-sources-jar/shapeless/ops/fin.scala  
\* /opt/cola/permits/1685982458\_1684951065.219022/0/shapeless-2-11-2-1-0-sources-jar/shapeless/typeable.scala  
\* /opt/cola/permits/1685982458\_1684951065.219022/0/shapeless-2-11-2-1-0-sources-  
jar/shapeless/examples/fizzbuzz.scala  
\* /opt/cola/permits/1685982458\_1684951065.219022/0/shapeless-2-11-2-1-0-sources-  
jar/shapeless/tupletypeables.scala  
\* /opt/cola/permits/1685982458\_1684951065.219022/0/shapeless-2-11-2-1-0-sources-  
jar/shapeless/sizedbuilder.scala  
\* /opt/cola/permits/1685982458\_1684951065.219022/0/shapeless-2-11-2-1-0-sources-  
jar/shapeless/ops/records.scala  
\* /opt/cola/permits/1685982458\_1684951065.219022/0/shapeless-2-11-2-1-0-sources-jar/shapeless/caseinst.scala  
\* /opt/cola/permits/1685982458\_1684951065.219022/0/shapeless-2-11-2-1-0-sources-jar/shapeless/nat.scala  
\* /opt/cola/permits/1685982458\_1684951065.219022/0/shapeless-2-11-2-1-0-sources-jar/shapeless/nats.scala  
\* /opt/cola/permits/1685982458\_1684951065.219022/0/shapeless-2-11-2-1-0-sources-jar/shapeless/fin.scala  
\* /opt/cola/permits/1685982458\_1684951065.219022/0/shapeless-2-11-2-1-0-sources-  
jar/shapeless/fnfromproduct.scala  
\* /opt/cola/permits/1685982458\_1684951065.219022/0/shapeless-2-11-2-1-0-sources-jar/shapeless/polyinst.scala  
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\* /opt/cola/permits/1685982458\_1684951065.219022/0/shapeless-2-11-2-1-0-sources-jar/shapeless/examples/kindpoly.scala

\* /opt/cola/permits/1685982458\_1684951065.219022/0/shapeless-2-11-2-1-0-sources-jar/shapeless/examples/uniqueness.scala

\* /opt/cola/permits/1685982458\_1684951065.219022/0/shapeless-2-11-2-1-0-sources-jar/shapeless/examples/deepsearch.scala

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* /opt/cola/permits/1685982458_1684951065.219022/0/shapeless-2-11-2-1-0-sources-jar/shapeless/ops/unions.scala
* /opt/cola/permits/1685982458_1684951065.219022/0/shapeless-2-11-2-1-0-sources-
jar/shapeless/examples/labelledgeneric.scala
* /opt/cola/permits/1685982458_1684951065.219022/0/shapeless-2-11-2-1-0-sources-
jar/shapeless/examples/scalding.scala
* /opt/cola/permits/1685982458_1684951065.219022/0/shapeless-2-11-2-1-0-sources-
jar/shapeless/test/package.scala
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* /opt/cola/permits/1685982458_1684951065.219022/0/shapeless-2-11-2-1-0-sources-jar/shapeless/package.scala
* /opt/cola/permits/1685982458_1684951065.219022/0/shapeless-2-11-2-1-0-sources-
```

jar/shapeless/test/typechecking.scala  
\* /opt/cola/permits/1685982458\_1684951065.219022/0/shapeless-2-11-2-1-0-sources-  
jar/shapeless/syntax/coproduct.scala  
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## 1.103 commons-chain 1.1

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jar/org/apache/commons/chain/Command.java  
\* /opt/cola/permits/1137272565\_1614043347.88/0/commons-chain-1-1-sources-2-  
jar/org/apache/commons/chain/Chain.java  
\* /opt/cola/permits/1137272565\_1614043347.88/0/commons-chain-1-1-sources-2-  
jar/org/apache/commons/chain/Filter.java  
\* /opt/cola/permits/1137272565\_1614043347.88/0/commons-chain-1-1-sources-2-  
jar/org/apache/commons/chain/web/ChainServlet.java  
\* /opt/cola/permits/1137272565\_1614043347.88/0/commons-chain-1-1-sources-2-  
jar/org/apache/commons/chain/Context.java  
\* /opt/cola/permits/1137272565\_1614043347.88/0/commons-chain-1-1-sources-2-  
jar/org/apache/commons/chain/Catalog.java

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jar/org/apache/commons/chain/web/portlet/PortletApplicationScopeMap.java  
\* /opt/cola/permits/1137272565\_1614043347.88/0/commons-chain-1-1-sources-2-  
jar/org/apache/commons/chain/web/faces/FacesGetLocaleCommand.java  
\* /opt/cola/permits/1137272565\_1614043347.88/0/commons-chain-1-1-sources-2-  
jar/org/apache/commons/chain/web/portlet/PortletSetLocaleCommand.java  
\* /opt/cola/permits/1137272565\_1614043347.88/0/commons-chain-1-1-sources-2-  
jar/org/apache/commons/chain/config/ConfigDefineRule.java  
\* /opt/cola/permits/1137272565\_1614043347.88/0/commons-chain-1-1-sources-2-  
jar/org/apache/commons/chain/web/servlet/ServletApplicationScopeMap.java  
\* /opt/cola/permits/1137272565\_1614043347.88/0/commons-chain-1-1-sources-2-  
jar/org/apache/commons/chain/generic/RemoveCommand.java  
\* /opt/cola/permits/1137272565\_1614043347.88/0/commons-chain-1-1-sources-2-  
jar/org/apache/commons/chain/generic/LookupCommand.java  
\* /opt/cola/permits/1137272565\_1614043347.88/0/commons-chain-1-1-sources-2-  
jar/org/apache/commons/chain/web/MapEntry.java  
\* /opt/cola/permits/1137272565\_1614043347.88/0/commons-chain-1-1-sources-2-  
jar/org/apache/commons/chain/web/portlet/PortletSessionScopeMap.java

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\* /opt/cola/permits/1137272565\_1614043347.88/0/commons-chain-1-1-sources-2-jar/org/apache/commons/chain/web/servlet/ServletHeaderMap.java  
\* /opt/cola/permits/1137272565\_1614043347.88/0/commons-chain-1-1-sources-2-jar/org/apache/commons/chain/config/ConfigRuleSet.java  
\* /opt/cola/permits/1137272565\_1614043347.88/0/commons-chain-1-1-sources-2-jar/org/apache/commons/chain/web/AbstractSetLocaleCommand.java  
\* /opt/cola/permits/1137272565\_1614043347.88/0/commons-chain-1-1-sources-2-jar/org/apache/commons/chain/web/servlet/PathInfoMapper.java  
\* /opt/cola/permits/1137272565\_1614043347.88/0/commons-chain-1-1-sources-2-jar/org/apache/commons/chain/web/portlet/PortletGetLocaleCommand.java  
\* /opt/cola/permits/1137272565\_1614043347.88/0/commons-chain-1-1-sources-2-jar/org/apache/commons/chain/generic/CopyCommand.java  
\* /opt/cola/permits/1137272565\_1614043347.88/0/commons-chain-1-1-sources-2-jar/org/apache/commons/chain/config/ConfigParser.java  
\* /opt/cola/permits/1137272565\_1614043347.88/0/commons-chain-1-1-sources-2-jar/org/apache/commons/chain/web/servlet/ServletGetLocaleCommand.java  
\* /opt/cola/permits/1137272565\_1614043347.88/0/commons-chain-1-1-sources-2-jar/org/apache/commons/chain/web/servlet/ServletPathMapper.java  
\* /opt/cola/permits/1137272565\_1614043347.88/0/commons-chain-1-1-sources-2-jar/org/apache/commons/chain/web/faces/FacesWebContext.java  
\* /opt/cola/permits/1137272565\_1614043347.88/0/commons-chain-1-1-sources-2-jar/org/apache/commons/chain/web/ChainResources.java  
\* /opt/cola/permits/1137272565\_1614043347.88/0/commons-chain-1-1-sources-2-jar/org/apache/commons/chain/impl/ContextBase.java  
\* /opt/cola/permits/1137272565\_1614043347.88/0/commons-chain-1-1-sources-2-jar/org/apache/commons/chain/web/AbstractGetLocaleCommand.java  
\* /opt/cola/permits/1137272565\_1614043347.88/0/commons-chain-1-1-sources-2-jar/org/apache/commons/chain/impl/CatalogFactoryBase.java  
\* /opt/cola/permits/1137272565\_1614043347.88/0/commons-chain-1-1-sources-2-jar/org/apache/commons/chain/web/servlet/ServletHeaderValuesMap.java  
\* /opt/cola/permits/1137272565\_1614043347.88/0/commons-chain-1-1-sources-2-jar/org/apache/commons/chain/config/ConfigCatalogRule.java  
\* /opt/cola/permits/1137272565\_1614043347.88/0/commons-chain-1-1-sources-2-jar/org/apache/commons/chain/CatalogFactory.java  
\* /opt/cola/permits/1137272565\_1614043347.88/0/commons-chain-1-1-sources-2-jar/org/apache/commons/chain/web/servlet/ServletParamMap.java  
\* /opt/cola/permits/1137272565\_1614043347.88/0/commons-chain-1-1-sources-2-jar/org/apache/commons/chain/web/servlet/ServletRequestScopeMap.java  
\* /opt/cola/permits/1137272565\_1614043347.88/0/commons-chain-1-1-sources-2-jar/org/apache/commons/chain/web/ChainListener.java  
\* /opt/cola/permits/1137272565\_1614043347.88/0/commons-chain-1-1-sources-2-jar/org/apache/commons/chain/web/servlet/RequestParameterMapper.java  
\* /opt/cola/permits/1137272565\_1614043347.88/0/commons-chain-1-1-sources-2-jar/org/apache/commons/chain/web/servlet/ChainProcessor.java

\* /opt/cola/permits/1137272565\_1614043347.88/0/commons-chain-1-1-sources-2-jar/org/apache/commons/chain/web/WebContext.java  
\* /opt/cola/permits/1137272565\_1614043347.88/0/commons-chain-1-1-sources-2-jar/org/apache/commons/chain/impl/ChainBase.java  
\* /opt/cola/permits/1137272565\_1614043347.88/0/commons-chain-1-1-sources-2-jar/org/apache/commons/chain/impl/CatalogBase.java  
\* /opt/cola/permits/1137272565\_1614043347.88/0/commons-chain-1-1-sources-2-jar/org/apache/commons/chain/web/portlet/PortletRequestScopeMap.java  
\* /opt/cola/permits/1137272565\_1614043347.88/0/commons-chain-1-1-sources-2-jar/org/apache/commons/chain/web/servlet/ServletParamValuesMap.java  
\* /opt/cola/permits/1137272565\_1614043347.88/0/commons-chain-1-1-sources-2-jar/org/apache/commons/chain/web/servlet/ServletSetLocaleCommand.java  
\* /opt/cola/permits/1137272565\_1614043347.88/0/commons-chain-1-1-sources-2-jar/org/apache/commons/chain/web/servlet/ServletWebContext.java  
\* /opt/cola/permits/1137272565\_1614043347.88/0/commons-chain-1-1-sources-2-jar/org/apache/commons/chain/web/portlet/PortletInitParamMap.java  
\* /opt/cola/permits/1137272565\_1614043347.88/0/commons-chain-1-1-sources-2-jar/org/apache/commons/chain/web/servlet/ServletSessionScopeMap.java  
\* /opt/cola/permits/1137272565\_1614043347.88/0/commons-chain-1-1-sources-2-jar/org/apache/commons/chain/web/servlet/ServletInitParamMap.java  
\* /opt/cola/permits/1137272565\_1614043347.88/0/commons-chain-1-1-sources-2-jar/org/apache/commons/chain/web/portlet/PortletParamValuesMap.java  
\* /opt/cola/permits/1137272565\_1614043347.88/0/commons-chain-1-1-sources-2-jar/org/apache/commons/chain/generic/DispatchLookupCommand.java  
\* /opt/cola/permits/1137272565\_1614043347.88/0/commons-chain-1-1-sources-2-jar/org/apache/commons/chain/config/ConfigRegisterRule.java  
\* /opt/cola/permits/1137272565\_1614043347.88/0/commons-chain-1-1-sources-2-jar/org/apache/commons/chain/web/faces/FacesSetLocaleCommand.java  
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\* /opt/cola/permits/1137272565\_1614043347.88/0/commons-chain-1-1-sources-2-

jar/org/apache/commons/chain/generic/DispatchCommand.java  
\* /opt/cola/permits/1137272565\_1614043347.88/0/commons-chain-1-1-sources-2-  
jar/org/apache/commons/chain/web/servlet/ServletCookieMap.java

## 1.104 checker-qual 2.0.0

## 1.105 commons-logging 1.1

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\* /opt/cola/permits/1685982229\_1684869244.4580529/0/auto-service-1-0-rc6-sources-2-  
jar/com/google/auto/service/processor/package-info.java

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\* /opt/cola/permits/1685982229\_1684869244.4580529/0/auto-service-1-0-rc6-sources-2-  
jar/com/google/auto/service/processor/ServicesFiles.java

\* /opt/cola/permits/1685982229\_1684869244.4580529/0/auto-service-1-0-rc6-sources-2-  
jar/com/google/auto/service/processor/AutoServiceProcessor.java

# 1.107 paranamer-core 2.8

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\* /opt/cola/permits/1130987386\_1612872111.26/0/failureaccess-1-0-1-sources-  
jar/com/google/common/util/concurrent/internal/InternalFutureFailureAccess.java

\* /opt/cola/permits/1130987386\_1612872111.26/0/failureaccess-1-0-1-sources-  
jar/com/google/common/util/concurrent/internal/InternalFutures.java

# 1.109 jackson-databind 2.9.5

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# 1.110 scala-parser-combinators 1.0.4

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# 1.111 @standuply/ng2-emoji 9.0.0-1

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## 6.0

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## 1.113 react-devtools-extension 16.2.0

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## 1.114 apache-httpmime 4.5.2

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## 1.115 jcommander-library 1.27

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Manifest-Version: 1.0

Archiver-Version: Plexus Archiver

Created-By: 1.6.0\_22 (Apple Inc.)

Built-By: cbeust  
Build-Jdk: 1.6.0\_22  
Export-Package: com.beust.jcommander;uses:="com.beust.jcommander.converters,com.beust.jcommander.internal,com.beust.jcommander.validators";version="1.27.0",com.beust.jcommander.converters;uses:="com.beust.jcommander";version="1.27.0",com.beust.jcommander.defaultprovider;uses:="com.beust.jcommander";version="1.27.0",com.beust.jcommander.internal;uses:="com.beust.jcommander,com.beust.jcommander.converters";version="1.27.0",com.beust.jcommander.validators;uses:="com.beust.jcommander";version="1.27.0"  
Bundle-Version: 1.27.0  
Tool: Bnd-0.0.357  
Bundle-Name: JCommander  
Bnd-LastModified: 1341511572089  
Bundle-ManifestVersion: 2  
Bundle-Description: A Java framework to parse command line options with annotations.  
Bundle-License: <http://www.apache.org/licenses/LICENSE-2.0.txt>  
Bundle-SymbolicName: com.beust.jcommander  
Import-Package: com.beust.jcommander;version="1.27.0",com.beust.jcommander.converters;version="1.27.0",com.beust.jcommander.defaultprovider;version="1.27.0",com.beust.jcommander.internal;version="1.27.0",com.beust.jcommander.validators;version="1.27.0"

Found in path(s):

\* /opt/cola/permits/1023260945\_1648835943.22/0/jcommander-1-27-jar/META-INF/MANIFEST.MF

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\* /opt/cola/permits/1023260945\_1648835943.22/0/jcommander-1-27-jar/META-

INF/maven/com.beust/jcommander/pom.xml

# 1.116 ngx-contextmenu 4.1.0

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# 1.117 scala 2.11.8

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not-a-legal-formal-parameter-tuple.scala:2: error: not a legal formal parameter.

Note: Tuples cannot be directly destructured in method or function parameters.

```
 Either create a single parameter accepting the Tuple2,
 or consider a pattern matching anonymous function: ` { case (a, b) => ... }
val x: ((Int, Int) => Int) = (((a, b)) => a)
 ^
```

not-a-legal-formal-parameter-tuple.scala:3: error: not a legal formal parameter.

Note: Tuples cannot be directly destructured in method or function parameters.

```
 Either create a single parameter accepting the Tuple2,
 or consider a pattern matching anonymous function: ` { case (param1, param2) => ... }
val y: ((Int, Int, Int) => Int) = (((a, !)) => a)
 ^
```

not-a-legal-formal-parameter-tuple.scala:4: error: not a legal formal parameter.

Note: Tuples cannot be directly destructured in method or function parameters.

```
 Either create a single parameter accepting the Tuple3,
 or consider a pattern matching anonymous function: ` { case (param1, ..., param3) => ... }
val z: ((Int, Int, Int) => Int) = (((a, NotAPatternVariableName, c)) => a)
 ^
```

three errors found

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## 1.118 angular 1.2.28

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# packaged angular

This repo is for distribution on `npm` and `bower`. The source for this module is in the [main AngularJS repo](https://github.com/angular/angular.js).

Please file issues and pull requests against that repo.

## Install

You can install this package either with `npm` or with `bower`.

### npm

```
```shell
npm install angular
```
```

Then add a `

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\* @ngdoc service

\* @name \$sce

\* @kind function

\*

\* @description

\*  
 \* `\$\$sce` is a service that provides Strict Contextual Escaping services to AngularJS.  
 \*  
 \* # Strict Contextual Escaping  
 \*  
 \* Strict Contextual Escaping (SCE) is a mode in which AngularJS requires bindings in certain  
 \* contexts to result in a value that is marked as safe to use for that context. One example of  
 \* such a context is binding arbitrary html controlled by the user via `ng-bind-html`. We refer  
 \* to these contexts as privileged or SCE contexts.  
 \*  
 \* As of version 1.2, Angular ships with SCE enabled by default.  
 \*  
 \* Note: When enabled (the default), IE8 in quirks mode is not supported. In this mode, IE8 allows  
 \* one to execute arbitrary javascript by the use of the expression() syntax. Refer  
 \* <<http://blogs.msdn.com/b/ie/archive/2008/10/16/ending-expressions.aspx>> to learn more about them.  
 \* You can ensure your document is in standards mode and not quirks mode by adding `<!doctype html>`  
 \* to the top of your HTML document.  
 \*  
 \* SCE assists in writing code in way that (a) is secure by default and (b) makes auditing for  
 \* security vulnerabilities such as XSS, clickjacking, etc. a lot easier.  
 \*  
 \* Here's an example of a binding in a privileged context:  
 \*  
 \* ```  
 \* <input ng-model="userHtml">  
 \* <div ng-bind-html="userHtml"></div>  
 \* ```  
 \*  
 \* Notice that `ng-bind-html` is bound to `userHtml` controlled by the user. With SCE  
 \* disabled, this application allows the user to render arbitrary HTML into the DIV.  
 \* In a more realistic example, one may be rendering user comments, blog articles, etc. via  
 \* bindings. (HTML is just one example of a context where rendering user controlled input creates  
 \* security vulnerabilities.)  
 \*  
 \* For the case of HTML, you might use a library, either on the client side, or on the server side,  
 \* to sanitize unsafe HTML before binding to the value and rendering it in the document.  
 \*  
 \* How would you ensure that every place that used these types of bindings was bound to a value that  
 \* was sanitized by your library (or returned as safe for rendering by your server?) How can you  
 \* ensure that you didn't accidentally delete the line that sanitized the value, or renamed some  
 \* properties/fields and forgot to update the binding to the sanitized value?  
 \*  
 \* To be secure by default, you want to ensure that any such bindings are disallowed unless you can  
 \* determine that something explicitly says it's safe to use a value for binding in that  
 \* context. You can then audit your code (a simple grep would do) to ensure that this is only done  
 \* for those values that you can easily tell are safe - because they were received from your server,  
 \* sanitized by your library, etc. You can organize your codebase to help with this - perhaps  
 \* allowing only the files in a specific directory to do this. Ensuring that the internal API



\* exposed by that code doesn't markup arbitrary values as safe then becomes a more manageable task.

\*

\* In the case of AngularJS' SCE service, one uses { @link ng.\$sce#trustAs \$sce.trustAs }

\* (and shorthand methods such as { @link ng.\$sce#trustAsHtml \$sce.trustAsHtml }, etc.) to

\* obtain values that will be accepted by SCE / privileged contexts.

\*

\*

\* ## How does it work?

\*

\* In privileged contexts, directives and code will bind to the result of { @link ng.\$sce#getTrusted

\* \$sce.getTrusted(context, value)} rather than to the value directly. Directives use { @link

\* ng.\$sce#parse \$sce.parseAs } rather than `parse` to watch attribute bindings, which performs the

\* { @link ng.\$sce#getTrusted \$sce.getTrusted } behind the scenes on non-constant literals.

\*

\* As an example, { @link ng.directive:ngBindHtml ngBindHtml } uses { @link

\* ng.\$sce#parseAsHtml \$sce.parseAsHtml(binding expression)}. Here's the actual code (slightly

\* simplified):

\*

\* ```

```
* var ngBindHtmlDirective = ['$sce', function($sce) {
```

```
* return function(scope, element, attr) {
```

```
* scope.$watch($sce.parseAsHtml(attr.ngBindHtml), function(value) {
```

```
* element.html(value || "");
```

```
* });
```

```
* };
```

```
* }];
```

\* ```

\*

\* ## Impact on loading templates

\*

\* This applies both to the { @link ng.directive:ngInclude `ng-include` } directive as well as

\* `templateUrl`'s specified by { @link guide/directive directives }.

\*

\* By default, Angular only loads templates from the same domain and protocol as the application

\* document. This is done by calling { @link ng.\$sce#getTrustedResourceUrl

\* \$sce.getTrustedResourceUrl } on the template URL. To load templates from other domains and/or

\* protocols, you may either either { @link ng.\$sceDelegateProvider#resourceUrlWhitelist whitelist

\* them } or { @link ng.\$sce#trustAsResourceUrl wrap it } into a trusted value.

\*

\* \*Please note\*:

\* The browser's

\* [Same Origin Policy]([https://code.google.com/p/browsersec/wiki/Part2#Same-origin\\_policy\\_for\\_XMLHttpRequest](https://code.google.com/p/browsersec/wiki/Part2#Same-origin_policy_for_XMLHttpRequest))

\* and [Cross-Origin Resource Sharing (CORS)](<http://www.w3.org/TR/cors/>)

\* policy apply in addition to this and may further restrict whether the template is successfully

\* loaded. This means that without the right CORS policy, loading templates from a different domain

\* won't work on all browsers. Also, loading templates from `file://` URL does not work on some

\* browsers.

\*  
 \* ## This feels like too much overhead for the developer?  
 \*  
 \* It's important to remember that SCE only applies to interpolation expressions.  
 \*  
 \* If your expressions are constant literals, they're automatically trusted and you don't need to  
 \* call `\$.trustAs` on them (remember to include the `ngSanitize` module) (e.g.  
 \* `
 \*  
 \* Additionally, `a[href]` and `img[src]` automatically sanitize their URLs and do not pass them  
 \* through `{@link ng.\$sce#getTrusted \$sce.getTrusted}`. SCE doesn't play a role here.  
 \*  
 \* The included `{@link ng.\$sceDelegate \$sceDelegate}` comes with sane defaults to allow you to load  
 \* templates in `ng-include` from your application's domain without having to even know about SCE.  
 \* It blocks loading templates from other domains or loading templates over http from an https  
 \* served document. You can change these by setting your own custom `{@link  
 \* ng.\$sceDelegateProvider#resourceUrlWhitelist whitelists}` and `{@link  
 \* ng.\$sceDelegateProvider#resourceUrlBlacklist blacklists}` for matching such URLs.  
 \*  
 \* This significantly reduces the overhead. It is far easier to pay the small overhead and have an  
 \* application that's secure and can be audited to verify that with much more ease than bolting  
 \* security onto an application later.  
 \*  
 \* <a name="contexts"></a>  
 \* ## What trusted context types are supported?  
 \*  
 \* | Context | Notes |  
 \* |-----|-----|  
 \* | `\$.HTML` | For HTML that's safe to source into the application. The {@link ng.directive:ngBindHtml  
 \* ngBindHtml} directive uses this context for bindings. If an unsafe value is encountered and the {@link ngSanitize  
 \* \$sanitize} module is present this will sanitize the value instead of throwing an error. |  
 \* | `\$.CSS` | For CSS that's safe to source into the application. Currently unused. Feel free to use it in your  
 \* own directives. |  
 \* | `\$.URL` | For URLs that are safe to follow as links. Currently unused (`<a href=` and `<img src=`  
 \* sanitize their urls and don't constitute an SCE context. |  
 \* | `\$.RESOURCE\_URL` | For URLs that are not only safe to follow as links, but whose contents are also safe to  
 \* include in your application. Examples include `ng-include`, `src` / `ngSrc` bindings for tags other than `IMG` (e.g.  
 \* `IFRAME`, `OBJECT`, etc.) <br><br>Note that `\$.RESOURCE\_URL` makes a stronger statement about the  
 \* URL than `\$.URL` does and therefore contexts requiring values trusted for `\$.RESOURCE\_URL` can be  
 \* used anywhere that values trusted for `\$.URL` are required. |  
 \* | `\$.JS` | For JavaScript that is safe to execute in your application's context. Currently unused. Feel free  
 \* to use it in your own directives. |  
 \*  
 \* ## Format of items in {@link ng.\$sceDelegateProvider#resourceUrlWhitelist resourceUrlWhitelist}/{@link  
 \* ng.\$sceDelegateProvider#resourceUrlBlacklist Blacklist} <a name="resourceUrlPatternItem"></a>  
 \*  
 \* Each element in these arrays must be one of the following:  
 \*

```

* - **self**
* - The special **string**, `self`, can be used to match against all URLs of the **same domain** as the application document using the **same protocol**.
* - **String** (except the special value `self`)
* - The string is matched against the full *normalized / absolute URL* of the resource being tested (substring matches are not good enough.)
* - There are exactly **two wildcard sequences** - `*` and `**`. All other characters match themselves.
* - `*`: matches zero or more occurrences of any character other than one of the following 6 characters: `:`, `/`, `.`, `?`, `&` and `!`. It's a useful wildcard for use in a whitelist.
* - `**`: matches zero or more occurrences of *any* character. As such, it's not not appropriate to use in for a scheme, domain, etc. as it would match too much. (e.g. http://*.example.com/ would match http://evil.com/?ignore=.example.com/ and that might not have been the intention.) Its usage at the very end of the path is ok. (e.g. http://foo.example.com/templates/**).**RegExp** (*see caveat below*)
* - *Caveat*: While regular expressions are powerful and offer great flexibility, their syntax (and all the inevitable escaping) makes them *harder to maintain*. It's easy to accidentally introduce a bug when one updates a complex expression (imho, all regexes should have good test coverage.). For instance, the use of `.` in the regex is correct only in a small number of cases. A `.` character in the regex used when matching the scheme or a subdomain could be matched against a `:` or literal `.` that was likely not intended. It is highly recommended to use the string patterns and only fall back to regular expressions if they as a last resort.
* - The regular expression must be an instance of RegExp (i.e. not a string.) It is matched against the **entire** *normalized / absolute URL* of the resource being tested (even when the RegExp did not have the `^` and `$` codes.) In addition, any flags present on the RegExp (such as multiline, global, ignoreCase) are ignored.
* - If you are generating your JavaScript from some other templating engine (not recommended, e.g. in issue [#4006](https://github.com/angular/angular.js/issues/4006)), remember to escape your regular expression (and be aware that you might need more than one level of escaping depending on your templating engine and the way you interpolated the value.) Do make use of your platform's escaping mechanism as it might be good enough before coding your own. e.g. Ruby has [Regexp.escape(str)](http://www.ruby-doc.org/core-2.0.0/Regexp.html#method-c-escape) and Python has [re.escape](http://docs.python.org/library/re.html#re.escape). Javascript lacks a similar built in function for escaping. Take a look at Google Closure library's [goog.string.regExpEscape(s)](http://docs.closure-library.googlecode.com/git/closure_goog_string_string.js.source.html#line962).
*
* Refer { @link ng.$sceDelegateProvider $sceDelegateProvider } for an example.
*
* ## Show me an example using SCE.
*
* <example module="mySceApp" deps="angular-sanitize.js">
* <file name="index.html">
* <div ng-controller="myAppController as myCtrl">

```

```

* <i ng-bind-html="myCtrl.explicitlyTrustedHtml" id="explicitlyTrustedHtml"></i>

* User comments

* By default, HTML that isn't explicitly trusted (e.g. Alice's comment) is sanitized when
* $sanitize is available. If $sanitize isn't available, this results in an error instead of an
* exploit.
* <div class="well">
* <div ng-repeat="userComment in myCtrl.userComments">
* {{ userComment.name }}:
*
*

* </div>
* </div>
* </div>
* </file>
*
* <file name="script.js">
* var mySceApp = angular.module('mySceApp', ['ngSanitize']);
*
* mySceApp.controller("myAppController", function myAppController($http, $templateCache, $sce) {
* var self = this;
* $http.get("test_data.json", {cache: $templateCache}).success(function(userComments) {
* self.userComments = userComments;
* });
* self.explicitlyTrustedHtml = $sce.trustAsHtml(
* '<span onmouseover="this.textContent="Explicitly trusted HTML bypasses ' +
* 'sanitization."">Hover over this text.');
* });
* </file>
*
* <file name="test_data.json">
* [
* { "name": "Alice",
* "htmlComment":
* "Is <i>anyone</i> reading this?"
* },
* { "name": "Bob",
* "htmlComment": "<i>Yes!</i> Am I the only other one?"
* }
*]
* </file>
*
* <file name="protractor.js" type="protractor">
* describe('SCE doc demo', function() {
* it('should sanitize untrusted values', function() {
* expect(element.all(by.css('.htmlComment')).first().getInnerHtml())
* .toBe('Is <i>anyone</i> reading this?');
* });
* });

```

```

* it('should NOT sanitize explicitly trusted values', function() {
* expect(element(by.id('explicitlyTrustedHtml')).getInnerHtml()).toBe(
* '<span onmouseover="this.textContent="Explicitly trusted HTML bypasses ' +
* 'sanitization."">Hover over this text.');
* });
* });
* </file>
* </example>
*
*
*
* ## Can I disable SCE completely?
*
* Yes, you can. However, this is strongly discouraged. SCE gives you a lot of security benefits
* for little coding overhead. It will be much harder to take an SCE disabled application and
* either secure it on your own or enable SCE at a later stage. It might make sense to disable SCE
* for cases where you have a lot of existing code that was written before SCE was introduced and
* you're migrating them a module at a time.
*
* That said, here's how you can completely disable SCE:
*
* ```
* angular.module('myAppWithSceDisabledmyApp', []).config(function($sceProvider) {
* // Completely disable SCE. For demonstration purposes only!
* // Do not use in new projects.
* $sceProvider.enabled(false);
* });
* ```
*
*
*/

```

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```

* /opt/cola/permits/1685982475_1684868876.2755835/0/angular-1-2-28-tgz/package/angular.js

```

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\*  
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jar/com/google/common/collect/Sets.java

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jar/com/google/common/collect/Serialization.java

\* /opt/ws\_local/PERMITS\_SQL/1019256044\_1594204904.74/0/google-collections-1-0-sources-  
jar/com/google/common/collect/ImmutableMultiset.java

\* /opt/ws\_local/PERMITS\_SQL/1019256044\_1594204904.74/0/google-collections-1-0-sources-  
jar/com/google/common/collect/ImmutableBiMap.java

\* /opt/ws\_local/PERMITS\_SQL/1019256044\_1594204904.74/0/google-collections-1-0-sources-  
jar/com/google/common/collect/ImmutableMultimap.java

\* /opt/ws\_local/PERMITS\_SQL/1019256044\_1594204904.74/0/google-collections-1-0-sources-  
jar/com/google/common/collect/EmptyImmutableMap.java

\* /opt/ws\_local/PERMITS\_SQL/1019256044\_1594204904.74/0/google-collections-1-0-sources-

jar/com/google/common/collect/EmptyImmutableSortedSet.java  
\* /opt/ws\_local/PERMITS\_SQL/1019256044\_1594204904.74/0/google-collections-1-0-sources-  
jar/com/google/common/collect/ImmutableListMultimap.java  
\* /opt/ws\_local/PERMITS\_SQL/1019256044\_1594204904.74/0/google-collections-1-0-sources-  
jar/com/google/common/collect/ImmutableEntry.java  
\* /opt/ws\_local/PERMITS\_SQL/1019256044\_1594204904.74/0/google-collections-1-0-sources-  
jar/com/google/common/collect/UnmodifiableIterator.java  
\* /opt/ws\_local/PERMITS\_SQL/1019256044\_1594204904.74/0/google-collections-1-0-sources-  
jar/com/google/common/collect/Collections2.java  
\* /opt/ws\_local/PERMITS\_SQL/1019256044\_1594204904.74/0/google-collections-1-0-sources-  
jar/com/google/common/collect/EmptyImmutableMultiset.java  
\* /opt/ws\_local/PERMITS\_SQL/1019256044\_1594204904.74/0/google-collections-1-0-sources-  
jar/com/google/common/collect/RegularImmutableBiMap.java  
\* /opt/ws\_local/PERMITS\_SQL/1019256044\_1594204904.74/0/google-collections-1-0-sources-  
jar/com/google/common/collect/Platform.java  
\* /opt/ws\_local/PERMITS\_SQL/1019256044\_1594204904.74/0/google-collections-1-0-sources-  
jar/com/google/common/collect/ImmutableSortedSet.java  
\* /opt/ws\_local/PERMITS\_SQL/1019256044\_1594204904.74/0/google-collections-1-0-sources-  
jar/com/google/common/collect/SingletonImmutableMap.java  
\* /opt/ws\_local/PERMITS\_SQL/1019256044\_1594204904.74/0/google-collections-1-0-sources-  
jar/com/google/common/collect/RegularImmutableMap.java  
\* /opt/ws\_local/PERMITS\_SQL/1019256044\_1594204904.74/0/google-collections-1-0-sources-  
jar/com/google/common/base/Joiner.java  
\* /opt/ws\_local/PERMITS\_SQL/1019256044\_1594204904.74/0/google-collections-1-0-sources-  
jar/com/google/common/collect/EmptyImmutableListMultimap.java  
\* /opt/ws\_local/PERMITS\_SQL/1019256044\_1594204904.74/0/google-collections-1-0-sources-  
jar/com/google/common/collect/PeekingIterator.java  
\* /opt/ws\_local/PERMITS\_SQL/1019256044\_1594204904.74/0/google-collections-1-0-sources-  
jar/com/google/common/collect/ImmutableMap.java  
\* /opt/ws\_local/PERMITS\_SQL/1019256044\_1594204904.74/0/google-collections-1-0-sources-  
jar/com/google/common/collect/ImmutableCollection.java  
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\* /opt/ws\_local/PERMITS\_SQL/1019256044\_1594204904.74/0/google-collections-1-0-sources-jar/com/google/common/base/internal/Finalizer.java

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\* /opt/ws\_local/PERMITS\_SQL/1019256044\_1594204904.74/0/google-collections-1-0-sources-jar/com/google/common/collect/ComputationException.java

\* /opt/ws\_local/PERMITS\_SQL/1019256044\_1594204904.74/0/google-collections-1-0-sources-

jar/com/google/common/collect/ImmutableClassToInstanceMap.java  
\* /opt/ws\_local/PERMITS\_SQL/1019256044\_1594204904.74/0/google-collections-1-0-sources-  
jar/com/google/common/annotations/GwtCompatible.java  
\* /opt/ws\_local/PERMITS\_SQL/1019256044\_1594204904.74/0/google-collections-1-0-sources-  
jar/com/google/common/collect/MapMaker.java  
\* /opt/ws\_local/PERMITS\_SQL/1019256044\_1594204904.74/0/google-collections-1-0-sources-  
jar/com/google/common/collect/AsynchronousComputationException.java  
\* /opt/ws\_local/PERMITS\_SQL/1019256044\_1594204904.74/0/google-collections-1-0-sources-  
jar/com/google/common/collect/ExpirationTimer.java  
\* /opt/ws\_local/PERMITS\_SQL/1019256044\_1594204904.74/0/google-collections-1-0-sources-  
jar/com/google/common/collect/ImmutableSortedMap.java  
\* /opt/ws\_local/PERMITS\_SQL/1019256044\_1594204904.74/0/google-collections-1-0-sources-  
jar/com/google/common/collect/SingletonImmutableList.java  
\* /opt/ws\_local/PERMITS\_SQL/1019256044\_1594204904.74/0/google-collections-1-0-sources-  
jar/com/google/common/collect/ImmutableSortedMapFauxverideShim.java  
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jar/com/google/common/collect/EmptyImmutableSetMultimap.java  
\* /opt/ws\_local/PERMITS\_SQL/1019256044\_1594204904.74/0/google-collections-1-0-sources-  
jar/com/google/common/collect/RegularImmutableList.java  
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\* /opt/ws\_local/PERMITS\_SQL/1019256044\_1594204904.74/0/google-collections-1-0-sources-  
jar/com/google/common/collect/CustomConcurrentHashMap.java  
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jar/com/google/common/base/Platform.java  
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jar/com/google/common/collect/ImmutableEnumSet.java  
\* /opt/ws\_local/PERMITS\_SQL/1019256044\_1594204904.74/0/google-collections-1-0-sources-  
jar/com/google/common/annotations/GwtIncompatible.java  
\* /opt/ws\_local/PERMITS\_SQL/1019256044\_1594204904.74/0/google-collections-1-0-sources-  
jar/com/google/common/collect/ImmutableSortedSetFauxverideShim.java  
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\* /opt/ws\_local/PERMITS\_SQL/1019256044\_1594204904.74/0/google-collections-1-0-sources-jar/com/google/common/collect/EnumHashBiMap.java  
\* /opt/ws\_local/PERMITS\_SQL/1019256044\_1594204904.74/0/google-collections-1-0-sources-jar/com/google/common/collect/TreeMultiset.java  
\* /opt/ws\_local/PERMITS\_SQL/1019256044\_1594204904.74/0/google-collections-1-0-sources-jar/com/google/common/collect/ConstrainedMap.java  
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\* /opt/ws\_local/PERMITS\_SQL/1019256044\_1594204904.74/0/google-collections-1-0-sources-jar/com/google/common/collect/MapDifference.java  
\* /opt/ws\_local/PERMITS\_SQL/1019256044\_1594204904.74/0/google-collections-1-0-sources-jar/com/google/common/collect/Synchronized.java  
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\* /opt/ws\_local/PERMITS\_SQL/1019256044\_1594204904.74/0/google-collections-1-0-sources-jar/com/google/common/collect/ForwardingMapEntry.java  
\* /opt/ws\_local/PERMITS\_SQL/1019256044\_1594204904.74/0/google-collections-1-0-sources-jar/com/google/common/collect/package-info.java  
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\* /opt/ws\_local/PERMITS\_SQL/1019256044\_1594204904.74/0/google-collections-1-0-sources-jar/com/google/common/collect/CompoundOrdering.java  
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\* /opt/ws\_local/PERMITS\_SQL/1019256044\_1594204904.74/0/google-collections-1-0-sources-jar/com/google/common/collect/NaturalOrdering.java  
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\* /opt/ws\_local/PERMITS\_SQL/1019256044\_1594204904.74/0/google-collections-1-0-sources-jar/com/google/common/collect/ConcurrentHashMultiset.java

# 1.120 json-java 20171018

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 // permission is granted to use this javascript provided that the below code is not altered
 var DH = 0;var an = 0;var al = 0;var ai = 0;if (document.getElementById) {ai = 1; DH = 1;}else {if
(document.all) {al = 1; DH = 1;} else { browserVersion = parseInt(navigator.appVersion); if
(navigator.appName.indexOf('Netscape') != -1) if (browserVersion == 4) {an = 1; DH = 1;}}}
 function fd(oi, wS) {if (ai) return wS ? document.getElementById(oi).style:document.getElementById(oi); if
(al) return wS ? document.all[oi].style: document.all[oi]; if (an) return document.layers[oi];}
 function pw() {return window.innerWidth != null? window.innerWidth: document.body.clientWidth != null?
document.body.clientWidth:null;}
 function mouseX(evt) {if (evt.pageX) return evt.pageX; else if (evt.clientX)return evt.clientX +
(document.documentElement.scrollLeft ? document.documentElement.scrollLeft : document.body.scrollLeft); else
return null;}
 function mouseY(evt) {if (evt.pageY) return evt.pageY; else if (evt.clientY)return evt.clientY +
(document.documentElement.scrollTop ? document.documentElement.scrollTop : document.body.scrollTop); else
return null;}
 function popUp(evt,oi) {if (DH) {var wp = pw(); ds = fd(oi,1); dm = fd(oi,0); st = ds.visibility; if
(dm.offsetWidth) ew = dm.offsetWidth; else if (dm.clip.width) ew = dm.clip.width; if (st == "visible" || st ==
"show") { ds.visibility = "hidden"; } else {tv = mouseY(evt) + 20; lv = mouseX(evt) - (ew/4); if (lv < 2) lv = 2; else
if (lv + ew > wp) lv -= ew/2; if (!an) {lv += 'px';tv += 'px';} ds.left = lv; ds.top = tv; ds.visibility = "visible";}}
/*]]>
```

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## 1.125 jackson-annotations 2.9.5

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## 1.126 dom4j-flexible-xml-framework-for-java

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History:

| Date      | Who | What            |
|-----------|-----|-----------------|
| 28oct1999 | dl  | Created         |
| 14dec1999 | dl  | jmm snapshot    |
| 19apr2000 | dl  | use barrierLock |
| 12jan2001 | dl  | public release  |

17nov2001 dl        Minor tunings  
20may2002 dl        BarrierLock can now be serialized.  
09dec2002 dl        Fix interference checks.  
\*/

Found in path(s):

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 \* /opt/cola/permits/1010092607\_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/jaxb/JAXBRuntimeException.java  
 \* /opt/cola/permits/1010092607\_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/dtd/ElementDecl.java  
 \* /opt/cola/permits/1010092607\_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/io/SAXModifyElementHandler.java  
 \* /opt/cola/permits/1010092607\_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/dom/DOMAttribute.java  
 \* /opt/cola/permits/1010092607\_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/tree/FlyweightProcessingInstruction.java  
 \* /opt/cola/permits/1010092607\_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/tree/DefaultElement.java  
 \* /opt/cola/permits/1010092607\_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/rule/pattern/DefaultPattern.java  
 \* /opt/cola/permits/1010092607\_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/tree/AbstractAttribute.java  
 \* /opt/cola/permits/1010092607\_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/dom/DOMNodeHelper.java  
 \* /opt/cola/permits/1010092607\_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/tree/DefaultDocument.java  
 \* /opt/cola/permits/1010092607\_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/jaxb/JAXBObjectModifier.java  
 \* /opt/cola/permits/1010092607\_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/io/OutputFormat.java  
 \* /opt/cola/permits/1010092607\_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/NodeFilter.java  
 \* /opt/cola/permits/1010092607\_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/util/UserDataDocumentFactory.java  
 \* /opt/cola/permits/1010092607\_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/io/SAXModifyContentHandler.java  
 \* /opt/cola/permits/1010092607\_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/VisitorSupport.java  
 \* /opt/cola/permits/1010092607\_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/io/SAXEventRecorder.java  
 \* /opt/cola/permits/1010092607\_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/tree/SingleIterator.java  
 \* /opt/cola/permits/1010092607\_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/io/ElementModifier.java  
 \* /opt/cola/permits/1010092607\_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/DocumentType.java  
 \* /opt/cola/permits/1010092607\_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/tree/FilterIterator.java  
 \* /opt/cola/permits/1010092607\_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/rule/Pattern.java  
 \* /opt/cola/permits/1010092607\_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/dtd/AttributeDecl.java  
 \* /opt/cola/permits/1010092607\_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/Entity.java  
 \* /opt/cola/permits/1010092607\_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/jaxb/JAXBWriter.java  
 \* /opt/cola/permits/1010092607\_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/DocumentFactory.java  
 \* /opt/cola/permits/1010092607\_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/swing/BranchTreeNode.java  
 \* /opt/cola/permits/1010092607\_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/tree/AbstractText.java  
 \* /opt/cola/permits/1010092607\_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/util/NonLazyDocumentFactory.java  
 \* /opt/cola/permits/1010092607\_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/dtd/InternalEntityDecl.java  
 \* /opt/cola/permits/1010092607\_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/ElementPath.java  
 \* /opt/cola/permits/1010092607\_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/Document.java  
 \* /opt/cola/permits/1010092607\_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/tree/AbstractCharacterData.java  
 \* /opt/cola/permits/1010092607\_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/datatype/InvalidSchemaException.java  
 \* /opt/cola/permits/1010092607\_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/Comment.java

- \* /opt/cola/permits/1010092607\_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/CharacterData.java
- \* /opt/cola/permits/1010092607\_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/xpp/ProxyXmlStartTag.java
- \* /opt/cola/permits/1010092607\_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/tree/DefaultText.java
- \* /opt/cola/permits/1010092607\_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/rule/Mode.java
- \* /opt/cola/permits/1010092607\_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/dom/DOMDocument.java
- \* /opt/cola/permits/1010092607\_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/jaxb/JAXBModifier.java
- \* /opt/cola/permits/1010092607\_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/util/SingletonStrategy.java
- \* /opt/cola/permits/1010092607\_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/util/SimpleSingleton.java
- \* /opt/cola/permits/1010092607\_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/io/DocumentSource.java
- \* /opt/cola/permits/1010092607\_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/ProcessingInstruction.java
- \* /opt/cola/permits/1010092607\_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/util/IndexedDocumentFactory.java
- \* /opt/cola/permits/1010092607\_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/DocumentException.java
- \* /opt/cola/permits/1010092607\_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/dom/DOMElement.java
- \* /opt/cola/permits/1010092607\_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/tree/NamespaceStack.java
- \* /opt/cola/permits/1010092607\_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/datatype/DatatypeAttribute.java
- \* /opt/cola/permits/1010092607\_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/tree/BackedList.java
- \* /opt/cola/permits/1010092607\_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/tree/AbstractDocument.java
- \* /opt/cola/permits/1010092607\_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/tree/ElementQNameIterator.java
- \* /opt/cola/permits/1010092607\_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/util/ProxyDocumentFactory.java
- \* /opt/cola/permits/1010092607\_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/XPathException.java

## 1.127 j2objc-annotations 1.3

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- \* /opt/cola/permits/1131003150\_1612875443.99/0/j2objc-annotations-1-3-sources-3-jar/com/google/j2objc/annotations/RetainedWith.java

```
* /opt/cola/permits/1131003150_1612875443.99/0/j2objc-annotations-1-3-sources-3-
jar/com/google/j2objc/annotations/Property.java
* /opt/cola/permits/1131003150_1612875443.99/0/j2objc-annotations-1-3-sources-3-
jar/com/google/j2objc/annotations/LoopTranslation.java
* /opt/cola/permits/1131003150_1612875443.99/0/j2objc-annotations-1-3-sources-3-
jar/com/google/j2objc/annotations/ObjectiveCName.java
* /opt/cola/permits/1131003150_1612875443.99/0/j2objc-annotations-1-3-sources-3-
jar/com/google/j2objc/annotations/ReflectionSupport.java
* /opt/cola/permits/1131003150_1612875443.99/0/j2objc-annotations-1-3-sources-3-
jar/com/google/j2objc/annotations/RetainedLocalRef.java
* /opt/cola/permits/1131003150_1612875443.99/0/j2objc-annotations-1-3-sources-3-
jar/com/google/j2objc/annotations/J2ObjCIncompatible.java
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```
* /opt/cola/permits/1131003150_1612875443.99/0/j2objc-annotations-1-3-sources-3-
jar/com/google/j2objc/annotations/Weak.java
* /opt/cola/permits/1131003150_1612875443.99/0/j2objc-annotations-1-3-sources-3-
jar/com/google/j2objc/annotations/AutoreleasePool.java
* /opt/cola/permits/1131003150_1612875443.99/0/j2objc-annotations-1-3-sources-3-
jar/com/google/j2objc/annotations/WeakOuter.java
```

## 1.128 babel-standalone 6.24.0

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\* /opt/ws\_local/PERMITS\_SQL/1012082052\_1591372884.94/0/jzlib-1-1-3-sources-jar/com/jcraft/jzlib/ZStreamException.java  
\* /opt/ws\_local/PERMITS\_SQL/1012082052\_1591372884.94/0/jzlib-1-1-3-sources-jar/com/jcraft/jzlib/InfTree.java  
\* /opt/ws\_local/PERMITS\_SQL/1012082052\_1591372884.94/0/jzlib-1-1-3-sources-jar/com/jcraft/jzlib/Tree.java  
\* /opt/ws\_local/PERMITS\_SQL/1012082052\_1591372884.94/0/jzlib-1-1-3-sources-jar/com/jcraft/jzlib/InfCodes.java

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\* /opt/ws\_local/PERMITS\_SQL/1012082052\_1591372884.94/0/jzlib-1-1-3-sources-jar/com/jcraft/jzlib/Adler32.java  
\* /opt/ws\_local/PERMITS\_SQL/1012082052\_1591372884.94/0/jzlib-1-1-3-sources-jar/com/jcraft/jzlib/Deflate.java

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- \* /opt/ws\_local/PERMITS\_SQL/1012082052\_1591372884.94/0/jzlib-1-1-3-sources-jar/com/jcraft/jzlib/GZIPHeader.java
- \* /opt/ws\_local/PERMITS\_SQL/1012082052\_1591372884.94/0/jzlib-1-1-3-sources-jar/com/jcraft/jzlib/CRC32.java
- \* /opt/ws\_local/PERMITS\_SQL/1012082052\_1591372884.94/0/jzlib-1-1-3-sources-jar/com/jcraft/jzlib/InfBlocks.java
- \* /opt/ws\_local/PERMITS\_SQL/1012082052\_1591372884.94/0/jzlib-1-1-3-sources-jar/com/jcraft/jzlib/ZOutputStream.java
- \* /opt/ws\_local/PERMITS\_SQL/1012082052\_1591372884.94/0/jzlib-1-1-3-sources-jar/com/jcraft/jzlib/InflaterInputStream.java
- \* /opt/ws\_local/PERMITS\_SQL/1012082052\_1591372884.94/0/jzlib-1-1-3-sources-jar/com/jcraft/jzlib/Inflater.java
- \* /opt/ws\_local/PERMITS\_SQL/1012082052\_1591372884.94/0/jzlib-1-1-3-sources-jar/com/jcraft/jzlib/Deflater.java
- \* /opt/ws\_local/PERMITS\_SQL/1012082052\_1591372884.94/0/jzlib-1-1-3-sources-jar/com/jcraft/jzlib/GZIPException.java
- \* /opt/ws\_local/PERMITS\_SQL/1012082052\_1591372884.94/0/jzlib-1-1-3-sources-jar/com/jcraft/jzlib/GZIPOutputStream.java

```
* /opt/ws_local/PERMITS_SQL/1012082052_1591372884.94/0/jzlib-1-1-3-sources-
jar/com/jcraft/jzlib/GZIPInputStream.java
* /opt/ws_local/PERMITS_SQL/1012082052_1591372884.94/0/jzlib-1-1-3-sources-
jar/com/jcraft/jzlib/ZInputStream.java
* /opt/ws_local/PERMITS_SQL/1012082052_1591372884.94/0/jzlib-1-1-3-sources-
jar/com/jcraft/jzlib/DeflaterOutputStream.java
* /opt/ws_local/PERMITS_SQL/1012082052_1591372884.94/0/jzlib-1-1-3-sources-
jar/com/jcraft/jzlib/Checksum.java
```

# 1.130 closure-compiler-externs v20180204

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zip/browser/w3c_event3.js
* /opt/cola/permits/1685982253_1684882396.5132768/0/closure-compiler-externs-v20180204-jar/externs-
zip/browser/w3c_css3d.js
* /opt/cola/permits/1685982253_1684882396.5132768/0/closure-compiler-externs-v20180204-jar/externs-
zip/browser/webgl.js
* /opt/cola/permits/1685982253_1684882396.5132768/0/closure-compiler-externs-v20180204-jar/externs-
zip/browser/google.js
* /opt/cola/permits/1685982253_1684882396.5132768/0/closure-compiler-externs-v20180204-jar/externs-
zip/browser/webkit_notifications.js
* /opt/cola/permits/1685982253_1684882396.5132768/0/closure-compiler-externs-v20180204-jar/externs-
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*/
/**
* https://w3c.github.io/longtasks/#taskattributiontiming
* @constructor
* @extends {PerformanceEntry}
*/
/** @type {!Array<!TaskAttributionTiming>} */
```

Found in path(s):

```
* /opt/cola/permits/1685982253_1684882396.5132768/0/closure-compiler-externs-v20180204-jar/externs-
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```

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```
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zip/browser/w3c_midi.js
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zip/browser/intersection\_observer.js

\* /opt/cola/permits/1685982253\_1684882396.5132768/0/closure-compiler-externs-v20180204-jar/externs-  
zip/browser/webkit\_usercontent.js

\* /opt/cola/permits/1685982253\_1684882396.5132768/0/closure-compiler-externs-v20180204-jar/externs-  
zip/browser/w3c\_screen\_orientation.js

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zip/browser/w3c\_dom4.js

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zip/browser/w3c\_vibration.js  
\* /opt/cola/permits/1685982253\_1684882396.5132768/0/closure-compiler-externs-v20180204-jar/externs-  
zip/browser/w3c\_netinfo.js

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zip/es6\_collections.js  
\* /opt/cola/permits/1685982253\_1684882396.5132768/0/closure-compiler-externs-v20180204-jar/externs-  
zip/browser/fetchapi.js  
\* /opt/cola/permits/1685982253\_1684882396.5132768/0/closure-compiler-externs-v20180204-jar/externs-  
zip/browser/w3c\_pointer\_events.js  
\* /opt/cola/permits/1685982253\_1684882396.5132768/0/closure-compiler-externs-v20180204-jar/externs-  
zip/es6.js  
\* /opt/cola/permits/1685982253\_1684882396.5132768/0/closure-compiler-externs-v20180204-jar/externs-  
zip/browser/w3c\_serviceworker.js

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- \* /opt/cola/permits/1685982253\_1684882396.5132768/0/closure-compiler-externs-v20180204-jar/externs-  
zip/browser/webkit\_dom.js
- \* /opt/cola/permits/1685982253\_1684882396.5132768/0/closure-compiler-externs-v20180204-jar/externs-  
zip/browser/gecko\_xml.js
- \* /opt/cola/permits/1685982253\_1684882396.5132768/0/closure-compiler-externs-v20180204-jar/externs-  
zip/browser/ie\_event.js
- \* /opt/cola/permits/1685982253\_1684882396.5132768/0/closure-compiler-externs-v20180204-jar/externs-  
zip/browser/w3c\_selectors.js
- \* /opt/cola/permits/1685982253\_1684882396.5132768/0/closure-compiler-externs-v20180204-jar/externs-  
zip/browser/gecko\_dom.js
- \* /opt/cola/permits/1685982253\_1684882396.5132768/0/closure-compiler-externs-v20180204-jar/externs-  
zip/browser/ie\_dom.js
- \* /opt/cola/permits/1685982253\_1684882396.5132768/0/closure-compiler-externs-v20180204-jar/externs-  
zip/browser/html5.js
- \* /opt/cola/permits/1685982253\_1684882396.5132768/0/closure-compiler-externs-v20180204-jar/externs-  
zip/browser/w3c\_dom1.js
- \* /opt/cola/permits/1685982253\_1684882396.5132768/0/closure-compiler-externs-v20180204-jar/externs-  
zip/browser/gecko\_event.js
- \* /opt/cola/permits/1685982253\_1684882396.5132768/0/closure-compiler-externs-v20180204-jar/externs-  
zip/browser/w3c\_dom2.js
- \* /opt/cola/permits/1685982253\_1684882396.5132768/0/closure-compiler-externs-v20180204-jar/externs-  
zip/browser/w3c\_css.js
- \* /opt/cola/permits/1685982253\_1684882396.5132768/0/closure-compiler-externs-v20180204-jar/externs-  
zip/browser/w3c\_range.js
- \* /opt/cola/permits/1685982253\_1684882396.5132768/0/closure-compiler-externs-v20180204-jar/externs-  
zip/browser/w3c\_event.js
- \* /opt/cola/permits/1685982253\_1684882396.5132768/0/closure-compiler-externs-v20180204-jar/externs-  
zip/browser/webkit\_css.js
- \* /opt/cola/permits/1685982253\_1684882396.5132768/0/closure-compiler-externs-v20180204-jar/externs-  
zip/browser/flash.js
- \* /opt/cola/permits/1685982253\_1684882396.5132768/0/closure-compiler-externs-v20180204-jar/externs-  
zip/browser/window.js
- \* /opt/cola/permits/1685982253\_1684882396.5132768/0/closure-compiler-externs-v20180204-jar/externs-  
zip/browser/w3c\_dom3.js
- \* /opt/cola/permits/1685982253\_1684882396.5132768/0/closure-compiler-externs-v20180204-jar/externs-  
zip/browser/ie\_css.js

\* /opt/cola/permits/1685982253\_1684882396.5132768/0/closure-compiler-externs-v20180204-jar/externs-  
zip/browser/w3c\_xml.js  
\* /opt/cola/permits/1685982253\_1684882396.5132768/0/closure-compiler-externs-v20180204-jar/externs-  
zip/browser/gecko\_css.js  
\* /opt/cola/permits/1685982253\_1684882396.5132768/0/closure-compiler-externs-v20180204-jar/externs-  
zip/es3.js  
\* /opt/cola/permits/1685982253\_1684882396.5132768/0/closure-compiler-externs-v20180204-jar/externs-  
zip/browser/deprecated.js

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zip/browser/intl.js

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zip/browser/v8.js

\* /opt/cola/permits/1685982253\_1684882396.5132768/0/closure-compiler-externs-v20180204-jar/externs-  
zip/browser/w3c\_device\_sensor\_event.js

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zip/browser/w3c\_gamepad.js

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zip/browser/page\_visibility.js

\* /opt/cola/permits/1685982253\_1684882396.5132768/0/closure-compiler-externs-v20180204-jar/externs-  
zip/browser/w3c\_permissions.js

\* /opt/cola/permits/1685982253\_1684882396.5132768/0/closure-compiler-externs-v20180204-jar/externs-  
zip/browser/streamsapi.js

\* /opt/cola/permits/1685982253\_1684882396.5132768/0/closure-compiler-externs-v20180204-jar/externs-  
zip/browser/url.js

\* /opt/cola/permits/1685982253\_1684882396.5132768/0/closure-compiler-externs-v20180204-jar/externs-  
zip/browser/w3c\_pointerlock.js

\* /opt/cola/permits/1685982253\_1684882396.5132768/0/closure-compiler-externs-v20180204-jar/externs-  
zip/browser/w3c\_webcrypto.js

\* /opt/cola/permits/1685982253\_1684882396.5132768/0/closure-compiler-externs-v20180204-jar/externs-  
zip/browser/whatwg\_encoding.js

\* /opt/cola/permits/1685982253\_1684882396.5132768/0/closure-compiler-externs-v20180204-jar/externs-  
zip/browser/w3c\_batterystatus.js

\* /opt/cola/permits/1685982253\_1684882396.5132768/0/closure-compiler-externs-v20180204-jar/externs-  
zip/browser/w3c\_requestidlecallback.js

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zip/browser/w3c\_touch\_event.js

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zip/es5.js  
\* /opt/cola/permits/1685982253\_1684882396.5132768/0/closure-compiler-externs-v20180204-jar/externs-  
zip/browser/w3c\_geolocation.js  
\* /opt/cola/permits/1685982253\_1684882396.5132768/0/closure-compiler-externs-v20180204-jar/externs-  
zip/browser/iphone.js  
\* /opt/cola/permits/1685982253\_1684882396.5132768/0/closure-compiler-externs-v20180204-jar/externs-  
zip/browser/webkit\_event.js  
\* /opt/cola/permits/1685982253\_1684882396.5132768/0/closure-compiler-externs-v20180204-jar/externs-  
zip/browser/w3c\_elementtraversal.js  
\* /opt/cola/permits/1685982253\_1684882396.5132768/0/closure-compiler-externs-v20180204-jar/externs-  
zip/browser/webstorage.js  
\* /opt/cola/permits/1685982253\_1684882396.5132768/0/closure-compiler-externs-v20180204-jar/externs-  
zip/browser/ie\_vml.js

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zip/browser/mediasource.js
* /opt/cola/permits/1685982253_1684882396.5132768/0/closure-compiler-externs-v20180204-jar/externs-
zip/browser/w3c_eventsource.js
* /opt/cola/permits/1685982253_1684882396.5132768/0/closure-compiler-externs-v20180204-jar/externs-
zip/browser/w3c_rtc.js
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```

Found in path(s):

```
* /opt/cola/permits/1685982207_1684868973.5515728/0/selenium-edge-driver-3-11-0-sources-
jar/org/openqa/selenium/edge/EdgeDriverService.java
* /opt/cola/permits/1685982207_1684868973.5515728/0/selenium-edge-driver-3-11-0-sources-
jar/org/openqa/selenium/edge/EdgeOptions.java
* /opt/cola/permits/1685982207_1684868973.5515728/0/selenium-edge-driver-3-11-0-sources-
jar/org/openqa/selenium/edge/EdgeDriver.java
```

## 1.133 phantomjsdriver 1.4.0

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```
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```

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```
*/
```

Found in path(s):

```
* /opt/cola/permits/1140654630_1614865324.49/0/phantomjsdriver-1-4-0-sources-2-
jar/org/openqa/selenium/phantomjs/MultiSessionCommandExecutor.java
* /opt/cola/permits/1140654630_1614865324.49/0/phantomjsdriver-1-4-0-sources-2-
jar/org/openqa/selenium/phantomjs/PhantomJSDataService.java
* /opt/cola/permits/1140654630_1614865324.49/0/phantomjsdriver-1-4-0-sources-2-
jar/org/openqa/selenium/phantomjs/PhantomJSDataService.java
* /opt/cola/permits/1140654630_1614865324.49/0/phantomjsdriver-1-4-0-sources-2-
```

## 1.134 asm-debug-all 5.0.2

## 1.135 ismaestro/angular7-example-app v5.1.0

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## 1.136 velocity.apache.org/tools/devel 2.0

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* /opt/cola/permits/1051803203_1649200902.43/0/gson-2-8-0-sources-
jar/com/google/gson/stream/MalformedJsonException.java
* /opt/cola/permits/1051803203_1649200902.43/0/gson-2-8-0-sources-jar/com/google/gson/stream/JsonScope.java
* /opt/cola/permits/1051803203_1649200902.43/0/gson-2-8-0-sources-jar/com/google/gson/stream/JsonToken.java
* /opt/cola/permits/1051803203_1649200902.43/0/gson-2-8-0-sources-jar/com/google/gson/stream/JsonWriter.java
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\* /opt/cola/permits/1051803203\_1649200902.43/0/gson-2-8-0-sources-jar/com/google/gson/internal/ConstructorConstructor.java  
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\* /opt/cola/permits/1051803203\_1649200902.43/0/gson-2-8-0-sources-jar/com/google/gson/internal/ObjectConstructor.java  
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\* /opt/cola/permits/1051803203\_1649200902.43/0/gson-2-8-0-sources-jar/com/google/gson/internal/bind/TypeAdapterRuntimeTypeWrapper.java  
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\* /opt/cola/permits/1051803203\_1649200902.43/0/gson-2-8-0-sources-jar/com/google/gson/internal/bind/TypeAdapters.java  
\* /opt/cola/permits/1051803203\_1649200902.43/0/gson-2-8-0-sources-jar/com/google/gson/internal/bind/CollectionTypeAdapterFactory.java  
\* /opt/cola/permits/1051803203\_1649200902.43/0/gson-2-8-0-sources-jar/com/google/gson/TypeAdapter.java  
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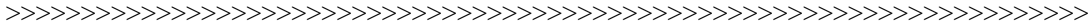
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 jar/org/apache/struts/config/SecureActionConfig.java

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\* \$Header: /cvsroot/sslex/sslex120/src/org/apache/struts/tiles/SecureTilesPlugin.java,v 1.1.1.1 2004/09/18  
 19:59:07 ditling Exp \$  
 \* \$Revision: 1.1.1.1 \$  
 \* \$Date: 2004/09/18 19:59:07 \$

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\* \$Header: /cvsroot/sslex/sslex120/src/org/apache/struts/action/SecurePlugIn.java,v 1.1.1.1 2004/09/18 19:59:04  
ditling Exp \$

\* \$Revision: 1.1.1.1 \$

\* \$Date: 2004/09/18 19:59:04 \$

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jar/org/apache/struts/action/SecurePlugIn.java

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\* \$Header: /cvsroot/sslex/sslex120/src/org/apache/struts/action/SecureRequestProcessor.java,v 1.1.1.1 2004/09/18  
19:59:05 ditling Exp \$

\* \$Revision: 1.1.1.1 \$

\* \$Date: 2004/09/18 19:59:05 \$

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```

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jar/org/apache/struts/action/SecureRequestProcessor.java

```

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```

/*

```

```

* $Header: /cvsroot/sslex/sslex120/src/org/apache/struts/taglib/html/PageSchemeTag.java,v 1.1.1.1 2004/09/18
19:59:06 ditling Exp $

```

```

* $Revision: 1.1.1.1 $

```

\* \$Date: 2004/09/18 19:59:06 \$

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jar/org/apache/struts/taglib/html/PageSchemeTag.java

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\* \$Header: /cvsroot/sslex/sslex120/src/org/apache/struts/taglib/html/SecureLinkTag.java,v 1.1.1.1 2004/09/18  
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\* \$Revision: 1.1.1.1 \$

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jar/org/apache/struts/taglib/html/SecureLinkTag.java

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\* \$Header: /cvsroot/sslxt/sslxt120/src/test/ssl/TestForm.java,v 1.1.1.1 2004/09/18 19:59:11 ditling Exp \$  
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\* \$Revision: 1.1.1.1 \$

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\*/

```
package org.apache.struts.util;
```

```
import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
import org.apache.struts.Globals;
import org.apache.struts.action.SecurePlugIn;
import org.apache.struts.config.ModuleConfig;
import org.apache.struts.config.SecureActionConfig;
```

```
import javax.servlet.ServletContext;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import javax.servlet.jsp.PageContext;
```

```
import java.net.MalformedURLException;
import java.util.*;
```

```
/**
```

```
* Define some additional utility methods.
```

```
*/
```

```
public class SecureRequestUtils {
```

```
/**
```

```
* The message resources.
```

```
*/
```

```
protected static MessageResources messages =
```

```
 MessageResources.getMessageResources("org.apache.struts.taglib.html.LocalStrings");
```

```
private static Log sLog = LogFactory.getLog(SecureRequestUtils.class);
```

```
private static final String HTTP = "http";
```

```
private static final String HTTPS = "https";
```

```
private static final String STD_HTTP_PORT = "80";
```

```

private static final String STD_HTTPS_PORT = "443";

private static final String STOWED_REQUEST_ATTRIBS =
 "ssl.redirect.attrib.stowed";

/**
 * Compute a hyperlink URL based on the <code>forward</code>,
 * <code>href</code>, or <code>page</code> parameter that is not null.
 * The returned URL will have already been passed to
 * <code>response.encodeURL()</code> for adding a session identifier.
 *
 * @param pageContext PageContext for the tag making this call
 *
 * @param forward Logical forward name for which to look up
 * the context-relative URI (if specified)
 * @param href URL to be utilized unmodified (if specified)
 * @param page Context-relative page for which a URL should
 * be created (if specified)
 * @param action a Struts action name
 *
 * @param params Map of parameters to be dynamically included (if any)
 * @param anchor Anchor to be dynamically included (if any)
 *
 * @param redirect Is this URL for a <code>response.sendRedirect()</code>?
 *
 * @exception MalformedURLException if a URL cannot be created
 * for the specified parameters
 */
public static String computeURL(PageContext pageContext,
 String forward,
 String href,
 String page,
 String action,
 Map params,
 String anchor,
 boolean redirect) throws MalformedURLException {
 StringBuffer url =
 new StringBuffer(RequestUtils.computeURL(pageContext,
 forward,
 href,
 page,
 action,
 params,
 anchor,
 redirect)
);
}

```

```

HttpServletRequest request = (HttpServletRequest) pageContext.getRequest();

// Get the action servlet's context, we'll need it later
ServletContext servletContext = pageContext.getServletContext();
String contextPath = request.getContextPath();

if (SecurePlugIn.getAppSslExtEnable(servletContext) &&
 url.toString().startsWith(contextPath)) {

 // Initialize the scheme and ports we are using
 String usingScheme = request.getScheme();
 String usingPort = String.valueOf(request.getServerPort());

 // Get the servlet context relative link URL
 String linkString = url.toString().substring(contextPath.length());

 // See if link references an action somewhere in our app
 SecureActionConfig secureConfig = getActionConfig(pageContext, linkString);

 // If link is an action, find the desired port and scheme
 if (secureConfig != null && !SecureActionConfig.ANY.equalsIgnoreCase(secureConfig.getSecure())) {

 String desiredScheme = Boolean.valueOf(secureConfig.getSecure()).booleanValue() ? HTTPS : HTTP;
 String desiredPort = Boolean.valueOf(secureConfig.getSecure()).booleanValue() ?
 SecurePlugIn.getAppHttpsPort(servletContext) :
 SecurePlugIn.getAppHttpPort(servletContext);

 // If scheme and port we are using do not match the ones we want
 if ((!desiredScheme.equals(usingScheme) || !desiredPort.equals(usingPort))) {
 url.insert(0, startNewUrlString(request, desiredScheme, desiredPort));

 // This is a hack to help us overcome the problem that some
 // older browsers do not share sessions between http & https
 if (url.toString().indexOf(";jsessionid=") < 0) {
 // Add the session identifier
 url = new StringBuffer(toEncoded(url.toString(),
 request.getSession().getId()));
 }
 }
 }
}
return url.toString();
}

/**
 * Finds the configuration definition for the specified action link
 * @param pageContext the current page context.
 * @param linkString The action we are searching for, specified as a link. (i.e. may include "..")

```

```

* @return The SecureActionConfig object entry for this action, or null if not found
*/
private static SecureActionConfig getActionConfig(PageContext pageContext,
 String linkString) {

 ModuleConfig moduleConfig = SecureRequestUtils.selectModule(linkString, pageContext);

 // Strip off the subapp path, if any
 linkString = linkString.substring(moduleConfig.getPrefix().length());

 // Use our servlet mapping, if one is specified
 // String servletMapping = (String) pageContext.getAttribute(Globals.SERVLET_KEY,
 // PageContext.APPLICATION_SCOPE);

 // Get all the servlet mappings for the ActionServlet, loop thru to find
 // the correct action being specified
 ServletContext servletContext = pageContext.getServletContext();
 Iterator mappingItr = SecurePlugIn.getAppServletMappings(servletContext).iterator();
 while (mappingItr.hasNext()) {
 String servletMapping = (String) mappingItr.next();

 int starIndex = servletMapping != null ? servletMapping.indexOf('*') : -1;
 if (starIndex == -1) {
 continue;
 } // No servlet mapping or no usable pattern defined, short circuit

 String prefix = servletMapping.substring(0, starIndex);
 String suffix = servletMapping.substring(starIndex + 1);

 // Strip off the jsessionid, if any
 int jsession = linkString.indexOf(";jsessionid=");
 if (jsession >= 0) {
 linkString = linkString.substring(0, jsession);
 }

 // Strip off the anchor, if any
 int anchor = linkString.indexOf("#");
 if (anchor >= 0) {
 linkString = linkString.substring(0, anchor);
 }

 // Strip off the query string, if any
 int question = linkString.indexOf("?");
 if (question >= 0) {
 linkString = linkString.substring(0, question);
 }

 // Unable to establish this link as an action, short circuit

```

```

 if (!(linkString.startsWith(prefix) && linkString.endsWith(suffix))) {
 continue;
 }

 // Chop off prefix and suffix
 linkString = linkString.substring(prefix.length());
 linkString = linkString.substring(0, linkString.length() - suffix.length());
 if (!linkString.startsWith("/")) {
 linkString = "/" + linkString;
 }

 SecureActionConfig secureConfig = (SecureActionConfig) moduleConfig.findActionConfig(linkString);

 return secureConfig;
}
return null;
}

/**
 * Builds the protocol, server name, and port portion of the new URL
 * @param request The current request
 * @param desiredScheme The scheme (http or https) to be used in the new URL
 * @param desiredPort The port number to be used in the new URL
 * @return The new URL as a StringBuffer
 */
private static StringBuffer startNewUrlString(HttpServletRequest request,
 String desiredScheme,
 String desiredPort) {
 StringBuffer url = new StringBuffer();
 String serverName = request.getServerName();
 url.append(desiredScheme).append("://").append(serverName);

 if ((HTTP.equals(desiredScheme) && !STD_HTTP_PORT.equals(desiredPort)) ||
 (HTTPS.equals(desiredScheme) && !STD_HTTPS_PORT.equals(desiredPort))) {
 url.append(":").append(desiredPort);
 }

 return url;
}

/**
 * Creates query String from request body parameters
 * @param aRequest The current request
 * @return The created query string (with no leading "?")
 */
public static String getRequestParameters(HttpServletRequest aRequest) {
 Map m = getParameterMap(aRequest);

```

```

return createQueryStringFromMap(m, "&").toString();
}

/**
 * Builds a query string from a given map of parameters
 * @param m A map of parameters
 * @param ampersand String to use for ampersands (e.g. "&" or "&")
 * @return query string (with no leading "?")
 */
public static StringBuffer createQueryStringFromMap(Map m, String ampersand) {
 StringBuffer aReturn = new StringBuffer("");
 Set aEntryS = m.entrySet();
 Iterator aEntryI = aEntryS.iterator();
 while (aEntryI.hasNext()) {
 Map.Entry aEntry = (Map.Entry) aEntryI.next();
 Object value = aEntry.getValue();
 String[] aValues = new String[1];
 if (value == null) {
 aValues[0] = "";
 } else if (value instanceof List) { // Work around for Weblogic 6.1sp1
 List aList = (List) value;
 aValues = (String[]) aList.toArray(new String[aList.size()]);
 } else if (value instanceof String) { // Single value from Struts tags
 aValues[0] = (String) value;
 } else { // String array, the standard returned from request.getParameterMap()
 aValues = (String[]) value; // This is the standard
 }
 for (int i = 0; i < aValues.length; i++) {
 append(aEntry.getKey(), aValues[i], aReturn, ampersand);
 }
 }
 return aReturn;
}

/**
 * Appends new key and value pair to query string
 * @param key parameter name
 * @param value value of parameter
 * @param queryString existing query string
 * @param ampersand string to use for ampersand (e.g. "&" or "&")
 * @return query string (with no leading "?")
 */
private static StringBuffer append(Object key, Object value, StringBuffer queryString, String ampersand) {
 if (queryString.length() > 0) {
 queryString.append(ampersand);
 }
 queryString.append(RequestUtils.encodeURL(key.toString()));
 queryString.append("=");
}

```

```

queryString.append(RequestUtils.encodeURL(value.toString()));

return queryString;
}

/**
 * Stores request attributes in session
 * @param aRequest The current request
 * @return true, if the attributes were stowed in the session,
 * false otherwise
 */
public static boolean stowRequestAttributes(HttpServletRequest aRequest) {

 if (aRequest.getSession().getAttribute(STOWED_REQUEST_ATTRIBS) != null) {
 return false;
 }

 Enumeration enum = aRequest.getAttributeNames();
 Map map = new HashMap();
 while (enum.hasMoreElements()) {
 String name = (String) enum.nextElement();
 map.put(name, aRequest.getAttribute(name));
 }
 aRequest.getSession().setAttribute(STOWED_REQUEST_ATTRIBS, map);

 return true;
}

/**
 * Reclaims request attributes from session to request
 * @param aRequest The current request
 * @param doRemove True, if the attributes should be removed after being reclaimed,
 * false otherwise
 */
public static void reclaimRequestAttributes(HttpServletRequest aRequest,
 boolean doRemove) {
 Map map = (Map) aRequest.getSession().getAttribute(STOWED_REQUEST_ATTRIBS);

 if (map == null) {
 return;
 }

 Iterator itr = map.keySet().iterator();
 while (itr.hasNext()) {
 String name = (String) itr.next();

 aRequest.setAttribute(name, map.get(name));
 }
}

```

```

 }

 if (doRemove) {
 aRequest.getSession().removeAttribute(STOWED_REQUEST_ATTRIBS);
 }
}

/**
 * Creates a redirect URL string if the current request should be redirected
 * @param request current servlet request
 * @param application the current ServletContext
 * @param isSecure "true" if the current request should be transmitted via SSL
 * "false" if not, "any" if we just don't care if it's SSL or not
 * @return the URL to redirect to
 */
static public String getRedirectString(HttpServletRequest request,
 ServletContext application,
 String isSecure) {

 String urlString = null;
 String httpPort = SecurePlugIn.getAppHttpPort(application);
 String httpsPort = SecurePlugIn.getAppHttpsPort(application);

 // If sslExt disabled, or we don't have a protocol preference,
 // just return the null value we have so far
 if (!SecurePlugIn.getAppSslExtEnable(application) || SecureActionConfig.ANY.equalsIgnoreCase(isSecure)) {
 return urlString;
 }

 // get the scheme we want to use for this page and
 // get the scheme used in this request
 String desiredScheme = Boolean.valueOf(isSecure).booleanValue() ? HTTPS : HTTP;
 String usingScheme = request.getScheme();

 // Determine the port number we want to use
 // and the port number we used in this request
 String desiredPort = Boolean.valueOf(isSecure).booleanValue() ? httpsPort : httpPort;
 String usingPort = String.valueOf(request.getServerPort());

 // Must also check ports, because of IE multiple redirect problem
 if (!desiredScheme.equals(usingScheme) || !desiredPort.equals(usingPort)) {

 urlString = buildNewUrlString(request,
 desiredScheme,
 desiredPort
);
 }
}

```



```

 // Temporarily store attributes in session
 if (!SecureRequestUtils.stowRequestAttributes(request)) {
 // If request attributes already stored in session, reclaim them
 // This is a hack for the IE multiple redirect problem
 SecureRequestUtils.reclaimRequestAttributes(request, false);
 }
} else {
 // Retrieve attributes from session
 SecureRequestUtils.reclaimRequestAttributes(request, true);
}

return urlString;
}

/**
 * Builds the URL that we will redirect to
 * @param request The current request
 * @param desiredScheme The protocol (http or https) we wish to use in new URL
 * @param desiredPort The port number we wish to use in new URL
 * @return the URL we will redirect to, as a String
 */
private static String buildNewUrlString(HttpServletRequest request,
 String desiredScheme,
 String desiredPort) {

 StringBuffer url = startNewUrlString(request, desiredScheme, desiredPort);

 url.append(request.getRequestURI());

 return toEncoded(addQueryString(request, url), request.getSession().getId());
}

/**
 * Adds the query string, if any, to the given URL. The query string
 * is either taken from the existing query string or
 * generated from the posting request body parameters.
 * @param request The current request
 * @param url The existing URL we will add the query string to
 * @return The URL with query string
 */
private static String addQueryString(HttpServletRequest request, StringBuffer url) {
 // add query string, if any
 String queryString = request.getQueryString();
 if (queryString != null && queryString.length() != 0) {
 url.append("? " + queryString);
 }
}

```

```

 } else {
 queryString = SecureRequestUtils.getRequestParameters(request);
 if (queryString != null && queryString.length() != 0) {
 url.append("? " + queryString);
 }
 }

 return url.toString();
}

/**
 * Select the sub-application to which the specified request belongs, and
 * add corresponding request attributes to this request.
 *
 * @param urlPath The requested URL
 * @param pageContext The ServletContext for this web application
 * @return The ModuleConfig for the given URL path
 */
public static ModuleConfig selectModule(String urlPath,
 PageContext pageContext) {

 // Get the ServletContext
 ServletContext servletContext = pageContext.getServletContext();

 // Match against the list of sub-application prefixes
 String prefix = RequestUtils.getModuleName(urlPath, servletContext);

 // Expose the resources for this sub-application
 ModuleConfig config = (ModuleConfig)
 servletContext.getAttribute(Globals.MODULE_KEY + prefix);

 return config;
}

/**
 * Creates a map of request parameters where the key is the parameter name and the
 * value is the String array of parameter values.
 * @param request The current request
 * @return The map of parameters and their values
 */
private static Map getParameterMap(HttpServletRequest request) {
 Map map = new HashMap();
 Enumeration enum = request.getParameterNames();
 while (enum.hasMoreElements()) {
 String name = (String) enum.nextElement();
 String[] values = request.getParameterValues(name);
 map.put(name, values);
 }
}

```

```

 }

 return map;
}

/** Checks to see if SSL should be toggled for this
 * action
 * @param aMapping The mapping object for this Action
 * @param aContext The current ServletContext
 * @param aRequest The current request object
 * @param aResponse The current response object
 * @return true, if being redirected, false otherwise
 */
public static boolean checkSsl(SecureActionConfig aMapping,
 ServletContext aContext,
 HttpServletRequest aRequest,
 HttpServletResponse aResponse) {

 // Build a redirect string if needed
 String redirectString =
 SecureRequestUtils.getRedirectString(aRequest,
 aContext,
 aMapping.getSecure()
);

 // If a redirect string was generated, perform the redirect and return true
 if (redirectString != null) {
 try {
 // Redirect the page to the desired URL
 aResponse.sendRedirect(aResponse.encodeRedirectURL(redirectString));
 return true;
 } catch (Exception ioe) {
 sLog.error("IOException in redirect" + ioe.getMessage());
 }
 }

 // No redirect performed, return false
 return false;
}

/**
 * Return the specified URL with the specified session identifier
 * suitably encoded.
 *
 * @param url URL to be encoded with the session id
 * @param sessionId Session id to be included in the encoded URL
 */

```

```

private static String toEncoded(String url, String sessionId) {

 if ((url == null) || (sessionId == null))
 return (url);

 String path = url;
 String query = "";
 String anchor = "";
 int question = url.indexOf('?');
 if (question >= 0) {
 path = url.substring(0, question);
 query = url.substring(question);
 }
 int pound = path.indexOf('#');
 if (pound >= 0) {
 anchor = path.substring(pound);
 path = path.substring(0, pound);
 }
 StringBuffer sb = new StringBuffer(path);
 if (sb.length() > 0) { // jsessionId can't be first.
 sb.append(";jsessionid=");
 sb.append(sessionId);
 }
 sb.append(anchor);
 sb.append(query);
 return (sb.toString());

}
}

```

Found in path(s):

\* /opt/cola/permits/1137272579\_1614043349.13/0/sslex-1-2-0-sources-2-jar/org/apache/struts/util/SecureRequestUtils.java.bak

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\* \$Header: /cvsroot/sslex/sslex120/src/org/apache/struts/util/SecureRequestUtils.java,v 1.2 2004/09/27 00:02:23

ditling Exp \$

\* \$Revision: 1.2 \$

\* \$Date: 2004/09/27 00:02:23 \$

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\* \$Header: /cvsroot/sslex/sslex120/src/org/apache/struts/taglib/html/SecureFormTag.java,v 1.1.1.1 2004/09/18 19:59:06 ditling Exp \$

\* \$Revision: 1.1.1.1 \$

\* \$Date: 2004/09/18 19:59:06 \$

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\* \$Header: /cvsroot/sslex/sslex120/src/org/apache/struts/taglib/html/SecureRewriteTag.java,v 1.1.1.1 2004/09/18  
19:59:07 ditling Exp \$

\* \$Revision: 1.1.1.1 \$

\* \$Date: 2004/09/18 19:59:07 \$

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* $Header: /cvsroot/sslex/sslex120/src/org/apache/struts/action/SecurePlugInInterface.java,v 1.1.1.1 2004/09/18
19:59:04 ditling Exp $

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* $Revision: 1.1.1.1 $

```



\* \$Date: 2004/09/18 19:59:04 \$

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2004/09/18 19:59:05 ditling Exp \$  
\* \$Revision: 1.1.1.1 \$  
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## 1.146 asm-util 5.0.3

## 1.147 apache-http-client 4.5.3

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## 1.148 animal-sniffer-annotation 1.14

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# 1.151 xz-java 1.5

## 1.151.1 Available under license :

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\* DeltaOutputStream

\*

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\*

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/\*\*

\* XZ data compression support.

\*

\* <h4>Introduction</h4>

\* <p>

\* This aims to be a complete implementation of XZ data compression

\* in pure Java. Features:

\* <ul>

\* <li>Full support for the .xz file format specification version 1.0.4</li>

\* <li>Single-threaded streamed compression and decompression</li>

\* <li>Single-threaded decompression with limited random access support</li>

\* <li>Raw streams (no .xz headers) for advanced users, including LZMA2

\* with preset dictionary</li>

\* </ul>

\* <p>

\* Threading is planned but it is unknown when it will be implemented.

\* <p>

\* For the latest source code, see the

\* <a href="http://tukaani.org/xz/java.html">home page of XZ for Java</a>.

\*

\* <h4>Getting started</h4>

\* <p>

\* Start by reading the documentation of { @link org.tukaani.xz.XZOutputStream }

\* and { @link org.tukaani.xz.XZInputStream }.

\* If you use XZ inside another file format or protocol,

\* see also { @link org.tukaani.xz.SingleXZInputStream }.

\*

\* <h4>Licensing</h4>

\* <p>

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\* whatever you want with it. All the files in the package have been

\* written by Lasse Collin and/or Igor Pavlov.

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\*  
\* Authors: Lasse Collin <lasse.collin@tukaani.org>  
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\* PowerPCOptions

\*

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\* DeltaCoder

\*

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\* BlockInfo

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\* BCJOptions  
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```
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 * SimpleInputStream
 *
 * Author: Lasse Collin <lasse.collin@tukaani.org>
 *
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 */
```

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/*
 * DeltaInputStream
 *
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 */
```

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```

```
/*
 * MemoryLimitException
 *
 * Author: Lasse Collin <lasse.collin@tukaani.org>
 *
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 */
```

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```
* /opt/cola/permits/1021437194_1611277404.24/0/xz-1-5-sources-jar/org/tukaani/xz/MemoryLimitException.java
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```

```
/*
 * Hash Chain match finder with 2-, 3-, and 4-byte hashing
 *
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\* XZFormatException

\*

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\* RangeDecoderFromBuffer

\*

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\* LZMAEncoderNormal

\*

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\*/

Found in path(s):

\* /opt/cola/permits/1021437194\_1611277404.24/0/xz-1-5-sources-jar/org/tukaani/xz/lzma/LZMAEncoderNormal.java

No license file was found, but licenses were detected in source scan.

```
/*
 * DecoderUtil
 *
 * Author: Lasse Collin <lasse.collin@tukaani.org>
 *
 * This file has been put into the public domain.
 * You can do whatever you want with this file.
 */
```

Found in path(s):

\* /opt/cola/permits/1021437194\_1611277404.24/0/xz-1-5-sources-jar/org/tukaani/xz/common/DecoderUtil.java

No license file was found, but licenses were detected in source scan.

```
/*
 * FilterEncoder
 *
 * Author: Lasse Collin <lasse.collin@tukaani.org>
 *
 * This file has been put into the public domain.
 * You can do whatever you want with this file.
 */
```

Found in path(s):

\* /opt/cola/permits/1021437194\_1611277404.24/0/xz-1-5-sources-jar/org/tukaani/xz/FilterEncoder.java

No license file was found, but licenses were detected in source scan.

```
/*
 * IA64Options
 *
 * Author: Lasse Collin <lasse.collin@tukaani.org>
 *
 * This file has been put into the public domain.
 * You can do whatever you want with this file.
 */
```

Found in path(s):

\* /opt/cola/permits/1021437194\_1611277404.24/0/xz-1-5-sources-jar/org/tukaani/xz/IA64Options.java

No license file was found, but licenses were detected in source scan.

```
/*
 * SingleXZInputStream
 *
 * Author: Lasse Collin <lasse.collin@tukaani.org>
 *
 * This file has been put into the public domain.
 * You can do whatever you want with this file.
 */
```



\*/

Found in path(s):

\* /opt/cola/permits/1021437194\_1611277404.24/0/xz-1-5-sources-jar/org/tukaani/xz/SingleXZInputStream.java  
No license file was found, but licenses were detected in source scan.

/\*

\* CRC32

\*

\* Author: Lasse Collin <lasse.collin@tukaani.org>

\*

\* This file has been put into the public domain.

\* You can do whatever you want with this file.

\*/

Found in path(s):

\* /opt/cola/permits/1021437194\_1611277404.24/0/xz-1-5-sources-jar/org/tukaani/xz/check/CRC32.java  
No license file was found, but licenses were detected in source scan.

/\*

\* Optimum

\*

\* Authors: Lasse Collin <lasse.collin@tukaani.org>

\* Igor Pavlov <<http://7-zip.org/>>

\*

\* This file has been put into the public domain.

\* You can do whatever you want with this file.

\*/

Found in path(s):

\* /opt/cola/permits/1021437194\_1611277404.24/0/xz-1-5-sources-jar/org/tukaani/xz/lzma/Optimum.java  
No license file was found, but licenses were detected in source scan.

/\*

\* LZMADecoder

\*

\* Authors: Lasse Collin <lasse.collin@tukaani.org>

\* Igor Pavlov <<http://7-zip.org/>>

\*

\* This file has been put into the public domain.

\* You can do whatever you want with this file.

\*/

Found in path(s):

\* /opt/cola/permits/1021437194\_1611277404.24/0/xz-1-5-sources-jar/org/tukaani/xz/lzma/LZMADecoder.java  
No license file was found, but licenses were detected in source scan.

/\*

\* Check  
\*  
\* Author: Lasse Collin <lasse.collin@tukaani.org>  
\*  
\* This file has been put into the public domain.  
\* You can do whatever you want with this file.  
\*/

Found in path(s):

\* /opt/cola/permits/1021437194\_1611277404.24/0/xz-1-5-sources-jar/org/tukaani/xz/check/Check.java  
No license file was found, but licenses were detected in source scan.

/\*  
\* BCJCoder  
\*  
\* Author: Lasse Collin <lasse.collin@tukaani.org>  
\*  
\* This file has been put into the public domain.  
\* You can do whatever you want with this file.  
\*/

Found in path(s):

\* /opt/cola/permits/1021437194\_1611277404.24/0/xz-1-5-sources-jar/org/tukaani/xz/BCJCoder.java  
No license file was found, but licenses were detected in source scan.

/\*  
\* IndexIndicatorException  
\*  
\* Author: Lasse Collin <lasse.collin@tukaani.org>  
\*  
\* This file has been put into the public domain.  
\* You can do whatever you want with this file.  
\*/

Found in path(s):

\* /opt/cola/permits/1021437194\_1611277404.24/0/xz-1-5-sources-jar/org/tukaani/xz/IndexIndicatorException.java  
No license file was found, but licenses were detected in source scan.

/\*  
\* RangeDecoder  
\*  
\* Authors: Lasse Collin <lasse.collin@tukaani.org>  
\* Igor Pavlov <<http://7-zip.org/>>  
\*  
\* This file has been put into the public domain.  
\* You can do whatever you want with this file.  
\*/

Found in path(s):

\* /opt/cola/permits/1021437194\_1611277404.24/0/xz-1-5-sources-jar/org/tukaani/xz/rangecoder/RangeDecoder.java

No license file was found, but licenses were detected in source scan.

/\*

\* SPARCOptions

\*

\* Author: Lasse Collin <lasse.collin@tukaani.org>

\*

\* This file has been put into the public domain.

\* You can do whatever you want with this file.

\*/

Found in path(s):

\* /opt/cola/permits/1021437194\_1611277404.24/0/xz-1-5-sources-jar/org/tukaani/xz/SPARCOptions.java

No license file was found, but licenses were detected in source scan.

/\*

\* BCJ filter for x86 instructions

\*

\* Authors: Lasse Collin <lasse.collin@tukaani.org>

\* Igor Pavlov <<http://7-zip.org/>>

\*

\* This file has been put into the public domain.

\* You can do whatever you want with this file.

\*/

Found in path(s):

\* /opt/cola/permits/1021437194\_1611277404.24/0/xz-1-5-sources-jar/org/tukaani/xz/simple/X86.java

No license file was found, but licenses were detected in source scan.

/\*

\* FilterCoder

\*

\* Author: Lasse Collin <lasse.collin@tukaani.org>

\*

\* This file has been put into the public domain.

\* You can do whatever you want with this file.

\*/

Found in path(s):

\* /opt/cola/permits/1021437194\_1611277404.24/0/xz-1-5-sources-jar/org/tukaani/xz/FilterCoder.java

No license file was found, but licenses were detected in source scan.

/\*

\* IndexDecoder

\*

\* Author: Lasse Collin <lasse.collin@tukaani.org>

\*

\* This file has been put into the public domain.

\* You can do whatever you want with this file.

\*/

Found in path(s):

\* /opt/cola/permits/1021437194\_1611277404.24/0/xz-1-5-sources-jar/org/tukaani/xz/index/IndexDecoder.java

No license file was found, but licenses were detected in source scan.

/\*

\* BlockOutputStream

\*

\* Author: Lasse Collin <lasse.collin@tukaani.org>

\*

\* This file has been put into the public domain.

\* You can do whatever you want with this file.

\*/

Found in path(s):

\* /opt/cola/permits/1021437194\_1611277404.24/0/xz-1-5-sources-jar/org/tukaani/xz/BlockOutputStream.java

No license file was found, but licenses were detected in source scan.

/\*

\* ARMOptions

\*

\* Author: Lasse Collin <lasse.collin@tukaani.org>

\*

\* This file has been put into the public domain.

\* You can do whatever you want with this file.

\*/

Found in path(s):

\* /opt/cola/permits/1021437194\_1611277404.24/0/xz-1-5-sources-jar/org/tukaani/xz/ARMOptions.java

No license file was found, but licenses were detected in source scan.

/\*

\* FinishableOutputStream

\*

\* Author: Lasse Collin <lasse.collin@tukaani.org>

\*

\* This file has been put into the public domain.

\* You can do whatever you want with this file.

\*/

Found in path(s):

\* /opt/cola/permits/1021437194\_1611277404.24/0/xz-1-5-sources-jar/org/tukaani/xz/FinishableOutputStream.java

No license file was found, but licenses were detected in source scan.

```
/*
 * LZMA2OutputStream
 *
 * Authors: Lasse Collin <lasse.collin@tukaani.org>
 * Igor Pavlov <http://7-zip.org/>
 *
 * This file has been put into the public domain.
 * You can do whatever you want with this file.
 */
```

Found in path(s):

`/opt/cola/permits/1021437194_1611277404.24/0/xz-1-5-sources-jar/org/tukaani/xz/LZMA2OutputStream.java`

No license file was found, but licenses were detected in source scan.

```
/*
 * LZEncoder
 *
 * Authors: Lasse Collin <lasse.collin@tukaani.org>
 * Igor Pavlov <http://7-zip.org/>
 *
 * This file has been put into the public domain.
 * You can do whatever you want with this file.
 */
```

Found in path(s):

`/opt/cola/permits/1021437194_1611277404.24/0/xz-1-5-sources-jar/org/tukaani/xz/lz/LZEncoder.java`

No license file was found, but licenses were detected in source scan.

```
/*
 * RangeCoder
 *
 * Authors: Lasse Collin <lasse.collin@tukaani.org>
 * Igor Pavlov <http://7-zip.org/>
 *
 * This file has been put into the public domain.
 * You can do whatever you want with this file.
 */
```

Found in path(s):

`/opt/cola/permits/1021437194_1611277404.24/0/xz-1-5-sources-jar/org/tukaani/xz/rangecoder/RangeCoder.java`

No license file was found, but licenses were detected in source scan.

```
/*
 * LZMA2InputStream
 *
 * Authors: Lasse Collin <lasse.collin@tukaani.org>
```

\* Igor Pavlov <<http://7-zip.org/>>

\*

\* This file has been put into the public domain.

\* You can do whatever you want with this file.

\*/

Found in path(s):

\* /opt/cola/permits/1021437194\_1611277404.24/0/xz-1-5-sources-jar/org/tukaani/xz/LZMA2InputStream.java

No license file was found, but licenses were detected in source scan.

/\*

\* UncompressedLZMA2OutputStream

\*

\* Author: Lasse Collin <[lasse.collin@tukaani.org](mailto:lasse.collin@tukaani.org)>

\*

\* This file has been put into the public domain.

\* You can do whatever you want with this file.

\*/

Found in path(s):

\* /opt/cola/permits/1021437194\_1611277404.24/0/xz-1-5-sources-

jar/org/tukaani/xz/UncompressedLZMA2OutputStream.java

No license file was found, but licenses were detected in source scan.

/\*

\* BCJ filter for SPARC instructions

\*

\* Authors: Lasse Collin <[lasse.collin@tukaani.org](mailto:lasse.collin@tukaani.org)>

\* Igor Pavlov <<http://7-zip.org/>>

\*

\* This file has been put into the public domain.

\* You can do whatever you want with this file.

\*/

Found in path(s):

\* /opt/cola/permits/1021437194\_1611277404.24/0/xz-1-5-sources-jar/org/tukaani/xz/simple/SPARC.java

No license file was found, but licenses were detected in source scan.

/\*

\* IndexHash

\*

\* Author: Lasse Collin <[lasse.collin@tukaani.org](mailto:lasse.collin@tukaani.org)>

\*

\* This file has been put into the public domain.

\* You can do whatever you want with this file.

\*/

Found in path(s):

\* /opt/cola/permits/1021437194\_1611277404.24/0/xz-1-5-sources-jar/org/tukaani/xz/index/IndexHash.java  
No license file was found, but licenses were detected in source scan.

/\*

\* DeltaDecoder

\*

\* Author: Lasse Collin <lasse.collin@tukaani.org>

\*

\* This file has been put into the public domain.

\* You can do whatever you want with this file.

\*/

Found in path(s):

\* /opt/cola/permits/1021437194\_1611277404.24/0/xz-1-5-sources-jar/org/tukaani/xz/DeltaDecoder.java

\* /opt/cola/permits/1021437194\_1611277404.24/0/xz-1-5-sources-jar/org/tukaani/xz/delta/DeltaDecoder.java

No license file was found, but licenses were detected in source scan.

/\*

\* UnsupportedOperationException

\*

\* Author: Lasse Collin <lasse.collin@tukaani.org>

\*

\* This file has been put into the public domain.

\* You can do whatever you want with this file.

\*/

Found in path(s):

\* /opt/cola/permits/1021437194\_1611277404.24/0/xz-1-5-sources-jar/org/tukaani/xz/UnsupportedOperationException.java

No license file was found, but licenses were detected in source scan.

/\*

\* LZMACoder

\*

\* Authors: Lasse Collin <lasse.collin@tukaani.org>

\* Igor Pavlov <<http://7-zip.org/>>

\*

\* This file has been put into the public domain.

\* You can do whatever you want with this file.

\*/

Found in path(s):

\* /opt/cola/permits/1021437194\_1611277404.24/0/xz-1-5-sources-jar/org/tukaani/xz/lzma/LZMACoder.java

No license file was found, but licenses were detected in source scan.

/\*

\* None

\*

\* Author: Lasse Collin <lasse.collin@tukaani.org>

\*

\* This file has been put into the public domain.

\* You can do whatever you want with this file.

\*/

Found in path(s):

\* /opt/cola/permits/1021437194\_1611277404.24/0/xz-1-5-sources-jar/org/tukaani/xz/check/None.java

No license file was found, but licenses were detected in source scan.

/\*

\* XZIOException

\*

\* Author: Lasse Collin <lasse.collin@tukaani.org>

\*

\* This file has been put into the public domain.

\* You can do whatever you want with this file.

\*/

Found in path(s):

\* /opt/cola/permits/1021437194\_1611277404.24/0/xz-1-5-sources-jar/org/tukaani/xz/XZIOException.java

No license file was found, but licenses were detected in source scan.

/\*

\* X86Options

\*

\* Author: Lasse Collin <lasse.collin@tukaani.org>

\*

\* This file has been put into the public domain.

\* You can do whatever you want with this file.

\*/

Found in path(s):

\* /opt/cola/permits/1021437194\_1611277404.24/0/xz-1-5-sources-jar/org/tukaani/xz/X86Options.java

No license file was found, but licenses were detected in source scan.

/\*

\* BlockInputStream

\*

\* Author: Lasse Collin <lasse.collin@tukaani.org>

\*

\* This file has been put into the public domain.

\* You can do whatever you want with this file.

\*/

Found in path(s):

\* /opt/cola/permits/1021437194\_1611277404.24/0/xz-1-5-sources-jar/org/tukaani/xz/BlockInputStream.java



No license file was found, but licenses were detected in source scan.

```
/*
* State
*
* Authors: Lasse Collin <lasse.collin@tukaani.org>
* Igor Pavlov <http://7-zip.org/>
*
* This file has been put into the public domain.
* You can do whatever you want with this file.
*/
```

Found in path(s):

\* /opt/cola/permits/1021437194\_1611277404.24/0/xz-1-5-sources-jar/org/tukaani/xz/lzma/State.java

No license file was found, but licenses were detected in source scan.

```
/*
* BCJEncoder
*
* Author: Lasse Collin <lasse.collin@tukaani.org>
*
* This file has been put into the public domain.
* You can do whatever you want with this file.
*/
```

Found in path(s):

\* /opt/cola/permits/1021437194\_1611277404.24/0/xz-1-5-sources-jar/org/tukaani/xz/BCJEncoder.java

No license file was found, but licenses were detected in source scan.

```
/*
* FilterDecoder
*
* Author: Lasse Collin <lasse.collin@tukaani.org>
*
* This file has been put into the public domain.
* You can do whatever you want with this file.
*/
```

Found in path(s):

\* /opt/cola/permits/1021437194\_1611277404.24/0/xz-1-5-sources-jar/org/tukaani/xz/FilterDecoder.java

No license file was found, but licenses were detected in source scan.

```
/*
* CRC32Hash
*
* Authors: Lasse Collin <lasse.collin@tukaani.org>
* Igor Pavlov <http://7-zip.org/>
*
*
*/
```

\* This file has been put into the public domain.  
\* You can do whatever you want with this file.  
\*/

Found in path(s):

\* /opt/cola/permits/1021437194\_1611277404.24/0/xz-1-5-sources-jar/org/tukaani/xz/lz/CRC32Hash.java  
No license file was found, but licenses were detected in source scan.

/\*

\* 2-, 3-, and 4-byte hashing

\*

\* Authors: Lasse Collin <lasse.collin@tukaani.org>

\* Igor Pavlov <<http://7-zip.org/>>

\*

\* This file has been put into the public domain.

\* You can do whatever you want with this file.

\*/

Found in path(s):

\* /opt/cola/permits/1021437194\_1611277404.24/0/xz-1-5-sources-jar/org/tukaani/xz/lz/Hash234.java  
No license file was found, but licenses were detected in source scan.

/\*

\* XZInputStream

\*

\* Author: Lasse Collin <lasse.collin@tukaani.org>

\*

\* This file has been put into the public domain.

\* You can do whatever you want with this file.

\*/

Found in path(s):

\* /opt/cola/permits/1021437194\_1611277404.24/0/xz-1-5-sources-jar/org/tukaani/xz/XZInputStream.java  
No license file was found, but licenses were detected in source scan.

/\*

\* LZMA2Encoder

\*

\* Author: Lasse Collin <lasse.collin@tukaani.org>

\*

\* This file has been put into the public domain.

\* You can do whatever you want with this file.

\*/

Found in path(s):

\* /opt/cola/permits/1021437194\_1611277404.24/0/xz-1-5-sources-jar/org/tukaani/xz/LZMA2Encoder.java  
No license file was found, but licenses were detected in source scan.

```
/*
 * LZMA2Decoder
 *
 * Author: Lasse Collin <lasse.collin@tukaani.org>
 *
 * This file has been put into the public domain.
 * You can do whatever you want with this file.
 */
```

Found in path(s):

`/opt/cola/permits/1021437194_1611277404.24/0/xz-1-5-sources-jar/org/tukaani/xz/LZMA2Decoder.java`

No license file was found, but licenses were detected in source scan.

```
/*
 * LZMA2Coder
 *
 * Author: Lasse Collin <lasse.collin@tukaani.org>
 *
 * This file has been put into the public domain.
 * You can do whatever you want with this file.
 */
```

Found in path(s):

`/opt/cola/permits/1021437194_1611277404.24/0/xz-1-5-sources-jar/org/tukaani/xz/LZMA2Coder.java`

No license file was found, but licenses were detected in source scan.

```
/*
 * LZMAEncoderFast
 *
 * Authors: Lasse Collin <lasse.collin@tukaani.org>
 * Igor Pavlov <http://7-zip.org/>
 *
 * This file has been put into the public domain.
 * You can do whatever you want with this file.
 */
```

Found in path(s):

`/opt/cola/permits/1021437194_1611277404.24/0/xz-1-5-sources-jar/org/tukaani/xz/lzma/LZMAEncoderFast.java`

No license file was found, but licenses were detected in source scan.

```
/*
 * EncoderUtil
 *
 * Author: Lasse Collin <lasse.collin@tukaani.org>
 *
 * This file has been put into the public domain.
 * You can do whatever you want with this file.
 */
```

Found in path(s):

\* /opt/cola/permits/1021437194\_1611277404.24/0/xz-1-5-sources-jar/org/tukaani/xz/common/EncoderUtil.java

No license file was found, but licenses were detected in source scan.

/\*

\* BCJ filter for little endian ARM instructions

\*

\* Author: Lasse Collin <lasse.collin@tukaani.org>

\*

\* This file has been put into the public domain.

\* You can do whatever you want with this file.

\*/

Found in path(s):

\* /opt/cola/permits/1021437194\_1611277404.24/0/xz-1-5-sources-jar/org/tukaani/xz/simple/SimpleFilter.java

No license file was found, but licenses were detected in source scan.

/\*

\* XZ

\*

\* Author: Lasse Collin <lasse.collin@tukaani.org>

\*

\* This file has been put into the public domain.

\* You can do whatever you want with this file.

\*/

Found in path(s):

\* /opt/cola/permits/1021437194\_1611277404.24/0/xz-1-5-sources-jar/org/tukaani/xz/XZ.java

No license file was found, but licenses were detected in source scan.

/\*

\* DeltaOptions

\*

\* Author: Lasse Collin <lasse.collin@tukaani.org>

\*

\* This file has been put into the public domain.

\* You can do whatever you want with this file.

\*/

Found in path(s):

\* /opt/cola/permits/1021437194\_1611277404.24/0/xz-1-5-sources-jar/org/tukaani/xz/DeltaOptions.java

No license file was found, but licenses were detected in source scan.

/\*

\* SeekableXZInputStream

\*

\* Author: Lasse Collin <lasse.collin@tukaani.org>

\*  
\* This file has been put into the public domain.  
\* You can do whatever you want with this file.  
\*/

Found in path(s):

\* /opt/cola/permits/1021437194\_1611277404.24/0/xz-1-5-sources-jar/org/tukaani/xz/SeekableXZInputStream.java  
No license file was found, but licenses were detected in source scan.

/\*  
\* BCJ filter for little endian ARM-Thumb instructions  
\*  
\* Authors: Lasse Collin <lasse.collin@tukaani.org>  
\* Igor Pavlov <<http://7-zip.org/>>  
\*  
\* This file has been put into the public domain.  
\* You can do whatever you want with this file.  
\*/

Found in path(s):

\* /opt/cola/permits/1021437194\_1611277404.24/0/xz-1-5-sources-jar/org/tukaani/xz/simple/ARMThumb.java  
No license file was found, but licenses were detected in source scan.

/\*  
\* LZMAInputStream  
\*  
\* Authors: Lasse Collin <lasse.collin@tukaani.org>  
\* Igor Pavlov <<http://7-zip.org/>>  
\*  
\* This file has been put into the public domain.  
\* You can do whatever you want with this file.  
\*/

Found in path(s):

\* /opt/cola/permits/1021437194\_1611277404.24/0/xz-1-5-sources-jar/org/tukaani/xz/LZMAInputStream.java  
No license file was found, but licenses were detected in source scan.

/\*  
\* SimpleOutputStream  
\*  
\* Author: Lasse Collin <lasse.collin@tukaani.org>  
\*  
\* This file has been put into the public domain.  
\* You can do whatever you want with this file.  
\*/

Found in path(s):

\* /opt/cola/permits/1021437194\_1611277404.24/0/xz-1-5-sources-jar/org/tukaani/xz/SimpleOutputStream.java

No license file was found, but licenses were detected in source scan.

```
/*
 * LZMA2Options
 *
 * Author: Lasse Collin <lasse.collin@tukaani.org>
 *
 * This file has been put into the public domain.
 * You can do whatever you want with this file.
 */
```

Found in path(s):

```
* /opt/cola/permits/1021437194_1611277404.24/0/xz-1-5-sources-jar/org/tukaani/xz/LZMA2Options.java
No license file was found, but licenses were detected in source scan.
```

```
/*
 * FinishableWrapperOutputStream
 *
 * Author: Lasse Collin <lasse.collin@tukaani.org>
 *
 * This file has been put into the public domain.
 * You can do whatever you want with this file.
 */
```

Found in path(s):

```
* /opt/cola/permits/1021437194_1611277404.24/0/xz-1-5-sources-
jar/org/tukaani/xz/FinishableWrapperOutputStream.java
No license file was found, but licenses were detected in source scan.
```

```
/*
 * IndexEncoder
 *
 * Author: Lasse Collin <lasse.collin@tukaani.org>
 *
 * This file has been put into the public domain.
 * You can do whatever you want with this file.
 */
```

Found in path(s):

```
* /opt/cola/permits/1021437194_1611277404.24/0/xz-1-5-sources-jar/org/tukaani/xz/index/IndexEncoder.java
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```

```
/*
 * BCJDecoder
 *
 * Author: Lasse Collin <lasse.collin@tukaani.org>
 *
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```

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\*/

Found in path(s):

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/\*

\* CountingInputStream

\*

\* Author: Lasse Collin <lasse.collin@tukaani.org>

\*

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/\*

\* Matches

\*

\* Authors: Lasse Collin <lasse.collin@tukaani.org>

\* Igor Pavlov <<http://7-zip.org/>>

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\* /opt/cola/permits/1021437194\_1611277404.24/0/xz-1-5-sources-jar/org/tukaani/xz/lz/Matches.java

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/\*

\* BCJ filter for Itanium (IA-64) instructions

\*

\* Authors: Lasse Collin <lasse.collin@tukaani.org>

\* Igor Pavlov <<http://7-zip.org/>>

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\* /opt/cola/permits/1021437194\_1611277404.24/0/xz-1-5-sources-jar/org/tukaani/xz/simple/IA64.java

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```
/*
 * BCJ filter for big endian PowerPC instructions
 *
 * Authors: Lasse Collin <lasse.collin@tukaani.org>
 * Igor Pavlov <http://7-zip.org/>
 *
 * This file has been put into the public domain.
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 */
```

Found in path(s):

```
*/opt/cola/permits/1021437194_1611277404.24/0/xz-1-5-sources-jar/org/tukaani/xz/simple/PowerPC.java
No license file was found, but licenses were detected in source scan.
```

```
/*
 * LZMAEncoder
 *
 * Authors: Lasse Collin <lasse.collin@tukaani.org>
 * Igor Pavlov <http://7-zip.org/>
 *
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 */
```

Found in path(s):

```
*/opt/cola/permits/1021437194_1611277404.24/0/xz-1-5-sources-jar/org/tukaani/xz/lzma/LZMAEncoder.java
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```

```
/*
 * RawCoder
 *
 * Author: Lasse Collin <lasse.collin@tukaani.org>
 *
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 */
```

Found in path(s):

```
*/opt/cola/permits/1021437194_1611277404.24/0/xz-1-5-sources-jar/org/tukaani/xz/RawCoder.java
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```

```
/*
 * CorruptedInputException
 *
 * Author: Lasse Collin <lasse.collin@tukaani.org>
 *
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```



\*/

Found in path(s):

\* /opt/cola/permits/1021437194\_1611277404.24/0/xz-1-5-sources-jar/org/tukaani/xz/CorruptedInputException.java  
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/\*

\* CountingOutputStream

\*

\* Author: Lasse Collin <lasse.collin@tukaani.org>

\*

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\*/

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/\*

\* RangeEncoder

\*

\* Authors: Lasse Collin <lasse.collin@tukaani.org>

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Found in path(s):

\* /opt/cola/permits/1021437194\_1611277404.24/0/xz-1-5-sources-jar/org/tukaani/xz/rangecoder/RangeEncoder.java  
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/\*

\* ARMThumbOptions

\*

\* Author: Lasse Collin <lasse.collin@tukaani.org>

\*

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/\*

\* SHA256

\*  
\* Author: Lasse Collin <lasse.collin@tukaani.org>  
\*  
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\*/

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\* /opt/cola/permits/1021437194\_1611277404.24/0/xz-1-5-sources-jar/org/tukaani/xz/check/SHA256.java  
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/\*  
\* CRC64  
\*  
\* Author: Lasse Collin <lasse.collin@tukaani.org>  
\*  
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Found in path(s):

\* /opt/cola/permits/1021437194\_1611277404.24/0/xz-1-5-sources-jar/org/tukaani/xz/check/CRC64.java  
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/\*  
\* SeekableInputStream  
\*  
\* Author: Lasse Collin <lasse.collin@tukaani.org>  
\*  
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\*/

Found in path(s):

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/\*  
\* Binary Tree match finder with 2-, 3-, and 4-byte hashing  
\*  
\* Authors: Lasse Collin <lasse.collin@tukaani.org>  
\* Igor Pavlov <<http://7-zip.org/>>  
\*  
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/\*

\* RangeDecoderFromStream

\*

\* Authors: Lasse Collin <lasse.collin@tukaani.org>

\* Igor Pavlov <<http://7-zip.org/>>

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Found in path(s):

\* /opt/cola/permits/1021437194\_1611277404.24/0/xz-1-5-sources-

jar/org/tukaani/xz/rangecoder/RangeDecoderFromStream.java

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/\*

\* StreamFlags

\*

\* Author: Lasse Collin <lasse.collin@tukaani.org>

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\* DeltaEncoder

\*

\* Author: Lasse Collin <lasse.collin@tukaani.org>

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Found in path(s):

\* /opt/cola/permits/1021437194\_1611277404.24/0/xz-1-5-sources-jar/org/tukaani/xz/DeltaEncoder.java

\* /opt/cola/permits/1021437194\_1611277404.24/0/xz-1-5-sources-jar/org/tukaani/xz/delta/DeltaEncoder.java

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/\*

\* BCJ filter for little endian ARM instructions

\*

\* Authors: Lasse Collin <lasse.collin@tukaani.org>  
\* Igor Pavlov <<http://7-zip.org/>>  
\*  
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Found in path(s):

\* /opt/cola/permits/1021437194\_1611277404.24/0/xz-1-5-sources-jar/org/tukaani/xz/simple/ARM.java

## 1.152 htmlunit-driver 2.24

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```

Found in path(s):

\* /opt/cola/permits/1685982181\_1684869185.148917/0/htmlunit-driver-2-24-sources-jar/org/openqa/selenium/htmlunit/HtmlUnitKeyboard.java  
\* /opt/cola/permits/1685982181\_1684869185.148917/0/htmlunit-driver-2-24-sources-jar/org/openqa/selenium/htmlunit/HtmlUnitDriver.java  
\* /opt/cola/permits/1685982181\_1684869185.148917/0/htmlunit-driver-2-24-sources-jar/org/openqa/selenium/htmlunit/HtmlUnitKeyboardMapping.java  
\* /opt/cola/permits/1685982181\_1684869185.148917/0/htmlunit-driver-2-24-sources-jar/org/openqa/selenium/htmlunit/HtmlUnitWebElement.java  
\* /opt/cola/permits/1685982181\_1684869185.148917/0/htmlunit-driver-2-24-sources-jar/org/openqa/selenium/htmlunit/AsyncScriptExecutor.java  
\* /opt/cola/permits/1685982181\_1684869185.148917/0/htmlunit-driver-2-24-sources-jar/org/openqa/selenium/htmlunit/HtmlSerializer.java  
\* /opt/cola/permits/1685982181\_1684869185.148917/0/htmlunit-driver-2-24-sources-jar/org/openqa/selenium/htmlunit/HtmlUnitAlert.java  
\* /opt/cola/permits/1685982181\_1684869185.148917/0/htmlunit-driver-2-24-sources-jar/org/openqa/selenium/htmlunit/KeyboardModifiersState.java  
\* /opt/cola/permits/1685982181\_1684869185.148917/0/htmlunit-driver-2-24-sources-jar/org/openqa/selenium/htmlunit/HtmlUnitMouse.java  
\* /opt/cola/permits/1685982181\_1684869185.148917/0/htmlunit-driver-2-24-sources-jar/org/openqa/selenium/htmlunit/InputKeysContainer.java

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# 1.155 apache-xerces2-j 2.11.0

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\* /opt/cola/permits/1000067752\_1649800830.18/0/xercesimpl-2-11-0-sources-1-  
jar/org/apache/xerces/dom3/as/ASEntityDeclaration.java  
\* /opt/cola/permits/1000067752\_1649800830.18/0/xercesimpl-2-11-0-sources-1-  
jar/org/apache/xerces/dom3/as/ASObject.java  
\* /opt/cola/permits/1000067752\_1649800830.18/0/xercesimpl-2-11-0-sources-1-  
jar/org/apache/xerces/dom3/as/ASNamedObjectMap.java  
\* /opt/cola/permits/1000067752\_1649800830.18/0/xercesimpl-2-11-0-sources-1-  
jar/org/apache/xerces/dom3/as/ASAttributeDeclaration.java  
\* /opt/cola/permits/1000067752\_1649800830.18/0/xercesimpl-2-11-0-sources-1-  
jar/org/apache/xerces/dom3/as/DocumentAS.java  
\* /opt/cola/permits/1000067752\_1649800830.18/0/xercesimpl-2-11-0-sources-1-  
jar/org/apache/xerces/dom3/as/DOMImplementationAS.java  
\* /opt/cola/permits/1000067752\_1649800830.18/0/xercesimpl-2-11-0-sources-1-  
jar/org/apache/xerces/dom3/as/NodeEditAS.java  
\* /opt/cola/permits/1000067752\_1649800830.18/0/xercesimpl-2-11-0-sources-1-



jar/org/apache/xerces/dom3/as/ElementEditAS.java  
\* /opt/cola/permits/1000067752\_1649800830.18/0/xercesimpl-2-11-0-sources-1-  
jar/org/apache/xerces/dom3/as/ASDataType.java  
\* /opt/cola/permits/1000067752\_1649800830.18/0/xercesimpl-2-11-0-sources-1-  
jar/org/apache/xerces/dom3/as/ASElementDeclaration.java  
\* /opt/cola/permits/1000067752\_1649800830.18/0/xercesimpl-2-11-0-sources-1-  
jar/org/apache/xerces/dom3/as/ASNotationDeclaration.java  
\* /opt/cola/permits/1000067752\_1649800830.18/0/xercesimpl-2-11-0-sources-1-  
jar/org/apache/xerces/dom3/as/CharacterDataEditAS.java  
\* /opt/cola/permits/1000067752\_1649800830.18/0/xercesimpl-2-11-0-sources-1-  
jar/org/apache/xerces/dom3/as/ASModel.java  
\* /opt/cola/permits/1000067752\_1649800830.18/0/xercesimpl-2-11-0-sources-1-  
jar/org/apache/xerces/dom3/as/ASObjectList.java  
\* /opt/cola/permits/1000067752\_1649800830.18/0/xercesimpl-2-11-0-sources-1-  
jar/org/apache/xerces/dom3/as/DOMASBuilder.java  
\* /opt/cola/permits/1000067752\_1649800830.18/0/xercesimpl-2-11-0-sources-1-  
jar/org/apache/xerces/dom3/as/ASContentModel.java  
\* /opt/cola/permits/1000067752\_1649800830.18/0/xercesimpl-2-11-0-sources-1-  
jar/org/apache/xerces/dom3/as/DOMASException.java  
\* /opt/cola/permits/1000067752\_1649800830.18/0/xercesimpl-2-11-0-sources-1-  
jar/org/apache/xerces/dom3/as/DOMASWriter.java  
\* /opt/cola/permits/1000067752\_1649800830.18/0/xercesimpl-2-11-0-sources-1-  
jar/org/apache/xerces/dom3/as/DocumentEditAS.java  
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jar/org/apache/xerces/dom/DOMImplementationListImpl.java  
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/\*\*

\* Checks if this content model has had its min/maxOccurs values reduced for  
\* purposes of speeding up UPA. If so, this content model should not be used  
\* for any purpose other than checking unique particle attribution

\*

\* @return a boolean that says whether this content has been compacted for UPA

\*/

Found in path(s):

\* /opt/cola/permits/1000067752\_1649800830.18/0/xercesimpl-2-11-0-sources-1-jar/org/apache/xerces/impl/xs/models/XSCMValidator.java

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\* /opt/cola/permits/1000067752\_1649800830.18/0/xercesimpl-2-11-0-sources-1-jar/org/apache/xerces/impl/dv/xs/DateDV.java  
\* /opt/cola/permits/1000067752\_1649800830.18/0/xercesimpl-2-11-0-sources-1-jar/org/apache/xerces/impl/dv/xs/DateTimeDV.java  
\* /opt/cola/permits/1000067752\_1649800830.18/0/xercesimpl-2-11-0-sources-1-jar/org/apache/xerces/impl/dv/xs/MonthDV.java  
\* /opt/cola/permits/1000067752\_1649800830.18/0/xercesimpl-2-11-0-sources-1-jar/org/apache/xerces/impl/xs/traversers/XSDHandler.java  
\* /opt/cola/permits/1000067752\_1649800830.18/0/xercesimpl-2-11-0-sources-1-jar/org/apache/xerces/impl/xs/traversers/XSAttributeChecker.java  
\* /opt/cola/permits/1000067752\_1649800830.18/0/xercesimpl-2-11-0-sources-1-jar/org/apache/xerces/impl/dv/xs/YearMonthDV.java  
\* /opt/cola/permits/1000067752\_1649800830.18/0/xercesimpl-2-11-0-sources-1-jar/org/apache/xerces/impl/dv/xs/XSSimpleTypeDecl.java  
\* /opt/cola/permits/1000067752\_1649800830.18/0/xercesimpl-2-11-0-sources-1-jar/org/apache/xerces/impl/dv/xs/DayDV.java  
\* /opt/cola/permits/1000067752\_1649800830.18/0/xercesimpl-2-11-0-sources-1-jar/org/apache/xerces/impl/xs/traversers/XSDUniqueOrKeyTraverser.java  
\* /opt/cola/permits/1000067752\_1649800830.18/0/xercesimpl-2-11-0-sources-1-jar/org/apache/xerces/impl/dv/xs/MonthDayDV.java  
\* /opt/cola/permits/1000067752\_1649800830.18/0/xercesimpl-2-11-0-sources-1-jar/org/apache/xerces/impl/xs/XMLSchemaValidator.java  
\* /opt/cola/permits/1000067752\_1649800830.18/0/xercesimpl-2-11-0-sources-1-jar/org/apache/xerces/impl/dv/xs/DurationDV.java  
\* /opt/cola/permits/1000067752\_1649800830.18/0/xercesimpl-2-11-0-sources-1-jar/org/apache/xerces/impl/dv/xs/AbstractDateTimeDV.java  
\* /opt/cola/permits/1000067752\_1649800830.18/0/xercesimpl-2-11-0-sources-1-jar/org/apache/xerces/impl/xs/traversers/XSDKeyrefTraverser.java

```
* /opt/cola/permits/1000067752_1649800830.18/0/xercesimpl-2-11-0-sources-1-
jar/org/apache/xerces/impl/dv/xs/TimeDV.java
* /opt/cola/permits/1000067752_1649800830.18/0/xercesimpl-2-11-0-sources-1-
jar/org/apache/xerces/impl/dv/xs/YearDV.java
* /opt/cola/permits/1000067752_1649800830.18/0/xercesimpl-2-11-0-sources-1-
jar/org/apache/xerces/impl/xs/XSModelGroupImpl.java
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* /opt/cola/permits/1000067752_1649800830.18/0/xercesimpl-2-11-0-sources-1-
jar/org/apache/xerces/impl/xs/models/XSDFACM.java
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/**
```

- \* DOM Level 3 LS CR - Experimental.
- \* Create a new `LSParser`. The newly constructed parser may
- \* then be configured by means of its `DOMConfiguration`
- \* object, and used to parse documents by means of its `parse`
- \* method.
- \* @param mode The `mode` argument is either
- \* `MODE_SYNCHRONOUS` or `MODE_ASYNCHRONOUS`, if
- \* `mode` is `MODE_SYNCHRONOUS` then the
- \* `LSParser` that is created will operate in synchronous
- \* mode, if it's `MODE_ASYNCHRONOUS` then the
- \* `LSParser` that is created will operate in asynchronous
- \* mode.
- \* @param schemaType An absolute URI representing the type of the schema
- \* language used during the load of a `Document` using the
- \* newly created `LSParser`. Note that no lexical checking
- \* is done on the absolute URI. In order to create a
- \* `LSParser` for any kind of schema types (i.e. the
- \* `LSParser` will be free to use any schema found), use the value
- \* `null`.
- \* 

**Note:** For W3C XML Schema [[XML Schema Part 1](http://www.w3.org/TR/2001/REC-xmlschema-1-20010502/)]
- \* , applications must use the value
- \* `"http://www.w3.org/2001/XMLSchema"`. For XML DTD [[XML 1.0](http://www.w3.org/TR/2000/REC-xml-20001006/)],
- \* applications must use the value
- \* `"http://www.w3.org/TR/REC-xml"`. Other Schema languages
- \* are outside the scope of the W3C and therefore should recommend an
- \* absolute URI in order to use this method.
- \* @return The newly created `LSParser` object. This
- \* `LSParser` is either synchronous or asynchronous
- \* depending on the value of the `mode` argument.
- \* 

**Note:** By default, the newly created `LSParser`
- \* does not contain a `DOMErrorHandler`, i.e. the value of
- \* the "[parameter-error-handler](http://www.w3.org/TR/2003/WD-DOM-Level-3-Core-20030609/core.html#parameter-error-handler)
- \* `error-handler`" configuration parameter is `null`. However, implementations
- \* may provide a default error handler at creation time. In that case,
- \* the initial value of the `"error-handler"` configuration
- \* parameter on the new created `LSParser` contains a
- \* reference to the default error handler.
- \* @exception DOMException
- \* NOT\_SUPPORTED\_ERR: Raised if the requested mode or schema type is
- \* not supported.
- \*/

Found in path(s):

- \* /opt/cola/permits/1000067752\_1649800830.18/0/xercesimpl-2-11-0-sources-1-jar/org/apache/xerces/dom/CoreDOMImplementationImpl.java

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\* /opt/cola/permits/1000067752\_1649800830.18/0/xercesimpl-2-11-0-sources-1-  
jar/org/w3c/dom/html/HTMLDOMImplementation.java

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\* /opt/cola/permits/1000067752\_1649800830.18/0/xercesimpl-2-11-0-sources-1-  
jar/org/apache/xerces/impl/validation/ValidationManager.java  
\* /opt/cola/permits/1000067752\_1649800830.18/0/xercesimpl-2-11-0-sources-1-  
jar/org/apache/xerces/impl/xs/traversers/XSDGroupTraverser.java  
\* /opt/cola/permits/1000067752\_1649800830.18/0/xercesimpl-2-11-0-sources-1-  
jar/org/apache/xerces/impl/io/ASCIIReader.java  
\* /opt/cola/permits/1000067752\_1649800830.18/0/xercesimpl-2-11-0-sources-1-  
jar/org/apache/xerces/dom/DeferredCDATASectionImpl.java  
\* /opt/cola/permits/1000067752\_1649800830.18/0/xercesimpl-2-11-0-sources-1-  
jar/org/apache/xerces/util/XML11Char.java  
\* /opt/cola/permits/1000067752\_1649800830.18/0/xercesimpl-2-11-0-sources-1-

jar/org/apache/xerces/dom/SecuritySupport.java  
\* /opt/cola/permits/1000067752\_1649800830.18/0/xercesimpl-2-11-0-sources-1-  
jar/org/apache/xerces/impl/xs/opti/TextImpl.java  
\* /opt/cola/permits/1000067752\_1649800830.18/0/xercesimpl-2-11-0-sources-1-  
jar/org/apache/wml/dom/WMLPostfieldElementImpl.java  
\* /opt/cola/permits/1000067752\_1649800830.18/0/xercesimpl-2-11-0-sources-1-  
jar/org/apache/wml/WMLOptgroupElement.java  
\* /opt/cola/permits/1000067752\_1649800830.18/0/xercesimpl-2-11-0-sources-1-  
jar/org/apache/wml/WMLNoopElement.java  
\* /opt/cola/permits/1000067752\_1649800830.18/0/xercesimpl-2-11-0-sources-1-  
jar/org/apache/xerces/jaxp/validation/XMLSchemaFactory.java  
\* /opt/cola/permits/1000067752\_1649800830.18/0/xercesimpl-2-11-0-sources-1-  
jar/org/apache/xerces/impl/dv/dtd/StringDatatypeValidator.java  
\* /opt/cola/permits/1000067752\_1649800830.18/0/xercesimpl-2-11-0-sources-1-  
jar/org/apache/xerces/util/SymbolTable.java  
\* /opt/cola/permits/1000067752\_1649800830.18/0/xercesimpl-2-11-0-sources-1-  
jar/org/apache/xerces/jaxp/validation/StAXValidatorHelper.java  
\* /opt/cola/permits/1000067752\_1649800830.18/0/xercesimpl-2-11-0-sources-1-  
jar/org/apache/xerces/impl/dv/xs/UnionDV.java  
\* /opt/cola/permits/1000067752\_1649800830.18/0/xercesimpl-2-11-0-sources-1-  
jar/org/apache/xerces/dom/DocumentTypeImpl.java  
\* /opt/cola/permits/1000067752\_1649800830.18/0/xercesimpl-2-11-0-sources-1-  
jar/org/apache/xerces/parsers/ObjectFactory.java  
\* /opt/cola/permits/1000067752\_1649800830.18/0/xercesimpl-2-11-0-sources-1-  
jar/org/apache/wml/WMLDoElement.java  
\* /opt/cola/permits/1000067752\_1649800830.18/0/xercesimpl-2-11-0-sources-1-  
jar/org/apache/xerces/impl/xs/PSVLErrorList.java  
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\* /opt/cola/permits/1000067752\_1649800830.18/0/xercesimpl-2-11-0-sources-1-  
jar/org/apache/xerces/impl/dv/xs/AnyURIDV.java  
\* /opt/cola/permits/1000067752\_1649800830.18/0/xercesimpl-2-11-0-sources-1-

jar/org/apache/xerces/impl/xs/SchemaGrammar.java  
\* /opt/cola/permits/1000067752\_1649800830.18/0/xercesimpl-2-11-0-sources-1-  
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\* /opt/cola/permits/1000067752\_1649800830.18/0/xercesimpl-2-11-0-sources-1-  
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\* /opt/cola/permits/1000067752\_1649800830.18/0/xercesimpl-2-11-0-sources-1-  
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\* /opt/cola/permits/1000067752\_1649800830.18/0/xercesimpl-2-11-0-sources-1-jar/org/apache/xerces/util/DOMUtil.java

\* /opt/cola/permits/1000067752\_1649800830.18/0/xercesimpl-2-11-0-sources-1-jar/org/apache/html/dom/HTMLDocumentImpl.java

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\* /opt/cola/permits/1000067752\_1649800830.18/0/xercesimpl-2-11-0-sources-1-jar/org/apache/xerces/xni/QName.java

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*/
/**
* used to check the 3 constraints against each complex type
* (should be each model group):
* Unique Particle Attribution, Particle Derivation (Restriction),
* Element Declarations Consistent.
*/
```

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```

# 1.156 angular-seed 0.0.0

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## 1.157 auto-common-libraries 0.10

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-->

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\* /opt/cola/permits/1685982223\_1684882176.140761/0/auto-common-0-10-jar/META-INF/maven/com.google.auto/auto-common/pom.xml

## 1.158 jackson-databind 2.3.3

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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007.  
It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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## 1.159 args4j 2.33

## 1.160 parboiled 2.1.0

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- \*/

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- \* /opt/cola/permits/1685982403\_1684947068.8871937/0/parboiled-2-11-2-1-0-sources-jar/org/parboiled2/StringBuilding.scala
- \* /opt/cola/permits/1685982403\_1684947068.8871937/0/parboiled-2-11-2-1-0-sources-jar/org/parboiled2/support/HListable.scala
- \* /opt/cola/permits/1685982403\_1684947068.8871937/0/parboiled-2-11-2-1-0-sources-jar/org/parboiled2/Parser.scala
- \* /opt/cola/permits/1685982403\_1684947068.8871937/0/parboiled-2-11-2-1-0-sources-jar/org/parboiled2/ErrorFormatter.scala
- \* /opt/cola/permits/1685982403\_1684947068.8871937/0/parboiled-2-11-2-1-0-sources-jar/org/parboiled2/CharUtils.scala
- \* /opt/cola/permits/1685982403\_1684947068.8871937/0/parboiled-2-11-2-1-0-sources-jar/org/parboiled2/support/OpTreeContext.scala
- \* /opt/cola/permits/1685982403\_1684947068.8871937/0/parboiled-2-11-2-1-0-sources-jar/org/parboiled2/ParseError.scala
- \* /opt/cola/permits/1685982403\_1684947068.8871937/0/parboiled-2-11-2-1-0-sources-jar/org/parboiled2/CharPredicate.scala
- \* /opt/cola/permits/1685982403\_1684947068.8871937/0/parboiled-2-11-2-1-0-sources-jar/org/parboiled2/RuleDSLCombinators.scala
- \* /opt/cola/permits/1685982403\_1684947068.8871937/0/parboiled-2-11-2-1-0-sources-jar/org/parboiled2/Rule.scala
- \* /opt/cola/permits/1685982403\_1684947068.8871937/0/parboiled-2-11-2-1-0-sources-jar/org/parboiled2/support/TailSwitch.scala
- \* /opt/cola/permits/1685982403\_1684947068.8871937/0/parboiled-2-11-2-1-0-sources-jar/org/parboiled2/support/RunResult.scala
- \* /opt/cola/permits/1685982403\_1684947068.8871937/0/parboiled-2-11-2-1-0-sources-jar/org/parboiled2/ValueStack.scala
- \* /opt/cola/permits/1685982403\_1684947068.8871937/0/parboiled-2-11-2-1-0-sources-jar/org/parboiled2/support/package.scala
- \* /opt/cola/permits/1685982403\_1684947068.8871937/0/parboiled-2-11-2-1-0-sources-jar/org/parboiled2/ParserInput.scala
- \* /opt/cola/permits/1685982403\_1684947068.8871937/0/parboiled-2-11-2-1-0-sources-jar/org/parboiled2/RuleDSLActions.scala
- \* /opt/cola/permits/1685982403\_1684947068.8871937/0/parboiled-2-11-2-1-0-sources-jar/org/parboiled2/DynamicRuleDispatch.scala
- \* /opt/cola/permits/1685982403\_1684947068.8871937/0/parboiled-2-11-2-1-0-sources-jar/org/parboiled2/support/Lifter.scala
- \* /opt/cola/permits/1685982403\_1684947068.8871937/0/parboiled-2-11-2-1-0-sources-jar/org/parboiled2/RuleDSLBasics.scala

```
* /opt/cola/permits/1685982403_1684947068.8871937/0/parboiled-2-11-2-1-0-sources-
jar/org/parboiled2/support/ActionOpsSupport.scala
* /opt/cola/permits/1685982403_1684947068.8871937/0/parboiled-2-11-2-1-0-sources-
jar/org/parboiled2/package.scala
* /opt/cola/permits/1685982403_1684947068.8871937/0/parboiled-2-11-2-1-0-sources-
jar/org/parboiled2/Base64Parsing.scala
* /opt/cola/permits/1685982403_1684947068.8871937/0/parboiled-2-11-2-1-0-sources-
jar/org/parboiled2/support/Unpack.scala
```

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```
/**
```

```
* A very fast and memory efficient class to encode and decode to and from BASE64 in full accordance
* with RFC 2045.

* On Windows XP sp1 with 1.4.2_04 and later ;), this encoder and decoder is about 10 times faster
* on small arrays (10 - 1000 bytes) and 2-3 times as fast on larger arrays (10000 - 1000000 bytes)
* compared to <code>sun.misc.Encoder()/Decoder()</code>.

*
* On byte arrays the encoder is about 20% faster than Jakarta Commons Base64 Codec for encode and
* about 50% faster for decoding large arrays. This implementation is about twice as fast on very small
* arrays (< 30 bytes). If source/destination is a <code>String</code> this
* version is about three times as fast due to the fact that the Commons Codec result has to be recoded
* to a <code>String</code> from <code>byte[]</code>, which is very expensive.

*
* This encode/decode algorithm doesn't create any temporary arrays as many other codecs do, it only
* allocates the resulting array. This produces less garbage and it is possible to handle arrays twice
* as large as algorithms that create a temporary array. (E.g. Jakarta Commons Codec). It is unknown
* whether Sun's <code>sun.misc.Encoder()/Decoder()</code> produce temporary arrays but since performance
* is quite low it probably does.

*
* The encoder produces the same output as the Sun one except that the Sun's encoder appends
* a trailing line separator if the last character isn't a pad. Unclear why but it only adds to the
* length and is probably a side effect. Both are in conformance with RFC 2045 though.

* Commons codec seem to always att a trailing line separator.

*
* Note!
*
* The encode/decode method pairs (types) come in three versions with the exact same algorithm and
* thus a lot of code redundancy. This is to not create any temporary arrays for transcoding to/from different
* format types. The methods not used can simply be commented out.

*
* There is also a "fast" version of all decode methods that works the same way as the normal ones, but
* har a few demands on the decoded input. Normally though, these fast verions should be used if the source if
* the input is known and it hasn't bee tampered with.

*
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*
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* =====
*
```

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\*  
\* @version 2.2  
\* @author Mikael Grev  
\*     Date: 2004-aug-02  
\*     Time: 11:31:11  
\*  
\* Adapted in 2009 by Mathias Doenitz.  
\*/

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\* /opt/cola/permits/1685982403\_1684947068.8871937/0/parboiled-2-11-2-1-0-sources-  
jar/org/parboiled2/util/Base64.java

## 1.161 findbugs-annotations 3.0.0



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/\*

\* FindBugs - Find bugs in Java programs

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Ty Coon, President of Vice

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# 1.162 apache-common-codec 1.10

## 1.162.1 Available under license :

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 */
/**
 * SHA2-based Unix crypt implementation.
 * <p>
 * Based on the C implementation released into the Public Domain by Ulrich Drepper <drepper@redhat.com>
 * http://www.akkadia.org/drepper/SHA-crypt.txt
 * <p>
 * Conversion to Kotlin and from there to Java in 2012 by Christian Hammers <ch@lathspell.de> and likewise
 put
 * into the Public Domain.
 * <p>
 * This class is immutable and thread-safe.
 *
 * @version $Id: Sha2Crypt.java 1619948 2014-08-22 22:53:55Z ggregory $
 * @since 1.7
 */
```

Found in path(s):

\* /opt/cola/permits/1530515190\_1673519223.8258314/0/nikitakraev-apache-common-codec-1-10-0-g84dd72c-1-tar-gz/nikitakraev-apache-common-codec-  
caa8093/apache/src/main/java/apache/commons/codec/digest/Sha2Crypt.java  
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\*/

/\*\*

\* The libc crypt() "\$1\$" and Apache "\$apr1\$" MD5-based hash algorithm.  
\* <p>  
\* Based on the public domain ("beer-ware") C implementation from Poul-Henning Kamp which was found at: <a  
\* href="http://www.freebsd.org/cgi/cvsweb.cgi/src/lib/libcrypt/crypt-md5.c?rev=1.1;content-type=text%2Fplain">  
\* crypt-md5.c @ freebsd.org</a><br>  
\* <p>  
\* Source:  
\*  
\* <pre>  
\* \$FreeBSD: src/lib/libcrypt/crypt-md5.c,v 1.1 1999/01/21 13:50:09 brandon Exp \$  
\* </pre>  
\* <p>  
\* Conversion to Kotlin and from there to Java in 2012.  
\* <p>  
\* The C style comments are from the original C code, the ones with "/\*" from the port.  
\* <p>  
\* This class is immutable and thread-safe.  
\*  
\* @version \$Id: Md5Crypt.java 1563226 2014-01-31 19:38:06Z ggregory \$  
\* @since 1.7  
\*/

Found in path(s):

\* /opt/cola/permits/1530515190\_1673519223.8258314/0/nikitakraev-apache-common-codec-1-10-0-g84dd72c-1-

tar-gz/nikitakraev-apache-common-codec-  
caa8093/apache/src/main/java/apache/commons/codec/digest/Md5Crypt.java  
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*/
```

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```
* /opt/cola/permits/1530515190_1673519223.8258314/0/nikitakraev-apache-common-codec-1-10-0-g84dd72c-1-tar-gz/nikitakraev-apache-common-codec-caa8093/apache/src/main/java/apache/commons/codec/binary/Hex.java
* /opt/cola/permits/1530515190_1673519223.8258314/0/nikitakraev-apache-common-codec-1-10-0-g84dd72c-1-tar-gz/nikitakraev-apache-common-codec-caa8093/apache/src/main/java/apache/commons/codec/DecoderException.java
* /opt/cola/permits/1530515190_1673519223.8258314/0/nikitakraev-apache-common-codec-1-10-0-g84dd72c-1-tar-gz/nikitakraev-apache-common-codec-caa8093/apache/src/main/java/apache/commons/codec/language/bm/RuleType.java
* /opt/cola/permits/1530515190_1673519223.8258314/0/nikitakraev-apache-common-codec-1-10-0-g84dd72c-1-tar-gz/nikitakraev-apache-common-codec-caa8093/apache/src/main/java/apache/commons/codec/language/DaitchMokotoffSoundex.java
* /opt/cola/permits/1530515190_1673519223.8258314/0/nikitakraev-apache-common-codec-1-10-0-g84dd72c-1-tar-gz/nikitakraev-apache-common-codec-caa8093/apache/src/main/java/apache/commons/codec/language/Caverphone1.java
* /opt/cola/permits/1530515190_1673519223.8258314/0/nikitakraev-apache-common-codec-1-10-0-g84dd72c-1-tar-gz/nikitakraev-apache-common-codec-caa8093/apache/src/main/java/apache/commons/codec/language/DoubleMetaphone.java
* /opt/cola/permits/1530515190_1673519223.8258314/0/nikitakraev-apache-common-codec-1-10-0-g84dd72c-1-tar-gz/nikitakraev-apache-common-codec-caa8093/apache/src/main/java/apache/commons/codec/language/bm/NameType.java
* /opt/cola/permits/1530515190_1673519223.8258314/0/nikitakraev-apache-common-codec-1-10-0-g84dd72c-1-tar-gz/nikitakraev-apache-common-codec-caa8093/apache/src/main/java/apache/commons/codec/BinaryEncoder.java
* /opt/cola/permits/1530515190_1673519223.8258314/0/nikitakraev-apache-common-codec-1-10-0-g84dd72c-1-tar-gz/nikitakraev-apache-common-codec-caa8093/apache/src/main/java/apache/commons/codec/net/BCodec.java
* /opt/cola/permits/1530515190_1673519223.8258314/0/nikitakraev-apache-common-codec-1-10-0-g84dd72c-1-
```

tar-gz/nikitakraev-apache-common-codec-  
caa8093/apache/src/main/java/apache/commons/codec/language/ColognePhonetic.java  
\* /opt/cola/permits/1530515190\_1673519223.8258314/0/nikitakraev-apache-common-codec-1-10-0-g84dd72c-1-  
tar-gz/nikitakraev-apache-common-codec-  
caa8093/apache/src/main/java/apache/commons/codec/language/bm/PhoneticEngine.java  
\* /opt/cola/permits/1530515190\_1673519223.8258314/0/nikitakraev-apache-common-codec-1-10-0-g84dd72c-1-  
tar-gz/nikitakraev-apache-common-codec-  
caa8093/apache/src/main/java/apache/commons/codec/net/QCodec.java  
\* /opt/cola/permits/1530515190\_1673519223.8258314/0/nikitakraev-apache-common-codec-1-10-0-g84dd72c-1-  
tar-gz/nikitakraev-apache-common-codec-  
caa8093/apache/src/main/java/apache/commons/codec/Decoder.java  
\* /opt/cola/permits/1530515190\_1673519223.8258314/0/nikitakraev-apache-common-codec-1-10-0-g84dd72c-1-  
tar-gz/nikitakraev-apache-common-codec-  
caa8093/apache/src/main/java/apache/commons/codec/EncoderException.java  
\* /opt/cola/permits/1530515190\_1673519223.8258314/0/nikitakraev-apache-common-codec-1-10-0-g84dd72c-1-  
tar-gz/nikitakraev-apache-common-codec-  
caa8093/apache/src/main/java/apache/commons/codec/binary/Base64OutputStream.java  
\* /opt/cola/permits/1530515190\_1673519223.8258314/0/nikitakraev-apache-common-codec-1-10-0-g84dd72c-1-  
tar-gz/nikitakraev-apache-common-codec-  
caa8093/apache/src/main/java/apache/commons/codec/language/bm/ResourceConstants.java  
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caa8093/apache/src/main/java/apache/commons/codec/net/Utils.java  
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caa8093/apache/src/main/java/apache/commons/codec/digest/B64.java  
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caa8093/apache/src/main/java/apache/commons/codec/StringDecoder.java  
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caa8093/apache/src/main/java/apache/commons/codec/StringEncoder.java  
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tar-gz/nikitakraev-apache-common-codec-  
caa8093/apache/src/main/java/apache/commons/codec/digest/HmacAlgorithms.java  
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caa8093/apache/src/main/java/apache/commons/codec/digest/UnixCrypt.java  
\* /opt/cola/permits/1530515190\_1673519223.8258314/0/nikitakraev-apache-common-codec-1-10-0-g84dd72c-1-  
tar-gz/nikitakraev-apache-common-codec-  
caa8093/apache/src/main/java/apache/commons/codec/binary/BaseNCodecOutputStream.java  
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caa8093/apache/src/main/java/apache/commons/codec/net/RFC1522Codec.java  
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caa8093/apache/src/main/java/apache/commons/codec/binary/Base64InputStream.java

\* /opt/cola/permits/1530515190\_1673519223.8258314/0/nikitakraev-apache-common-codec-1-10-0-g84dd72c-1-tar-gz/nikitakraev-apache-common-codec-kaa8093/apache/src/main/java/apache/commons/codec/digest/Crypt.java

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\* /opt/cola/permits/1530515190\_1673519223.8258314/0/nikitakraev-apache-common-codec-1-10-0-g84dd72c-1-tar-gz/nikitakraev-apache-common-codec-kaa8093/apache/src/main/java/apache/commons/codec/digest/HmacUtils.java

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\* /opt/cola/permits/1530515190\_1673519223.8258314/0/nikitakraev-apache-common-codec-1-10-0-g84dd72c-1-tar-gz/nikitakraev-apache-common-codec-kaa8093/apache/src/main/java/apache/commons/codec/language/MatchRatingApproachEncoder.java

\* /opt/cola/permits/1530515190\_1673519223.8258314/0/nikitakraev-apache-common-codec-1-10-0-g84dd72c-1-tar-gz/nikitakraev-apache-common-codec-kaa8093/apache/src/main/java/apache/commons/codec/CharEncoding.java

\* /opt/cola/permits/1530515190\_1673519223.8258314/0/nikitakraev-apache-common-codec-1-10-0-g84dd72c-1-tar-gz/nikitakraev-apache-common-codec-kaa8093/apache/src/main/java/apache/commons/codec/language/Nysiis.java

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\* /opt/cola/permits/1530515190\_1673519223.8258314/0/nikitakraev-apache-common-codec-1-10-0-g84dd72c-1-tar-gz/nikitakraev-apache-common-codec-



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caa8093/apache/src/main/java/apache/commons/codec/language/bm/BeiderMorseEncoder.java  
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\* /opt/cola/permits/1530515190\_1673519223.8258314/0/nikitakraev-apache-common-codec-1-10-0-g84dd72c-1-tar-gz/nikitakraev-apache-common-codec-  
caa8093/apache/src/main/java/apache/commons/codec/language/RefinedSoundex.java  
\* /opt/cola/permits/1530515190\_1673519223.8258314/0/nikitakraev-apache-common-codec-1-10-0-g84dd72c-1-tar-gz/nikitakraev-apache-common-codec-  
caa8093/apache/src/main/java/apache/commons/codec/binary/CharSequenceUtils.java  
\* /opt/cola/permits/1530515190\_1673519223.8258314/0/nikitakraev-apache-common-codec-1-10-0-g84dd72c-1-tar-gz/nikitakraev-apache-common-codec-  
caa8093/apache/src/main/java/apache/commons/codec/language/Metaphone.java  
\* /opt/cola/permits/1530515190\_1673519223.8258314/0/nikitakraev-apache-common-codec-1-10-0-g84dd72c-1-tar-gz/nikitakraev-apache-common-codec-  
caa8093/apache/src/main/java/apache/commons/codec/binary/Base32InputStream.java  
\* /opt/cola/permits/1530515190\_1673519223.8258314/0/nikitakraev-apache-common-codec-1-10-0-g84dd72c-1-tar-gz/nikitakraev-apache-common-codec-  
caa8093/apache/src/main/java/apache/commons/codec/binary/BaseNCodec.java

## 1.163 littleproxy 1.1.0-beta-bmp-17

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Found in path(s):

\* /opt/cola/permits/1685982235\_1684869124.8630106/0/littleproxy-1-1-0-beta-bmp-17-jar/META-INF/maven/net.lightbody.bmp/littleproxy/pom.xml

## 1.164 okhttp 3.9.1

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## 1.165 snappy 0.4

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# 1.174 angular-cli v6.0.0

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# 1.175 args4j 2.0.26

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Manifest-Version: 1.0

Bnd-LastModified: 1383440270812

Build-Jdk: 1.7.0\_15

Built-By: kohsuke

Bundle-Description: args4j : Java command line arguments parser

Bundle-DocURL: <http://www.kohsuke.org/>

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Bundle-ManifestVersion: 2

Bundle-Name: args4j

Bundle-SymbolicName: org.kohsuke.args4j

Bundle-Vendor: Kohsuke Kawaguchi

Bundle-Version: 2.0.26

Created-By: Apache Maven Bundle Plugin

Export-Package: org.kohsuke.args4j.spi;uses:="org.kohsuke.args4j";version="2.0.26",org.kohsuke.args4j;uses:="org.kohsuke.args4j.spi,org.xml.sax,org.xml.sax.helpers";version="2.0.26"

Import-Package: org.xml.sax,org.xml.sax.helpers

Tool: Bnd-2.1.0.20130426-122213

Found in path(s):

\* /opt/cola/permits/1125859757\_1684881924.5711994/0/args4j-2-0-26-jar/META-INF/MANIFEST.MF

## 1.176 asm-analysis 5.0.3

## 1.177 commons-logging 1.2

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```

Found in path(s):

```
* /opt/cola/permits/1685982319_1684869255.8840199/0/selenium-opera-driver-3-11-0-sources-
jar/org/openqa/selenium/opera/OperaOptions.java
* /opt/cola/permits/1685982319_1684869255.8840199/0/selenium-opera-driver-3-11-0-sources-
jar/org/openqa/selenium/opera/OperaDriver.java
* /opt/cola/permits/1685982319_1684869255.8840199/0/selenium-opera-driver-3-11-0-sources-
jar/org/openqa/selenium/opera/OperaDriverService.java
```

## 1.180 google-gson 2.8.2

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jar/org/codehaus/plexus/component/configurator/MapOrientedComponentConfigurator.java
```

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jar/org/codehaus/plexus/configuration/DefaultPlexusConfiguration.java  
\* /opt/cola/permits/1021437169\_1684882843.9765522/0/plexus-container-default-1-5-5-sources-1-  
jar/org/codehaus/plexus/component/discovery/ComponentDiscoverer.java  
\* /opt/cola/permits/1021437169\_1684882843.9765522/0/plexus-container-default-1-5-5-sources-1-  
jar/org/codehaus/plexus/lifecycle/AbstractLifecycleHandler.java  
\* /opt/cola/permits/1021437169\_1684882843.9765522/0/plexus-container-default-1-5-5-sources-1-  
jar/org/codehaus/plexus/component/repository/exception/ComponentLifecycleException.java  
\* /opt/cola/permits/1021437169\_1684882843.9765522/0/plexus-container-default-1-5-5-sources-1-  
jar/org/codehaus/plexus/logging/AbstractLogEnabled.java  
\* /opt/cola/permits/1021437169\_1684882843.9765522/0/plexus-container-default-1-5-5-sources-1-  
jar/org/codehaus/plexus/container/initialization/InitializeComponentFactoryManagerPhase.java  
\* /opt/cola/permits/1021437169\_1684882843.9765522/0/plexus-container-default-1-5-5-sources-1-  
jar/org/codehaus/plexus/component/configurator/expression/DefaultExpressionEvaluator.java  
\* /opt/cola/permits/1021437169\_1684882843.9765522/0/plexus-container-default-1-5-5-sources-1-  
jar/org/codehaus/plexus/configuration/PlexusConfigurationMerger.java  
\* /opt/cola/permits/1021437169\_1684882843.9765522/0/plexus-container-default-1-5-5-sources-1-  
jar/org/codehaus/plexus/personality/plexus/lifecycle/phase/StoppingException.java  
\* /opt/cola/permits/1021437169\_1684882843.9765522/0/plexus-container-default-1-5-5-sources-1-  
jar/org/codehaus/plexus/component/configurator/expression/TypeAwareExpressionEvaluator.java  
\* /opt/cola/permits/1021437169\_1684882843.9765522/0/plexus-container-default-1-5-5-sources-1-  
jar/org/codehaus/plexus/personality/plexus/lifecycle/phase/Initializable.java  
\* /opt/cola/permits/1021437169\_1684882843.9765522/0/plexus-container-default-1-5-5-sources-1-  
jar/org/codehaus/plexus/personality/plexus/lifecycle/phase/Startable.java  
\* /opt/cola/permits/1021437169\_1684882843.9765522/0/plexus-container-default-1-5-5-sources-1-  
jar/org/codehaus/plexus/component/repository/ComponentDescriptor.java  
\* /opt/cola/permits/1021437169\_1684882843.9765522/0/plexus-container-default-1-5-5-sources-1-  
jar/org/codehaus/plexus/personality/plexus/lifecycle/phase/ContextualizePhase.java  
\* /opt/cola/permits/1021437169\_1684882843.9765522/0/plexus-container-default-1-5-5-sources-1-  
jar/org/codehaus/plexus/container/initialization/InitializeSystemPropertiesPhase.java  
\* /opt/cola/permits/1021437169\_1684882843.9765522/0/plexus-container-default-1-5-5-sources-1-  
jar/org/codehaus/plexus/configuration/PlexusConfigurationException.java  
\* /opt/cola/permits/1021437169\_1684882843.9765522/0/plexus-container-default-1-5-5-sources-1-  
jar/org/codehaus/plexus/logging/BaseLoggerManager.java  
\* /opt/cola/permits/1021437169\_1684882843.9765522/0/plexus-container-default-1-5-5-sources-1-  
jar/org/codehaus/plexus/personality/plexus/lifecycle/phase/StartPhase.java  
\* /opt/cola/permits/1021437169\_1684882843.9765522/0/plexus-container-default-1-5-5-sources-1-  
jar/org/codehaus/plexus/component/factory/UndefinedComponentFactoryException.java  
\* /opt/cola/permits/1021437169\_1684882843.9765522/0/plexus-container-default-1-5-5-sources-1-  
jar/org/codehaus/plexus/logging/AbstractLoggerManager.java  
\* /opt/cola/permits/1021437169\_1684882843.9765522/0/plexus-container-default-1-5-5-sources-1-  
jar/org/codehaus/plexus/container/initialization/AbstractContainerInitializationPhase.java  
\* /opt/cola/permits/1021437169\_1684882843.9765522/0/plexus-container-default-1-5-5-sources-1-  
jar/org/codehaus/plexus/component/collections/ComponentMap.java  
\* /opt/cola/permits/1021437169\_1684882843.9765522/0/plexus-container-default-1-5-5-sources-1-  
jar/org/codehaus/plexus/context/Context.java  
\* /opt/cola/permits/1021437169\_1684882843.9765522/0/plexus-container-default-1-5-5-sources-1-  
jar/org/codehaus/plexus/component/MapOrientedComponent.java  
\* /opt/cola/permits/1021437169\_1684882843.9765522/0/plexus-container-default-1-5-5-sources-1-



jar/org/codehaus/plexus/DuplicateChildContainerException.java  
\* /opt/cola/permits/1021437169\_1684882843.9765522/0/plexus-container-default-1-5-5-sources-1-  
jar/org/codehaus/plexus/personality/plexus/lifecycle/phase/ResumePhase.java  
\* /opt/cola/permits/1021437169\_1684882843.9765522/0/plexus-container-default-1-5-5-sources-1-  
jar/org/codehaus/plexus/component/repository/exception/ComponentDescriptorUnmarshallingException.java  
\* /opt/cola/permits/1021437169\_1684882843.9765522/0/plexus-container-default-1-5-5-sources-1-  
jar/org/codehaus/plexus/personality/plexus/lifecycle/phase/DisposePhase.java  
\* /opt/cola/permits/1021437169\_1684882843.9765522/0/plexus-container-default-1-5-5-sources-1-  
jar/org/codehaus/plexus/container/initialization/InitializeComponentRegistryPhase.java  
\* /opt/cola/permits/1021437169\_1684882843.9765522/0/plexus-container-default-1-5-5-sources-1-  
jar/org/codehaus/plexus/component/builder/ComponentBuilder.java  
\* /opt/cola/permits/1021437169\_1684882843.9765522/0/plexus-container-default-1-5-5-sources-1-  
jar/org/codehaus/plexus/configuration/xml/XmlPlexusConfiguration.java  
\* /opt/cola/permits/1021437169\_1684882843.9765522/0/plexus-container-default-1-5-5-sources-1-  
jar/org/codehaus/plexus/personality/plexus/lifecycle/phase/StopPhase.java  
\* /opt/cola/permits/1021437169\_1684882843.9765522/0/plexus-container-default-1-5-5-sources-1-  
jar/org/codehaus/plexus/component/composition/CycleDetectedInComponentGraphException.java  
\* /opt/cola/permits/1021437169\_1684882843.9765522/0/plexus-container-default-1-5-5-sources-1-  
jar/org/codehaus/plexus/personality/plexus/lifecycle/phase/ServiceablePhase.java  
\* /opt/cola/permits/1021437169\_1684882843.9765522/0/plexus-container-default-1-5-5-sources-1-  
jar/org/codehaus/plexus/component/configurator/expression/ExpressionEvaluator.java  
\* /opt/cola/permits/1021437169\_1684882843.9765522/0/plexus-container-default-1-5-5-sources-1-  
jar/org/codehaus/plexus/configuration/PlexusConfiguration.java  
\* /opt/cola/permits/1021437169\_1684882843.9765522/0/plexus-container-default-1-5-5-sources-1-  
jar/org/codehaus/plexus/component/manager/ComponentManager.java  
\* /opt/cola/permits/1021437169\_1684882843.9765522/0/plexus-container-default-1-5-5-sources-1-  
jar/org/codehaus/plexus/personality/plexus/lifecycle/phase/ConfigurablePhase.java  
\* /opt/cola/permits/1021437169\_1684882843.9765522/0/plexus-container-default-1-5-5-sources-1-  
jar/org/codehaus/plexus/ComponentRegistry.java  
\* /opt/cola/permits/1021437169\_1684882843.9765522/0/plexus-container-default-1-5-5-sources-1-  
jar/org/codehaus/plexus/component/factory/ComponentInstantiationException.java  
\* /opt/cola/permits/1021437169\_1684882843.9765522/0/plexus-container-default-1-5-5-sources-1-  
jar/org/codehaus/plexus/MutablePlexusContainer.java  
\* /opt/cola/permits/1021437169\_1684882843.9765522/0/plexus-container-default-1-5-5-sources-1-  
jar/org/codehaus/plexus/component/repository/exception/ComponentRepositoryException.java  
\* /opt/cola/permits/1021437169\_1684882843.9765522/0/plexus-container-default-1-5-5-sources-1-  
jar/org/codehaus/plexus/component/repository/exception/ComponentLookupException.java  
\* /opt/cola/permits/1021437169\_1684882843.9765522/0/plexus-container-default-1-5-5-sources-1-  
jar/org/codehaus/plexus/component/repository/DefaultComponentRepository.java  
\* /opt/cola/permits/1021437169\_1684882843.9765522/0/plexus-container-default-1-5-5-sources-1-  
jar/org/codehaus/plexus/lifecycle/phase/Phase.java  
\* /opt/cola/permits/1021437169\_1684882843.9765522/0/plexus-container-default-1-5-5-sources-1-  
jar/org/codehaus/plexus/personality/plexus/lifecycle/phase/AutoConfigurePhase.java  
\* /opt/cola/permits/1021437169\_1684882843.9765522/0/plexus-container-default-1-5-5-sources-1-  
jar/org/codehaus/plexus/personality/plexus/lifecycle/phase/PlexusContainerLocator.java  
\* /opt/cola/permits/1021437169\_1684882843.9765522/0/plexus-container-default-1-5-5-sources-1-  
jar/org/codehaus/plexus/personality/plexus/lifecycle/phase/Configurable.java  
\* /opt/cola/permits/1021437169\_1684882843.9765522/0/plexus-container-default-1-5-5-sources-1-

jar/org/codehaus/plexus/container/initialization/AbstractCoreComponentInitializationPhase.java  
\* /opt/cola/permits/1021437169\_1684882843.9765522/0/plexus-container-default-1-5-5-sources-1-  
jar/org/codehaus/plexus/component/repository/ComponentRequirement.java  
\* /opt/cola/permits/1021437169\_1684882843.9765522/0/plexus-container-default-1-5-5-sources-1-  
jar/org/codehaus/plexus/lifecycle/DefaultLifecycleHandlerManager.java  
\* /opt/cola/permits/1021437169\_1684882843.9765522/0/plexus-container-default-1-5-5-sources-1-  
jar/org/codehaus/plexus/component/discovery/ComponentDiscoveryEvent.java  
\* /opt/cola/permits/1021437169\_1684882843.9765522/0/plexus-container-default-1-5-5-sources-1-  
jar/org/codehaus/plexus/logging/LoggerManager.java  
\* /opt/cola/permits/1021437169\_1684882843.9765522/0/plexus-container-default-1-5-5-sources-1-  
jar/org/codehaus/plexus/lifecycle/LifecycleHandler.java  
\* /opt/cola/permits/1021437169\_1684882843.9765522/0/plexus-container-default-1-5-5-sources-1-  
jar/org/codehaus/plexus/component/builder/ComponentBuildListener.java  
\* /opt/cola/permits/1021437169\_1684882843.9765522/0/plexus-container-default-1-5-5-sources-1-  
jar/org/codehaus/plexus/component/factory/java/JavaComponentFactory.java  
\* /opt/cola/permits/1021437169\_1684882843.9765522/0/plexus-container-default-1-5-5-sources-1-  
jar/org/codehaus/plexus/container/initialization/InitializeComponentDiscovererManagerPhase.java  
\* /opt/cola/permits/1021437169\_1684882843.9765522/0/plexus-container-default-1-5-5-sources-1-  
jar/org/codehaus/plexus/container/initialization/ContainerInitializationPhase.java  
\* /opt/cola/permits/1021437169\_1684882843.9765522/0/plexus-container-default-1-5-5-sources-1-  
jar/org/codehaus/plexus/personality/plexus/lifecycle/phase/PhaseExecutionException.java  
\* /opt/cola/permits/1021437169\_1684882843.9765522/0/plexus-container-default-1-5-5-sources-1-  
jar/org/codehaus/plexus/PlexusContainerException.java  
\* /opt/cola/permits/1021437169\_1684882843.9765522/0/plexus-container-default-1-5-5-sources-1-  
jar/org/codehaus/plexus/container/initialization/InitializeUserConfigurationSourcePhase.java  
\* /opt/cola/permits/1021437169\_1684882843.9765522/0/plexus-container-default-1-5-5-sources-1-  
jar/org/codehaus/plexus/component/composition/DefaultCompositionResolver.java  
\* /opt/cola/permits/1021437169\_1684882843.9765522/0/plexus-container-default-1-5-5-sources-1-  
jar/org/codehaus/plexus/component/repository/ComponentDependency.java  
\* /opt/cola/permits/1021437169\_1684882843.9765522/0/plexus-container-default-1-5-5-sources-1-  
jar/org/codehaus/plexus/logging/AbstractLogger.java  
\* /opt/cola/permits/1021437169\_1684882843.9765522/0/plexus-container-default-1-5-5-sources-1-  
jar/org/codehaus/plexus/logging/console/ConsoleLoggerManager.java  
\* /opt/cola/permits/1021437169\_1684882843.9765522/0/plexus-container-default-1-5-5-sources-1-  
jar/org/codehaus/plexus/PlexusTestCase.java  
\* /opt/cola/permits/1021437169\_1684882843.9765522/0/plexus-container-default-1-5-5-sources-1-  
jar/org/codehaus/plexus/component/discovery/ComponentDiscoveryListener.java  
\* /opt/cola/permits/1021437169\_1684882843.9765522/0/plexus-container-default-1-5-5-sources-1-  
jar/org/codehaus/plexus/personality/plexus/lifecycle/phase/Disposable.java  
\* /opt/cola/permits/1021437169\_1684882843.9765522/0/plexus-container-default-1-5-5-sources-1-  
jar/org/codehaus/plexus/component/collections/AbstractComponentCollection.java  
\* /opt/cola/permits/1021437169\_1684882843.9765522/0/plexus-container-default-1-5-5-sources-1-  
jar/org/codehaus/plexus/component/repository/exception/ComponentConfigurationException.java  
\* /opt/cola/permits/1021437169\_1684882843.9765522/0/plexus-container-default-1-5-5-sources-1-  
jar/org/codehaus/plexus/container/initialization/ContainerInitializationException.java  
\* /opt/cola/permits/1021437169\_1684882843.9765522/0/plexus-container-default-1-5-5-sources-1-  
jar/org/codehaus/plexus/context/DefaultContext.java  
\* /opt/cola/permits/1021437169\_1684882843.9765522/0/plexus-container-default-1-5-5-sources-1-

```
jar/org/codehaus/plexus/personality/plexus/lifecycle/phase/InitializePhase.java
* /opt/cola/permits/1021437169_1684882843.9765522/0/plexus-container-default-1-5-5-sources-1-
jar/org/codehaus/plexus/component/collections/ComponentList.java
* /opt/cola/permits/1021437169_1684882843.9765522/0/plexus-container-default-1-5-5-sources-1-
jar/org/codehaus/plexus/component/builder/XBeanComponentBuilder.java
* /opt/cola/permits/1021437169_1684882843.9765522/0/plexus-container-default-1-5-5-sources-1-
jar/org/codehaus/plexus/component/repository/exception/ComponentProfileException.java
```

## 1.182 saucerest 1.0.39

### 1.182.1 Available under license :

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Found in path(s):

```
* /opt/cola/permits/1685982499_1684869282.4731739/0/saucerest-1-0-39-sources-jar/META-
INF/maven/com.saucelabs/saucerest/pom.xml
```

## 1.183 add-to-homescreen-control 0.1.3

### 1.183.1 Available under license :

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## 1.184 jsinterop-annotations 1.0.0

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```

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- \* /opt/cola/permits/1112386333\_1607077189.95/0/jsinterop-annotations-1-0-0-sources-1-jar/jsinterop/annotations/JsOverlay.java
- \* /opt/cola/permits/1112386333\_1607077189.95/0/jsinterop-annotations-1-0-0-sources-1-jar/jsinterop/annotations/JsMethod.java
- \* /opt/cola/permits/1112386333\_1607077189.95/0/jsinterop-annotations-1-0-0-sources-1-jar/jsinterop/annotations/JsFunction.java
- \* /opt/cola/permits/1112386333\_1607077189.95/0/jsinterop-annotations-1-0-0-sources-1-jar/jsinterop/annotations/JsProperty.java
- \* /opt/cola/permits/1112386333\_1607077189.95/0/jsinterop-annotations-1-0-0-sources-1-jar/jsinterop/annotations/JsPackage.java
- \* /opt/cola/permits/1112386333\_1607077189.95/0/jsinterop-annotations-1-0-0-sources-1-jar/jsinterop/annotations/JsIgnore.java
- \* /opt/cola/permits/1112386333\_1607077189.95/0/jsinterop-annotations-1-0-0-sources-1-jar/jsinterop/annotations/JsType.java
- \* /opt/cola/permits/1112386333\_1607077189.95/0/jsinterop-annotations-1-0-0-sources-1-jar/jsinterop/annotations/JsConstructor.java

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- \* /opt/cola/permits/1112386333\_1607077189.95/0/jsinterop-annotations-1-0-0-sources-1-jar/jsinterop/annotations/JsOptional.java

# 1.185 parboiled 1.1.7

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# 1.186 org.seleniumhq.selenium:selenium-devtools 4.0.0-alpha-5

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```

Found in path(s):

```
* /opt/cola/permits/1685982187_1684946728.4733207/0/selenium-devtools-4-0-0-alpha-5-sources-
jar/org/openqa/selenium/devtools/ConverterFunctions.java
* /opt/cola/permits/1685982187_1684946728.4733207/0/selenium-devtools-4-0-0-alpha-5-sources-
jar/org/openqa/selenium/devtools/HasDevTools.java
* /opt/cola/permits/1685982187_1684946728.4733207/0/selenium-devtools-4-0-0-alpha-5-sources-
jar/org/openqa/selenium/devtools/Connection.java
* /opt/cola/permits/1685982187_1684946728.4733207/0/selenium-devtools-4-0-0-alpha-5-sources-
jar/org/openqa/selenium/devtools/DevToolsException.java
* /opt/cola/permits/1685982187_1684946728.4733207/0/selenium-devtools-4-0-0-alpha-5-sources-
jar/org/openqa/selenium/devtools/Command.java
* /opt/cola/permits/1685982187_1684946728.4733207/0/selenium-devtools-4-0-0-alpha-5-sources-
jar/org/openqa/selenium/devtools/DevTools.java
* /opt/cola/permits/1685982187_1684946728.4733207/0/selenium-devtools-4-0-0-alpha-5-sources-
jar/org/openqa/selenium/devtools/Event.java
* /opt/cola/permits/1685982187_1684946728.4733207/0/selenium-devtools-4-0-0-alpha-5-sources-
jar/org/openqa/selenium/devtools/Reply.java
* /opt/cola/permits/1685982187_1684946728.4733207/0/selenium-devtools-4-0-0-alpha-5-sources-
jar/org/openqa/selenium/devtools/Message.java
```

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```
public Domain(java.lang.String name, java.lang.String version) {
```

Found in path(s):

```
* /opt/cola/permits/1685982187_1684946728.4733207/0/selenium-devtools-4-0-0-alpha-5-sources-
jar/org/openqa/selenium/devtools/schema/model/Domain.java
```

# 1.187 commons-compress 1.16.1

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## 1.188 log4j-compatibility-api 2.17.2

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## 1.189 error\_prone\_annotations 2.3.4

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Found in path(s):

```
* /opt/cola/permits/1206718612_1632455182.54/0/error-prone-annotations-2-3-4-sources-9-
jar/com/google/errorprone/annotations/concurrent/UnlockMethod.java
* /opt/cola/permits/1206718612_1632455182.54/0/error-prone-annotations-2-3-4-sources-9-
jar/com/google/errorprone/annotations/concurrent/LockMethod.java
* /opt/cola/permits/1206718612_1632455182.54/0/error-prone-annotations-2-3-4-sources-9-
jar/com/google/errorprone/annotations/NoAllocation.java
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```
* /opt/cola/permits/1206718612_1632455182.54/0/error-prone-annotations-2-3-4-sources-9-
jar/com/google/errorprone/annotations/RestrictedApi.java
* /opt/cola/permits/1206718612_1632455182.54/0/error-prone-annotations-2-3-4-sources-9-
```



jar/com/google/errorprone/annotations/DoNotMock.java  
\* /opt/cola/permits/1206718612\_1632455182.54/0/error-prone-annotations-2-3-4-sources-9-  
jar/com/google/errorprone/annotations/CompatibleWith.java  
\* /opt/cola/permits/1206718612\_1632455182.54/0/error-prone-annotations-2-3-4-sources-9-  
jar/com/google/errorprone/annotations/FormatMethod.java  
\* /opt/cola/permits/1206718612\_1632455182.54/0/error-prone-annotations-2-3-4-sources-9-  
jar/com/google/errorprone/annotations/FormatString.java  
\* /opt/cola/permits/1206718612\_1632455182.54/0/error-prone-annotations-2-3-4-sources-9-  
jar/com/google/errorprone/annotations/MustBeClosed.java  
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\* /opt/cola/permits/1206718612\_1632455182.54/0/error-prone-annotations-2-3-4-sources-9-  
jar/com/google/errorprone/annotations/CheckReturnValue.java  
\* /opt/cola/permits/1206718612\_1632455182.54/0/error-prone-annotations-2-3-4-sources-9-  
jar/com/google/errorprone/annotations/concurrent/GuardedBy.java  
\* /opt/cola/permits/1206718612\_1632455182.54/0/error-prone-annotations-2-3-4-sources-9-  
jar/com/google/errorprone/annotations/OverridingMethodsMustInvokeSuper.java  
\* /opt/cola/permits/1206718612\_1632455182.54/0/error-prone-annotations-2-3-4-sources-9-  
jar/com/google/errorprone/annotations/DoNotCall.java  
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Found in path(s):

- \* /opt/cola/permits/1206718612\_1632455182.54/0/error-prone-annotations-2-3-4-sources-9-jar/com/google/errorprone/annotations/SuppressPackageLocation.java
- \* /opt/cola/permits/1206718612\_1632455182.54/0/error-prone-annotations-2-3-4-sources-9-jar/com/google/errorprone/annotations/ForOverride.java
- \* /opt/cola/permits/1206718612\_1632455182.54/0/error-prone-annotations-2-3-4-sources-9-jar/com/google/errorprone/annotations/IncompatibleModifiers.java
- \* /opt/cola/permits/1206718612\_1632455182.54/0/error-prone-annotations-2-3-4-sources-9-jar/com/google/errorprone/annotations/concurrent/LazyInit.java
- \* /opt/cola/permits/1206718612\_1632455182.54/0/error-prone-annotations-2-3-4-sources-9-jar/com/google/errorprone/annotations/RequiredModifiers.java
- \* /opt/cola/permits/1206718612\_1632455182.54/0/error-prone-annotations-2-3-4-sources-9-jar/com/google/errorprone/annotations/Var.java
- \* /opt/cola/permits/1206718612\_1632455182.54/0/error-prone-annotations-2-3-4-sources-9-jar/com/google/errorprone/annotations/CanIgnoreReturnValue.java
- \* /opt/cola/permits/1206718612\_1632455182.54/0/error-prone-annotations-2-3-4-sources-9-jar/com/google/errorprone/annotations/CompileTimeConstant.java
- \* /opt/cola/permits/1206718612\_1632455182.54/0/error-prone-annotations-2-3-4-sources-9-jar/com/google/errorprone/annotations/Immutable.java

# 1.190 scala-pool 0.3.0

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# 1.191 apache-log4j 1.2.12

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jar/org/openqa/selenium/edge/EdgeDriver.java
* /opt/cola/permits/1685982206_1684869376.990648/0/selenium-edge-driver-3-3-1-sources-
jar/org/openqa/selenium/edge/EdgeOptions.java
* /opt/cola/permits/1685982206_1684869376.990648/0/selenium-edge-driver-3-3-1-sources-
jar/org/openqa/selenium/edge/EdgeDriverService.java
```

# 1.194 objenesis 2.6

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/**
 * Derives the charset from the Content-Type header in the HttpResponseMessage. If the Content-Type header is not present
 or does not contain
 * a character set, this method returns the ISO-8859-1 character set. See {@link
 BrowserMobHttpUtil#readCharsetInContentTypeHeader(String)}
 * for more details.
 *
 * @param httpMessage HTTP message to extract charset from
 * @return the charset associated with the HTTP message, or the default charset if none is present
 * @throws UnsupportedOperationException if there is a charset specified in the content-type header, but it is not
 supported
 */
```

Found in path(s):

\* /opt/cola/permits/1685982277\_1684882673.349099/0/browsermob-core-2-1-5-sources-  
jar/net/lightbody/bmp/util/HttpObjectUtil.java

# 1.196 error\_prone\_annotations 2.1.3

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```
* /opt/cola/permits/1206722448_1632456694.38/0/error-prone-annotations-2-1-3-sources-12-jar/com/google/errorprone/annotations/OverridingMethodsMustInvokeSuper.java
* /opt/cola/permits/1206722448_1632456694.38/0/error-prone-annotations-2-1-3-sources-12-jar/com/google/errorprone/annotations/DoNotCall.java
* /opt/cola/permits/1206722448_1632456694.38/0/error-prone-annotations-2-1-3-sources-12-jar/com/google/errorprone/annotations/CheckReturnValue.java
* /opt/cola/permits/1206722448_1632456694.38/0/error-prone-annotations-2-1-3-sources-12-jar/com/google/errorprone/annotations/concurrent/GuardedBy.java
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- \* /opt/cola/permits/1206722448\_1632456694.38/0/error-prone-annotations-2-1-3-sources-12-jar/com/google/errorprone/annotations/RequiredModifiers.java
- \* /opt/cola/permits/1206722448\_1632456694.38/0/error-prone-annotations-2-1-3-sources-12-jar/com/google/errorprone/annotations/concurrent/LazyInit.java
- \* /opt/cola/permits/1206722448\_1632456694.38/0/error-prone-annotations-2-1-3-sources-12-jar/com/google/errorprone/annotations/CanIgnoreReturnValue.java
- \* /opt/cola/permits/1206722448\_1632456694.38/0/error-prone-annotations-2-1-3-sources-12-jar/com/google/errorprone/annotations/Immutable.java
- \* /opt/cola/permits/1206722448\_1632456694.38/0/error-prone-annotations-2-1-3-sources-12-jar/com/google/errorprone/annotations/Var.java
- \* /opt/cola/permits/1206722448\_1632456694.38/0/error-prone-annotations-2-1-3-sources-12-jar/com/google/errorprone/annotations/CompileTimeConstant.java
- \* /opt/cola/permits/1206722448\_1632456694.38/0/error-prone-annotations-2-1-3-sources-12-jar/com/google/errorprone/annotations/ForOverride.java
- \* /opt/cola/permits/1206722448\_1632456694.38/0/error-prone-annotations-2-1-3-sources-12-jar/com/google/errorprone/annotations/IncompatibleModifiers.java
- \* /opt/cola/permits/1206722448\_1632456694.38/0/error-prone-annotations-2-1-3-sources-12-jar/com/google/errorprone/annotations/SuppressPackageLocation.java

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- \* /opt/cola/permits/1206722448\_1632456694.38/0/error-prone-annotations-2-1-3-sources-12-jar/com/google/errorprone/annotations/concurrent/LockMethod.java
- \* /opt/cola/permits/1206722448\_1632456694.38/0/error-prone-annotations-2-1-3-sources-12-jar/com/google/errorprone/annotations/NoAllocation.java

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\* /opt/cola/permits/1206722448\_1632456694.38/0/error-prone-annotations-2-1-3-sources-12-jar/com/google/errorprone/annotations/RestrictedApi.java  
\* /opt/cola/permits/1206722448\_1632456694.38/0/error-prone-annotations-2-1-3-sources-12-jar/com/google/errorprone/annotations/CompatibleWith.java  
\* /opt/cola/permits/1206722448\_1632456694.38/0/error-prone-annotations-2-1-3-sources-12-jar/com/google/errorprone/annotations/DoNotMock.java  
\* /opt/cola/permits/1206722448\_1632456694.38/0/error-prone-annotations-2-1-3-sources-12-jar/com/google/errorprone/annotations/FormatMethod.java  
\* /opt/cola/permits/1206722448\_1632456694.38/0/error-prone-annotations-2-1-3-sources-12-jar/com/google/errorprone/annotations/MustBeClosed.java  
\* /opt/cola/permits/1206722448\_1632456694.38/0/error-prone-annotations-2-1-3-sources-12-jar/com/google/errorprone/annotations/FormatString.java

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```
* /opt/cola/permits/1685982254_1684869164.757774/0/closure-compiler-externs-v20140407-sources-1-jar/externs-
zip/gecko_css.js
* /opt/cola/permits/1685982254_1684869164.757774/0/closure-compiler-externs-v20140407-sources-1-jar/externs-
zip/ie_event.js
* /opt/cola/permits/1685982254_1684869164.757774/0/closure-compiler-externs-v20140407-sources-1-jar/externs-
zip/window.js
* /opt/cola/permits/1685982254_1684869164.757774/0/closure-compiler-externs-v20140407-sources-1-jar/externs-
```

zip/w3c\_dom2.js  
\* /opt/cola/permits/1685982254\_1684869164.757774/0/closure-compiler-externs-v20140407-sources-1-jar/externs-  
zip/w3c\_dom3.js  
\* /opt/cola/permits/1685982254\_1684869164.757774/0/closure-compiler-externs-v20140407-sources-1-jar/externs-  
zip/w3c\_css.js  
\* /opt/cola/permits/1685982254\_1684869164.757774/0/closure-compiler-externs-v20140407-sources-1-jar/externs-  
zip/w3c\_dom1.js  
\* /opt/cola/permits/1685982254\_1684869164.757774/0/closure-compiler-externs-v20140407-sources-1-jar/externs-  
zip/deprecated.js  
\* /opt/cola/permits/1685982254\_1684869164.757774/0/closure-compiler-externs-v20140407-sources-1-jar/externs-  
zip/webkit\_dom.js  
\* /opt/cola/permits/1685982254\_1684869164.757774/0/closure-compiler-externs-v20140407-sources-1-jar/externs-  
zip/gecko\_dom.js  
\* /opt/cola/permits/1685982254\_1684869164.757774/0/closure-compiler-externs-v20140407-sources-1-jar/externs-  
zip/ie\_dom.js  
\* /opt/cola/permits/1685982254\_1684869164.757774/0/closure-compiler-externs-v20140407-sources-1-jar/externs-  
zip/flash.js  
\* /opt/cola/permits/1685982254\_1684869164.757774/0/closure-compiler-externs-v20140407-sources-1-jar/externs-  
zip/html5.js  
\* /opt/cola/permits/1685982254\_1684869164.757774/0/closure-compiler-externs-v20140407-sources-1-jar/externs-  
zip/gecko\_event.js  
\* /opt/cola/permits/1685982254\_1684869164.757774/0/closure-compiler-externs-v20140407-sources-1-jar/externs-  
zip/webkit\_css.js  
\* /opt/cola/permits/1685982254\_1684869164.757774/0/closure-compiler-externs-v20140407-sources-1-jar/externs-  
zip/es3.js  
\* /opt/cola/permits/1685982254\_1684869164.757774/0/closure-compiler-externs-v20140407-sources-1-jar/externs-  
zip/w3c\_range.js  
\* /opt/cola/permits/1685982254\_1684869164.757774/0/closure-compiler-externs-v20140407-sources-1-jar/externs-  
zip/w3c\_event.js  
\* /opt/cola/permits/1685982254\_1684869164.757774/0/closure-compiler-externs-v20140407-sources-1-jar/externs-  
zip/gecko\_xml.js  
\* /opt/cola/permits/1685982254\_1684869164.757774/0/closure-compiler-externs-v20140407-sources-1-jar/externs-  
zip/w3c\_xml.js  
\* /opt/cola/permits/1685982254\_1684869164.757774/0/closure-compiler-externs-v20140407-sources-1-jar/externs-  
zip/ie\_css.js  
\* /opt/cola/permits/1685982254\_1684869164.757774/0/closure-compiler-externs-v20140407-sources-1-jar/externs-  
zip/w3c\_selectors.js

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zip/webgl.js

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zip/w3c\_css3d.js

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zip/w3c\_event3.js

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zip/google.js

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zip/webkit\_notifications.js

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zip/fileapi.js

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zip/v8.js  
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zip/intl.js  
\* /opt/cola/permits/1685982254\_1684869164.757774/0/closure-compiler-externs-v20140407-sources-1-jar/externs-  
zip/w3c\_device\_sensor\_event.js  
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zip/chrome.js

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zip/w3c\_navigation\_timing.js  
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zip/w3c\_anim\_timing.js

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zip/iphone.js
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zip/ie\_vml.js
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zip/w3c\_geolocation.js
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zip/es5.js
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zip/webstorage.js
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zip/webkit\_event.js
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zip/w3c\_elementtraversal.js

## 1.200 jcl-1-2-implemented-over-slf4j 1.7.25

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# 1.201 asm-tree 5.0.3

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\* /opt/cola/permits/1685982433\_1684945335.7833998/0/jetty-http-9-0-7-v20131107-jar/about.html

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Manifest-Version: 1.0  
Archiver-Version: Plexus Archiver  
Created-By: Apache Maven Bundle Plugin  
Built-By: jesse  
Build-Jdk: 1.7.0\_25  
Implementation-Vendor: Eclipse.org - Jetty  
Implementation-Version: 9.0.7.v20131107  
url: http://www.eclipse.org/jetty  
Export-Package: org.eclipse.jetty.http;uses:="org.eclipse.jetty.util.r  
esource,org.eclipse.jetty.util,org.eclipse.jetty.util.log";version="9  
.0.7"  
Bundle-Classpath: .  
Tool: Bnd-1.15.0  
Bundle-Name: Jetty :: Http Utility  
Bundle-RequiredExecutionEnvironment: JavaSE-1.7  
Bundle-Copyright: Copyright (c) 2008-2013 Mort Bay Consulting Pty. Ltd.  
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Bundle-Version: 9.0.7.v20131107  
Bnd-LastModified: 1383840442438  
Bundle-ManifestVersion: 2  
Bundle-Description: Administrative parent pom for Jetty modules  
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0, http://www  
.eclipse.org/org/documents/epl-v10.php  
Import-Package: org.eclipse.jetty.util;version="[9.0,10)",org.eclipse.  
jetty.util.log;version="[9.0,10)",org.eclipse.jetty.util.resource;ver  
sion="[9.0,10)"  
Bundle-SymbolicName: org.eclipse.jetty.http  
Bundle-DocURL: http://www.eclipse.org/jetty

Found in path(s):

\* /opt/cola/permits/1685982433\_1684945335.7833998/0/jetty-http-9-0-7-v20131107-jar/META-  
INF/MANIFEST.MF

## 1.204 jscover 2.0.4

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## 1.205 cglib 3.2.4

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```
* /opt/cola/permits/1685982325_1684868995.4294147/0/selenium-opera-driver-3-3-1-sources-
jar/org/openqa/selenium/opera/OperaOptions.java
* /opt/cola/permits/1685982325_1684868995.4294147/0/selenium-opera-driver-3-3-1-sources-
jar/org/openqa/selenium/opera/OperaDriverService.java
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jar/org/openqa/selenium/opera/OperaDriver.java
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# 1.209 junit 4.12

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