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```
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Sam Pullara (Mustache Java): <https://github.com/spullara/mustache.java/>
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Version 3, 29 June 2007

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1.16 beanshell 2.0b4

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```
/**
```

```
Print the string value of the argument, which may be of any type.  
If beanshell is running interactively, the output will always go to the  
command line, otherwise it will go to System.out.
```

```
<p>
```

```
Most often the printed value of an object will simply be the Java  
toString() of the object. However if the argument is an array the contents  
of the array will be (recursively) listed in a verbose way.
```

```
<p>
```

```
Note that you are always free to use System.out.println()  
instead of print().
```

```
*/
```

```
Found in path(s):
```

```
* /opt/cola/permits/1000060130_1646171457.83/0/bsh-2-0b4-jar/bsh/commands/print.bsh
```

1.17 cxf-tools-wadlto-jaxrs 2.7.14

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1.20 jetty-io 8.1.15.v20140411

1.21 commons-lang3 3.1

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* /opt/cola/permits/1136044940_1613664795.31/0/jcommander-1-48-sources-1-
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* /opt/cola/permits/1136044940_1613664795.31/0/jcommander-1-48-sources-1-
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* /opt/cola/permits/1136044940_1613664795.31/0/jcommander-1-48-sources-1-
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* /opt/cola/permits/1136044940_1613664795.31/0/jcommander-1-48-sources-1-
jar/com/beust/jcommander/MissingCommandException.java
* /opt/cola/permits/1136044940_1613664795.31/0/jcommander-1-48-sources-1-
jar/com/beust/jcommander/JCommander.java
* /opt/cola/permits/1136044940_1613664795.31/0/jcommander-1-48-sources-1-
jar/com/beust/jcommander/converters/StringConverter.java
* /opt/cola/permits/1136044940_1613664795.31/0/jcommander-1-48-sources-1-
jar/com/beust/jcommander/converters/LongConverter.java
* /opt/cola/permits/1136044940_1613664795.31/0/jcommander-1-48-sources-1-
jar/com/beust/jcommander/converters/FloatConverter.java
* /opt/cola/permits/1136044940_1613664795.31/0/jcommander-1-48-sources-1-
jar/com/beust/jcommander/internal/Lists.java
* /opt/cola/permits/1136044940_1613664795.31/0/jcommander-1-48-sources-1-
jar/com/beust/jcommander/ParameterDescription.java
* /opt/cola/permits/1136044940_1613664795.31/0/jcommander-1-48-sources-1-
jar/com/beust/jcommander/converters/NoConverter.java
* /opt/cola/permits/1136044940_1613664795.31/0/jcommander-1-48-sources-1-
jar/com/beust/jcommander/converters/URLConverter.java
* /opt/cola/permits/1136044940_1613664795.31/0/jcommander-1-48-sources-1-
jar/com/beust/jcommander/ParameterException.java
* /opt/cola/permits/1136044940_1613664795.31/0/jcommander-1-48-sources-1-
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jar/com/beust/jcommander/converters/URICConverter.java
* /opt/cola/permits/1136044940_1613664795.31/0/jcommander-1-48-sources-1-
jar/com/beust/jcommander/internal/Maps.java
* /opt/cola/permits/1136044940_1613664795.31/0/jcommander-1-48-sources-1-
jar/com/beust/jcommander/converters/BaseConverter.java
* /opt/cola/permits/1136044940_1613664795.31/0/jcommander-1-48-sources-1-
jar/com/beust/jcommander/internal/DefaultConverterFactory.java
* /opt/cola/permits/1136044940_1613664795.31/0/jcommander-1-48-sources-1-
jar/com/beust/jcommander/internal/Sets.java
* /opt/cola/permits/1136044940_1613664795.31/0/jcommander-1-48-sources-1-

jar/com/beust/jcommander/Parameter.java
* /opt/cola/permits/1136044940_1613664795.31/0/jcommander-1-48-sources-1-
jar/com/beust/jcommander/converters/BooleanConverter.java
* /opt/cola/permits/1136044940_1613664795.31/0/jcommander-1-48-sources-1-
jar/com/beust/jcommander/IStringConverter.java
* /opt/cola/permits/1136044940_1613664795.31/0/jcommander-1-48-sources-1-
jar/com/beust/jcommander/IStringConverterFactory.java
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 */
```

Found in path(s):

* /opt/cola/permits/1136044940_1613664795.31/0/jcommander-1-48-sources-1-
jar/com/beust/jcommander/validators/PositiveInteger.java
* /opt/cola/permits/1136044940_1613664795.31/0/jcommander-1-48-sources-1-
jar/com/beust/jcommander/IPParameterValidator2.java
* /opt/cola/permits/1136044940_1613664795.31/0/jcommander-1-48-sources-1-
jar/com/beust/jcommander/IPParameterValidator.java
* /opt/cola/permits/1136044940_1613664795.31/0/jcommander-1-48-sources-1-
jar/com/beust/jcommander/validators/NoValueValidator.java
* /opt/cola/permits/1136044940_1613664795.31/0/jcommander-1-48-sources-1-
jar/com/beust/jcommander/validators/NoValidator.java

1.24 libart 2.3.17

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1.26 jaxb-runtime 2.0.2

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1.28 jmespath-java 1.11.61

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```
<name>Apache License, Version 2.0</name>
```

Found in path(s):

```
* /opt/cola/permits/1258047505_1643026969.18/0/jmespath-java-1-11-61-sources-jar/META-
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 */
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```
* /opt/cola/permits/1258047505_1643026969.18/0/jmespath-java-1-11-61-sources-
jar/com/amazonaws/jmespath/JmesPathMultiSelectList.java
* /opt/cola/permits/1258047505_1643026969.18/0/jmespath-java-1-11-61-sources-
jar/com/amazonaws/jmespath/JmesPathAndExpression.java
* /opt/cola/permits/1258047505_1643026969.18/0/jmespath-java-1-11-61-sources-
jar/com/amazonaws/jmespath/JmesPathNotExpression.java
* /opt/cola/permits/1258047505_1643026969.18/0/jmespath-java-1-11-61-sources-
jar/com/amazonaws/jmespath/JmesPathProjection.java
* /opt/cola/permits/1258047505_1643026969.18/0/jmespath-java-1-11-61-sources-
jar/com/amazonaws/jmespath/JmesPathIdentity.java
* /opt/cola/permits/1258047505_1643026969.18/0/jmespath-java-1-11-61-sources-
jar/com/amazonaws/jmespath/JmesPathEvaluationVisitor.java
* /opt/cola/permits/1258047505_1643026969.18/0/jmespath-java-1-11-61-sources-
jar/com/amazonaws/jmespath/JmesPathLiteral.java
* /opt/cola/permits/1258047505_1643026969.18/0/jmespath-java-1-11-61-sources-
jar/com/amazonaws/jmespath/OpGreaterThan.java
* /opt/cola/permits/1258047505_1643026969.18/0/jmespath-java-1-11-61-sources-
jar/com/amazonaws/jmespath/JmesPathExpression.java
* /opt/cola/permits/1258047505_1643026969.18/0/jmespath-java-1-11-61-sources-
jar/com/amazonaws/jmespath/OpNotEquals.java
* /opt/cola/permits/1258047505_1643026969.18/0/jmespath-java-1-11-61-sources-
jar/com/amazonaws/jmespath/JmesPathVisitor.java
* /opt/cola/permits/1258047505_1643026969.18/0/jmespath-java-1-11-61-sources-
jar/com/amazonaws/jmespath/OpLessThanOrEqualTo.java
* /opt/cola/permits/1258047505_1643026969.18/0/jmespath-java-1-11-61-sources-
jar/com/amazonaws/jmespath/CamelCaseUtils.java
* /opt/cola/permits/1258047505_1643026969.18/0/jmespath-java-1-11-61-sources-
jar/com/amazonaws/jmespath/InvalidTypeException.java
* /opt/cola/permits/1258047505_1643026969.18/0/jmespath-java-1-11-61-sources-
jar/com/amazonaws/jmespath/JmesPathContainsFunction.java
* /opt/cola/permits/1258047505_1643026969.18/0/jmespath-java-1-11-61-sources-
jar/com/amazonaws/jmespath/JmesPathFlatten.java
```

* /opt/cola/permits/1258047505_1643026969.18/0/jmespath-java-1-11-61-sources-jar/com/amazonaws/jmespath/JmesPathValueProjection.java
* /opt/cola/permits/1258047505_1643026969.18/0/jmespath-java-1-11-61-sources-jar/com/amazonaws/jmespath/Comparator.java
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* /opt/cola/permits/1258047505_1643026969.18/0/jmespath-java-1-11-61-sources-jar/com/amazonaws/jmespath/JmesPathFunction.java
* /opt/cola/permits/1258047505_1643026969.18/0/jmespath-java-1-11-61-sources-jar/com/amazonaws/jmespath/OpLessThan.java
* /opt/cola/permits/1258047505_1643026969.18/0/jmespath-java-1-11-61-sources-jar/com/amazonaws/jmespath/ObjectMapperSingleton.java
* /opt/cola/permits/1258047505_1643026969.18/0/jmespath-java-1-11-61-sources-jar/com/amazonaws/jmespath/OpEquals.java
* /opt/cola/permits/1258047505_1643026969.18/0/jmespath-java-1-11-61-sources-jar/com/amazonaws/jmespath/JmesPathField.java
* /opt/cola/permits/1258047505_1643026969.18/0/jmespath-java-1-11-61-sources-jar/com/amazonaws/jmespath/NumericComparator.java
* /opt/cola/permits/1258047505_1643026969.18/0/jmespath-java-1-11-61-sources-jar/com/amazonaws/jmespath/JmesPathFilter.java
* /opt/cola/permits/1258047505_1643026969.18/0/jmespath-java-1-11-61-sources-jar/com/amazonaws/jmespath/JmesPathSubExpression.java

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None

Cryptography

None

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1.31 esapi 2.0.1

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```

```
*
* @created 2010
*/
// Because attribute values may be confidential, we don't want to log them!
```

Found in path(s):

```
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-
jar/org/owasp/esapi/crypto/CryptoToken.java
```

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*
* @author Arshan Dabirsiaghi <a href="http://www.aspectsecurity.com">Aspect Security</a>
* @created 2009
*/
```

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```
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-
jar/org/owasp/esapi/waf/rules/ReplaceContentRule.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-
jar/org/owasp/esapi/waf/rules/GeneralAttackSignatureRule.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-
jar/org/owasp/esapi/waf/rules/AddHTTPOnlyFlagRule.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-
jar/org/owasp/esapi/waf/rules/PathExtensionRule.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-
jar/org/owasp/esapi/waf/ESAPIWebApplicationFirewallFilter.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/waf/rules/RuleUtil.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-
jar/org/owasp/esapi/waf/rules/MustMatchRule.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/waf/actions/Action.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-
jar/org/owasp/esapi/waf/actions/BlockAction.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-
jar/org/owasp/esapi/waf/ConfigurationException.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-
jar/org/owasp/esapi/waf/rules/HTTPMethodRule.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-
```

jar/org/owasp/esapi/waf/internal/InterceptingHttpServletRequest.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-
jar/org/owasp/esapi/waf/rules/BeanShellRule.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-
jar/org/owasp/esapi/waf/actions/RedirectAction.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-
jar/org/owasp/esapi/waf/rules/RestrictContentTypeRule.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-
jar/org/owasp/esapi/waf/configuration/AppGuardianConfiguration.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-
jar/org/owasp/esapi/waf/rules/RestrictUserAgentRule.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-
jar/org/owasp/esapi/waf/rules/EnforceHTTPSRule.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-
jar/org/owasp/esapi/waf/rules/AddSecureFlagRule.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-
jar/org/owasp/esapi/waf/rules/AddHeaderRule.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/waf/rules/Rule.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-
jar/org/owasp/esapi/waf/internal/Parameter.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-
jar/org/owasp/esapi/waf/internal/InterceptingPrintWriter.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-
jar/org/owasp/esapi/waf/configuration/ConfigurationParser.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-
jar/org/owasp/esapi/waf/rules/SimpleVirtualPatchRule.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-
jar/org/owasp/esapi/waf/rules/DetectOutboundContentRule.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-
jar/org/owasp/esapi/waf/actions/DefaultAction.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-
jar/org/owasp/esapi/waf/actions/DoNothingAction.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-
jar/org/owasp/esapi/waf/rules/AuthenticatedRule.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/waf/rules/IPRule.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-
jar/org/owasp/esapi/waf/internal/InterceptingServletOutputStream.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-
jar/org/owasp/esapi/waf/internal/InterceptingHTTPServletResponse.java
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*
* @author Pawan Singh (pawan.singh@owasp.org) OWASP
* @created 2009
*/

Found in path(s):

* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/util/DefaultMessageUtil.java

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* @author Jeff Williams Aspect Security
* @created 2009
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Found in path(s):

* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/PreparedString.java

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*

* @author Jeff Williams Aspect Security

* @author kevin.w.wall@gmail.com

* @created 2007

*/

/**

* Encrypts the provided plaintext and returns a ciphertext string using the

* master secret key and default cipher transformation.

* </p><p>

* Compatibility with earlier ESAPI versions: The symmetric encryption

* in ESAPI 2.0 and later is not compatible with the encryption in ESAPI 1.4

* or earlier. Not only are the interfaces slightly different, but they format

* of the serialized encrypted data is incompatible. Therefore, if you have

* encrypted data with ESAPI 1.4 or earlier, you must first encrypt it and

* then re-encrypt it with ESAPI 2.0. Backward compatibility with ESAPI 1.4

* was proposed to both the ESAPI Developers and ESAPI Users mailing lists

* and voted down. More details are available in the ESAPI document

*

* Why Is OWASP Changing ESAPI Encryption?

* </p><p>

* Why this method is deprecated: Most cryptographers strongly suggest

* that if you are creating crypto functionality for general-purpose use,

* at a minimum you should ensure that it provides authenticity, integrity,

* and confidentiality. This method only provides confidentiality, but not

* authenticity or integrity. Therefore, you are encouraged to use

* one of the other encryption methods referenced below. Because this

* method provides neither authenticity nor integrity, it may be

* removed in some future ESAPI Java release. Note: there are some cases

* where authenticity / integrity are not that important. For instance, consider

* a case where the encrypted data is never out of your application's control. For

* example, if you receive data that your application is encrypting itself and then

* storing the encrypted data in its own database for later use (and no other

* applications can query or update that column of the database), providing

```

* confidentiality alone might be sufficient. However, if there are cases
* where your application will be sending or receiving already encrypted data
* over an insecure, unauthenticated channel, in such cases authenticity and
* integrity of the encrypted data likely is important and this method should
* be avoided in favor of one of the other two.
*
* @param plaintext
*   the plaintext {@code String} to encrypt. Note that if you are encrypting
*   general bytes, you should encrypt that byte array to a String using
*   "UTF-8" encoding.
*
* @return
*   the encrypted, base64-encoded String representation of 'plaintext' plus
*   the random IV used.
*
* @throws EncryptionException
*   if the specified encryption algorithm could not be found or another problem exists with
*   the encryption of 'plaintext'
*
* @see #encrypt(PlainText)
* @see #encrypt(SecretKey, PlainText)
*
* @deprecated As of 1.4.2; use {@link #encrypt(PlainText)} instead, which
*   also ensures message authenticity. This method will be
*   completely removed as of the next major release or point
*   release (3.0 or 2.1, whichever comes first) as per OWASP
*   deprecation policy.
*/

```

Found in path(s):

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*
* @author Jeff Williams <a href="http://www.aspectsecurity.com">Aspect Security</a>
* @created 2007
*/

```

```
/**
 * An IntrusionException should be thrown anytime an error condition arises that is likely to be the result of an attack
 * in progress. IntrusionExceptions are handled specially by the IntrusionDetector, which is equipped to respond by
 * either specially logging the event, logging out the current user, or invalidating the current user's account.
 * <P>
 * Unlike other exceptions in the ESAPI, the IntrusionException is a RuntimeException so that it can be thrown from
 * anywhere and will not require a lot of special exception handling.
 *
 * @author Jeff Williams (jeff.williams@aspectsecurity.com)
 */
```

Found in path(s):

```
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-
jar/org/owasp/esapi/errors/IntrusionException.java
```

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 *
 * @author Patrick Higgins
 * @created 2010
 */
```

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```
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/ExecuteResult.java
```

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```
/**
 * The method is ESAPI's Key Derivation Function (KDF) that computes a
 * derived key from the { @code keyDerivationKey } for either
 * encryption / decryption or for authentication.
 * <p>
 * <b>CAUTION:</b> If this algorithm for computing derived keys from the
 * key derivation key is <i>ever</i> changed, we risk breaking backward compatibility of being
 * able to decrypt data previously encrypted with earlier / different versions
 * of this method. Therefore, do not change this unless you are 100% certain that
 * what you are doing will NOT change either of the derived keys for
 * ANY "key derivation key" AT ALL!!!
 * <p>
```

```

* <b>NOTE:</b> This method is generally not intended to be called separately.
* It is used by ESAPI's reference crypto implementation class { @code JavaEncryptor }
* and might be useful for someone implementing their own replacement class, but
* generally it is not something that is useful to application client code.
*
* @param keyDerivationKey A key used as an input to a key derivation function
*       to derive other keys. This is the key that generally
*       is created using some key generation mechanism such as
*       { @link #generateSecretKey(String, int)}. The
*       "input" key from which the other keys are derived.
* The derived key will have the same algorithm type
* as this key.
* @param keySize The cipher's key size (in bits) for the { @code keyDerivationKey }.
* Must have a minimum size of 56 bits and be an integral multiple of 8-bits.
* <b>Note:</b> The derived key will have the same size as this.
* @param purpose The purpose for the derived key. Must be either the
* string "encryption" or "authenticity". Use "encryption" for
*       creating a derived key to use for confidentiality, and "authenticity"
*       for a derived key to use with a MAC to ensure message authenticity.
* @return The derived { @code SecretKey } to be used according
* to the specified purpose. Note that this serves the same purpose
* as "label" in section 5.1 of NIST SP 800-108.
* @throws NoSuchAlgorithmException The { @code keyDerivationKey } has an unsupported
* encryption algorithm or no current JCE provider supports
* "HmacSHA1".
* @throws EncryptionException If "UTF-8" is not supported as an encoding, then
* this is thrown with the original { @code UnsupportedEncodingException }
* as the cause. (NOTE: This should never happen as "UTF-8" is supposed to
* be a common encoding supported by all Java implementations. Support
* for it is usually in rt.jar.)
* @throws InvalidKeyException Likely indicates a coding error. Should not happen.
* @throws EncryptionException Throw for some precondition violations.
* @deprecated Use { @code KeyDerivationFunction } instead. This method will be removed as of
* ESAPI release 2.1 so if you are using this, please change your code.
*/
/**
* Return true if specified cipher mode is one of those specified in the
* { @code ESAPI.properties } file that supports both confidentiality
* <b>and</b> authenticity (i.e., a "combined cipher mode" as NIST refers
* to it).
* @param cipherMode The specified cipher mode to be used for the encryption
* or decryption operation.
* @return true if the specified cipher mode is in the comma-separated list
* of cipher modes supporting both confidentiality and authenticity;
* otherwise false.
* @see org.owasp.esapi.SecurityConfiguration#getCombinedCipherModes()
*/

```

Found in path(s):

* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/crypto/CryptoHelper.java

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*

* @author Jeff Williams Aspect Security

* @created 2007

*/

Found in path(s):

* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/tags/BaseEncodeTag.java

* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/tags/EncodeForVBScriptTag.java

* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/tags/EncodeForHTMLTag.java

* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/tags/EncodeForHTMLAttributeTag.java

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/**

* OWASP Enterprise Security API (ESAPI)

*

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* (ESAPI) project. For details, please see <a

* href="http://www.owasp.org/index.php/ESAPI">http://www.owasp.org/index.php/ESAPI.

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*

* @author Jeff Williams Aspect Security

* @created 2007

*/

Found in path(s):

* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/codecs/CSSCodec.java

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* @author Jeff Williams Aspect Security

* @created 2007

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Found in path(s):

* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/errors/ValidationAvailabilityException.java

* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/reference/validation/HTMLValidationRule.java

* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/errors/AuthenticationHostException.java

* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/codecs/PercentCodec.java

* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/codecs/MySQLCodec.java

* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/codecs/WindowsCodec.java

* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/StringUtilities.java

* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/Encoder.java

* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/errors/AvailabilityException.java

* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/reference/validation/BaseValidationRule.java

* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/codecs/PushbackString.java

* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/reference/validation/IntegerValidationRule.java

* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/reference/DefaultRandomizer.java

* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/reference/validation/DateValidationRule.java

* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-

jar/org/owasp/esapi/reference/validation/NumberValidationRule.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/User.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/reference/DefaultEncoder.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/reference/DefaultIntrusionDetector.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/reference/crypto/DefaultEncryptedProperties.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/errors/AuthenticationCredentialsException.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/errors/IntegrityException.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/errors/ValidationUploadException.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/filters/RequestRateThrottleFilter.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/errors/EncryptionException.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/errors/AuthenticationAccountsException.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/AccessReferenceMap.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/IntrusionDetector.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/reference/validation/StringValidationRule.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/Logger.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/errors/ExecutorException.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/filters/SecurityWrapper.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/codecs/JavaScriptCodec.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/Authenticator.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/reference/DefaultUser.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/errors/ValidationException.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/Randomizer.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/AccessController.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/codecs/Codec.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/filters/ESAPIFilter.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/errors/EnterpriseSecurityException.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/errors/AccessControlException.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/errors/EncodingException.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-


```
jar/org/owasp/esapi/errors/AuthenticationException.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/codecs/UnixCodec.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-
jar/org/owasp/esapi/reference/IntegerAccessReferenceMap.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-
jar/org/owasp/esapi/errors/AuthenticationLoginException.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-
jar/org/owasp/esapi/codecs/HTMLEntityCodec.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-
jar/org/owasp/esapi/codecs/VBScriptCodec.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-
jar/org/owasp/esapi/EncryptedProperties.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-
jar/org/owasp/esapi/reference/validation/CreditCardValidationRule.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-
jar/org/owasp/esapi/errors/CertificateException.java
```

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```
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 *
 * @author Jeff Williams <a href="http://www.aspectsecurity.com">Aspect Security</a>
 * @created 2007
 */
```

Found in path(s):

```
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-
jar/org/owasp/esapi/errors/EncryptionRuntimeException.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-
jar/org/owasp/esapi/errors/EnterpriseSecurityRuntimeException.java
```

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 *

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*
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```

Found in path(s):

```
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-
jar/org/owasp/esapi/codecs/XMLEntityCodec.java
```

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```
/**
```

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*
* @author Mike Fauzy <a href="http://www.aspectsecurity.com">Aspect Security</a>
* @author Rogan Dawes <a href="http://www.aspectsecurity.com">Aspect Security</a>
* @created 2008
*/
```

Found in path(s):

```
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/ESAPI.java
```

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Found in path(s):

```
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/package.html
```

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```
/**
```

```
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*
*/
```

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*
* @author Jeff Williams <a href="http://www.aspectsecurity.com">Aspect Security</a>
* @created February 6, 2009
*/
```

Found in path(s):

```
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-
jar/org/owasp/esapi/filters/ClickjackFilter.java
```

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```
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*
* @author Jeff Williams <a href="http://www.aspectsecurity.com">Aspect Security</a>
* @author Jim Manico (jim@manico.net) <a href="http://www.manico.net">Manico.net</a>
*
* @created 2007
*/
```

Found in path(s):

```
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-
jar/org/owasp/esapi/reference/DefaultValidator.java
```

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*
* @author Rogan DawesAspect Security
* @created 2008
*/

Found in path(s):

* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/LogFactory.java
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```
/**
 * <p>Encodes and decodes to and from Base64 notation.</p>
 * <p>Homepage: <a href="http://iharder.net/base64">http://iharder.net/base64</a>.</p>
 *
 * <p>The <tt>options</tt> parameter, which appears in a few places, is used to pass
 * several pieces of information to the encoder. In the "higher level" methods such as
 * encodeBytes( bytes, options ) the options parameter can be used to indicate such
 * things as first gzipping the bytes before encoding them, not inserting linefeeds
 * (though that breaks strict Base64 compatibility), and encoding using the URL-safe
 * and Ordered dialects.</p>
 *
 * <p>The constants defined in Base64 can be OR-ed together to combine options, so you
 * might make a call like this:</p>
 *
 * <code>String encoded = Base64.encodeBytes( mybytes, Base64.GZIP | Base64.DONT_BREAK_LINES
 * );</code>
 *
 * <p>to compress the data before encoding it and then making the output have no newline characters.</p>
 *
 *
 * <p>
 * Change Log:
 * </p>
 * <ul>
 * <li>v2.2.2 - Fixed encodeFileToFile and decodeFileToFile to use the
 * Base64.InputStream class to encode and decode on the fly which uses
 * less memory than encoding/decoding an entire file into memory before writing.</li>
 * <li>v2.2.1 - Fixed bug using URL_SAFE and ORDERED encodings. Fixed bug
 * when using very small files (~< 40 bytes).</li>
 * <li>v2.2 - Added some helper methods for encoding/decoding directly from
 * one file to the next. Also added a main() method to support command line
 * encoding/decoding from one file to the next. Also added these Base64 dialects:
 * <ol>
 * <li>The default is RFC3548 format.</li>
 * <li>Calling Base64.setFormat(Base64.BASE64_FORMAT.URLSAFE_FORMAT) generates
 * URL and file name friendly format as described in Section 4 of RFC3548.
 * http://www.faqs.org/rfcs/rfc3548.html</li>
 * <li>Calling Base64.setFormat(Base64.BASE64_FORMAT.ORDERED_FORMAT) generates
 * URL and file name friendly format that preserves lexical ordering as described
```

* in <http://www.faqs.org/qa/rfcc-1940.html>

*

* Special thanks to Jim Kellerman at <http://www.powerset.com/>

* for contributing the new Base64 dialects.

*

*

- * v2.1 - Cleaned up javadoc comments and unused variables and methods. Added some convenience methods for reading and writing to and from files.
- * v2.0.2 - Now specifies UTF-8 encoding in places where the code fails on systems with other encodings (like EBCDIC).
- * v2.0.1 - Fixed an error when decoding a single byte, that is, when the encoded data was a single byte.
- * v2.0 - I got rid of methods that used booleans to set options. Now everything is more consolidated and cleaner. The code now detects when data that's being decoded is gzip-compressed and will decompress it automatically. Generally things are cleaner. You'll probably have to change some method calls that you were making to support the new options format (<tt>int</tt>s that you "OR" together).
- * v1.5.1 - Fixed bug when decompressing and decoding to a byte[] using <tt>decode(String s, boolean gzipCompressed)</tt>. Added the ability to "suspend" encoding in the Output Stream so you can turn on and off the encoding if you need to embed base64 data in an otherwise "normal" stream (like an XML file).
- * v1.5 - Output stream pases on flush() command but doesn't do anything itself. This helps when using GZIP streams. Added the ability to GZip-compress objects before encoding them.
- * v1.4 - Added helper methods to read/write files.
- * v1.3.6 - Fixed OutputStream.flush() so that 'position' is reset.
- * v1.3.5 - Added flag to turn on and off line breaks. Fixed bug in input stream where last buffer being read, if not completely full, was not returned.
- * v1.3.4 - Fixed when "improperly padded stream" error was thrown at the wrong time.
- * v1.3.3 - Fixed I/O streams which were totally messed up.

*

* <p>

* I am placing this code in the Public Domain. Do with it as you will.

* This software comes with no guarantees or warranties but with plenty of well-wishing instead!

* Please visit <http://iharder.net/base64> periodically to check for updates or to contribute improvements.

* </p>

*

* @author Robert Harder

* @author rob@iharder.net

* @version 2.2.2

*/

Found in path(s):

* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/codecs/Base64.java
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*
* @author Chris Schmidt (chris.schmidt@owasp.org)
* @created 2010
*/

Found in path(s):

* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/crypto/CryptoDiscoverer.java
No license file was found, but licenses were detected in source scan.

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*
* @author Mike Fauzy Aspect Security
* @author Jeff Williams Aspect Security
* @created 2007
*/

Found in path(s):

* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/reference/accesscontrol/FileBasedACRs.java
No license file was found, but licenses were detected in source scan.

/**

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*
* @author Jeff Williams <a href="http://www.aspectsecurity.com">Aspect Security</a>
* @author kevin.w.wall@gmail.com
* @created 2007
*/
// Using cipher mode that supports *both* confidentiality *and* authenticity? If so, then
// If we are using a "preferred" cipher mode--i.e., one that supports *both* confidentiality and

```

Found in path(s):

```

* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-
jar/org/owasp/esapi/reference/crypto/JavaEncryptor.java

```

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

```

/**

```

```

* The method is ESAPI's Key Derivation Function (KDF) that computes a
* derived key from the { @code keyDerivationKey } for either
* encryption / decryption or for authentication.
* <p>
* <b>CAUTION:</b> If this algorithm for computing derived keys from the
* key derivation key is <i>ever</i> changed, we risk breaking backward compatibility of being
* able to decrypt data previously encrypted with earlier / different versions
* of this method. Therefore, do not change this unless you are 100% certain that
* what you are doing will NOT change either of the derived keys for
* ANY "key derivation key" AT ALL!!!
* <p>
* <b>NOTE:</b> This method is generally not intended to be called separately.
* It is used by ESAPI's reference crypto implementation class { @code JavaEncryptor }
* and might be useful for someone implementing their own replacement class, but
* generally it is not something that is useful to application client code.
*
* @param keyDerivationKey A key used as an input to a key derivation function
*
*         to derive other keys. This is the key that generally
*
*         is created using some key generation mechanism such as
*
*         { @link #generateSecretKey(String, int) }. The
*
*         "input" key from which the other keys are derived.
*
*     The derived key will have the same algorithm type
*
*     as this key. This KDK cannot be null.
* @param keySize The cipher's key size (in bits) for the { @code keyDerivationKey }.
*
*     Must have a minimum size of 56 bits and be an integral multiple of 8-bits.

```

```

* <b>Note:</b> The derived key will have the same size as this.
* @param purpose The purpose for the derived key. For the ESAPI reference implementation,
*   { @code JavaEncryptor }, this <i>must</i> be either the string "encryption" or
*   "authenticity", where "encryption" is used for creating a derived key to use
*   for confidentiality, and "authenticity" is used for creating a derived key to
*   use with a MAC to ensure message authenticity. However, since parameter serves
*   the same purpose as the "Label" in section 5.1 of NIST SP 800-108, it really can
*   be set to anything other than { @code null } or an empty string when called outside
*   of { @code JavaEncryptor }.
* @return The derived { @code SecretKey } to be used according
*   to the specified purpose.
* @throws NoSuchAlgorithmException The { @code keyDerivationKey } has an unsupported
*   encryption algorithm or no current JCE provider supports
*   "HmacSHA1".
* @throws EncryptionException If "UTF-8" is not supported as an encoding, then
*   this is thrown with the original { @code UnsupportedEncodingException }
*   as the cause. (NOTE: This should never happen as "UTF-8" is supposed to
*   be a common encoding supported by all Java implementations. Support
*   for it is usually in rt.jar.)
* @throws InvalidKeyException Likely indicates a coding error. Should not happen.
* @throws EncryptionException Throw for some precondition violations.
*/

```

Found in path(s):

```

* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-
jar/org/owasp/esapi/crypto/KeyDerivationFunction.java

```

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```

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*
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*
* @author Jeff Williams <a href="http://www.aspectsecurity.com">Aspect Security</a>
* @created 2007
*/
/**
* { @inheritDoc }
*
* The reference implementation sets the work directory, escapes the parameters as per the Codec in use,
* and then executes the command without using concatenation. The exact, absolute, canonical path of each

```


- * executable must be listed as an approved executable in the ESAPI properties. The executable must also
- * exist on the disk. All failures will be logged, along with parameters if specified. Set the logParams to false if
- * you are going to invoke this interface with confidential information.
- */

Found in path(s):

* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/reference/DefaultExecutor.java

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*

* @author Jeff Williams Aspect Security

* @created 2007

*/

Found in path(s):

* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/reference/AbstractAccessReferenceMap.java

* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/reference/Log4JLogger.java

* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/codecs/OracleCodec.java

* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/reference/Log4JLogFactory.java

* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/reference/RandomAccessReferenceMap.java

* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/reference/DefaultHTTPUtilities.java

* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/reference/crypto/ReferenceEncryptedProperties.java

* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/reference/DefaultSecurityConfiguration.java

* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/HTTPUtilities.java

* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/Validator.java

* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/reference/Log4JLoggerFactory.java

* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-

jar/org/owasp/esapi/reference/FileBasedAuthenticator.java

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```
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 *
 * @author Jeff Williams <a href="http://www.aspectsecurity.com">Aspect Security</a>
 * @created 2007
 */
```

```
/**
 * Executes a system command after checking that the executable exists and
 * escaping all the parameters to ensure that injection is impossible.
 * Implementations must change to the specified working
 * directory before invoking the command.
 *
 * @param executable
 *         the command to execute
 * @param params
 *         the parameters of the command being executed
 * @param workdir
 *         the working directory
 * @param codec
 *         the codec to use to encode for the particular OS in use
 * @param logParams
 *         use false if any parameters contains sensitive or confidential information
 *
 * @return the output of the command being run
 *
 * @throws ExecutorException
 *         the service exception
 */
```

Found in path(s):

* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/Executor.java

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```
/**
 * OWASP Enterprise Security API (ESAPI)
 *
```

```
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* Enterprise Security API (ESAPI) project. For details, please see
* <a href="http://www.owasp.org/index.php/ESAPI">http://www.owasp.org/index.php/ESAPI</a>.
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*
* @author Jeff Williams <a href="http://www.aspectsecurity.com">Aspect Security</a>
*
* @created 2007
*/
```

Found in path(s):

```
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-
jar/org/owasp/esapi/ValidationErrorList.java
```

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

```
/**
```

```
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*
* @author Jeff Williams <a href="http://www.aspectsecurity.com">Aspect
* Security</a>
* @created 2007
*/
```

Found in path(s):

```
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-
jar/org/owasp/esapi/filters/SecurityWrapperRequest.java
```

```
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-
jar/org/owasp/esapi/filters/SecurityWrapperResponse.java
```

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

```
/**
```

```
* This methods adds a provider to the { @code SecurityManager}
* either by some generic name or by the class name.
* </p><p>
* The following generic JCE provider names are built-in:
* <ul>
* <li>SunJCE</li>
* <li>IBMJCE [for WebSphere]</li>
```

- * `GnuCrypto [for use with GNU Compiler for Java, i.e., gcj]`
- * `BC [i.e., Bouncy Castle]`
- * `IAIK`
- * `CryptixCrypto (or Cryptix)`
- * `ABA`
- * ``
- * Note that neither Cryptix or ABA are actively maintained so
- * it is recommended that you do not start using them for ESAPI
- * unless your application already has a dependency on them. Furthermore,
- * the Cryptix JCE jars likely will not work as the Cryptix code signing
- * certificate has expired as of August 28, 2009. (This likely is true
- * for ABA, but I can't even find a copy to download!). Lastly, the IAIK
- * provider is no longer offered as free, open source. It is not a
- * commercial product. See { `@link http://jce.iaik.tugraz.at/` } for
- * details. While some older versions were offered free, it is not clear
- * whether the accompanying license still allows you to use it, and if
- * it does, whether or not the code signing certificate used to sign
- * their JCE jar(s) has expired are not. Therefore, if you are looking
- * for a FOSS alternative to SunJCE, Bouncy Castle
- * ({ `@link http://www.bouncycastle.org/` } is probably your best bet. The
- * BC provider does support many the "combined cipher modes" that provide
- * both confidentiality and authenticity. (See the { `@code ESAPI.properties` }
- * property { `@code Encryptor.cipher_modes.combined_modes` } for details.)
- * `</p><p>`
- * For those working in the U.S. federal government, it should be noted
- * that `<i>none</i>` of the providers listed here are considered validated
- * by NIST's Cryptographic Module Validation Program and are therefore
- * `not` considered FIPS 140-2 compliant. There are a few approved
- * JCE compatible Java libraries that are on NIST's CMVP list, but this
- * list changes constantly so they are not listed here. For further details
- * on NIST's CMVP, see
- * { `@link http://csrc.nist.gov/groups/STM/cmvp/index.html` }.
- * `</p><p>`
- * Finally, if you wish to use some other JCE provider not recognized above,
- * you must specify the provider's fully-qualified class name (which in
- * turn must have a public, no argument constructor).
- * `</p><p>`
- * The application must be given the { `@code SecurityPermission` } with a
- * value of { `@code insertProvider.<provider_name>` } (where
- * `<provider_name>` is the name of the algorithm provider if
- * a security manager is installed.
- * `</p>`
- *
- * `@param algProvider` Name of the JCE algorithm provider. If the name
- * contains a ".", this is interpreted as the name
- * of a { `@code java.security.Provider` } class name.
- * `@param pos` The preference position (starting at 1) that the
- * caller would like for this provider. If you wish

```

*         for it to be installed as the <i>last</i> provider
*         (as of the time of this call), set { @code pos } to -1.
* @return The actual preference position at which the provider was added,
*         or -1 if the provider was not added because it is already
*         installed.
* @exception NoSuchProviderException - thrown if the provider class
*         could not be loaded or added to the { @code SecurityManager } or
*         any other reason for failure.
*/

```

Found in path(s):

```

* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-
jar/org/owasp/esapi/crypto/SecurityProviderLoader.java

```

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```

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*
* @author Mike Fauzy <a href="http://www.aspectsecurity.com">Aspect Security</a>
* @author Jeff Williams <a href="http://www.aspectsecurity.com">Aspect Security</a>
* @created 2007
*/
/**
* Return a { @code List } of strings of combined cipher modes that support
* <b>both</b> confidentiality and authenticity. These would be preferred
* cipher modes to use if your JCE provider supports them. If such a
* cipher mode is used, no explicit <i>separate</i> MAC is calculated as part of
* the { @code CipherText } object upon encryption nor is any attempt made
* to verify the same on decryption.
* </p><p>
* The list is taken from the comma-separated list of cipher modes specified
* by the ESAPI property
* { @code Encryptor.cipher_modes.combined_modes }.
*
* @return The parsed list of comma-separated cipher modes if the property
* was specified in { @code ESAPI.properties }; otherwise the empty list is
* returned.
*/

```

Found in path(s):

* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/SecurityConfiguration.java

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*

* @author Arshan Dabirsiaghi Aspect Security

* @created 2008

*/

Found in path(s):

* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/SafeFile.java

1.32 spring-framework 3.0.7.RELEASE

1.32.1 Available under license :

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Found in path(s):

* /opt/cola/permits/1136652693_1613848766.9/0/spring-core-3-0-7-release-sources-4-

jar/org/springframework/util/Assert.java

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 */
```

Found in path(s):

```
* /opt/cola/permits/1136652693_1613848766.9/0/spring-core-3-0-7-release-sources-4-
jar/org/springframework/core/io/support/PropertiesLoaderUtils.java
* /opt/cola/permits/1136652693_1613848766.9/0/spring-core-3-0-7-release-sources-4-
jar/org/springframework/core/AttributeAccessor.java
* /opt/cola/permits/1136652693_1613848766.9/0/spring-core-3-0-7-release-sources-4-
jar/org/springframework/core/SpringVersion.java
* /opt/cola/permits/1136652693_1613848766.9/0/spring-core-3-0-7-release-sources-4-
jar/org/springframework/core/ParameterNameDiscoverer.java
* /opt/cola/permits/1136652693_1613848766.9/0/spring-core-3-0-7-release-sources-4-
jar/org/springframework/util/xml/SimpleSaxErrorHandler.java
* /opt/cola/permits/1136652693_1613848766.9/0/spring-core-3-0-7-release-sources-4-
jar/org/springframework/core/io/InputStreamResource.java
* /opt/cola/permits/1136652693_1613848766.9/0/spring-core-3-0-7-release-sources-4-
jar/org/springframework/core/io/support/LocalizedResourceHelper.java
* /opt/cola/permits/1136652693_1613848766.9/0/spring-core-3-0-7-release-sources-4-
jar/org/springframework/core/ConstantException.java
* /opt/cola/permits/1136652693_1613848766.9/0/spring-core-3-0-7-release-sources-4-
jar/org/springframework/core/annotation/AnnotationAwareOrderComparator.java
```

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- */

Found in path(s):

- * /opt/cola/permits/1136652693_1613848766.9/0/spring-core-3-0-7-release-sources-4-jar/org/springframework/util/CollectionUtils.java
- * /opt/cola/permits/1136652693_1613848766.9/0/spring-core-3-0-7-release-sources-4-jar/org/springframework/core/io/Resource.java
- * /opt/cola/permits/1136652693_1613848766.9/0/spring-core-3-0-7-release-sources-4-jar/org/springframework/util/xml/StaxStreamContentHandler.java
- * /opt/cola/permits/1136652693_1613848766.9/0/spring-core-3-0-7-release-sources-4-jar/org/springframework/core/serializer/support/DeserializingConverter.java
- * /opt/cola/permits/1136652693_1613848766.9/0/spring-core-3-0-7-release-sources-4-jar/org/springframework/core/io/support/VfsPatternUtils.java
- * /opt/cola/permits/1136652693_1613848766.9/0/spring-core-3-0-7-release-sources-4-jar/org/springframework/util/PropertyPlaceholderHelper.java
- * /opt/cola/permits/1136652693_1613848766.9/0/spring-core-3-0-7-release-sources-4-jar/org/springframework/core/serializer/support/SerializationFailedException.java
- * /opt/cola/permits/1136652693_1613848766.9/0/spring-core-3-0-7-release-sources-4-jar/org/springframework/util/xml/StaxStreamXMLReader.java
- * /opt/cola/permits/1136652693_1613848766.9/0/spring-core-3-0-7-release-sources-4-jar/org/springframework/util/xml/StaxUtils.java
- * /opt/cola/permits/1136652693_1613848766.9/0/spring-core-3-0-7-release-sources-4-jar/org/springframework/util/SerializationUtils.java
- * /opt/cola/permits/1136652693_1613848766.9/0/spring-core-3-0-7-release-sources-4-jar/org/springframework/core/serializer/support/SerializingConverter.java
- * /opt/cola/permits/1136652693_1613848766.9/0/spring-core-3-0-7-release-sources-4-jar/org/springframework/core/annotation/AnnotationUtils.java
- * /opt/cola/permits/1136652693_1613848766.9/0/spring-core-3-0-7-release-sources-4-jar/org/springframework/util/LinkedMultiValueMap.java
- * /opt/cola/permits/1136652693_1613848766.9/0/spring-core-3-0-7-release-sources-4-jar/org/springframework/util/xml/StaxEventXMLReader.java
- * /opt/cola/permits/1136652693_1613848766.9/0/spring-core-3-0-7-release-sources-4-jar/org/springframework/util/xml/XMLEventStreamWriter.java
- * /opt/cola/permits/1136652693_1613848766.9/0/spring-core-3-0-7-release-sources-4-jar/org/springframework/util/StopWatch.java
- * /opt/cola/permits/1136652693_1613848766.9/0/spring-core-3-0-7-release-sources-4-jar/org/springframework/util/PathMatcher.java
- * /opt/cola/permits/1136652693_1613848766.9/0/spring-core-3-0-7-release-sources-4-jar/org/springframework/util/FileSystemUtils.java
- * /opt/cola/permits/1136652693_1613848766.9/0/spring-core-3-0-7-release-sources-4-jar/org/springframework/core/SimpleAliasRegistry.java
- * /opt/cola/permits/1136652693_1613848766.9/0/spring-core-3-0-7-release-sources-4-

jar/org/springframework/util/ClassUtils.java
* /opt/cola/permits/1136652693_1613848766.9/0/spring-core-3-0-7-release-sources-4-
jar/org/springframework/core/convert/ConversionFailedException.java
* /opt/cola/permits/1136652693_1613848766.9/0/spring-core-3-0-7-release-sources-4-
jar/org/springframework/util/WeakReferenceMonitor.java
* /opt/cola/permits/1136652693_1613848766.9/0/spring-core-3-0-7-release-sources-4-
jar/org/springframework/util/xml/AbstractStaxContentHandler.java
* /opt/cola/permits/1136652693_1613848766.9/0/spring-core-3-0-7-release-sources-4-
jar/org/springframework/util/ResourceUtils.java
* /opt/cola/permits/1136652693_1613848766.9/0/spring-core-3-0-7-release-sources-4-
jar/org/springframework/core/type/classreading/AnnotationMetadataReadingVisitor.java
* /opt/cola/permits/1136652693_1613848766.9/0/spring-core-3-0-7-release-sources-4-
jar/org/springframework/util/TypeUtils.java
* /opt/cola/permits/1136652693_1613848766.9/0/spring-core-3-0-7-release-sources-4-
jar/org/springframework/core/convert/support/StringToArrayConverter.java
* /opt/cola/permits/1136652693_1613848766.9/0/spring-core-3-0-7-release-sources-4-
jar/org/springframework/core/convert/ConverterNotFoundException.java
* /opt/cola/permits/1136652693_1613848766.9/0/spring-core-3-0-7-release-sources-4-
jar/org/springframework/util/SystemPropertyUtils.java
* /opt/cola/permits/1136652693_1613848766.9/0/spring-core-3-0-7-release-sources-4-
jar/org/springframework/util/xml/XMLEventStreamReader.java
* /opt/cola/permits/1136652693_1613848766.9/0/spring-core-3-0-7-release-sources-4-
jar/org/springframework/core/io/support/ResourceArrayPropertyEditor.java
* /opt/cola/permits/1136652693_1613848766.9/0/spring-core-3-0-7-release-sources-4-
jar/org/springframework/core/GenericCollectionTypeResolver.java
* /opt/cola/permits/1136652693_1613848766.9/0/spring-core-3-0-7-release-sources-4-
jar/org/springframework/core/io/VfsResource.java
* /opt/cola/permits/1136652693_1613848766.9/0/spring-core-3-0-7-release-sources-4-
jar/org/springframework/core/io/support/ResourcePatternUtils.java
* /opt/cola/permits/1136652693_1613848766.9/0/spring-core-3-0-7-release-sources-4-
jar/org/springframework/core/type/classreading/CachingMetadataReaderFactory.java
* /opt/cola/permits/1136652693_1613848766.9/0/spring-core-3-0-7-release-sources-4-
jar/org/springframework/core/LocalVariableTableParameterNameDiscoverer.java
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* /opt/cola/permits/1136652693_1613848766.9/0/spring-core-3-0-7-release-sources-4-
jar/org/springframework/core/io/ContextResource.java
* /opt/cola/permits/1136652693_1613848766.9/0/spring-core-3-0-7-release-sources-4-
jar/org/springframework/util/StringValueResolver.java
* /opt/cola/permits/1136652693_1613848766.9/0/spring-core-3-0-7-release-sources-4-
jar/org/springframework/core/io/support/ResourcePatternResolver.java
* /opt/cola/permits/1136652693_1613848766.9/0/spring-core-3-0-7-release-sources-4-
jar/org/springframework/core/SmartClassLoader.java
* /opt/cola/permits/1136652693_1613848766.9/0/spring-core-3-0-7-release-sources-4-
jar/org/springframework/util/xml/XmlValidationModeDetector.java
* /opt/cola/permits/1136652693_1613848766.9/0/spring-core-3-0-7-release-sources-4-
jar/org/springframework/core/type/filter/AbstractTypeHierarchyTraversingFilter.java
* /opt/cola/permits/1136652693_1613848766.9/0/spring-core-3-0-7-release-sources-4-
jar/org/springframework/core/type/filter/AbstractClassTestingTypeFilter.java
* /opt/cola/permits/1136652693_1613848766.9/0/spring-core-3-0-7-release-sources-4-
jar/org/springframework/core/task/TaskTimeoutException.java
* /opt/cola/permits/1136652693_1613848766.9/0/spring-core-3-0-7-release-sources-4-
jar/org/springframework/core/type/filter/AspectJTypeFilter.java
* /opt/cola/permits/1136652693_1613848766.9/0/spring-core-3-0-7-release-sources-4-
jar/org/springframework/core/type/filter/TypeFilter.java
* /opt/cola/permits/1136652693_1613848766.9/0/spring-core-3-0-7-release-sources-4-
jar/org/springframework/util/PatternMatchUtils.java
* /opt/cola/permits/1136652693_1613848766.9/0/spring-core-3-0-7-release-sources-4-
jar/org/springframework/core/io/support/EncodedResource.java
* /opt/cola/permits/1136652693_1613848766.9/0/spring-core-3-0-7-release-sources-4-
jar/org/springframework/core/style/ValueStyler.java
* /opt/cola/permits/1136652693_1613848766.9/0/spring-core-3-0-7-release-sources-4-
jar/org/springframework/core/type/filter/RegexPatternTypeFilter.java
* /opt/cola/permits/1136652693_1613848766.9/0/spring-core-3-0-7-release-sources-4-
```


jar/org/springframework/core/style/StylerUtils.java
* /opt/cola/permits/1136652693_1613848766.9/0/spring-core-3-0-7-release-sources-4-
jar/org/springframework/core/io/FileSystemResourceLoader.java
* /opt/cola/permits/1136652693_1613848766.9/0/spring-core-3-0-7-release-sources-4-
jar/org/springframework/core/io/ResourceLoader.java
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jar/org/springframework/util/comparator/InvertibleComparator.java
* /opt/cola/permits/1136652693_1613848766.9/0/spring-core-3-0-7-release-sources-4-
jar/org/springframework/util/comparator/NullSafeComparator.java
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jar/org/springframework/core/PrioritizedParameterNameDiscoverer.java
* /opt/cola/permits/1136652693_1613848766.9/0/spring-core-3-0-7-release-sources-4-
jar/org/springframework/util/DefaultPropertiesPersister.java
* /opt/cola/permits/1136652693_1613848766.9/0/spring-core-3-0-7-release-sources-4-
jar/org/springframework/util/CommonsLogWriter.java
* /opt/cola/permits/1136652693_1613848766.9/0/spring-core-3-0-7-release-sources-4-
jar/org/springframework/core/style/ToStringCreator.java
* /opt/cola/permits/1136652693_1613848766.9/0/spring-core-3-0-7-release-sources-4-
jar/org/springframework/core/NamedInheritableThreadLocal.java
* /opt/cola/permits/1136652693_1613848766.9/0/spring-core-3-0-7-release-sources-4-
jar/org/springframework/core/task/TaskExecutor.java
* /opt/cola/permits/1136652693_1613848766.9/0/spring-core-3-0-7-release-sources-4-
jar/org/springframework/util/xml/DomUtils.java
* /opt/cola/permits/1136652693_1613848766.9/0/spring-core-3-0-7-release-sources-4-
jar/org/springframework/core/io/FileSystemResource.java
* /opt/cola/permits/1136652693_1613848766.9/0/spring-core-3-0-7-release-sources-4-
jar/org/springframework/core/NamedThreadLocal.java
* /opt/cola/permits/1136652693_1613848766.9/0/spring-core-3-0-7-release-sources-4-
jar/org/springframework/core/task/TaskRejectedException.java
* /opt/cola/permits/1136652693_1613848766.9/0/spring-core-3-0-7-release-sources-4-
jar/org/springframework/core/DecoratingClassLoader.java
* /opt/cola/permits/1136652693_1613848766.9/0/spring-core-3-0-7-release-sources-4-
jar/org/springframework/core/ControlFlowFactory.java
* /opt/cola/permits/1136652693_1613848766.9/0/spring-core-3-0-7-release-sources-4-
jar/org/springframework/core/Constants.java
* /opt/cola/permits/1136652693_1613848766.9/0/spring-core-3-0-7-release-sources-4-
jar/org/springframework/core/style/DefaultValueStyler.java
* /opt/cola/permits/1136652693_1613848766.9/0/spring-core-3-0-7-release-sources-4-
jar/org/springframework/util/Log4jConfigurer.java
* /opt/cola/permits/1136652693_1613848766.9/0/spring-core-3-0-7-release-sources-4-
jar/org/springframework/core/style/DefaultToStringStyler.java
* /opt/cola/permits/1136652693_1613848766.9/0/spring-core-3-0-7-release-sources-4-
jar/org/springframework/util/FileCopyUtils.java
* /opt/cola/permits/1136652693_1613848766.9/0/spring-core-3-0-7-release-sources-4-
jar/org/springframework/util/AutoPopulatingList.java
* /opt/cola/permits/1136652693_1613848766.9/0/spring-core-3-0-7-release-sources-4-
jar/org/springframework/util/comparator/CompoundComparator.java
* /opt/cola/permits/1136652693_1613848766.9/0/spring-core-3-0-7-release-sources-4-
jar/org/springframework/core/io/DescriptiveResource.java
* /opt/cola/permits/1136652693_1613848766.9/0/spring-core-3-0-7-release-sources-4-
jar/org/springframework/util/comparator/ComparableComparator.java
* /opt/cola/permits/1136652693_1613848766.9/0/spring-core-3-0-7-release-sources-4-
jar/org/springframework/core/io/support/PropertiesLoaderSupport.java
* /opt/cola/permits/1136652693_1613848766.9/0/spring-core-3-0-7-release-sources-4-
jar/org/springframework/util/comparator/BooleanComparator.java
* /opt/cola/permits/1136652693_1613848766.9/0/spring-core-3-0-7-release-sources-4-
jar/org/springframework/util/xml/TransformerUtils.java
* /opt/cola/permits/1136652693_1613848766.9/0/spring-core-3-0-7-release-sources-4-

jar/org/springframework/core/NestedExceptionUtils.java
* /opt/cola/permits/1136652693_1613848766.9/0/spring-core-3-0-7-release-sources-4-
jar/org/springframework/core/InfrastructureProxy.java
* /opt/cola/permits/1136652693_1613848766.9/0/spring-core-3-0-7-release-sources-4-
jar/org/springframework/util/ConcurrencyThrottleSupport.java
* /opt/cola/permits/1136652693_1613848766.9/0/spring-core-3-0-7-release-sources-4-
jar/org/springframework/util/xml/SimpleTransformErrorListener.java
* /opt/cola/permits/1136652693_1613848766.9/0/spring-core-3-0-7-release-sources-4-
jar/org/springframework/core/AliasRegistry.java
* /opt/cola/permits/1136652693_1613848766.9/0/spring-core-3-0-7-release-sources-4-
jar/org/springframework/core/style/ToStringStyler.java
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jar/org/springframework/util/CompositeIterator.java
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* /opt/cola/permits/1136652693_1613848766.9/0/spring-core-3-0-7-release-sources-4-jar/org/springframework/util/PropertiesPersister.java

* /opt/cola/permits/1136652693_1613848766.9/0/spring-core-3-0-7-release-sources-4-jar/org/springframework/core/ControlFlow.java

* /opt/cola/permits/1136652693_1613848766.9/0/spring-core-3-0-7-release-sources-4-jar/org/springframework/core/ErrorCodeed.java

1.33 cxf-rt-frontend-js 2.7.14

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1.34 axis-saaj 1.3

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Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

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We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

^L

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the

Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

^L

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining

where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

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^L

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

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It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the

integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

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^L

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END OF TERMS AND CONDITIONS

^L

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>

Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

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You should have received a copy of the GNU Lesser General Public

License along with this library; if not, write to the Free Software
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper
mail.

You should also get your employer (if you work as a programmer) or
your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James
Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
This package was debianized by Jean Pierre LeJacq
<jplejacq@quoininc.com> on Wed, 25 Feb 1998. Martin Pitt
<martin@piware.de> was the package's maintainer up to version
2.7.19-1. The current maintainer is Jan Dittberner
<jandd@debian.org>.

It was downloaded from <http://sourceforge.net/projects/cracklib>

Copyright (c) 1993 Alec Muffett <alecm@crypto.dircon.co.uk>,
Copyright (c) 2005-2009 Nathan Neulinger <nneul@umr.edu>,
Copyright (c) 2008-2009 Jan Dittberner <jan@dittberner.info>

Modifications: Added cronjob, configuration file, and man pages.

This library is free software; you can redistribute it and/or modify
it under the terms of the GNU Lesser General Public License as
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License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but
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/usr/share/common-licenses/LGPL-2.1 in the Debian GNU/Linux
distribution or on the World Wide Web at
<http://www.gnu.org/licenses/old-licenses/lgpl-2.1.html>. You can also
obtain it by writing to the Free Software Foundation, Inc., 51

Franklin St, Fifth Floor, Boston, MA 02110-1301, USA.

Copyright information:

CrackLib was originally licensed with a variant of the Artistic license. In the interests of wider acceptance and more modern licensing, it was switched with the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett. Cracklib's license was changed from the GPL to the LGPL after consensus of all previous developers in October 2008, effective with release 2.8.15 released on 2009-11-19. See the email discussion below for both license changes.

EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected in released code until Nov 2009 - slow release cycle...)

Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.

[Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML

looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=
r=20

GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists

=2Dmike

Re: [Cracklib-devel] cracklib license

From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18

I understand that, and you're welcome to bring it up with Alec directly and see if he wants to relicense his code as LGPL... but at this point, it was enough to just get it consistent and documented as to what it was released under. This wasn't actually a license change, just a clarification of the licensing that was already in place.=20

-- Nathan

=20

Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----

> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:15 PM
> To: cracklib-devel@li...
> Subject: [Cracklib-devel] cracklib license

>=20

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> libraries under
> GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
> -mike

Re: [Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML

On Monday 01 October 2007, Neulinger, Nathan wrote:

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change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless th=
eir=20

applications are also GPL-2 which imo is just wrong. it isnt the place of =
a=20

library to dictact to application writes what license they should be using.=
=20

thus LGPL-2.1 enters to fill this void.

=2Dmike

Re: [Cracklib-devel] cracklib license

From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46

Seems like the ideal thing here would be for you and the other distro maintainers to get together with Alec in a conversation and come to a decision as to what licensing scheme y'all want. I haven't really done much other than cleaning up the packaging and patches and a small bit of additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan

=20

Nathan Neulinger EMail: nneul@um...

University of Missouri - Rolla Phone: (573) 341-6679

UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----

> From: cracklib-devel-bounces@li...

> [mailto:cracklib-devel-bounces@li...] On Behalf Of

> Mike Frysinger

> Sent: Monday, October 01, 2007 8:33 PM

> To: Neulinger, Nathan

> Cc: cracklib-devel@li...; Alec Muffett

> Subject: Re: [Cracklib-devel] cracklib license

>=20

> On Monday 01 October 2007, Neulinger, Nathan wrote:

>> I understand that, and you're welcome to bring it up with Alec

> directly

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> library to dictact to application writes what license they should

> be using.

> thus LGPL-2.1 enters to fill this void.

> -mike

Re: [Cracklib-devel] cracklib license

From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57

> Seems like the ideal thing here would be for you and the other distro
> maintainers to get together with Alec in a conversation and come to a
> decision as to what licensing scheme y'all want. I haven't really done
> much other than cleaning up the packaging and patches and a small
> bit of
> additional code, so whatever licensing y'all come up with is fine
> by me.

I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be
linked with any code, not just GPL...

-a

Re: [Cracklib-devel] cracklib license

From: Devin Reade <gdr@gn...> - 2007-10-02 15:04

I would like to see it under LGPL as well. I think it is in everyone's
best interests to have as secure systems as possible, and I think tainting
it via GPL will just make it less likely that the library gets used, and
will not usually cause companies/developers to GPL the dependent code
(where it is not already GPL).

I like GPL, I use it when I can, but I don't think that it's the correct
license in this situation.

Devin

--

If it's sinful, it's more fun.

Re: [Cracklib-devel] cracklib license

From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32

On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:

>> Seems like the ideal thing here would be for you and the other distro
>> maintainers to get together with Alec in a conversation and come to a
>> decision as to what licensing scheme y'all want. I haven't really done
>> much other than cleaning up the packaging and patches and a small
>> bit of
>> additional code, so whatever licensing y'all come up with is fine
>> by me.
>
> I am sympathetic. Guys, what do you reckon?
>

> What I am hearing so far is that LGPL makes sense, since it can be
> linked with any code, not just GPL...

My apologies for not chiming in in anything resembling a reasonable
timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately,
GPLv2 with the option of using the library under a later version of the
GPL would permit applications which were released under version 3 of the
GPL to use the library, too, which would be sufficient for the packages
which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML

On Monday 28 January 2008, Nalin Dahyabhai wrote:

> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:

>>> Seems like the ideal thing here would be for you and the other distro
>>> maintainers to get together with Alec in a conversation and come to a
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>>> by me.

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>> linked with any code, not just GPL...

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> timeframe.

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> GPL would permit applications which were released under version 3 of the
> GPL to use the library, too, which would be sufficient for the packages
> which are included in Fedora. FWIW, I'd personally lean toward LGPL.

>

> In any case, I thank you both for working on sorting this out.

looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make the change now ?

-mike

Re: [Cracklib-devel] cracklib license

From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18

>> In any case, I thank you both for working on sorting this out.

>

> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make

> the change now ?

yes. go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML

On Sunday 05 October 2008, Alec Muffett wrote:

> >> In any case, I thank you both for working on sorting this out.

> >

> > looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we

> > make the change now ?

>

> yes. go for it. thanks++

Nathan Neulinger is the only one who can actually make said change ...

-mike

BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.

CrackLib was originally licensed with a variant of the Artistic license. In the interests of wider acceptance and more modern licensing, it was switched with the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address that was used at the time. For any future emails regarding this, please

use nneul@neulinger.org.

From alecm@crypticide.com Mon Oct 1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
Mon, 1 Oct 2007 12:26:02 -0500
Received: (gmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id 191Gxtpr020623
for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from [82.68.43.14] (helo=[192.168.1.3])
by rutherford.zen.co.uk with esmtp (Exim 4.50)
id 1IcOcX-0004Qt-6L
for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status: RO
Content-Length: 585
Lines: 21

>

> ----- Forwarded message -----

> From: Neulinger, Nathan <nneul@umr.edu>
> Date: Sep 27, 2007 2:58 PM
> Subject: RE: cracklib license
> To: alecm@crypto.dircon.co.uk
>
> Any chance you could write me a self-contained email stating clearly
> that the license is being changed to GPL, so I could include that
> email
> in the repository and clean up the repository/tarballs? I have all the
> original discussion, but something succinct and self contained
> would be
> ideal.

The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected
in released code until Nov 2009 - slow release cycle...)

Discussion thread from mailing list archive, with approval from everyone actively
involved or holding original licensing rights included.

[Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML

looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=
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=2Dmike

Re: [Cracklib-devel] cracklib license

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-- Nathan

=20

Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
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> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:15 PM
> To: cracklib-devel@li...
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thus LGPL-2.1 enters to fill this void.
=2Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46
Seems like the ideal thing here would be for you and the other distro

maintainers to get together with Alec in a conversation and come to a decision as to what licensing scheme y'all want. I haven't really done much other than cleaning up the packaging and patches and a small bit of additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan

=20

Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----

> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
> Subject: Re: [Cracklib-devel] cracklib license

>=20

> On Monday 01 October 2007, Neulinger, Nathan wrote:
> > I understand that, and you're welcome to bring it up with Alec
> directly
> > and see if he wants to relicense his code as LGPL... but at this
> point,
> > it was enough to just get it consistent and documented as to what
> it was
> > released under. This wasn't actually a license change, just a
> > clarification of the licensing that was already in place.

>=20

> the original license (before moving to sourceforge -- aka, 2.7) was
> not
> GPL-2 ... it was a modified artistic license ... i didnt notice the
> license
> change until it was mentioned in the latest notes.

>=20

> unlike the old license, GPL-2 prevents people from using cracklib
> unless their
> applications are also GPL-2 which imo is just wrong. it isnt the
> place of a
> library to dictact to application writes what license they should
> be using.
> thus LGPL-2.1 enters to fill this void.
> -mike

Re: [Cracklib-devel] cracklib license

From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57

> Seems like the ideal thing here would be for you and the other distro
> maintainers to get together with Alec in a conversation and come to a
> decision as to what licensing scheme y'all want. I haven't really done
> much other than cleaning up the packaging and patches and a small
> bit of
> additional code, so whatever licensing y'all come up with is fine
> by me.

I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be
linked with any code, not just GPL...

-a

Re: [Cracklib-devel] cracklib license

From: Devin Reade <gdr@gn...> - 2007-10-02 15:04

I would like to see it under LGPL as well. I think it is in everyone's
best interests to have as secure systems as possible, and I think tainting
it via GPL will just make it less likely that the library gets used, and
will not usually cause companies/developers to GPL the dependent code
(where it is not already GPL).

I like GPL, I use it when I can, but I don't think that it's the correct
license in this situation.

Devin

--

If it's sinful, it's more fun.

Re: [Cracklib-devel] cracklib license

From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32

On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:

>> Seems like the ideal thing here would be for you and the other distro
>> maintainers to get together with Alec in a conversation and come to a
>> decision as to what licensing scheme y'all want. I haven't really done
>> much other than cleaning up the packaging and patches and a small
>> bit of
>> additional code, so whatever licensing y'all come up with is fine
>> by me.
>
> I am sympathetic. Guys, what do you reckon?
>
> What I am hearing so far is that LGPL makes sense, since it can be
> linked with any code, not just GPL...

My apologies for not chiming in in anything resembling a reasonable timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately, GPLv2 with the option of using the library under a later version of the GPL would permit applications which were released under version 3 of the GPL to use the library, too, which would be sufficient for the packages which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML

On Monday 28 January 2008, Nalin Dahyabhai wrote:

> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:

>>> Seems like the ideal thing here would be for you and the other distro
>>> maintainers to get together with Alec in a conversation and come to a
>>> decision as to what licensing scheme y'all want. I haven't really done
>>> much other than cleaning up the packaging and patches and a small
>>> bit of
>>> additional code, so whatever licensing y'all come up with is fine
>>> by me.

>>

>> I am sympathetic. Guys, what do you reckon?

>>

>> What I am hearing so far is that LGPL makes sense, since it can be
>> linked with any code, not just GPL...

>

> My apologies for not chiming in in anything resembling a reasonable
> timeframe.

>

> I'd also suggest the LGPL, for the reason you noted above. Alternately,
> GPLv2 with the option of using the library under a later version of the
> GPL would permit applications which were released under version 3 of the
> GPL to use the library, too, which would be sufficient for the packages
> which are included in Fedora. FWIW, I'd personally lean toward LGPL.

>

> In any case, I thank you both for working on sorting this out.

looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make

the change now ?

-mike

Re: [Cracklib-devel] cracklib license

From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18

>> In any case, I thank you both for working on sorting this out.

>

> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make

> the change now ?

yes. go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML

On Sunday 05 October 2008, Alec Muffett wrote:

> >> In any case, I thank you both for working on sorting this out.

> >

> > looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we

> > make the change now ?

>

> yes. go for it. thanks++

Nathan Neulinger is the only one who can actually make said change ...

-mike

BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.

CrackLib was originally licensed with a variant of the Artistic license. In the interests of wider acceptance and more modern licensing, it was switched with the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address that was used at the time. For any future emails regarding this, please use nneul@neulinger.org.

From alecm@crypticide.com Mon Oct 1 12:26:03 2007
Received: from umr-exproto2.cc.umn.edu ([131.151.0.192]) by UMR-CMAIL1.umn.edu with Microsoft SMTPSVC(6.0.3790.3959);
Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umn.edu with Microsoft SMTPSVC(6.0.3790.3959);
Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
by scanin-ipvs.cc.umn.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id 191Gxtpr020623
for <nneul@umn.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from [82.68.43.14] (helo=[192.168.1.3])
by rutherford.zen.co.uk with esmtp (Exim 4.50)
id 1IcOcX-0004Qt-6L
for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umn.edu>
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status: RO
Content-Length: 585
Lines: 21

>
> ----- Forwarded message -----
> From: Neulinger, Nathan <nneul@umn.edu>
> Date: Sep 27, 2007 2:58 PM

- > Subject: RE: cracklib license
- > To: alecm@crypto.dircon.co.uk
- >
- > Any chance you could write me a self-contained email stating clearly
- > that the license is being changed to GPL, so I could include that
- > email
- > in the repository and clean up the repository/tarballs? I have all the
- > original discussion, but something succinct and self contained
- > would be
- > ideal.

The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

1.38 joda-time 2.7

1.38.1 Available under license :

=====

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=====

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1.39 cxf-xjc-ts 3.0.2

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1.40 cxf-xjc-bug671 3.0.2

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1.41 ping 1.4

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- * /opt/cola/permits/1258047540_1643026979.07/0/axis2-scripting-1-4-sources-jar/org/apache/axis2/scripting/convertors/DefaultOMEElementConvertor.java
- * /opt/cola/permits/1258047540_1643026979.07/0/axis2-scripting-1-4-sources-jar/org/apache/axis2/scripting/convertors/RBOMEElementConvertor.java
- * /opt/cola/permits/1258047540_1643026979.07/0/axis2-scripting-1-4-sources-jar/org/apache/axis2/scripting/ScriptReceiver.java

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

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Found in path(s):

- * /opt/cola/permits/1258047540_1643026979.07/0/axis2-scripting-1-4-sources-jar/META-INF/module.xml

1.44 libpcap 1.4.0 4.20130826git2dbcaa1.e16

1.44.1 Available under license :

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1.45 cxf-rt-bindings-xml 2.7.14

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1.46 curl 7.19.7-54.el6_10

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License Mixing

=====

libcurl can be built to use a fair amount of various third party libraries, libraries that are written and provided by other parties that are distributed using their own licenses. Even libcurl itself contains code that may cause problems to some. This document attempts to describe what licenses libcurl and the other libraries use and what possible dilemmas linking and mixing them all can lead to for end users.

I am not a lawyer and this is not legal advice!

One common dilemma is that [GPL](<https://www.gnu.org/licenses/gpl.html>) licensed code is not allowed to be linked with code licensed under the [Original BSD license](<https://spdx.org/licenses/BSD-4-Clause.html>) (with the announcement clause). You may still build your own copies that use them all, but distributing them as binaries would be to violate the GPL license - unless you accompany your license with an [exception](<https://www.gnu.org/licenses/gpl-faq.html#GPLIncompatibleLibs>). This particular problem was addressed when the [Modified BSD license](<https://opensource.org/licenses/BSD-3-Clause>) was created, which does not have the announcement clause that collides with GPL.

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c-ares

(Used for asynchronous name resolves) Uses an MIT license that is very liberal and imposes no restrictions on any other library or part you may link with.

zlib

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MIT Kerberos

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Heimdal

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OpenLDAP

(Used for LDAP support) Uses a Modified BSD-style license. Since libcurl uses OpenLDAP as a shared library only, I have not heard of anyone that ships OpenLDAP linked with libcurl in an app.

libssh2

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1.47 atk 1.28.0

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1.50 dmraid 1.0.0.rc16 11.el6

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1.54 zlib 1.0.0

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1.55 axiom-api 1.2.13

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jar/net/oauth/SimpleOAuthValidator.java

1.57 axis2-transport-http 1.6.2

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file

that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more

than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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```
<one line to give the library's name and a brief idea of what it does.>  
Copyright (C) <year> <name of author>
```

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version 2 of the License, or (at your option) any later version.
```

```
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Free Software Foundation, Inc., 59 Temple Place - Suite 330,  
Boston, MA 02111-1307 USA.
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```
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library `Frob' (a library for tweaking knobs) written by James Random Hacker.
```

```
<signature of Ty Coon>, 1 April 1990
```

Ty Coon, President of Vice

That's all there is to it!

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We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be

linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is

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c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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1.64 httpcomponents-client 4.5.2

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1.65 tiles-api 3.0.8

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```

```
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jar/org/springframework/http/client/ClientHttpRequest.java
* /opt/cola/permits/1136652159_1613848624.98/0/spring-web-3-0-7-release-sources-4-
jar/org/springframework/web/bind/support/WebRequestDataBinder.java
* /opt/cola/permits/1136652159_1613848624.98/0/spring-web-3-0-7-release-sources-4-
jar/org/springframework/web/context/support/ServletContextResourceLoader.java
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jar/org/springframework/http/converter/StringHttpMessageConverter.java
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jar/org/springframework/web/client/HttpServerErrorException.java
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jar/org/springframework/http/client/support/ProxyFactoryBean.java
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* /opt/cola/permits/1136652159_1613848624.98/0/spring-web-3-0-7-release-sources-4-jar/org/springframework/web/bind/annotation/ResponseBody.java

* /opt/cola/permits/1136652159_1613848624.98/0/spring-web-3-0-7-release-sources-4-jar/org/springframework/http/client/CommonsClientHttpRequest.java

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/*
```

```

    * @see org.eclipse.jetty.server.Connector#getConfidentialPort()
    */
/*
    * @see org.eclipse.jetty.server.Connector#getConfidentialScheme()
    */
/*
    * @see org.eclipse.jetty.server.Connector#isConfidential(org.eclipse.jetty.server .Request)
    */
/*
    * @see org.eclipse.jetty.server.Connector#isConfidential(org.eclipse.jetty.server.Request)
    */
/**
    * @param confidentialPort
    *     The confidentialPort to set.
    */
/**
    * @param confidentialScheme
    *     The confidentialScheme to set.
    */

```

Found in path(s):

```

* /opt/cola/permits/1000740496_1608542190.38/0/jetty-server-8-1-15-v20140411-sources-
jar/org/eclipse/jetty/server/AbstractConnector.java

```

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```

Found in path(s):

```

* /opt/cola/permits/1000740496_1608542190.38/0/jetty-server-8-1-15-v20140411-sources-
jar/org/eclipse/jetty/server/ResourceCache.java
* /opt/cola/permits/1000740496_1608542190.38/0/jetty-server-8-1-15-v20140411-sources-
jar/org/eclipse/jetty/server/SessionManager.java
* /opt/cola/permits/1000740496_1608542190.38/0/jetty-server-8-1-15-v20140411-sources-
jar/org/eclipse/jetty/server/ShutdownMonitor.java
* /opt/cola/permits/1000740496_1608542190.38/0/jetty-server-8-1-15-v20140411-sources-
jar/org/eclipse/jetty/server/ssl/SslConnector.java
* /opt/cola/permits/1000740496_1608542190.38/0/jetty-server-8-1-15-v20140411-sources-
jar/org/eclipse/jetty/server/RequestLog.java
* /opt/cola/permits/1000740496_1608542190.38/0/jetty-server-8-1-15-v20140411-sources-
jar/org/eclipse/jetty/server/ServletRequestHttpWrapper.java
* /opt/cola/permits/1000740496_1608542190.38/0/jetty-server-8-1-15-v20140411-sources-
jar/org/eclipse/jetty/server/handler/HandlerCollection.java
* /opt/cola/permits/1000740496_1608542190.38/0/jetty-server-8-1-15-v20140411-sources-

```


jar/org/eclipse/jetty/server/HttpOutput.java
* /opt/cola/permits/1000740496_1608542190.38/0/jetty-server-8-1-15-v20140411-sources-
jar/org/eclipse/jetty/server/handler/ResourceHandler.java
* /opt/cola/permits/1000740496_1608542190.38/0/jetty-server-8-1-15-v20140411-sources-
jar/org/eclipse/jetty/server/handler/ConnectHandler.java
* /opt/cola/permits/1000740496_1608542190.38/0/jetty-server-8-1-15-v20140411-sources-
jar/org/eclipse/jetty/server/handler/ScopedHandler.java
* /opt/cola/permits/1000740496_1608542190.38/0/jetty-server-8-1-15-v20140411-sources-
jar/org/eclipse/jetty/server/handler/HandlerList.java
* /opt/cola/permits/1000740496_1608542190.38/0/jetty-server-8-1-15-v20140411-sources-
jar/org/eclipse/jetty/server/SessionIdManager.java
* /opt/cola/permits/1000740496_1608542190.38/0/jetty-server-8-1-15-v20140411-sources-
jar/org/eclipse/jetty/server/Authentication.java
* /opt/cola/permits/1000740496_1608542190.38/0/jetty-server-8-1-15-v20140411-sources-
jar/org/eclipse/jetty/server/handler/DebugHandler.java
* /opt/cola/permits/1000740496_1608542190.38/0/jetty-server-8-1-15-v20140411-sources-
jar/org/eclipse/jetty/server/handler/StatisticsHandler.java
* /opt/cola/permits/1000740496_1608542190.38/0/jetty-server-8-1-15-v20140411-sources-
jar/org/eclipse/jetty/server/nio/AbstractNIOConnector.java
* /opt/cola/permits/1000740496_1608542190.38/0/jetty-server-8-1-15-v20140411-sources-
jar/org/eclipse/jetty/server/CookieCutter.java
* /opt/cola/permits/1000740496_1608542190.38/0/jetty-server-8-1-15-v20140411-sources-
jar/org/eclipse/jetty/server/handler/ContextHandlerCollection.java
* /opt/cola/permits/1000740496_1608542190.38/0/jetty-server-8-1-15-v20140411-sources-
jar/org/eclipse/jetty/server/session/HashSessionIdManager.java
* /opt/cola/permits/1000740496_1608542190.38/0/jetty-server-8-1-15-v20140411-sources-
jar/org/eclipse/jetty/server/Dispatcher.java
* /opt/cola/permits/1000740496_1608542190.38/0/jetty-server-8-1-15-v20140411-sources-
jar/org/eclipse/jetty/server/session/HashSessionManager.java
* /opt/cola/permits/1000740496_1608542190.38/0/jetty-server-8-1-15-v20140411-sources-
jar/org/eclipse/jetty/server/handler/ShutdownHandler.java
* /opt/cola/permits/1000740496_1608542190.38/0/jetty-server-8-1-15-v20140411-sources-
jar/org/eclipse/jetty/server/session/jmx/AbstractSessionManagerMBean.java
* /opt/cola/permits/1000740496_1608542190.38/0/jetty-server-8-1-15-v20140411-sources-
jar/org/eclipse/jetty/server/Handler.java
* /opt/cola/permits/1000740496_1608542190.38/0/jetty-server-8-1-15-v20140411-sources-
jar/org/eclipse/jetty/server/NCSARequestLog.java
* /opt/cola/permits/1000740496_1608542190.38/0/jetty-server-8-1-15-v20140411-sources-
jar/org/eclipse/jetty/server/nio/NetworkTrafficSelectChannelConnector.java
* /opt/cola/permits/1000740496_1608542190.38/0/jetty-server-8-1-15-v20140411-sources-
jar/org/eclipse/jetty/server/HandlerContainer.java
* /opt/cola/permits/1000740496_1608542190.38/0/jetty-server-8-1-15-v20140411-sources-
jar/org/eclipse/jetty/server/session/JDBCSessionIdManager.java
* /opt/cola/permits/1000740496_1608542190.38/0/jetty-server-8-1-15-v20140411-sources-
jar/org/eclipse/jetty/server/handler/IPAccessHandler.java
* /opt/cola/permits/1000740496_1608542190.38/0/jetty-server-8-1-15-v20140411-sources-
jar/org/eclipse/jetty/server/session/AbstractSession.java
* /opt/cola/permits/1000740496_1608542190.38/0/jetty-server-8-1-15-v20140411-sources-

jar/org/eclipse/jetty/server/InclusiveByteRange.java
* /opt/cola/permits/1000740496_1608542190.38/0/jetty-server-8-1-15-v20140411-sources-
jar/org/eclipse/jetty/server/handler/HandlerWrapper.java
* /opt/cola/permits/1000740496_1608542190.38/0/jetty-server-8-1-15-v20140411-sources-
jar/org/eclipse/jetty/server/nio/NIOConnector.java
* /opt/cola/permits/1000740496_1608542190.38/0/jetty-server-8-1-15-v20140411-sources-
jar/org/eclipse/jetty/server/jmx/ServerMBean.java
* /opt/cola/permits/1000740496_1608542190.38/0/jetty-server-8-1-15-v20140411-sources-
jar/org/eclipse/jetty/server/Server.java
* /opt/cola/permits/1000740496_1608542190.38/0/jetty-server-8-1-15-v20140411-sources-
jar/org/eclipse/jetty/server/handler/ContextHandler.java
* /opt/cola/permits/1000740496_1608542190.38/0/jetty-server-8-1-15-v20140411-sources-
jar/org/eclipse/jetty/server/handler/ErrorHandler.java
* /opt/cola/permits/1000740496_1608542190.38/0/jetty-server-8-1-15-v20140411-sources-
jar/org/eclipse/jetty/server/session/SessionHandler.java
* /opt/cola/permits/1000740496_1608542190.38/0/jetty-server-8-1-15-v20140411-sources-
jar/org/eclipse/jetty/server/handler/HotSwapHandler.java
* /opt/cola/permits/1000740496_1608542190.38/0/jetty-server-8-1-15-v20140411-sources-
jar/org/eclipse/jetty/server/AsyncNCSARequestLog.java
* /opt/cola/permits/1000740496_1608542190.38/0/jetty-server-8-1-15-v20140411-sources-
jar/org/eclipse/jetty/server/Response.java
* /opt/cola/permits/1000740496_1608542190.38/0/jetty-server-8-1-15-v20140411-sources-
jar/org/eclipse/jetty/server/session/AbstractSessionIdManager.java
* /opt/cola/permits/1000740496_1608542190.38/0/jetty-server-8-1-15-v20140411-sources-
jar/org/eclipse/jetty/server/handler/jmx/AbstractHandlerMBean.java
* /opt/cola/permits/1000740496_1608542190.38/0/jetty-server-8-1-15-v20140411-sources-
jar/org/eclipse/jetty/server/handler/AbstractHandler.java
* /opt/cola/permits/1000740496_1608542190.38/0/jetty-server-8-1-15-v20140411-sources-
jar/org/eclipse/jetty/server/handler/DefaultHandler.java
* /opt/cola/permits/1000740496_1608542190.38/0/jetty-server-8-1-15-v20140411-sources-
jar/org/eclipse/jetty/server/HttpWriter.java
* /opt/cola/permits/1000740496_1608542190.38/0/jetty-server-8-1-15-v20140411-sources-
jar/org/eclipse/jetty/server/session/AbstractSessionManager.java
* /opt/cola/permits/1000740496_1608542190.38/0/jetty-server-8-1-15-v20140411-sources-
jar/org/eclipse/jetty/server/handler/IdleTimeoutHandler.java
* /opt/cola/permits/1000740496_1608542190.38/0/jetty-server-8-1-15-v20140411-sources-
jar/org/eclipse/jetty/server/session/JDBCSessionManager.java
* /opt/cola/permits/1000740496_1608542190.38/0/jetty-server-8-1-15-v20140411-sources-
jar/org/eclipse/jetty/server/Request.java
* /opt/cola/permits/1000740496_1608542190.38/0/jetty-server-8-1-15-v20140411-sources-
jar/org/eclipse/jetty/server/UserIdentity.java
* /opt/cola/permits/1000740496_1608542190.38/0/jetty-server-8-1-15-v20140411-sources-
jar/org/eclipse/jetty/server/session/HashedSession.java
* /opt/cola/permits/1000740496_1608542190.38/0/jetty-server-8-1-15-v20140411-sources-
jar/org/eclipse/jetty/server/handler/jmx/ContextHandlerMBean.java
* /opt/cola/permits/1000740496_1608542190.38/0/jetty-server-8-1-15-v20140411-sources-
jar/org/eclipse/jetty/server/nio/BlockingChannelConnector.java
* /opt/cola/permits/1000740496_1608542190.38/0/jetty-server-8-1-15-v20140411-sources-

```

jar/org/eclipse/jetty/server/ssl/ServletSSL.java
* /opt/cola/permits/1000740496_1608542190.38/0/jetty-server-8-1-15-v20140411-sources-
jar/org/eclipse/jetty/server/nio/InheritedChannelConnector.java
* /opt/cola/permits/1000740496_1608542190.38/0/jetty-server-8-1-15-v20140411-sources-
jar/org/eclipse/jetty/server/handler/RequestLogHandler.java
* /opt/cola/permits/1000740496_1608542190.38/0/jetty-server-8-1-15-v20140411-sources-
jar/org/eclipse/jetty/server/handler/MovedContextHandler.java
* /opt/cola/permits/1000740496_1608542190.38/0/jetty-server-8-1-15-v20140411-sources-
jar/org/eclipse/jetty/server/AsyncHttpConnection.java
* /opt/cola/permits/1000740496_1608542190.38/0/jetty-server-8-1-15-v20140411-sources-
jar/org/eclipse/jetty/server/ssl/SslCertificates.java
* /opt/cola/permits/1000740496_1608542190.38/0/jetty-server-8-1-15-v20140411-sources-
jar/org/eclipse/jetty/server/BlockingHttpConnection.java
* /opt/cola/permits/1000740496_1608542190.38/0/jetty-server-8-1-15-v20140411-sources-
jar/org/eclipse/jetty/server/nio/SelectChannelConnector.java
* /opt/cola/permits/1000740496_1608542190.38/0/jetty-server-8-1-15-v20140411-sources-
jar/org/eclipse/jetty/server/LocalConnector.java
* /opt/cola/permits/1000740496_1608542190.38/0/jetty-server-8-1-15-v20140411-sources-
jar/org/eclipse/jetty/server/handler/GzipHandler.java
* /opt/cola/permits/1000740496_1608542190.38/0/jetty-server-8-1-15-v20140411-sources-
jar/org/eclipse/jetty/server/bio/SocketConnector.java
* /opt/cola/permits/1000740496_1608542190.38/0/jetty-server-8-1-15-v20140411-sources-
jar/org/eclipse/jetty/server/ServletResponseHttpWrapper.java
* /opt/cola/permits/1000740496_1608542190.38/0/jetty-server-8-1-15-v20140411-sources-
jar/org/eclipse/jetty/server/handler/AbstractHandlerContainer.java
* /opt/cola/permits/1000740496_1608542190.38/0/jetty-server-8-1-15-v20140411-sources-
jar/org/eclipse/jetty/server/HttpInput.java
* /opt/cola/permits/1000740496_1608542190.38/0/jetty-server-8-1-15-v20140411-sources-
jar/org/eclipse/jetty/server/AsyncContinuation.java
* /opt/cola/permits/1000740496_1608542190.38/0/jetty-server-8-1-15-v20140411-sources-
jar/org/eclipse/jetty/server/handler/ProxyHandler.java
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Found in path(s):

```

* /opt/cola/permits/1000740496_1608542190.38/0/jetty-server-8-1-15-v20140411-sources-jar/about.html
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/**
 * Find out if the request supports CONFIDENTIAL security.
 * @param request the incoming HTTP request
 * @return the result of calling {@link Connector#isConfidential(Request)}, or false
 * if there is no connector
 */
```

Found in path(s):

```
* /opt/cola/permits/1000740496_1608542190.38/0/jetty-server-8-1-15-v20140411-sources-
jar/org/eclipse/jetty/server/AbstractHttpConnection.java
```

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Connector: HTTP Connector.

server: MObject:RO:The server for this connector

requestHeaderSize: The size of a request header buffer

requestBufferSize: The size of a request content buffer

responseHeaderSize: The size of a response header buffer

responseBufferSize: The size of a response content buffer

integralPort: Port to use for integral redirections

integralScheme: Scheme to use for integral redirections

confidentialPort: Port to use for confidential redirections

confidentialScheme: Scheme to use for confidential redirections

host: Host name to accept connections on

port: TCP/IP port to accept connections on

maxIdleTime: Maximum time in ms that a connection can be idle before being closed

statsOn: True if statistics collection is turned on.

statsOnMs: Time in milliseconds stats have been collected for.

statsReset(): Reset statistics.

connections: Number of connections accepted by the server since statsReset() called. Undefined if setStatsOn(false).

connectionsOpen: Number of connections currently open that were opened since statsReset() called. Undefined if setStatsOn(false).

connectionsOpenMax: Maximum number of connections opened simultaneously since statsReset() called.

Undefined if setStatsOn(false).

connectionsDurationMean: Mean duration in milliseconds of open connections since statsReset() called. Undefined if setStatsOn(false).

connectionsDurationStdDev: Standard deviation of duration in milliseconds of an open connection since statsReset() called. Undefined if setStatsOn(false).

connectionsDurationMax: Maximum duration in milliseconds of an open connection since statsReset() called.

Undefined if setStatsOn(false).

connectionsDurationTotal: Total duration in milliseconds of all open connection since statsReset() called. Undefined if setStatsOn(false).

connectionsRequestsMean: Mean number of requests per connection since statsReset() called. Undefined if setStatsOn(false).

connectionsRequestsStdDev: Standard deviation of number of requests per connection since statsReset() called. Undefined if setStatsOn(false).
connectionsRequestsMax: Maximum number of requests per connection since statsReset() called. Undefined if setStatsOn(false).
requests: Number of requests since statsReset() called. Undefined if setStatsOn(false).
open(): Open the listening port
close(): Close the listening port (but allow existing connections to continue for graceful shutdown)

Found in path(s):

```
* /opt/cola/permits/1000740496_1608542190.38/0/jetty-server-8-1-15-v20140411-sources-jar/org/eclipse/jetty/server/jmx/Connector-mbean.properties
```

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/**
 * By default, we're confidential, given we speak SSL. But, if we've been
 * told about an confidential port, and said port is not our port, then
 * we're not. This allows separation of listeners providing INTEGRAL versus
 * CONFIDENTIAL constraints, such as one SSL listener configured to require
 * client certs providing CONFIDENTIAL, whereas another SSL listener not
 * requiring client certs providing mere INTEGRAL constraints.
 */
```

Found in path(s):

```
* /opt/cola/permits/1000740496_1608542190.38/0/jetty-server-8-1-15-v20140411-sources-jar/org/eclipse/jetty/server/ssl/SslSelectChannelConnector.java
```

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AbstractConnector: Abstract implementation of the Connector interface.

acceptors: The number of acceptor threads.

acceptQueueSize: The size of the accept queue.

acceptorPriorityOffset: Priority offset of the acceptor threads. The priority is adjusted by this amount to either favor the acceptance of new threads and newly active connections or to favor the handling of already dispatched connections.

forwardedForHeader: The header name for forwarded for (default x-forwarded-for).

forwardedHostHeader: The header name for forwarded hosts (default x-forwarded-host)

forwardedServerHeader: The header name for forwarded server (default x-forwarded-server)

forwarded: Whether reverse proxy handling is on. True if this connector is checking the forwarded for/host/server headers.

host: Host name of the server.

hostHeader: Forced value for the host header. Only used if forwarded is true.

soLingerTime: Enable or disable SO_LINGER with the specified linger time in seconds.

reuseAddress: Whether the server socket will be opened in SO_REUSEADDR mode.

name: Name of the connector.
resolveNames: Whether or not to use DNS when handling forwards.
confidentialPort: Port to use for confidential redirections.
confidentialScheme: Scheme to use for confidential redirections.
integralPort: Port to use for integral redirections.
integralScheme: Scheme to use for integral redirections.
lowResourcesMaxIdleTime: The period in ms that a connection may be idle when the connector has low resources, before it is closed.

Found in path(s):

```
* /opt/cola/permits/1000740496_1608542190.38/0/jetty-server-8-1-15-v20140411-sources-  
jar/org/eclipse/jetty/server/jmx/AbstractConnector-mbean.properties  
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/**  
 * @return The port to use when redirecting a request if a data constraint of confidential is  
 * required. See { @link org.eclipse.jetty.util.security.Constraint#getDataConstraint()  
 */  
/**  
 * @return The schema to use when redirecting a request if a data constraint of confidential is  
 * required. See { @link org.eclipse.jetty.util.security.Constraint#getDataConstraint()  
 */  
/**  
 * @param request A request  
 * @return true if the request is confidential. This normally means the https schema has been used.  
 */
```

Found in path(s):

```
* /opt/cola/permits/1000740496_1608542190.38/0/jetty-server-8-1-15-v20140411-sources-  
jar/org/eclipse/jetty/server/Connector.java  
No license file was found, but licenses were detected in source scan.
```

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/**  
 * By default, we're confidential, given we speak SSL. But, if we've been told about an  
 * confidential port, and said port is not our port, then we're not. This allows separation of  
 * listeners providing INTEGRAL versus CONFIDENTIAL constraints, such as one SSL listener
```

```
* configured to require client certs providing CONFIDENTIAL, whereas another SSL listener not
* requiring client certs providing mere INTEGRAL constraints.
*/
/**
* By default, we're integral, given we speak SSL. But, if we've been told about an integral
* port, and said port is not our port, then we're not. This allows separation of listeners
* providing INTEGRAL versus CONFIDENTIAL constraints, such as one SSL listener configured to
* require client certs providing CONFIDENTIAL, whereas another SSL listener not requiring
* client certs providing mere INTEGRAL constraints.
*/
```

Found in path(s):

```
* /opt/cola/permits/1000740496_1608542190.38/0/jetty-server-8-1-15-v20140411-sources-
jar/org/eclipse/jetty/server/ssl/SslSocketConnector.java
```

1.77 istack-commons 2.13

1.78 libxdmcp 1.1.2-6.el7

1.78.1 Available under license :

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1.79 msv-core 2011.1

1.80 gir1.2-gdkpixbuf-2.0 2.16.0

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1.84 libsm 1.2.1 2.e16

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1.85 jaxb-xjc 2.2.6

1.86 jettison 1.3.7

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1.87 jasper 1.900.1-22.el6

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1.88 vim 7.4.629-5.el6

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uganda.txt For Vim version 7.4. Last change: 2013 Jul 06

VIM REFERENCE MANUAL by Bram Moolenaar

uganda *Uganda* *copying* *copyright* *license*

SUMMARY

iccf *ICCF*

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<http://www.vim.org/iccf/>

<http://www.iccf.nl/>

You can also sponsor the development of Vim. Vim sponsors can vote for features. See `|sponsor|`. The money goes to Uganda anyway.

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=====

Kibaale Children's Centre *kcc* *Kibaale* *charity*

Kibaale Children's Centre (KCC) is located in Kibaale, a small town in the south of Uganda, near Tanzania, in East Africa. The area is known as Rakai District. The population is mostly farmers. Although people are poor, there is enough food. But this district is suffering from AIDS more than any other part of the world. Some say that it started there. Estimations are that 10 to 30% of the Ugandans are infected with HIV. Because parents die, there are many orphans. In this district about 60,000 children have lost one or both parents, out of a population of 350,000. And this is still continuing.

The children need a lot of help. The KCC is working hard to provide the needy with food, medical care and education. Food and medical care to keep them healthy now, and education so that they can take care of themselves in the future. KCC works on a Christian base, but help is given to children of any religion.

The key to solving the problems in this area is education. This has been neglected in the past years with president Idi Amin and the following civil wars. Now that the government is stable again, the children and parents have to learn how to take care of themselves and how to avoid infections. There is also help for people who are ill and hungry, but the primary goal is to prevent people from getting ill and to teach them how to grow healthy food.

Most of the orphans are living in an extended family. An uncle or older sister is taking care of them. Because these families are big and the income (if any) is low, a child is lucky if it gets healthy food. Clothes, medical care and schooling is beyond its reach. To help these needy children, a sponsorship program was put into place. A child can be financially adopted. For a few dollars a month KCC sees to it that the child gets indispensable items, is healthy, goes to school and KCC takes care of anything else that needs to be done for the child and the family that supports it.

Besides helping the child directly, the environment where the child grows up needs to be improved. KCC helps schools to improve their teaching methods. There is a demonstration school at the centre and teacher trainings are given. Health workers are being trained, hygiene education is carried out and households are stimulated to build a proper latrine. I helped setting up a production site for cement slabs. These are used to build a good latrine. They are sold below cost price.

There is a small clinic at the project, which provides children and their family with medical help. When needed, transport to a hospital is offered. Immunization programs are carried out and help is provided when an epidemic is breaking out (measles and cholera have been a problem).

donate

Summer 1994 to summer 1995 I spent a whole year at the centre, working as a volunteer. I have helped to expand the centre and worked in the area of water

and sanitation. I learned that the help that the KCC provides really helps. When I came back to Holland, I wanted to continue supporting KCC. To do this I'm raising funds and organizing the sponsorship program. Please consider one of these possibilities:

1. Sponsor a child in primary school: 17 euro a month (or more).
2. Sponsor a child in secondary school: 25 euro a month (or more).
3. Sponsor the clinic: Any amount a month or quarter
4. A one-time donation

Compared with other organizations that do child sponsorship the amounts are very low. This is because the money goes directly to the centre. Less than 5% is used for administration. This is possible because this is a small organization that works with volunteers. If you would like to sponsor a child, you should have the intention to do this for at least one year.

How do you know that the money will be spent right? First of all you have my personal guarantee as the author of Vim. I trust the people that are working at the centre, I know them personally. Further more, the centre has been co-sponsored and inspected by World Vision, Save the Children Fund and is now under the supervision of Pacific Academy Outreach Society. The centre is visited about once a year to check the progress (at our own cost). I have visited the centre myself many times, starting in 1993. The visit reports are on the ICCF web site.

If you have any further questions, send me e-mail: <Bram@vim.org>.

The address of the centre is:

Kibaale Children's Centre
p.o. box 1658
Masaka, Uganda, East Africa

Sending money: *iccf-donations*

Check the ICCF web site for the latest information! See [iccf] for the URL.

USA: The methods mentioned below can be used.

Sending a check to the Nehemiah Group Outreach Society (NGOS) is no longer possible, unfortunately. We are looking for another way to get you an IRS tax receipt.

For sponsoring a child contact KCF in Canada (see below). US checks can be sent to them to lower banking costs.

Canada: Contact Kibaale Children's Fund (KCF) in Surrey, Canada. They take care of the Canadian sponsors for the children in Kibaale. KCF forwards 100% of the money to the project in Uganda. You can send them a one time donation directly.

Please send me a note so that I know what has been donated because of Vim. Ask KCF for information about sponsorship.
Kibaale Children's Fund c/o Pacific Academy
10238-168 Street
Surrey, B.C. V4N 1Z4
Canada
Phone: 604-581-5353

If you make a donation to Kibaale Children's Fund (KCF) you will receive a tax receipt which can be submitted with your tax return.

Holland: Transfer to the account of "Stichting ICCF Holland" in Lisse.
This will allow for tax deduction if you live in Holland.
Postbank, nr. 4548774
IBAN: NL95 INGB 0004 5487 74

Germany: It is possible to make donations that allow for a tax return.
Check the ICCF web site for the latest information:
<http://iccf-holland.org/germany.html>

World: Use a postal money order. That should be possible from any country, mostly from the post office. Use this name (which is in my passport): "Abraham Moolenaar". Use Euro for the currency if possible.

Europe: Use a bank transfer if possible. Your bank should have a form that you can use for this. See "Others" below for the swift code and IBAN number.
Any other method should work. Ask for information about sponsorship.

Credit Card: You can use PayPal to send money with a Credit card. This is the most widely used Internet based payment system. It's really simple to use. Use this link to find more info:

https://www.paypal.com/en_US/mrb/pal=XAC62PML3GF8Q

The e-mail address for sending the money to is:

Bram@iccf-holland.org

For amounts above 400 Euro (\$500) sending a check is preferred.

Others: Transfer to one of these accounts if possible:

Postbank, account 4548774

Swift code: INGB NL 2A

IBAN: NL95 INGB 0004 5487 74

under the name "stichting ICCF Holland", Lisse

If that doesn't work:

Rabobank Lisse, account 3765.05.117

Swift code: RABO NL 2U

syn keyword psfPState applied committed superseded contained

syn keyword psfBoolean false true contained

"Some of the attributes covered by attUnquotString and attQuotString:

" architecture category_tag control_directory copyright

" create_date description directory file_permissions install_source

" install_type location machine_type mod_date number os_name os_release

" os_version pose_as_os_name pose_as_os_release readme revision

" share_link title vendor_tag

syn region psfAttUnquotString matchgroup=psfAttrib start=~^\s*[\^#]+\s\+[\^#"] ~rs=e-1

contains=psfUnquotString,psfComment end=~\$~ keepend oneline

syn region psfAttQuotString matchgroup=psfAttrib start=~^\s*[\^#]+\s\+" ~rs=e-1

contains=psfQuotString,psfComment skip=~\|~ matchgroup=psfQuotString end=~"~ keepend

" These regions are defined in attempt to do syntax checking for some

" of the attributes.

syn region psfAttTag matchgroup=psfAttrib start="^\s*tag\s\+" contains=psfObjTag,psfComment end="\$" keepend oneline

syn region psfAttSpec matchgroup=psfAttrib

start="^\s*(ancestor\|applied_patches\|applied_to\|contents\|corequisites\|exquisites\|prerequisites\|software_spec\|supersedes\|superseded_by)\s\+" contains=psfObjTag,psfAttAbbrev,psfComment end="\$" keepend

syn region psfAttTags matchgroup=psfAttrib start="^\s*all_filesets\s\+" contains=psfObjTags,psfComment end="\$" keepend

syn region psfAttNumber matchgroup=psfAttrib

start="^\s*(compressed_size\|instance_id\|media_sequence_number\|sequence_number\|size)\s\+"

contains=psfNumber,psfComment end="\$" keepend oneline

syn region psfAttTime matchgroup=psfAttrib start="^\s*(create_time\|ctime\|mod_time\|mtime\|timestamp)\s\+"

contains=psfNumber,psfComment end="\$" keepend oneline

syn region psfAttFloat matchgroup=psfAttrib start="^\s*(data_model_revision\|layout_version)\s\+"

contains=psfFloat,psfComment end="\$" keepend oneline

syn region psfAttLongDate matchgroup=psfAttrib start="^\s*install_date\s\+" contains=psfLongDate,psfComment end="\$" keepend oneline

syn region psfAttState matchgroup=psfAttrib start="^\s*(state)\s\+" contains=psfState,psfComment end="\$"

keepend oneline

syn region psfAttPState matchgroup=psfAttrib start="^\s*(patch_state)\s\+" contains=psfPState,psfComment

end="\$" keepend oneline

```
syn region psfAttBoolean matchgroup=psfAttrib
start="^\s*(is_kernel|is_locatable|is_patch|is_protected|is_reboot|is_reference|is_secure|is_sparse)|s\+"
contains=psfBoolean,psfComment end="$" keepend oneline
```

```
syn match psfComment "#.*$"
```

```
" Define the default highlighting.
```

```
" For version 5.7 and earlier: only when not done already
```

```
" For version 5.8 and later: only when an item doesn't have highlighting yet
```

```
if version >= 508 || !exists("did_psf_syntax_inits")
```

```
if version < 508
```

```
let did_psf_syntax_inits = 1
```

```
command -nargs=+ HiLink hi link <args>
```

```
else
```

```
command -nargs=+ HiLink hi def link <args>
```

```
endif
```

```
HiLink psfObject Statement
```

```
HiLink psfAttrib Type
```

```
HiLink psfQuotString String
```

```
HiLink psfObjTag Identifier
```

```
HiLink psfAttAbbrev PreProc
```

```
HiLink psfObjTags Identifier
```

```
HiLink psfComment Comment
```

```
delcommand HiLink
```

```
endif
```

```
" Long descriptions and copyrights confuse the syntax highlighting, so
```

```
" force vim to backup at least 100 lines before the top visible line
```

```
" looking for a sync location.
```

```
syn sync lines=100
```

```
let b:current_syntax = "psf"
```

```
/*
```

```
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*
```

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 (XPM - X PixMap format version 2 & 3)
Internet: lehors@sophia.inria.fr
Surface Mail: Arnaud LE HORS, INRIA - Sophia Antipolis,
 2004, route des Lucioles, 06565 Valbonne Cedex -- FRANCE
Voice phone: (33) 93.65.77.71, Fax: (33) 93 65 77 66, Telex: 97 00 50 F

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1.94 eclipse-osgi 3.6.1.R36x_v20100806

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1.95 cxf-xjc-boolean 3.0.2

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1.97 jackson-mapper-asl 1.8.0

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```

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*
```

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```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1081955408_1597852744.52/0/jackson-mapper-asl-1-8-0-sources-1-  
jar/org/codehaus/jackson/map/MappingJsonFactory.java
```

1.98 iputils 20071127

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```
sub { $_[0]->parent->ext->{'attribution'} = pop_output(); }); if($_[0]->ext->{'attribution'}) { output $_[0]->ext->{'attribution'} . "\n"; # ATTRIBUTION'
```

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*/
```

Found in path(s):

```
* /opt/cola/permits/1026426916_1604994003.74/0/jackson-core-asl-1-8-5-sources-  
jar/org/codehaus/jackson/util/ByteArrayBuilder.java  
* /opt/cola/permits/1026426916_1604994003.74/0/jackson-core-asl-1-8-5-sources-  
jar/org/codehaus/jackson/JsonParser.java  
* /opt/cola/permits/1026426916_1604994003.74/0/jackson-core-asl-1-8-5-sources-  
jar/org/codehaus/jackson/JsonFactory.java  
* /opt/cola/permits/1026426916_1604994003.74/0/jackson-core-asl-1-8-5-sources-  
jar/org/codehaus/jackson/JsonStreamContext.java  
* /opt/cola/permits/1026426916_1604994003.74/0/jackson-core-asl-1-8-5-sources-  
jar/org/codehaus/jackson/Base64Variant.java  
* /opt/cola/permits/1026426916_1604994003.74/0/jackson-core-asl-1-8-5-sources-  
jar/org/codehaus/jackson/Base64Variants.java  
* /opt/cola/permits/1026426916_1604994003.74/0/jackson-core-asl-1-8-5-sources-  
jar/org/codehaus/jackson/JsonGenerator.java
```

1.100 screen 4.0.3-19.e16

1.100.1 Available under license :

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```
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```

```
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```

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1.101 jackson-jaxrs 1.9.2

1.102 visual-studio-runtime 8.00.50727.762

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1.103 selinux 2.0.94-7.el6

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1.104 axis2-transport-tcp 1.0.0

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1.105 wss4j 1.6.17

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1.106 forgerock-guava-collect 18.0.4

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- IDEA is no longer included, its use is deprecated
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- GMP is no longer used, and instead we call BN code from OpenSSL
- Zlib is now external, in a library
- The make-ssh-known-hosts script is no longer included
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```
* @version 3.0 (December 2000)
*
* Optimised ANSI C code for the Rijndael cipher (now AES)
*
* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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* Jamie Beverly

* Rafael D'Halleweyn - 2011-06-05 18:56:24 EDT

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*/

```
--- openssh-5.3p1/sftp-server.8 2015-02-10 10:08:09.611849984 +0100
+++ openssh-5.3p1/sftp-server.8.perms 2015-02-10 10:08:52.204120509 +0100
@@ -33,6 +33,7 @@
.Op Fl f Ar log_facility
.Op Fl l Ar log_level
.Op Fl u Ar umask
+.Op Fl m Ar force_file_perms
.Sh DESCRIPTION
.Nm
is a program that speaks the server side of SFTP protocol
@@ -77,6 +78,10 @@ Sets an explicit
.Xr umask 2
```

to be applied to newly-created files and directories, instead of the
user's default mask.

```
+.It Fl m Ar force_file_perms
+Sets explicit file permissions to be applied to newly-created files instead
+of the default or client requested mode. Numeric values include:
+777, 755, 750, 666, 644, 640, etc. Option -u is ineffective if -m is set.
```

```
.El
```

```
.Pp
```

For logging to work,

```
--- openssh-5.3p1/sftp-server.c 2015-02-10 10:08:09.611849984 +0100
+++ openssh-5.3p1/sftp-server.c.perms 2015-02-10 10:39:00.855453028 +0100
@@ -70,6 +70,10 @@ Buffer queue;
/* Version of client */
int version;
```

```
+/* Force file permissions */
```

```
+int permforce = 0;
```

```
+long permforcemode;
```

```
+
```

```
/* portable attributes, etc. */
```

```
typedef struct Stat Stat;
```

```
@@ -547,6 +547,7 @@ process_open(void)
```

```
Attrib *a;
```

```
char *name;
```

```
int handle, fd, flags, mode, status = SSH2_FX_FAILURE;
```

```
+ mode_t old_umask;
```

```

id = get_int();
name = get_string(NULL);
@@ -551,9 +555,15 @@ process_open(void)
a = get_attrib();
flags = flags_from_portable(pflags);
mode = (a->flags & SSH2_FILEXFER_ATTR_PERMISSIONS) ? a->perm : 0666;
+ if (permforce == 1) { /* Force perm if -m is set */
+ mode = permforcemode;
+ old_umask = umask(0); /* so umask does not interfere */
+ }
logit("open \"%s\" flags %s mode 0%o",
      name, string_from_portable(pflags), mode);
fd = open(name, flags, mode);
+ if (permforce == 1)
+ (void) umask(old_umask); /* restore umask to something sane */
if (fd < 0) {
    status = errno_to_portable(errno);
} else {
@@ -1322,8 +1330,8 @@ sftp_server_usage(void)
extern char *__progrname;

fprintf(stderr,
- "usage: %s [-he] [-l log_level] [-f log_facility] [-u umask]\n",
- __progrname);
+ "usage: %s [-he] [-l log_level] [-f log_facility] [-u umask]\n"
+ "      [-m force_file_perms]\n", __progrname);
exit(1);
}

@@ -1343,7 +1351,7 @@ sftp_server_main(int argc, char **argv,
__progrname = ssh_get_progrname(argv[0]);
log_init(__progrname, log_level, log_facility, log_stderr);

- while (!skipargs && (ch = getopt(argc, argv, "f:l:u:che")) != -1) {
+ while (!skipargs && (ch = getopt(argc, argv, "f:l:u:m:che")) != -1) {
    switch (ch) {
        case 'c':
            /*
@@ -1373,6 +1381,15 @@ sftp_server_main(int argc, char **argv,
            fatal("Invalid umask \"%s\"", optarg);
            (void)umask((mode_t)mask);
            break;
+ case 'm':
+ /* Force permissions on file received via sftp */
+ permforce = 1;
+ permforcemode = strtol(optarg, &cp, 8);
+ if (permforcemode < 0 || permforcemode > 0777 ||

```

```

+   *cp != '\0' || (permforcemode == 0 &&
+   errno != 0))
+   fatal("Invalid file mode \"%s\"", optarg);
+   break;
+   case 'h':
+   default:
+       sftp_server_usage();
# $OpenBSD: bsd.regress.mk,v 1.9 2002/02/17 01:10:15 marc Exp $
# No man pages for regression tests.
NOMAN=

# No installation.
install:

# If REGRESSTARGETS is defined and PROG is not defined, set NOPROG
.if defined(REGRESSTARGETS) && !defined(PROG)
NOPROG=
.endif

.include <bsd.prog.mk>

.MAIN: all
all: regress

# XXX - Need full path to REGRESSLOG, otherwise there will be much pain.

REGRESSLOG?=/dev/null
REGRESSNAME=${.CURDIR:S/${BDSRCDIR}\regress///}

.if defined(PROG) && !empty(PROG)
run-regress-${PROG}: ${PROG}
./${PROG}
.endif

.if !defined(REGRESSTARGETS)
REGRESSTARGETS=run-regress-${PROG}
. if defined(REGRESSSKIP)
REGRESSSKIPTARGETS=run-regress-${PROG}
. endif
.endif

REGRESSSKIPLOW?=no

#.if (${REGRESSSKIPLOW:L} == "yes") && defined(REGRESSSLOWTARGETS)

.if (${REGRESSSKIPLOW} == "yes") && defined(REGRESSSLOWTARGETS)
REGRESSSKIPTARGETS+=${REGRESSSLOWTARGETS}
.endif

```

```

.if defined(REGRESSROOTTARGETS)
ROOTUSER!=id -g
SUDO?=-
. if (${ROOTUSER} != 0) && empty(SUDO)
REGRESSSKIPTARGETS+=${REGRESSROOTTARGETS}
. endif
.endif

REGRESSSKIPTARGETS?=-

regress:
.for RT in ${REGRESSTARGETS}
. if ${REGRESSSKIPTARGETS:M${RT}}
@echo -n "SKIP " >> ${REGRESSLOG}
. else
# XXX - we need a better method to see if a test fails due to timeout or just
# normal failure.
. if !defined(REGRESSMAXTIME)
@if cd ${.CURDIR} && ${MAKE} ${RT}; then \
echo -n "SUCCESS " >> ${REGRESSLOG} ; \
else \
echo -n "FAIL " >> ${REGRESSLOG} ; \
echo FAILED ; \
fi
. else
@if cd ${.CURDIR} && (ulimit -t ${REGRESSMAXTIME} ; ${MAKE} ${RT}); then \
echo -n "SUCCESS " >> ${REGRESSLOG} ; \
else \
echo -n "FAIL (possible timeout) " >> ${REGRESSLOG} ; \
echo FAILED ; \
fi
. endif
. endif
@echo ${REGRESSNAME}/${RT:S/^run-regress-//} >> ${REGRESSLOG}
.endfor

```

.PHONY: regress

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/* \$Id: bsd-waitpid.h,v 1.5 2003/08/29 16:59:52 mouring Exp \$ */

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*

*/

```

#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H

#ifndef HAVE_WAITPID
/* Clean out any potential issues */
#undef WIFEXITED
#undef WIFSTOPPED
#undef WIFSIGNALED

/* Define required functions to mimic a POSIX look and feel */
#define _W_INT(w) (*(int*)&(w)) /* convert union wait to int */
#define WIFEXITED(w) (!((_W_INT(w)) & 0377))
#define WIFSTOPPED(w) ((_W_INT(w)) & 0100)
#define WIFSIGNALED(w) (!WIFEXITED(w) && !WIFSTOPPED(w))
#define WEXITSTATUS(w) (int)(WIFEXITED(w) ? ((_W_INT(w)) >> 8) & 0377) : -1)
#define WTERMSIG(w) (int)(WIFSIGNALED(w) ? (_W_INT(w) & 0177) : -1)
#define WCOREFLAG 0x80
#define WCOREDUMP(w) ((_W_INT(w)) & WCOREFLAG)

/* Prototype */
pid_t waitpid(int, int *, int);

#endif /* !HAVE_WAITPID */
#endif /* _BSD_WAITPID_H */

/* $OpenBSD: poll.h,v 1.11 2003/12/10 23:10:08 millert Exp $ */

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```

```
*/
```

```
/* OPENBSD ORIGINAL: sys/sys/poll.h */
```

```
#if !defined(HAVE_POLL) && !defined(HAVE_POLL_H)
```

```
#ifndef _COMPAT_POLL_H_
```

```
#define _COMPAT_POLL_H_
```

```
typedef struct pollfd {
```

```
int fd;
```

```
short events;
```

```
short revents;
```

```
} pollfd_t;
```

```
typedef unsigned int nfds_t;
```

```
#define POLLIN 0x0001
```

```
#define POLLOUT 0x0004
```

```
#define POLLERR 0x0008
```

```
#if 0
```

```
/* the following are currently not implemented */
```

```
#define POLLPRI 0x0002
```

```
#define POLLHUP 0x0010
```

```
#define POLLNVAL 0x0020
```

```
#define POLLRDNORM 0x0040
```

```
#define POLLNORM POLLRDNORM
```

```
#define POLLWRNORM POLLOUT
```

```
#define POLLRDBAND 0x0080
```

```
#define POLLWRBAND 0x0100
```

```
#endif
```

```
#define INFTIM (-1) /* not standard */
```

```
int poll(struct pollfd *, nfds_t, int);
```

```
#endif /* !_COMPAT_POLL_H_ */
```

```
#endif /* !HAVE_POLL_H_ */
```

1.110 jaxb-core 2.2.6

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1.111 gzip 1.3.12-24.el6

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* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-jar/com/amazonaws/services/s3/model/CompleteMultipartUploadResult.java

* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-jar/com/amazonaws/services/s3/internal/crypto/AdjustedRangeInputStream.java

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* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-jar/com/amazonaws/services/s3/model/GetBucketAnalyticsConfigurationRequest.java

* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-jar/com/amazonaws/services/s3/model/DeleteBucketAnalyticsConfigurationResult.java

* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-jar/com/amazonaws/services/s3/model/GetBucketMetricsConfigurationResult.java
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-jar/com/amazonaws/services/s3/model/metrics/MetricsAndOperator.java
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-jar/com/amazonaws/services/s3/transfer/internal/CompleteMultipartDownload.java
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-jar/com/amazonaws/services/s3/model/analytics/AnalyticsNaryOperator.java
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-jar/com/amazonaws/services/s3/model/analytics/AnalyticsPredicateVisitor.java
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-jar/com/amazonaws/services/s3/model/SetBucketAnalyticsConfigurationResult.java
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-jar/com/amazonaws/services/s3/model/analytics/AnalyticsS3BucketDestination.java
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-jar/com/amazonaws/services/s3/model/GetBucketInventoryConfigurationRequest.java
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-jar/com/amazonaws/services/s3/model/inventory/InventoryFilter.java
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-jar/com/amazonaws/services/s3/model/inventory/InventoryOptionalField.java
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-jar/com/amazonaws/services/s3/model/analytics/AnalyticsS3ExportFileFormat.java
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-jar/com/amazonaws/services/s3/model/lifecycle/LifecycleTagPredicate.java
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-jar/com/amazonaws/services/s3/model/ListBucketInventoryConfigurationsRequest.java
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-jar/com/amazonaws/services/s3/model/DeleteBucketMetricsConfigurationResult.java
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-jar/com/amazonaws/services/s3/model/inventory/InventoryFilterPredicate.java
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-jar/com/amazonaws/services/s3/model/DeleteBucketAnalyticsConfigurationRequest.java
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-jar/com/amazonaws/services/s3/model/DeleteBucketInventoryConfigurationRequest.java
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-jar/com/amazonaws/services/s3/model/inventory/InventorySchedule.java
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-jar/com/amazonaws/services/s3/model/analytics/StorageClassAnalysisDataExport.java
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-jar/com/amazonaws/services/s3/model/metrics/MetricsPredicateVisitor.java
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-jar/com/amazonaws/services/s3/model/ListBucketMetricsConfigurationsResult.java
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-jar/com/amazonaws/services/s3/model/inventory/InventoryFrequency.java
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-jar/com/amazonaws/services/s3/model/lifecycle/LifecyclePredicateVisitor.java
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-jar/com/amazonaws/services/s3/model/lifecycle/LifecycleFilter.java

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jar/com/amazonaws/services/s3/internal/crypto/SecuredCEK.java

* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-
jar/com/amazonaws/services/s3/internal/crypto/KMSecuredCEK.java

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// The Amazon S3 DevPay token header is a special exception and can be safely moved

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jar/com/amazonaws/services/s3/model/S3AccelerateUnsupported.java
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-
jar/com/amazonaws/services/s3/model/DeleteObjectTaggingResult.java
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-
jar/com/amazonaws/services/s3/model/GetObjectTaggingResult.java
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-
jar/com/amazonaws/services/s3/model/ObjectTagging.java
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-
jar/com/amazonaws/services/s3/model/transform/ObjectTaggingXmlFactory.java
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-
jar/com/amazonaws/services/s3/internal/S3VersionResult.java
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-
jar/com/amazonaws/services/s3/internal/S3RequesterChargedHeaderHandler.java
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-
jar/com/amazonaws/services/s3/internal/DeleteObjectTaggingHeaderHandler.java
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-
jar/com/amazonaws/services/s3/model/GetObjectTaggingRequest.java
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-
jar/com/amazonaws/services/s3/model/Tag.java
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-
jar/com/amazonaws/services/s3/model/SetObjectTaggingRequest.java
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-
jar/com/amazonaws/services/s3/model/SetObjectTaggingResult.java
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-
jar/com/amazonaws/services/s3/model/DeleteObjectTaggingRequest.java
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-
jar/com/amazonaws/services/s3/model/BucketAccelerateStatus.java
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-
jar/com/amazonaws/services/s3/model/GetObjectAclRequest.java
```

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jar/com/amazonaws/services/s3/model/S3DataSource.java
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-
jar/com/amazonaws/services/s3/model/MaterialsDescriptionProvider.java
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-
jar/com/amazonaws/services/s3/internal/FileDeletionEvent.java
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-
jar/com/amazonaws/services/s3/KeyWrapException.java
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-
jar/com/amazonaws/services/s3/model/S3ObjectId.java
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-
jar/com/amazonaws/services/s3/transfer/MultipleFileTransferProgressUpdatingListener.java
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-
jar/com/amazonaws/services/s3/model/UploadObjectRequest.java
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-
jar/com/amazonaws/services/s3/model/QueueConfiguration.java
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-
jar/com/amazonaws/services/s3/model/CloudFunctionConfiguration.java
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-
jar/com/amazonaws/services/s3/model/S3Event.java
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-
jar/com/amazonaws/services/s3/model/InstructionFileId.java
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-
jar/com/amazonaws/services/s3/model/SimpleMaterialProvider.java
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-
jar/com/amazonaws/services/s3/model/SSEAwsKeyManagementParams.java
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-
jar/com/amazonaws/services/s3/model/S3ObjectIdBuilder.java
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-
jar/com/amazonaws/services/s3/UploadObjectObserver.java
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-
jar/com/amazonaws/services/s3/model/AbstractPutObjectRequest.java
```


* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-jar/com/amazonaws/services/s3/model/SSECustomerKey.java

* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-jar/com/amazonaws/services/s3/model/EncryptedGetObjectRequest.java

* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-jar/com/amazonaws/services/s3/model/EncryptedInitiateMultipartUploadRequest.java

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* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-jar/com/amazonaws/services/s3/model/KMSEncryptionMaterialsProvider.java

* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-jar/com/amazonaws/services/s3/transfer/MultipleFileTransferStateChangeListener.java

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* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-jar/com/amazonaws/services/s3/internal/S3Direct.java

* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-jar/com/amazonaws/services/s3/internal/AmazonS3ExceptionBuilder.java

* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-jar/com/amazonaws/services/s3/model/EncryptionMaterialsFactory.java

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* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-jar/com/amazonaws/services/s3/transfer/internal/S3SyncProgressListener.java

* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-jar/com/amazonaws/services/s3/internal/PartCreationEvent.java

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* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-jar/com/amazonaws/services/s3/model/PutInstructionFileRequest.java

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* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-
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* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-
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jar/com/amazonaws/services/s3/transfer/internal/MultipleFileTransferMonitor.java
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-
jar/com/amazonaws/services/s3/model/S3ObjectInputStream.java
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- * /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-jar/com/amazonaws/services/s3/model/transform/FilterRuleStaxUnmarshaller.java
- * /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-jar/com/amazonaws/services/s3/model/BucketAccelerateConfiguration.java
- * /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-jar/com/amazonaws/services/s3/model/transform/LambdaConfigurationStaxUnmarshaller.java
- * /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-jar/com/amazonaws/services/s3/model/transform/QueueConfigurationStaxUnmarshaller.java
- * /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-jar/com/amazonaws/services/s3/model/S3KeyFilter.java
- * /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-jar/com/amazonaws/services/s3/model/transform/S3KeyFilterStaxUnmarshaller.java
- * /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-jar/com/amazonaws/services/s3/model/DeleteBucketReplicationConfigurationRequest.java
- * /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-jar/com/amazonaws/services/s3/model/FilterRule.java
- * /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-jar/com/amazonaws/services/s3/internal/CompleteMultipartUploadRetryablePredicate.java
- * /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-jar/com/amazonaws/services/s3/model/ReplicationRule.java
- * /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-jar/com/amazonaws/services/s3/model/transform/FilterStaxUnmarshaller.java
- * /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-jar/com/amazonaws/services/s3/model/transform/HeadBucketResultHandler.java
- * /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-jar/com/amazonaws/services/s3/model/SetBucketAccelerateConfigurationRequest.java
- * /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-jar/com/amazonaws/services/s3/model/SetObjectAclRequest.java
- * /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-jar/com/amazonaws/services/s3/model/BucketReplicationConfiguration.java
- * /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-jar/com/amazonaws/services/s3/internal/CompleteMultipartUploadRetryCondition.java
- * /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-jar/com/amazonaws/services/s3/AbstractAmazonS3.java
- * /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-jar/com/amazonaws/services/s3/model/SSEAlgorithm.java
- * /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-jar/com/amazonaws/services/s3/model/ReplicationRuleStatus.java
- * /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-jar/com/amazonaws/services/s3/model/LambdaConfiguration.java
- * /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-

jar/com/amazonaws/services/s3/transfer/TransferCompletionFilter.java
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-
jar/com/amazonaws/services/s3/model/GetS3AccountOwnerRequest.java
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-
jar/com/amazonaws/services/s3/model/transform/NotificationConfigurationStaxUnmarshaller.java
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-
jar/com/amazonaws/services/s3/model/Filter.java
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-
jar/com/amazonaws/services/s3/transfer/exception/FileLockException.java
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-
jar/com/amazonaws/services/s3/model/ReplicationDestinationConfig.java
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-
jar/com/amazonaws/services/s3/request/S3HandlerContextKeys.java
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-
jar/com/amazonaws/services/s3/model/transform/BucketNotificationConfigurationStaxUnmarshaller.java
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-
jar/com/amazonaws/services/s3/model/GetBucketReplicationConfigurationRequest.java
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-
jar/com/amazonaws/services/s3/model/GetBucketNotificationConfigurationRequest.java
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-
jar/com/amazonaws/services/s3/model/transform/TopicConfigurationStaxUnmarshaller.java
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jar/com/amazonaws/services/s3/internal/GetObjectTaggingResponseHeaderHandler.java
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-
jar/com/amazonaws/services/s3/internal/SetObjectTaggingResponseHeaderHandler.java
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 */
```

```
/**
 * Interface for providing encryption materials.
 * Implementations are free to use any strategy for providing encryption
 * materials, such as simply providing static material that doesn't change,
 * or more complicated implementations, such as integrating with existing
 * key management systems.
 */
```

Found in path(s):

```
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-
jar/com/amazonaws/services/s3/model/EncryptionMaterialsProvider.java
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jar/com/amazonaws/services/s3/transfer/PauseResult.java
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* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-jar/com/amazonaws/services/s3/model/DeleteBucketPolicyRequest.java
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-jar/com/amazonaws/services/s3/model/DeleteBucketWebsiteConfigurationRequest.java
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-jar/com/amazonaws/services/s3/internal/crypto/ByteRangeCapturingInputStream.java
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-jar/com/amazonaws/services/s3/internal/crypto/MultipartUploadContext.java
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-jar/com/amazonaws/services/s3/model/GetBucketWebsiteConfigurationRequest.java
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-jar/com/amazonaws/services/s3/internal/InitiateMultipartUploadHeaderHandler.java
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-jar/com/amazonaws/services/s3/model/SetBucketWebsiteConfigurationRequest.java
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-jar/com/amazonaws/services/s3/transfer/TransferManagerParams.java
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-jar/com/amazonaws/services/s3/model/DeleteBucketLifecycleConfigurationRequest.java
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-jar/com/amazonaws/services/s3/model/ListObjectsV2Request.java
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-jar/com/amazonaws/services/s3/AmazonS3ClientBuilder.java
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-jar/com/amazonaws/services/s3/model/Tier.java
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-jar/com/amazonaws/services/s3/model/DeleteBucketCrossOriginConfigurationRequest.java
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-jar/com/amazonaws/services/s3/AmazonS3ClientConfigurationFactory.java
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-jar/com/amazonaws/services/s3/model/RoutingRuleCondition.java
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-

jar/com/amazonaws/services/s3/model/ListObjectsV2Result.java
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-
jar/com/amazonaws/services/s3/model/BucketWebsiteConfiguration.java
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-
jar/com/amazonaws/services/s3/model/RoutingRule.java
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-
jar/com/amazonaws/services/s3/model/DeleteBucketTaggingConfigurationRequest.java
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-
jar/com/amazonaws/services/s3/model/SetBucketPolicyRequest.java
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-
jar/com/amazonaws/services/s3/model/GetBucketAclRequest.java
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-
jar/com/amazonaws/services/s3/model/GetBucketLocationRequest.java
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-
jar/com/amazonaws/services/s3/internal/ListPartsHeaderHandler.java
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-
jar/com/amazonaws/services/s3/AmazonS3ClientParamsWrapper.java
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-
jar/com/amazonaws/services/s3/model/SetBucketAclRequest.java
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-
jar/com/amazonaws/services/s3/AmazonS3ClientParams.java
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-
jar/com/amazonaws/services/s3/model/GlacierJobParameters.java
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-
jar/com/amazonaws/services/s3/transfer/TransferManagerBuilder.java
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-
jar/com/amazonaws/services/s3/model/GetBucketPolicyRequest.java
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jar/com/amazonaws/services/s3/transfer/internal/DownloadImpl.java
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-
jar/com/amazonaws/services/s3/iterable/S3Versions.java
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-
jar/com/amazonaws/services/s3/iterable/S3Objects.java
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-
jar/com/amazonaws/services/s3/model/StaticEncryptionMaterialsProvider.java
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-
jar/com/amazonaws/services/s3/transfer/Download.java
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- * /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-jar/com/amazonaws/services/s3/model/CanonicalGrantee.java
- * /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-jar/com/amazonaws/services/s3/internal/RepeatableFileInputStream.java
- * /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-jar/com/amazonaws/services/s3/model/BucketPolicy.java
- * /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-jar/com/amazonaws/services/s3/model/Grant.java
- * /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-jar/com/amazonaws/services/s3/model/transform/XmlResponsesSaxParser.java
- * /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-jar/com/amazonaws/services/s3/internal/Mimetypes.java
- * /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-jar/com/amazonaws/services/s3/model/Grantee.java
- * /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-jar/com/amazonaws/services/s3/internal/ServiceUtils.java
- * /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-jar/com/amazonaws/services/s3/model/TagSet.java
- * /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-jar/com/amazonaws/services/s3/model/BucketTaggingConfiguration.java
- * /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-jar/com/amazonaws/services/s3/model/BucketLoggingConfiguration.java
- * /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-jar/com/amazonaws/services/s3/model/AccessControlList.java
- * /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-jar/com/amazonaws/services/s3/internal/RepeatableInputStream.java
- * /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-jar/com/amazonaws/services/s3/model/Owner.java
- * /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-jar/com/amazonaws/services/s3/model/EmailAddressGrantee.java
- * /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-jar/com/amazonaws/services/s3/model/Bucket.java
- * /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-jar/com/amazonaws/services/s3/model/BucketNotificationConfiguration.java
- * /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-jar/com/amazonaws/services/s3/model/RequestPaymentConfiguration.java
- * /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-jar/com/amazonaws/services/s3/internal/RestUtils.java

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*/
/**
 * Gets the optional <code>versionIdMarker</code> parameter indicating where in the
 * sorted list of all versions in the specified bucket to begin returning
 * results. Results are always ordered first lexicographically (i.e.
 * alphabetically) and then from most recent version to least recent
 * version.
 * <p>
 * A key marker must be specified when specifying a <code>versionIdMarker</code>.
 * Results begin immediately after the version with the specified key and
 * version ID.
 * </p>
 *
 * @return The optional <code>versionIdMarker</code> parameter indicating where in the
 * sorted list of all versions in the specified bucket to begin
 * returning results.
 *
 * @see ListVersionsRequest#setVersionIdMarker(String)
 * @see ListVersionsRequest#withVersionIdMarker(String)
 */

```

Found in path(s):

```

* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-
jar/com/amazonaws/services/s3/model/ListVersionsRequest.java

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Found in path(s):

- * /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-jar/com/amazonaws/services/s3/waiters/HeadBucketFunction.java
- * /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-jar/com/amazonaws/services/s3/waiters/HeadObjectFunction.java
- * /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-jar/com/amazonaws/services/s3/waiters/AmazonS3Waiters.java

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Found in path(s):

- * /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-jar/com/amazonaws/services/s3/model/GetBucketVersioningConfigurationRequest.java
- * /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-jar/com/amazonaws/services/s3/model/ListNextBatchOfObjectsRequest.java
- * /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-jar/com/amazonaws/services/s3/model/GetBucketLoggingConfigurationRequest.java
- * /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-jar/com/amazonaws/services/s3/internal/FileLocks.java
- * /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-jar/com/amazonaws/services/s3/model/GetBucketLifecycleConfigurationRequest.java
- * /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-jar/com/amazonaws/services/s3/model/GetBucketTaggingConfigurationRequest.java
- * /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-jar/com/amazonaws/services/s3/model/GetBucketCrossOriginConfigurationRequest.java
- * /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-jar/com/amazonaws/services/s3/model/ListNextBatchOfVersionsRequest.java
- * /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-jar/com/amazonaws/services/s3/model/SetBucketReplicationConfigurationRequest.java
- * /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-jar/com/amazonaws/services/s3/transfer/DownloadTaskImpl.java
- * /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-jar/com/amazonaws/services/s3/transfer/DownloadCallable.java

* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-jar/com/amazonaws/services/s3/model/GetBucketAccelerateConfigurationRequest.java
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/**

* Synchronous client for accessing Amazon S3.

*

* <h1>Appendix: Amazon S3 client-side encryption meta information</h1>

*

* <h2>Introduction</h2>

* <p>

* This appendix summarizes the current crypto related meta information

* associated with an S3 object encrypted using SDK client-side encryption. In

* SDK's terminology, these meta information are classified as "user metadata".

* In general, the meta information is just a map of key/value pairs. Physically

* they are persisted either as metadata of the encrypted S3 object, or as a

* separate S3 object called an "instruction file" (which is just a JSON file in

* plaintext.) For all references to the Cipher Algorithm Names, Modes, and Padding,

* such as <code>"AES/CBC/PKCS5Padding"</code>, please refer to Oracle's <a

* href="http://docs.oracle.com/javase/7/docs/technotes/guides/security/StandardNames.html"

* >Java™ Cryptography Architecture Standard Algorithm Name Documentation

* for more details.

*

* <h2>S3 metadata vs instruction file</h2>

* <p>

* Note when a key/value pair is stored as "user metadata" as part of the S3

* metadata, the SDK always adds an additional prefix of x-amz-meta- to

* the key name. In contrast, the SDK doesn't add any prefix when the key names

* are stored in an instruction file. (The reason has to do with how the http

* headers are handled.)

*

* For example, x-amz-key would get stored as x-amz-meta-x-amz-key

* in S3 metadata. In contrast, x-amz-key would simply be stored as is

* (ie without the prefix) in an instruction file.

*
 * All the keys described below are considered "user metadata" by the SDK.
 *
 * <h2>S3 v1 crypto meta information (supported by all SDK's)</h2>
 * <p>
 * For non-KMS client side encryption, this v1 crypto meta information is used
 * to support the "Encryption Only" crypto mode (which involves the use of
 * <code>AES/CBC/PKCS5Padding</code> for content encryption, and
 * <code>AES/ECB</code> for encrypting the one-time randomly generated data
 * key). For KMS client-side encryption, the v2 crypto meta information is used.
 * <p>
 * <table border=1>
 * <tr aligned="left">
 * <th>key</th>
 * <th>description</th>
 * </tr>
 * <tr>
 * <td width="200">x-amz-key</td>
 * <td>Content encrypting key (cek) in encrypted form, base64 encoded. The cek
 * is randomly generated per S3 object, and is always an AES 256-bit key. The
 * corresponding cipher is always "AES/CBC/PKCS5Padding".</td>
 * </tr>
 * <tr>
 * <td>x-amz-iv</td>
 * <td>Randomly generated IV (per S3 object), base64 encoded</td>
 * </tr>
 * <tr>
 * <td>x-amz-matdesc </td>
 * <td>Customer provided material description in JSON (UTF8) format. Used to
 * identify the client-side master key (ie used to encrypt/wrap the generated
 * content encrypting key).</td>
 * </tr>
 * <tr>
 * <td>x-amz-unencrypted-content-length</td>
 * <td>Unencrypted content length (optional but should be specified whenever
 * possible).</td>
 * </tr>
 * </table>
 *
 * <h2>S3 v2 crypto meta information (currently supported by the Java SDK)</h2>
 * <p>
 * This v2 crypto meta information is used to support both authenticated
 * encryption (which involves the use of <code>AES/GCM/NoPadding</code> for
 * content encryption, and key wrapping for the one-time randomly generated data
 * key), and KMS client-side encryption (which can either be encryption-only or
 * authenticated encryption.)
 * <p>
 * <table border=1>

```

* <tr aligned="left">
* <th>key</th>
* <th>description</th>
* </tr>
* <tr>
* <td width="200"><b>x-amz-key-v2</b></td>
* <td>CEK in key wrapped form. This is necessary so that the S3 encryption
* client that doesn't recognize the v2 format will not mistakenly decrypt S3
* object encrypted in v2 format.</td>
* </tr>
* <tr>
* <td><b>x-amz-iv</b></td>
* <td>Randomly generated IV (per S3 object), base64 encoded. (Same as v1.)</td>
* </tr>
* <tr>
* <td><b>x-amz-matdesc</b></td>
* <td>Customer provided material description in JSON format. (Same as v1). Used
* to identify the client-side master key.
* <ul>
* <li>For KMS client side encryption, the KMS Customer Master Key ID is stored
* as part of the material description, <b>x-amz-matdesc</b>, under the key-name
* <code>"kms_cmk_id"</code>.</li>
* </ul>
* </td>
* </tr>
* <tr>
* <td><b>x-amz-unencrypted-content-length</b></td>
* <td>Unencrypted content length. (optional but should be specified whenever
* possible. Same as v1.)</td>
* </tr>
* <tr>
* <td><b>x-amz-wrap-alg</b></td>
* <td>Key wrapping algorithm used.
* <ul>
* <li>Supported values:
* <code>"AESWrap", "RSA/ECB/OAEPWithSHA-256AndMGF1Padding", "kms"</code></li>
* <li>No standard key wrapping is used if this meta information is absent</li>
* <li>Always set to <b>"kms"</b> if KMS is used for client-side encryption</li>
* </ul>
* </td>
* </tr>
* <tr>
* <td><b>x-amz-cek-alg</b></td>
* <td>Content encryption algorithm used.
* <ul>
* <li>Supported values:
* <code>"AES/GCM/NoPadding", "AES/CBC/PKCS5Padding"</code></li>
* <li>Default to <code>"AES/CBC/PKCS5Padding"</code> if this key is absent.</li>

```

```

* </ul>
* </td>
* </tr>
* <tr>
* <td><b>x-amz-tag-len</b></td>
* <td>Tag length (in bits) when AEAD is in use.
* <ul>
* <li>Only applicable if AEAD is in use. This meta information is absent
* otherwise, or if KMS is in use.</li>
* <li>Supported value: <code>"128"</code></li>
* </ul>
* </td>
* </tr>
* </table>

```

* <p>
* <h3>KMS Integration for client-side encryption</h3>

- * All client-side KMS protected S3 objects are stored in v2 crypto meta information format. However, the key wrapping algorithm, x-amz-wrap-alg is always set to "kms".
- * The KMS Customer Master Key ID is currently stored as part of the material description, x-amz-matdesc, under the key-name "kms_cm_k_id".

* <p>
* <h4>Sample S3 crypto meta information for KMS client-side encryption</h4>

* <p>
* <h5>CryptoMode: Encryption Only</h5>

```

* <pre>
* x-amz-meta-x-amz-key-v2:
*
CiAJ2GqwpJRnt4izujwoalC2YdNRNSMEslG5rw3pEI+J8hKnAQEBAwB4CdhqsKSUZ7eIs7o8KGpQtmHTUTUj
BLJRua8N6RCPifIAAAB+MHwGCSqGSiB3DQEHBqBvMG0CAQAWaAYJKoZlIhvcNAQcBMB4GCWCGSAFI
AwQBLjARBAyD0rzN3KHViWixDVcCARCAOwhZ6xA8rob3Z0mNx3uKFieHKVyIC/PKlchALvG1oVLnf86m
cZJNpTXtwMkKkDocVj3Z1zGjZTufFsOH
* x-amz-iv: xqOHh+M6y0UogwG5SHJM3Q==
* x-amz-unencrypted-content-length: 32768
* x-amz-cek-alg: AES/CBC/PKCS5Padding
* x-amz-wrap-alg: kms
* x-amz-matdesc: {"kms_cm_k_id":"d3fd2273-4ca0-4da5-b1c2-c89742ec6a26"}
* </pre>

```

* <h5>CryptoMode: Authenticated Encryption</h5>

```

* <pre>
* x-amz-key-v2:
CiAJ2GqwpJRnt4izujwoalC2YdNRNSMEslG5rw3pEI+J8hKnAQEBAwB4CdhqsKSUZ7eIs7o8KGpQtmHTUTUj

```


BLJRua8N6RCPifIAAAB+MHwGCSqGSIb3DQEHBqBvMG0CAQAwAAYJKoZIhvcNAQcBMB4GCWCGSAFI
AwQBLjARBAYtFVyW4I6QmwcPK1ECARCAO1VzoM6KxA9DHyNMm/BEbbjle2vLA7IY7f9OkUoSqrxdgKxp
NID9QaL/7928m1Djtd0bJpHefjm89C

```
* x-amz-iv: VZBksyij6DhrUMye
* x-amz-unencrypted-content-length: 32768
* x-amz-cek-alg: AES/GCM/NoPadding
* x-amz-wrap-alg: kms
* x-amz-matdesc: {"kms_cmek_id":"d3fd2273-4ca0-4da5-b1c2-c89742ec6a26"}
* x-amz-tag-len: 128
* </pre>
```

*

* <h2>S3 metadata of an instruction file</h2>

* <p>

* The following key is always included as part of the S3 metadata of the

* instruction file (which is just an S3 object). Since the SDK treats this key

* as "user metadata", the key name is always prefixed with x-amz-meta-

* when physically stored.

* <p>

* <table border=1>

* <tr aligned="left">

* <th>key</th>

* <th>description</th>

* </tr>

* <tr>

* <td width="200">x-amz-crypto-instr-file</td>

* <td>the presence of this key is used to indicate this S3 object is an

* instruction file (of an associated client-side encrypted S3 object).</td>

* </tr>

* </table>

*/

Found in path(s):

```
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-
jar/com/amazonaws/services/s3/package-info.java
```

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* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-jar/com/amazonaws/services/s3/event/S3EventNotification.java

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* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-jar/com/amazonaws/services/s3/internal/auth/S3SignerProvider.java

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* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-jar/com/amazonaws/services/s3/internal/ResponseHeaderHandlerChain.java

* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-

jar/com/amazonaws/services/s3/transfer/internal/CopyMonitor.java
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-
jar/com/amazonaws/services/s3/internal/ServerSideEncryptionHeaderHandler.java
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-
jar/com/amazonaws/services/s3/transfer/internal/TransferMonitor.java
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-
jar/com/amazonaws/services/s3/model/DeleteObjectsResult.java
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-
jar/com/amazonaws/services/s3/model/CopyPartRequest.java
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-
jar/com/amazonaws/services/s3/model/BucketCrossOriginConfiguration.java
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-
jar/com/amazonaws/services/s3/model/GenericBucketRequest.java
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-
jar/com/amazonaws/services/s3/model/CopyPartResult.java
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-
jar/com/amazonaws/services/s3/model/ResponseHeaderOverrides.java
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-
jar/com/amazonaws/services/s3/model/BucketLifecycleConfiguration.java
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-
jar/com/amazonaws/services/s3/model/SetBucketNotificationConfigurationRequest.java
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-
jar/com/amazonaws/services/s3/internal/ObjectRestoreResult.java
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-
jar/com/amazonaws/services/s3/internal/ServerSideEncryptionResult.java
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-
jar/com/amazonaws/services/s3/internal/ObjectExpirationResult.java
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-
jar/com/amazonaws/services/s3/model/CORSRule.java
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-
jar/com/amazonaws/services/s3/transfer/internal/UploadMonitor.java
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-
jar/com/amazonaws/services/s3/internal/DeleteObjectsResponse.java
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-
jar/com/amazonaws/services/s3/internal/HeaderHandler.java
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-
jar/com/amazonaws/services/s3/model/MultiObjectDeleteException.java
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* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-jar/com/amazonaws/services/s3/model/WebsiteConfiguration.java

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* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-jar/com/amazonaws/services/s3/internal/crypto/MultipartUploadCryptoContext.java

* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-jar/com/amazonaws/services/s3/internal/crypto/ContentCryptoScheme.java

* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-jar/com/amazonaws/services/s3/internal/crypto/S3CryptoModule.java

* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-jar/com/amazonaws/services/s3/internal/DigestValidationInputStream.java

* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-jar/com/amazonaws/services/s3/internal/crypto/CipherLite.java

* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-jar/com/amazonaws/services/s3/internal/crypto/S3CryptoModuleEO.java

* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-jar/com/amazonaws/services/s3/internal/crypto/AesCbc.java

* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-jar/com/amazonaws/services/s3/internal/crypto/S3CryptoModuleBase.java

* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-jar/com/amazonaws/services/s3/transfer/PauseStatus.java

* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-

jar/com/amazonaws/services/s3/internal/crypto/AesCtr.java
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-
jar/com/amazonaws/services/s3/transfer/exception/PauseException.java
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-
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* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-
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* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-
jar/com/amazonaws/services/s3/model/CryptoMode.java
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-
jar/com/amazonaws/services/s3/internal/crypto/S3KeyWrapScheme.java
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-
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* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-
jar/com/amazonaws/services/s3/internal/AWSS3V4Signer.java
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-
jar/com/amazonaws/services/s3/internal/crypto/ContentCryptoMaterial.java
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-
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* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-
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* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-
jar/com/amazonaws/services/s3/transfer/PersistableUpload.java
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jar/com/amazonaws/services/s3/transfer/PersistableDownload.java
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-
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* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-
jar/com/amazonaws/services/s3/internal/crypto/AesGcm.java
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jar/com/amazonaws/services/s3/internal/crypto/CipherLiteInputStream.java
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-

jar/com/amazonaws/services/s3/internal/crypto/MultipartUploadCbContext.java

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```
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-
jar/com/amazonaws/services/s3/model/S3VersionSummary.java
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-
jar/com/amazonaws/services/s3/model/BucketVersioningConfiguration.java
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* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-
jar/com/amazonaws/services/s3/model/S3ObjectSummary.java
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-
jar/com/amazonaws/services/s3/model/SetBucketVersioningConfigurationRequest.java
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-
jar/com/amazonaws/services/s3/model/package-info.java
* /opt/cola/permits/1263969829_1643733592.9/0/aws-java-sdk-s3-1-11-61-sources-
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1.114 nspr 2.343

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1.116 dom 1.0

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```

Found in path(s):

```
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom3/as/ElementEditAS.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom3/as/ASNotationDeclaration.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom3/as/ASObject.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom3/as/CharacterDataEditAS.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom3/as/DOMImplementationAS.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom3/as/ASModel.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom3/as/DocumentAS.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom3/as/ASAttributeDeclaration.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom3/as/ASElementDeclaration.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom3/as/ASEntityDeclaration.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom3/as/ASNamedObjectMap.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom3/as/ASDataType.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom3/as/ASContentModel.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom3/as/DOMASWriter.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom3/as/DocumentEditAS.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom3/as/ASObjectList.java
```

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/DOMASBuilder.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/DOMASException.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/NodeEditAS.java

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Found in path(s):

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/datatypes/package.html

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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/w3c/dom/html/HTMLDOMImplementation.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/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xs/models/XSCMValidator.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/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/CoreDOMImplementationImpl.java

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jar/org/apache/xerces/dom/DOMImplementationListImpl.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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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xs/XSConstraints.java
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jar/org/apache/xerces/impl/xs/traversers/XSDocumentInfo.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xs/traversers/XSDElementTraverser.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/xni/parser/XMLErrorHandler.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/html/dom/HTMLFrameElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/util/XMLEntityDescriptionImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/util/ShadowedSymbolTable.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xs/util/ObjectListImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/wml/dom/WMLImgElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/wml/WMLOptgroupElement.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/xni/parser/XMLInputSource.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/wml/WMLImgElement.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom/DeferredCDATASectionImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xs/traversers/XSDAbstractIDConstraintTraverser.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/wml/dom/WMLTimerElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/xs/XSParticle.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLWmlElementImpl.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/AnySimpleDV.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/StringList.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLTimerElement.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xpath/regex/CaseInsensitiveMap.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/opti/SchemaDOMImplementation.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/opti/DefaultXMLDocumentHandler.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DeferredElementImpl.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLAnchorElement.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xml/serialize/HTMLSerializer.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLHtmlElementImpl.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/stax/DefaultNamespaceContext.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xinclude/MultipleScopeNamespaceSupport.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/opti/SchemaParsingConfig.java

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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xpointer/XPointerMessageFormatter.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/XSException.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLMetaElementImpl.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLQuoteElementImpl.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/EncodingMap.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xinclude/XIncludeTextReader.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DOMInputImpl.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/ObjectFactory.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xpointer/XPointerHandler.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/XMLCatalogResolver.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/TeeXMLDocumentFilterImpl.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLTableSectionElementImpl.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dtd/models/CMStateSet.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/Base64BinaryDV.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/validation/DraconianErrorHandler.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/JAXPValidatorComponent.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLTitleElementImpl.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/parsers/XML11NonValidatingConfiguration.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/ElementDefinitionImpl.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dtd/XMLElementDecl.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/XSAttributeGroupDecl.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/parsers/AbstractDOMParser.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLSelectElementImpl.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLLabelElementImpl.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLFieldSetElementImpl.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLCardElementImpl.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/util/ShortListImpl.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/util/Base64.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/CDATASectionImpl.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/validation/XSGrammarPoolContainer.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/models/CMBuilder.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLMetaElement.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/XSSimpleType.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/XSSimpleTypeDelegate.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/opti/SchemaDOMParser.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xpath/regex/RegularExpression.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/opti/ElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/events/UIEventImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xml/serialize/Method.java
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xs/XSAttributeDecl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/xinclude/XIncludeNamespaceSupport.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xs/models/XSEmptyCM.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/html/dom/HTMLOptGroupElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/dv/DVFactoryException.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/html/dom/HTMLDocumentImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/dv/xs/SchemaDateTimeException.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/wml/WMLOptionElement.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/wml/WMLPElement.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/html/dom/HTMLOptionElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/wml/WMLElement.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/html/dom/HTMLParamElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom/TreeWalkerImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/dv/dtd/XML11DTDDVFactoryImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xpath/regex/ParseException.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/xni/parser/XMLDTDFilter.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/dtd/XMLDTDValidator.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-

jar/org/apache/xerces/impl/xs/traversers/XSDNotationTraverser.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/xni/grammars/XMLSchemaDescription.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/jaxp/validation/DOMResultBuilder.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/wml/dom/WMLAnchorElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/html/dom/HTMLModElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom/DeferredElementNSImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/html/dom/HTMLTableCaptionElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/XMLEntityHandler.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/parsers/StandardParserConfiguration.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xs/models/XSAllCM.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xs/opti/AttrImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/wml/dom/WMLFieldsetElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/wml/dom/WMLDoElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xpath/regex/RangeToken.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/parsers/DOMASBuilderImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/html/dom/NameNodeListImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/wml/dom/WMLDOMImplementationImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/io/UCSReader.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/parsers/XIncludeAwareParserConfiguration.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/RevalidationHandler.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/xs/XSValue.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom/NodeImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/dv/dtd/XML11IDREFDatatypeValidator.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-

jar/org/apache/xerces/xni/parser/XMLConfigurationException.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/util/AttributesProxy.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/jaxp/validation/ValidatorImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/parsers/XMLGrammarParser.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/dtd/XMLSimpleType.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xs/SchemaNamespaceSupport.java
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/dv/xs/AbstractDateTimeDV.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/dv/xs/YearDV.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xs/traversers/XSDKeyrefTraverser.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/dv/xs/DateDV.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/dv/xs/DateTimeDV.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xs/traversers/XSDUniqueOrKeyTraverser.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/dv/xs/MonthDV.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/dv/xs/DurationDV.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-

jar/org/apache/xerces/impl/dv/xs/MonthDayDV.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/dv/xs/TimeDV.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xs/traversers/XSAttributeChecker.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/dv/xs/YearMonthDV.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xs/XSModelGroupImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/dv/xs/XSSimpleTypeDecl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xs/traversers/XSDHandler.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/dv/xs/DayDV.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xs/XMLSchemaValidator.java
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/msg/XMLSchemaMessages.properties
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xpath/regex/message.properties
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/msg/DOMMessages.properties
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/msg/XPointerMessages.properties
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/msg/DatatypeMessages.properties
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xpath/regex/message_fr.properties
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/msg/SAXMessages.properties
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/msg/XIncludeMessages.properties
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/msg/XMLMessages.properties
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/msg/XMLSerializerMessages.properties
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xpath/regex/message_ja.properties

```
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/impl/msg/JAXPValidationMessages.properties  
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```
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```
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/impl/xs/models/XSDFACM.java
```

1.117 xfsprogs 3.1.1 19.el6

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This package was debianized by Nathan Scott nathans@debian.org on
Sun, 19 Nov 2000 07:37:09 -0500.

It can be downloaded from <ftp://oss.sgi.com/projects/xfs/download/>

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1.118 hk2-api 2.3.0-b05

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1.120 axis 1.6.1

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1.122 cxf-rt-bindings-object 2.7.14

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1.124 mysql 5.1.73 8.el6_8

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```
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```

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1.128 i18n-slf4j 1.4.2

1.129 activemq-client 5.8.0

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1.130 firstaidkit 0.3.2

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1.131 jersey-json 1.12

1.132 httpcomponents-core 4.2.4

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1.134 cxf-tools-validator 2.7.14

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1.135 httpcomponents-core 4.3

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1.139 cxf-tools-wsdlto-databinding-jaxb

2.7.14

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1.141 zlib 1.2.7

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1.142 httpcore-niossl 4.0-alpha5

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1.143 jaxen 1.1.1

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* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultPlusExpr.java,v 1.14 2006/11/30 18:49:26 elharo Exp \$

* \$Revision: 1.14 \$
* \$Date: 2006/11/30 18:49:26 \$
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* \$Id: DefaultPlusExpr.java,v 1.14 2006/11/30 18:49:26 elharo Exp \$
*/

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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/expr/DefaultPlusExpr.java

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/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultUnaryExpr.java,v 1.16 2006/11/30
18:49:27 elharo Exp $
* $Revision: 1.16 $
* $Date: 2006/11/30 18:49:27 $
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* $Id: DefaultUnaryExpr.java,v 1.16 2006/11/30 18:49:27 elharo Exp $
```

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* \$Revision: 1.11 \$

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* \$Header:

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2007/01/06 12:21:12 elharo Exp \$

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* \$Id: DefaultProcessingInstructionNodeStep.java,v 1.18 2007/01/06 12:21:12 elharo Exp \$
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* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultTextNodeStep.java,v 1.14
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* \$Id: DefaultFunctionCallExpr.java,v 1.17 2006/11/30 18:49:27 elharo Exp \$
*/

Found in path(s):

* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/expr/DefaultFunctionCallExpr.java

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

/*

* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/LogicalExpr.java,v 1.6 2006/11/09
16:21:05 elharo Exp \$
* \$Revision: 1.6 \$
* \$Date: 2006/11/09 16:21:05 \$

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* \$Id: LogicalExpr.java,v 1.6 2006/11/09 16:21:05 elharo Exp \$
*/

Found in path(s):

* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/expr/LogicalExpr.java

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/*

* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/saxpath/SAXPathException.java,v 1.14
2006/06/03 20:28:45 elharo Exp \$

* \$Revision: 1.14 \$

* \$Date: 2006/06/03 20:28:45 \$

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* $Id: SAXPathException.java,v 1.14 2006/06/03 20:28:45 elharo Exp $
*/

```

Found in path(s):

```

* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/saxpath/SAXPathException.java

```

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

```

/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/LangFunction.java,v 1.13 2006/02/05
21:47:41 elharo Exp $
* $Revision: 1.13 $
* $Date: 2006/02/05 21:47:41 $
*
* =====
*

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 *
 * \$Id: LangFunction.java,v 1.13 2006/02/05 21:47:41 elharo Exp \$
 */

Found in path(s):

* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/function/LangFunction.java

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/*

* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/FunctionCallException.java,v 1.13 2006/07/16 11:07:25 elharo Exp \$

* \$Revision: 1.13 \$
* \$Date: 2006/07/16 11:07:25 \$
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* \$Id: FunctionCallException.java,v 1.13 2006/07/16 11:07:25 elharo Exp \$
*/

Found in path(s):

* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/FunctionCallException.java

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

```
/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultFilterExpr.java,v 1.19 2006/11/30
18:49:26 elharo Exp $
* $Revision: 1.19 $
* $Date: 2006/11/30 18:49:26 $
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* $Id: DefaultFilterExpr.java,v 1.19 2006/11/30 18:49:26 elharo Exp $
```

*/

Found in path(s):

* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/expr/DefaultFilterExpr.java

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/*

\$Id: NamedAccessNavigator.java,v 1.4 2006/02/05 21:47:41 elharo Exp \$

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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/NamedAccessNavigator.java

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/*

* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/util/SelfAxisIterator.java,v 1.10 2007/05/02

14:33:29 elharo Exp \$

* \$Revision: 1.10 \$

* \$Date: 2007/05/02 14:33:29 \$

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* \$Id: SelfAxisIterator.java,v 1.10 2007/05/02 14:33:29 elharo Exp \$

*/

Found in path(s):

* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-

jar/org/jaxen/util/SelfAxisIterator.java

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```
/*
 * $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/NameFunction.java,v 1.11 2006/02/05
 21:47:41 elharo Exp $
 * $Revision: 1.11 $
 * $Date: 2006/02/05 21:47:41 $
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* \$Id: NameFunction.java,v 1.11 2006/02/05 21:47:41 elharo Exp \$

*/

Found in path(s):

* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/function/NameFunction.java

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* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/Navigator.java,v 1.30 2006/06/03 20:07:19 elharo Exp \$

* \$Revision: 1.30 \$

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* \$Id: Navigator.java,v 1.30 2006/06/03 20:07:19 elharo Exp \$
*/

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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/Navigator.java

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/*

* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/pattern/NodeTest.java,v 1.6 2006/02/05
21:47:42 elharo Exp \$

* \$Revision: 1.6 \$

* \$Date: 2006/02/05 21:47:42 \$

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* \$Id: NodeTest.java,v 1.6 2006/02/05 21:47:42 elharo Exp \$

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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/pattern/NodeTest.java

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/*

* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/BinaryExpr.java,v 1.8 2006/11/09
16:21:04 elharo Exp \$

* \$Revision: 1.8 \$

* \$Date: 2006/11/09 16:21:04 \$

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* \$Id: BinaryExpr.java,v 1.8 2006/11/09 16:21:04 elharo Exp \$

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* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultMinusExpr.java,v 1.14 2006/11/30
18:49:26 elharo Exp \$

* \$Revision: 1.14 \$

* \$Date: 2006/11/30 18:49:26 \$

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*
* \$Id: DefaultMinusExpr.java,v 1.14 2006/11/30 18:49:26 elharo Exp \$
*/

Found in path(s):

* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/expr/DefaultMinusExpr.java

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

/*
* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/dom/DocumentNavigator.java,v 1.57
2007/05/05 18:08:55 elharo Exp \$
* \$Revision: 1.57 \$
* \$Date: 2007/05/05 18:08:55 \$

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* \$Id: DocumentNavigator.java,v 1.57 2007/05/05 18:08:55 elharo Exp \$
*/

Found in path(s):
* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/dom/DocumentNavigator.java
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/*
* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/pattern/AnyChildNodeTest.java,v 1.6
2006/02/05 21:47:42 elharo Exp \$
* \$Revision: 1.6 \$
* \$Date: 2006/02/05 21:47:42 \$
*
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* \$Id: AnyChildNodeTest.java,v 1.6 2006/02/05 21:47:42 elharo Exp \$
 */

Found in path(s):

* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
 jar/org/jaxen/pattern/AnyChildNodeTest.java

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

/*

* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/XPathFactory.java,v 1.13 2007/05/02
 14:32:38 elharo Exp \$

* \$Revision: 1.13 \$

* \$Date: 2007/05/02 14:32:38 \$

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* \$Id: XPathFactory.java,v 1.13 2007/05/02 14:32:38 elharo Exp \$
*/

Found in path(s):

* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/expr/XPathFactory.java

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/*


```

* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/util/StackedIterator.java,v 1.12 2006/02/05
21:47:40 elharo Exp $
* $Revision: 1.12 $
* $Date: 2006/02/05 21:47:40 $
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* $Id: StackedIterator.java,v 1.12 2006/02/05 21:47:40 elharo Exp $
*/

```

Found in path(s):

* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/util/StackedIterator.java

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/*

* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/LocationPath.java,v 1.9 2006/11/08 17:02:21 elharo Exp \$

* \$Revision: 1.9 \$

* \$Date: 2006/11/08 17:02:21 \$

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* \$Id: LocationPath.java,v 1.9 2006/11/08 17:02:21 elharo Exp \$
*/

Found in path(s):

*/opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/expr/LocationPath.java

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/*
* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/PredicateSet.java,v 1.23 2006/11/13 22:38:17 elharo Exp \$

* \$Revision: 1.23 \$

* \$Date: 2006/11/13 22:38:17 \$

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* $Id: PredicateSet.java,v 1.23 2006/11/13 22:38:17 elharo Exp $
*/
```

Found in path(s):

```
*/opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/expr/PredicateSet.java
```

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```
/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/iter/IterableAncestorAxis.java,v 1.7
2006/06/03 20:50:12 elharo Exp $
* $Revision: 1.7 $
* $Date: 2006/06/03 20:50:12 $
*/
```

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* \$Id: IterableAncestorAxis.java,v 1.7 2006/06/03 20:50:12 elharo Exp \$

*/

Found in path(s):

* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/expr/iter/IterableAncestorAxis.java

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/*

* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultMultiplicativeExpr.java,v 1.9
2006/02/05 21:47:40 elharo Exp \$

* \$Revision: 1.9 \$

* \$Date: 2006/02/05 21:47:40 \$

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* \$Id: DefaultMultiplicativeExpr.java,v 1.9 2006/02/05 21:47:40 elharo Exp \$

*/

Found in path(s):

* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/expr/DefaultMultiplicativeExpr.java

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* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/NumberFunction.java,v 1.18
2006/02/05 21:47:41 elharo Exp \$

* \$Revision: 1.18 \$

* \$Date: 2006/02/05 21:47:41 \$

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* \$Id: NumberFunction.java,v 1.18 2006/02/05 21:47:41 elharo Exp \$
*/

Found in path(s):

* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/function/NumberFunction.java

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* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/UnresolvableException.java,v 1.7 2006/06/03
20:21:05 elharo Exp \$
* \$Revision: 1.7 \$
* \$Date: 2006/06/03 20:21:05 \$
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* \$Id: UnresolvableException.java,v 1.7 2006/06/03 20:21:05 elharo Exp \$
*/

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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/UnresolvableException.java
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/*
* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultArithExpr.java,v 1.10 2006/02/05
21:47:40 elharo Exp \$
* \$Revision: 1.10 \$
* \$Date: 2006/02/05 21:47:40 \$
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* $Id: DefaultArithExpr.java,v 1.10 2006/02/05 21:47:40 elharo Exp $
*/

```

Found in path(s):

```

* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/expr/DefaultArithExpr.java

```

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```

/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/iter/IterableParentAxis.java,v 1.7
2006/06/03 20:47:22 elharo Exp $
* $Revision: 1.7 $
* $Date: 2006/06/03 20:47:22 $
*
* =====
*

```

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 *
 * \$Id: IterableParentAxis.java,v 1.7 2006/06/03 20:47:22 elharo Exp \$
 */

Found in path(s):

* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
 jar/org/jaxen/expr/iter/IterableParentAxis.java

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/*

* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/SubstringAfterFunction.java,v 1.11
 2006/02/05 21:47:41 elharo Exp \$

```

* $Revision: 1.11 $
* $Date: 2006/02/05 21:47:41 $
*
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* $Id: SubstringAfterFunction.java,v 1.11 2006/02/05 21:47:41 elharo Exp $
*/

```

Found in path(s):

```

* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/function/SubstringAfterFunction.java

```

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```
/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultAllNodeStep.java,v 1.14
2006/11/30 18:49:27 elharo Exp $
* $Revision: 1.14 $
* $Date: 2006/11/30 18:49:27 $
*
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*
* $Id: DefaultAllNodeStep.java,v 1.14 2006/11/30 18:49:27 elharo Exp $
```

*/

Found in path(s):

* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/expr/DefaultAllNodeStep.java

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/*

* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/UnionExpr.java,v 1.7 2006/11/08 15:57:20 elharo Exp \$

* \$Revision: 1.7 \$

* \$Date: 2006/11/08 15:57:20 \$

*

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*
* \$Id: UnionExpr.java,v 1.7 2006/11/08 15:57:20 elharo Exp \$
*/

Found in path(s):

* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/expr/UnionExpr.java

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/*

* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultAbsolutePath.java,v 1.18
2006/11/30 18:49:27 elharo Exp \$

* \$Revision: 1.18 \$

* \$Date: 2006/11/30 18:49:27 \$

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* \$Id: DefaultAbsolutePath.java,v 1.18 2006/11/30 18:49:27 elharo Exp \$

*/

Found in path(s):

* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/expr/DefaultAbsolutePath.java

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/*

* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultXPathExpr.java,v 1.9 2006/06/03
20:52:26 elharo Exp \$

* \$Revision: 1.9 \$

* \$Date: 2006/06/03 20:52:26 \$

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* \$Id: DefaultXPathExpr.java,v 1.9 2006/06/03 20:52:26 elharo Exp \$
*/

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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/expr/DefaultXPathExpr.java

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/*

* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/saxpath/base/XPathLexer.java,v 1.17
2006/02/05 21:47:42 elharo Exp \$

* \$Revision: 1.17 \$

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* \$Id: XPathLexer.java,v 1.17 2006/02/05 21:47:42 elharo Exp \$
*/

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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/saxpath/base/XPathLexer.java

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* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/pattern/PatternParser.java,v 1.18 2006/02/05
21:47:42 elharo Exp \$

* \$Revision: 1.18 \$

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* \$Id: PatternParser.java,v 1.18 2006/02/05 21:47:42 elharo Exp \$
*/

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jar/org/jaxen/pattern/PatternParser.java

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* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/EqualityExpr.java,v 1.6 2006/11/09
16:21:05 elharo Exp \$

* \$Revision: 1.6 \$

* \$Date: 2006/11/09 16:21:05 \$

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* \$Id: EqualityExpr.java,v 1.6 2006/11/09 16:21:05 elharo Exp \$
*/

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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/expr/EqualityExpr.java

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/*
* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/iter/IterableNamespaceAxis.java,v 1.7
2006/06/03 20:47:22 elharo Exp \$
* \$Revision: 1.7 \$
* \$Date: 2006/06/03 20:47:22 \$

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* \$Id: IterableNamespaceAxis.java,v 1.7 2006/06/03 20:47:22 elharo Exp \$

*/

Found in path(s):

* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
 jar/org/jaxen/expr/iter/IterableNamespaceAxis.java

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/*

* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/PathExpr.java,v 1.9 2007/05/02 14:26:41
 elharo Exp \$

* \$Revision: 1.9 \$

* \$Date: 2007/05/02 14:26:41 \$

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* \$Id: PathExpr.java,v 1.9 2007/05/02 14:26:41 elharo Exp \$

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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
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* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/RelationalExpr.java,v 1.6 2006/11/09 16:21:05 elharo Exp \$

* \$Revision: 1.6 \$

* \$Date: 2006/11/09 16:21:05 \$

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*

* \$Id: RelationalExpr.java,v 1.6 2006/11/09 16:21:05 elharo Exp \$

*/

Found in path(s):

* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/expr/RelationalExpr.java

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

/*

* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/Predicate.java,v 1.14 2007/05/02 14:27:46 elharo Exp \$

* \$Revision: 1.14 \$

* \$Date: 2007/05/02 14:27:46 \$

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* \$Id: Predicate.java,v 1.14 2007/05/02 14:27:46 elharo Exp \$
*/

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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/expr/Predicate.java

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/*

* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultXPathFactory.java,v 1.17
2006/11/09 16:07:36 elharo Exp \$

* \$Revision: 1.17 \$

* \$Date: 2006/11/09 16:07:36 \$

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* \$Id: DefaultXPathFactory.java,v 1.17 2006/11/09 16:07:36 elharo Exp \$

*/

Found in path(s):

* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/expr/DefaultXPathFactory.java

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

/*

* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultRelativeLocationPath.java,v 1.13
2006/11/30 18:49:27 elharo Exp \$

* \$Revision: 1.13 \$

* \$Date: 2006/11/30 18:49:27 \$

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*

* \$Id: DefaultRelativeLocationPath.java,v 1.13 2006/11/30 18:49:27 elharo Exp \$
*/

Found in path(s):

* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/expr/DefaultRelativeLocationPath.java

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/*

* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/UnaryExpr.java,v 1.7 2006/11/08 19:06:30
elharo Exp \$

* \$Revision: 1.7 \$

* \$Date: 2006/11/08 19:06:30 \$

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* \$Id: UnaryExpr.java,v 1.7 2006/11/08 19:06:30 elharo Exp \$
*/

Found in path(s):

* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/expr/UnaryExpr.java

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/*
* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultTruthExpr.java,v 1.10 2006/02/05
21:47:40 elharo Exp \$
* \$Revision: 1.10 \$
* \$Date: 2006/02/05 21:47:40 \$

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* \$Id: DefaultTruthExpr.java,v 1.10 2006/02/05 21:47:40 elharo Exp \$
*/

Found in path(s):

* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/expr/DefaultTruthExpr.java

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* \$Id: \$
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Found in path(s):

- * /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/JaxenConstants.java
- * /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/JaxenRuntimeException.java

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/*
* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/ext/LocaleFunctionSupport.java,v 1.10
2006/02/05 21:47:42 elharo Exp \$
* \$Revision: 1.10 \$
* \$Date: 2006/02/05 21:47:42 \$
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 * \$Id: LocaleFunctionSupport.java,v 1.10 2006/02/05 21:47:42 elharo Exp \$
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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
 jar/org/jaxen/function/ext/LocaleFunctionSupport.java

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/*

* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/LocalNameFunction.java,v 1.14
 2006/02/05 21:47:41 elharo Exp \$

```

* $Revision: 1.14 $
* $Date: 2006/02/05 21:47:41 $
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* $Id: LocalNameFunction.java,v 1.14 2006/02/05 21:47:41 elharo Exp $
*/

```

Found in path(s):

```

* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/function/LocalNameFunction.java

```

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```
/*
 * $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/pattern/NamespaceTest.java,v 1.6 2006/02/05
21:47:42 elharo Exp $
 * $Revision: 1.6 $
 * $Date: 2006/02/05 21:47:42 $
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 * $Id: NamespaceTest.java,v 1.6 2006/02/05 21:47:42 elharo Exp $
```


*/

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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/pattern/namespaceTest.java

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/*

* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/CountFunction.java,v 1.14 2006/02/05 21:47:41 elharo Exp \$

* \$Revision: 1.14 \$

* \$Date: 2006/02/05 21:47:41 \$

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* \$Id: CountFunction.java,v 1.14 2006/02/05 21:47:41 elharo Exp \$
*/

Found in path(s):

* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/function/CountFunction.java

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/*

* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/pattern/Pattern.java,v 1.13 2006/04/07 17:11:52
elharo Exp \$

* \$Revision: 1.13 \$

* \$Date: 2006/04/07 17:11:52 \$

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* \$Id: Pattern.java,v 1.13 2006/04/07 17:11:52 elharo Exp \$

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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
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/*

* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/StringFunction.java,v 1.33 2006/02/05
21:47:41 elharo Exp \$

* \$Revision: 1.33 \$

* \$Date: 2006/02/05 21:47:41 \$

*

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* \$Id: StringFunction.java,v 1.33 2006/02/05 21:47:41 elharo Exp \$

*/

Found in path(s):

* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/function/StringFunction.java

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/*

\$Id: IterableChildAxis.java,v 1.11 2006/06/03 20:50:12 elharo Exp \$

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Found in path(s):

* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/expr/iter/IterableChildAxis.java

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/*

* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/util/AncestorAxisIterator.java,v 1.14 2006/11/09 18:20:12 elharo Exp \$

* \$Revision: 1.14 \$

* \$Date: 2006/11/09 18:20:12 \$

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* \$Id: AncestorAxisIterator.java,v 1.14 2006/11/09 18:20:12 elharo Exp \$

*/

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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/util/AncestorAxisIterator.java

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

/*

* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/saxpath/XPathReader.java,v 1.6 2006/02/05
21:47:42 elharo Exp \$

* \$Revision: 1.6 \$

* \$Date: 2006/02/05 21:47:42 \$

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* \$Id: XPathReader.java,v 1.6 2006/02/05 21:47:42 elharo Exp \$

*/

Found in path(s):

* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/saxpath/XPathReader.java

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/*

* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/javabean/JavaBeanXPath.java,v 1.6 2006/06/03
20:36:00 elharo Exp \$

* \$Revision: 1.6 \$

* \$Date: 2006/06/03 20:36:00 \$

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* \$Id: JavaBeanXPath.java,v 1.6 2006/06/03 20:36:00 elharo Exp \$
*/

Found in path(s):

* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/javabean/JavaBeanXPath.java

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/*

* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/pattern/TextNodeTest.java,v 1.6 2006/02/05
21:47:42 elharo Exp \$

* \$Revision: 1.6 \$

* \$Date: 2006/02/05 21:47:42 \$

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* \$Id: TextNodeTest.java,v 1.6 2006/02/05 21:47:42 elharo Exp \$
*/

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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/pattern/TextNodeTest.java

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

/*
* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/TextNodeStep.java,v 1.6 2006/11/08
18:52:02 elharo Exp \$
* \$Revision: 1.6 \$
* \$Date: 2006/11/08 18:52:02 \$

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* \$Id: TextNodeStep.java,v 1.6 2006/11/08 18:52:02 elharo Exp \$
 */

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 * /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
 jar/org/jaxen/expr/TextNodeStep.java
 No license file was found, but licenses were detected in source scan.

/*
 * \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/Predicated.java,v 1.9 2006/11/08 18:07:25
 elharo Exp \$
 * \$Revision: 1.9 \$
 * \$Date: 2006/11/08 18:07:25 \$

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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
 jar/org/jaxen/expr/Predicated.java

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/*

* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultAdditiveExpr.java,v 1.9
 2006/02/05 21:47:40 elharo Exp \$

* \$Revision: 1.9 \$

* \$Date: 2006/02/05 21:47:40 \$

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* \$Id: DefaultAdditiveExpr.java,v 1.9 2006/02/05 21:47:40 elharo Exp \$

*/

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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/expr/DefaultAdditiveExpr.java

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```
/*
 * $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/AdditiveExpr.java,v 1.6 2006/11/09
16:21:05 elharo Exp $
 * $Revision: 1.6 $
 * $Date: 2006/11/09 16:21:05 $
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```

* \$Id: AdditiveExpr.java,v 1.6 2006/11/09 16:21:05 elharo Exp \$

*/

Found in path(s):

* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/expr/AdditiveExpr.java

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* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultOrExpr.java,v 1.17 2006/11/30 18:49:26 elharo Exp \$

* \$Revision: 1.17 \$

* \$Date: 2006/11/30 18:49:26 \$

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* \$Id: DefaultOrExpr.java,v 1.17 2006/11/30 18:49:26 elharo Exp \$
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Found in path(s):

* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/expr/DefaultOrExpr.java

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/*

* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/pattern/NameTest.java,v 1.7 2006/02/05
21:47:42 elharo Exp \$

* \$Revision: 1.7 \$

* \$Date: 2006/02/05 21:47:42 \$

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* \$Id: NameTest.java,v 1.7 2006/02/05 21:47:42 elharo Exp \$

*/

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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/pattern/NameTest.java

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

/*

* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultLiteralExpr.java,v 1.13 2007/01/03
20:47:42 elharo Exp \$

* \$Revision: 1.13 \$

* \$Date: 2007/01/03 20:47:42 \$

*

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* \$Id: DefaultLiteralExpr.java,v 1.13 2007/01/03 20:47:42 elharo Exp \$
*/

Found in path(s):

* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/expr/DefaultLiteralExpr.java

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/*

* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/CeilingFunction.java,v 1.11
2006/02/05 21:47:41 elharo Exp \$

* \$Revision: 1.11 \$

* \$Date: 2006/02/05 21:47:41 \$

*

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* \$Id: CeilingFunction.java,v 1.11 2006/02/05 21:47:41 elharo Exp \$
*/

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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/function/CeilingFunction.java

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/*
* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/pattern/NodeTypeTest.java,v 1.8 2006/02/05
21:47:42 elharo Exp \$
* \$Revision: 1.8 \$
* \$Date: 2006/02/05 21:47:42 \$

*
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* \$Id: NodeTypeTest.java,v 1.8 2006/02/05 21:47:42 elharo Exp \$
*/

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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/pattern/NodeTypeTest.java

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

/*
* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/ProcessingInstructionNodeStep.java,v 1.5
2006/11/08 15:44:33 elharo Exp \$
* \$Revision: 1.5 \$
* \$Date: 2006/11/08 15:44:33 \$

*
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 *
 * \$Id: ProcessingInstructionNodeStep.java,v 1.5 2006/11/08 15:44:33 elharo Exp \$
 */

Found in path(s):

* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
 jar/org/jaxen/expr/ProcessingInstructionNodeStep.java

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/*

\$Id: DocumentNavigator.java,v 1.8 2006/06/03 20:35:31 elharo Exp \$

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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/javabeans/DocumentNavigator.java

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

/*

* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultLogicalExpr.java,v 1.8 2006/02/05 21:47:40 elharo Exp \$

* \$Revision: 1.8 \$

* \$Date: 2006/02/05 21:47:40 \$

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* \$Id: DefaultLogicalExpr.java,v 1.8 2006/02/05 21:47:40 elharo Exp \$
*/

Found in path(s):

* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/expr/DefaultLogicalExpr.java

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/*

* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/pattern/AnyNodeTest.java,v 1.8 2006/02/05
21:47:42 elharo Exp \$

* \$Revision: 1.8 \$

* \$Date: 2006/02/05 21:47:42 \$

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* \$Id: AnyNodeTest.java,v 1.8 2006/02/05 21:47:42 elharo Exp \$

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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
 jar/org/jaxen/pattern/AnyNodeTest.java

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/*

* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultEqualsExpr.java,v 1.13 2006/11/30
 18:49:26 elharo Exp \$

* \$Revision: 1.13 \$

* \$Date: 2006/11/30 18:49:26 \$

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* \$Id: DefaultEqualsExpr.java,v 1.13 2006/11/30 18:49:26 elharo Exp \$

*/

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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
 jar/org/jaxen/expr/DefaultEqualsExpr.java

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/*

* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/iter/IterablePrecedingSiblingAxis.java,v
 1.7 2006/06/03 20:47:22 elharo Exp \$

* \$Revision: 1.7 \$

* \$Date: 2006/06/03 20:47:22 \$

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* \$Id: IterablePrecedingSiblingAxis.java,v 1.7 2006/06/03 20:47:22 elharo Exp \$

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Found in path(s):

* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/expr/iter/IterablePrecedingSiblingAxis.java

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```
/*
 * $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/Function.java,v 1.8 2006/02/05 21:47:41 elharo
Exp $
 * $Revision: 1.8 $
 * $Date: 2006/02/05 21:47:41 $
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 * $Id: Function.java,v 1.8 2006/02/05 21:47:41 elharo Exp $
```

*/

Found in path(s):

* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/Function.java

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/*

* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/util/DescendantAxisIterator.java,v 1.13 2006/11/09 18:20:11 elharo Exp \$

* \$Revision: 1.13 \$

* \$Date: 2006/11/09 18:20:11 \$

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* \$Id: DescendantAxisIterator.java,v 1.13 2006/11/09 18:20:11 elharo Exp \$
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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/util/DescendantAxisIterator.java

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/*
* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/iter/IterableDescendantOrSelfAxis.java,v
1.7 2006/06/03 20:47:22 elharo Exp \$

* \$Revision: 1.7 \$

* \$Date: 2006/06/03 20:47:22 \$

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* \$Id: IterableDescendantOrSelfAxis.java,v 1.7 2006/06/03 20:47:22 elharo Exp \$
*/

Found in path(s):

* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/expr/iter/IterableDescendantOrSelfAxis.java

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

/*

* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultAndExpr.java,v 1.16 2006/11/30
18:49:27 elharo Exp \$

* \$Revision: 1.16 \$

* \$Date: 2006/11/30 18:49:27 \$

*

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*

* \$Id: DefaultAndExpr.java,v 1.16 2006/11/30 18:49:27 elharo Exp \$
*/

Found in path(s):

* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/expr/DefaultAndExpr.java

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

/*

* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/dom/NamespaceNode.java,v 1.25 2006/07/03
11:14:05 elharo Exp \$

* \$Revision: 1.25 \$

* \$Date: 2006/07/03 11:14:05 \$

*

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*
* \$Id: NamespaceNode.java,v 1.25 2006/07/03 11:14:05 elharo Exp \$
*/

Found in path(s):

* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/dom/NamespaceNode.java

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/*
* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/iter/IterablePrecedingAxis.java,v 1.7
2006/06/03 20:47:22 elharo Exp \$
* \$Revision: 1.7 \$
* \$Date: 2006/06/03 20:47:22 \$

*
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* \$Id: IterablePrecedingAxis.java,v 1.7 2006/06/03 20:47:22 elharo Exp \$
*/

Found in path(s):

* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/expr/iter/IterablePrecedingAxis.java

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/*
* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/IdFunction.java,v 1.13 2006/02/05
21:47:41 elharo Exp \$
* \$Revision: 1.13 \$
* \$Date: 2006/02/05 21:47:41 \$

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*
* $Id: IdFunction.java,v 1.13 2006/02/05 21:47:41 elharo Exp $
*/

```

Found in path(s):

```

* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/function/IdFunction.java

```

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```

/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/RoundFunction.java,v 1.12 2006/02/05
21:47:41 elharo Exp $
* $Revision: 1.12 $
* $Date: 2006/02/05 21:47:41 $
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* \$Id: RoundFunction.java,v 1.12 2006/02/05 21:47:41 elharo Exp \$
*/

Found in path(s):
* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/function/RoundFunction.java
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/*
* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/TrueFunction.java,v 1.9 2006/02/05
21:47:41 elharo Exp \$
* \$Revision: 1.9 \$
* \$Date: 2006/02/05 21:47:41 \$

```

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* $Id: TrueFunction.java,v 1.9 2006/02/05 21:47:41 elharo Exp $
*/

```

Found in path(s):

```

* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/function/TrueFunction.java

```

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

```
/*
 * $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultModExpr.java,v 1.15 2006/11/30
18:49:26 elharo Exp $
 * $Revision: 1.15 $
 * $Date: 2006/11/30 18:49:26 $
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 * $Id: DefaultModExpr.java,v 1.15 2006/11/30 18:49:26 elharo Exp $
 */
```

Found in path(s):

* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/expr/DefaultModExpr.java

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/*

* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/FunctionCallExpr.java,v 1.9 2006/11/08 16:37:59 elharo Exp \$

* \$Revision: 1.9 \$

* \$Date: 2006/11/08 16:37:59 \$

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* \$Id: FunctionCallExpr.java,v 1.9 2006/11/08 16:37:59 elharo Exp \$
*/

Found in path(s):

* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/expr/FunctionCallExpr.java

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/*

* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/LastFunction.java,v 1.10 2006/02/05
21:47:41 elharo Exp \$

* \$Revision: 1.10 \$

* \$Date: 2006/02/05 21:47:41 \$

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* \$Id: LastFunction.java,v 1.10 2006/02/05 21:47:41 elharo Exp \$
*/

Found in path(s):

* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/function/LastFunction.java
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* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultExpr.java,v 1.14 2006/02/05
21:47:40 elharo Exp \$
* \$Revision: 1.14 \$
* \$Date: 2006/02/05 21:47:40 \$
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* \$Id: DefaultExpr.java,v 1.14 2006/02/05 21:47:40 elharo Exp \$

*/

Found in path(s):

* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/expr/DefaultExpr.java

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/*

* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/saxpath/base/XPathReader.java,v 1.32 2006/04/07 23:47:37 elharo Exp \$

* \$Revision: 1.32 \$

* \$Date: 2006/04/07 23:47:37 \$

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* \$Id: XPathReader.java,v 1.32 2006/04/07 23:47:37 elharo Exp \$

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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/saxpath/base/XPathReader.java

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/*

* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/pattern/UnionPattern.java,v 1.8 2006/02/05
21:47:42 elharo Exp \$

* \$Revision: 1.8 \$

* \$Date: 2006/02/05 21:47:42 \$

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*
* \$Id: UnionPattern.java,v 1.8 2006/02/05 21:47:42 elharo Exp \$
*/

Found in path(s):

* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/pattern/UnionPattern.java

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

/*
* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultPredicate.java,v 1.13 2006/11/30
18:49:27 elharo Exp \$
* \$Revision: 1.13 \$
* \$Date: 2006/11/30 18:49:27 \$

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 *
 * \$Id: DefaultPredicate.java,v 1.13 2006/11/30 18:49:27 elharo Exp \$
 */

Found in path(s):
 * /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
 jar/org/jaxen/expr/DefaultPredicate.java
 No license file was found, but licenses were detected in source scan.

/*
 * \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/SimpleNamespaceContext.java,v 1.18
 2006/06/03 20:19:26 elharo Exp \$
 * \$Revision: 1.18 \$
 * \$Date: 2006/06/03 20:19:26 \$
 *
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 *
 * \$Id: SimpleNamespaceContext.java,v 1.18 2006/06/03 20:19:26 elharo Exp \$
 */

Found in path(s):

* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
 jar/org/jaxen/SimpleNamespaceContext.java

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

/*
 * \$Header\$
 * \$Revision\$
 * \$Date\$
 *
 * =====

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*
* $Id$
*/

```

Found in path(s):

```

* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/expr/NodeComparator.java

```

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

```

/*

```

```

* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/SimpleFunctionContext.java,v 1.14 2006/02/05

```

21:47:41 elharo Exp \$

* \$Revision: 1.14 \$

* \$Date: 2006/02/05 21:47:41 \$

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* \$Id: SimpleFunctionContext.java,v 1.14 2006/02/05 21:47:41 elharo Exp \$

*/

Found in path(s):

* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-

jar/org/jaxen/SimpleFunctionContext.java

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```
/*
 * $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/XPathSyntaxException.java,v 1.12 2006/06/03
 20:26:36 elharo Exp $
 * $Revision: 1.12 $
 * $Date: 2006/06/03 20:26:36 $
 *
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 *

```

* \$Id: XPathSyntaxException.java,v 1.12 2006/06/03 20:26:36 elharo Exp \$

*/

Found in path(s):

* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/XPathSyntaxException.java

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/*

* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/AllNodeStep.java,v 1.6 2006/11/08 15:41:05 elharo Exp \$

* \$Revision: 1.6 \$

* \$Date: 2006/11/08 15:41:05 \$

*

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* \$Id: AllNodeStep.java,v 1.6 2006/11/08 15:41:05 elharo Exp \$
*/

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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/expr/AllNodeStep.java

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/*

* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/StringLengthFunction.java,v 1.12
2006/02/05 21:47:41 elharo Exp \$

* \$Revision: 1.12 \$

* \$Date: 2006/02/05 21:47:41 \$

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* \$Id: StringLengthFunction.java,v 1.12 2006/02/05 21:47:41 elharo Exp \$
*/

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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/function/StringLengthFunction.java

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/*

* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/JaxenException.java,v 1.17 2006/06/03
20:27:21 elharo Exp \$

* \$Revision: 1.17 \$

* \$Date: 2006/06/03 20:27:21 \$

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* \$Id: JaxenException.java,v 1.17 2006/06/03 20:27:21 elharo Exp \$
*/

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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/JaxenException.java

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/*

* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultLessThanEqualExpr.java,v 1.14
2006/11/30 18:49:26 elharo Exp \$

* \$Revision: 1.14 \$

* \$Date: 2006/11/30 18:49:26 \$

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* \$Id: DefaultLessThanEqualExpr.java,v 1.14 2006/11/30 18:49:26 elharo Exp \$
*/

Found in path(s):

* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/expr/DefaultLessThanEqualExpr.java

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* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultMultiplyExpr.java,v 1.14
2006/11/30 18:49:27 elharo Exp \$
* \$Revision: 1.14 \$
* \$Date: 2006/11/30 18:49:27 \$

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* \$Id: DefaultMultiplyExpr.java,v 1.14 2006/11/30 18:49:27 elharo Exp \$
*/

Found in path(s):

* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/expr/DefaultMultiplyExpr.java

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/*

* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/NormalizeSpaceFunction.java,v 1.17
2006/02/05 21:47:41 elharo Exp \$

* \$Revision: 1.17 \$

* \$Date: 2006/02/05 21:47:41 \$

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* \$Id: NormalizeSpaceFunction.java,v 1.17 2006/02/05 21:47:41 elharo Exp \$
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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
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* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/ext/EndsWithFunction.java,v 1.7
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* \$Revision: 1.7 \$

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*

* \$Id: EndsWithFunction.java,v 1.7 2006/02/05 21:47:42 elharo Exp \$

*/

Found in path(s):

* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
 jar/org/jaxen/function/ext/EndsWithFunction.java

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

/*

* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/xslt/DocumentFunction.java,v 1.6
 2006/02/05 21:47:42 elharo Exp \$

* \$Revision: 1.6 \$

* \$Date: 2006/02/05 21:47:42 \$

*

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* \$Id: DocumentFunction.java,v 1.6 2006/02/05 21:47:42 elharo Exp \$

*/

Found in path(s):

* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/function/xslt/DocumentFunction.java

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

```
/*
 * $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/dom/DOMXPath.java,v 1.10 2006/06/03
20:44:16 elharo Exp $
 * $Revision: 1.10 $
 * $Date: 2006/06/03 20:44:16 $
 *
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 *
 * $Id: DOMXPath.java,v 1.10 2006/06/03 20:44:16 elharo Exp $
```

*/

Found in path(s):

* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/dom/DOMXPath.java

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/*

* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/ext/UpperFunction.java,v 1.11 2006/02/05 21:47:42 elharo Exp \$

* \$Revision: 1.11 \$

* \$Date: 2006/02/05 21:47:42 \$

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*
* \$Id: UpperFunction.java,v 1.11 2006/02/05 21:47:42 elharo Exp \$
*/

Found in path(s):

* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/function/ext/UpperFunction.java

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

/*

* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/util/AncestorOrSelfAxisIterator.java,v 1.14
2006/11/09 18:20:12 elharo Exp \$

* \$Revision: 1.14 \$

* \$Date: 2006/11/09 18:20:12 \$

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*

* \$Id: AncestorOrSelfAxisIterator.java,v 1.14 2006/11/09 18:20:12 elharo Exp \$

*/

Found in path(s):

* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/util/AncestorOrSelfAxisIterator.java

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

/*

* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/UnsupportedAxisException.java,v 1.11
2006/06/03 20:26:02 elharo Exp \$

* \$Revision: 1.11 \$

* \$Date: 2006/06/03 20:26:02 \$

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* \$Id: UnsupportedAxisException.java,v 1.11 2006/06/03 20:26:02 elharo Exp \$

*/

Found in path(s):

* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/UnsupportedAxisException.java

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

/*

* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/saxpath/Operator.java,v 1.5 2006/02/05
21:47:42 elharo Exp \$

* \$Revision: 1.5 \$

* \$Date: 2006/02/05 21:47:42 \$

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* \$Id: Operator.java,v 1.5 2006/02/05 21:47:42 elharo Exp \$
*/

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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/saxpath/Operator.java

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

/*

* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultNotEqualsExpr.java,v 1.14
2006/11/30 18:49:27 elharo Exp \$

* \$Revision: 1.14 \$

* \$Date: 2006/11/30 18:49:27 \$

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 * \$Id: DefaultNotEqualsExpr.java,v 1.14 2006/11/30 18:49:27 elharo Exp \$
 */

Found in path(s):

* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
 jar/org/jaxen/expr/DefaultNotEqualsExpr.java

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\$Id: IterableAttributeAxis.java,v 1.9 2006/06/03 20:50:12 elharo Exp \$

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* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/FalseFunction.java,v 1.11 2006/02/05 21:47:41 elharo Exp \$

* \$Revision: 1.11 \$

* \$Date: 2006/02/05 21:47:41 \$

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* \$Id: FalseFunction.java,v 1.11 2006/02/05 21:47:41 elharo Exp \$
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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/function/FalseFunction.java

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/*
* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/JaxenHandler.java,v 1.15 2006/03/30 13:53:11
elharo Exp \$
* \$Revision: 1.15 \$
* \$Date: 2006/03/30 13:53:11 \$
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* \$Id: JaxenHandler.java,v 1.15 2006/03/30 13:53:11 elharo Exp \$
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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/JaxenHandler.java
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/*
* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/util/PrecedingSiblingAxisIterator.java,v 1.16
2006/11/13 22:10:09 elharo Exp \$
* \$Revision: 1.16 \$
* \$Date: 2006/11/13 22:10:09 \$
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* \$Id: PrecedingSiblingAxisIterator.java,v 1.16 2006/11/13 22:10:09 elharo Exp \$
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Found in path(s):

* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/util/PrecedingSiblingAxisIterator.java

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/*

\$Id: ContextSupport.java,v 1.13 2006/06/03 20:06:06 elharo Exp \$

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*/

Found in path(s):

* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/ContextSupport.java

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

/*

* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/LiteralExpr.java,v 1.9 2006/11/08 16:47:30 elharo Exp \$

* \$Revision: 1.9 \$

* \$Date: 2006/11/08 16:47:30 \$

*

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* \$Id: LiteralExpr.java,v 1.9 2006/11/08 16:47:30 elharo Exp \$
*/

Found in path(s):
* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/expr/LiteralExpr.java
No license file was found, but licenses were detected in source scan.

/*
* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultGreaterThanExpr.java,v 1.14
2006/11/30 18:49:27 elharo Exp \$
* \$Revision: 1.14 \$
* \$Date: 2006/11/30 18:49:27 \$

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 *
 * \$Id: DefaultGreaterThanExpr.java,v 1.14 2006/11/30 18:49:27 elharo Exp \$
 */

Found in path(s):

* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
 jar/org/jaxen/expr/DefaultGreaterThanExpr.java

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

/*

* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/iter/IterableAncestorOrSelfAxis.java,v 1.7
 2006/06/03 20:50:12 elharo Exp \$

* \$Revision: 1.7 \$

* \$Date: 2006/06/03 20:50:12 \$

*

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* $Id: IterableAncestorOrSelfAxis.java,v 1.7 2006/06/03 20:50:12 elharo Exp $
*/

```

Found in path(s):

```

* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/expr/iter/IterableAncestorOrSelfAxis.java

```

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

/*

```

* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultBinaryExpr.java,v 1.10 2007/01/05

```

18:25:43 elharo Exp \$

* \$Revision: 1.10 \$

* \$Date: 2007/01/05 18:25:43 \$

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* \$Id: DefaultBinaryExpr.java,v 1.10 2007/01/05 18:25:43 elharo Exp \$

*/

Found in path(s):

* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-

jar/org/jaxen/expr/DefaultBinaryExpr.java

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/*

* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/NotFunction.java,v 1.9 2006/02/05 21:47:41 elharo Exp \$

* \$Revision: 1.9 \$

* \$Date: 2006/02/05 21:47:41 \$

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* \$Id: NotFunction.java,v 1.9 2006/02/05 21:47:41 elharo Exp \$

*/

Found in path(s):

* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/function/NotFunction.java

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/*

* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/saxpath/SAXPathEventSource.java,v 1.5 2006/02/05 21:47:42 elharo Exp \$

* \$Revision: 1.5 \$

* \$Date: 2006/02/05 21:47:42 \$

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* \$Id: SAXPathEventSource.java,v 1.5 2006/02/05 21:47:42 elharo Exp \$
*/

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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/saxpath/SAXPathEventSource.java

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/*

* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/util/FollowingAxisIterator.java,v 1.8
2006/11/09 18:20:12 elharo Exp \$

* \$Revision: 1.8 \$

* \$Date: 2006/11/09 18:20:12 \$

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* \$Id: FollowingAxisIterator.java,v 1.8 2006/11/09 18:20:12 elharo Exp \$

*/

Found in path(s):

* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/util/FollowingAxisIterator.java

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/*

* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/saxpath/Axis.java,v 1.8 2006/03/30 13:56:36
elharo Exp \$

* \$Revision: 1.8 \$

* \$Date: 2006/03/30 13:56:36 \$

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* \$Id: Axis.java,v 1.8 2006/03/30 13:56:36 elharo Exp \$

*/

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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/saxpath/Axis.java

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* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/Expr.java,v 1.14 2006/11/30 18:49:26
elharo Exp \$

* \$Revision: 1.14 \$

* \$Date: 2006/11/30 18:49:26 \$

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* \$Id: Expr.java,v 1.14 2006/11/30 18:49:26 elharo Exp \$
*/

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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/expr/Expr.java
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* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/saxpath/base/Token.java,v 1.5 2006/02/05
21:47:42 elharo Exp \$
* \$Revision: 1.5 \$
* \$Date: 2006/02/05 21:47:42 \$
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* \$Id: NumberExpr.java,v 1.8 2006/11/08 17:17:32 elharo Exp \$
 */

Found in path(s):
 * /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
 jar/org/jaxen/expr/NumberExpr.java
 No license file was found, but licenses were detected in source scan.

/*
 * \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/iter/IterableFollowingSiblingAxis.java,v
 1.7 2006/06/03 20:47:22 elharo Exp \$
 * \$Revision: 1.7 \$
 * \$Date: 2006/06/03 20:47:22 \$


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* $Id: IterableFollowingSiblingAxis.java,v 1.7 2006/06/03 20:47:22 elharo Exp $
*/

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Found in path(s):

```

* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
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```

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```
/*
 * $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/XPathExpr.java,v 1.9 2007/05/02 15:04:46
elharo Exp $
 * $Revision: 1.9 $
 * $Date: 2007/05/02 15:04:46 $
 *
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 *
 * $Id: XPathExpr.java,v 1.9 2007/05/02 15:04:46 elharo Exp $
 */
```

Found in path(s):

* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/expr/XPathExpr.java

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/*

* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultStep.java,v 1.21 2006/02/05 21:47:40 elharo Exp \$

* \$Revision: 1.21 \$

* \$Date: 2006/02/05 21:47:40 \$

*

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*
* \$Id: DefaultStep.java,v 1.21 2006/02/05 21:47:40 elharo Exp \$
*/

Found in path(s):

* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/expr/DefaultStep.java

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/*

* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/util/SingleObjectIterator.java,v 1.8 2006/11/09 18:20:12 elharo Exp \$

* \$Revision: 1.8 \$

* \$Date: 2006/11/09 18:20:12 \$

*

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* $Id: SingleObjectIterator.java,v 1.8 2006/11/09 18:20:12 elharo Exp $
*/
```

Found in path(s):

```
* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/util/SingleObjectIterator.java
```

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```
/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultGreaterThanEqualExpr.java,v 1.14
2006/11/30 18:49:27 elharo Exp $
* $Revision: 1.14 $
* $Date: 2006/11/30 18:49:27 $
*
* =====
```

```
* =====
```

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* \$Id: DefaultGreaterThanOrEqualExpr.java,v 1.14 2006/11/30 18:49:27 elharo Exp \$
*/

Found in path(s):

* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/expr/DefaultGreaterThanOrEqualExpr.java

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/*
* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/QualifiedName.java,v 1.12 2006/06/01
13:19:30 elharo Exp \$
* \$Revision: 1.12 \$
* \$Date: 2006/06/01 13:19:30 \$

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* \$Id: QualifiedName.java,v 1.12 2006/06/01 13:19:30 elharo Exp \$

*/

Found in path(s):

* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/QualifiedName.java

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/*

* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultUnionExpr.java,v 1.17 2006/11/30
18:49:27 elharo Exp \$

* \$Revision: 1.17 \$

* \$Date: 2006/11/30 18:49:27 \$

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* \$Id: DefaultUnionExpr.java,v 1.17 2006/11/30 18:49:27 elharo Exp \$
*/

Found in path(s):

* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/expr/DefaultUnionExpr.java

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/*
* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultPathExpr.java,v 1.16 2006/11/30
18:49:26 elharo Exp \$
* \$Revision: 1.16 \$
* \$Date: 2006/11/30 18:49:26 \$

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* \$Id: DefaultPathExpr.java,v 1.16 2006/11/30 18:49:26 elharo Exp \$
*/

Found in path(s):
* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/expr/DefaultPathExpr.java
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\$Id\$

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* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/iter/IterableSelfAxis.java,v 1.7 2006/06/03 20:47:22 elharo Exp \$

* \$Revision: 1.7 \$

* \$Date: 2006/06/03 20:47:22 \$

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* \$Id: IterableSelfAxis.java,v 1.7 2006/06/03 20:47:22 elharo Exp \$
*/

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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/expr/iter/IterableSelfAxis.java
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* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/SubstringBeforeFunction.java,v 1.10
2006/02/05 21:47:41 elharo Exp \$
* \$Revision: 1.10 \$
* \$Date: 2006/02/05 21:47:41 \$
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* \$Id: SubstringBeforeFunction.java,v 1.10 2006/02/05 21:47:41 elharo Exp \$
 */

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 jar/org/jaxen/function/SubstringBeforeFunction.java
 No license file was found, but licenses were detected in source scan.

/*
 * \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/util/SingletonList.java,v 1.4 2006/11/09
 16:39:19 elharo Exp \$
 * \$Revision: 1.4 \$
 * \$Date: 2006/11/09 16:39:19 \$

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 * \$Id: SingletonList.java,v 1.4 2006/11/09 16:39:19 elharo Exp \$
 */

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/*

* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/ConcatFunction.java,v 1.9 2006/02/05 21:47:41 elharo Exp \$

* \$Revision: 1.9 \$

* \$Date: 2006/02/05 21:47:41 \$

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* $Id: ConcatFunction.java,v 1.9 2006/02/05 21:47:41 elharo Exp $
*/

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```

* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
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/*

```

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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/saxpath/base/TokenTypes.java,v 1.12
2006/02/05 21:47:42 elharo Exp $
* $Revision: 1.12 $
* $Date: 2006/02/05 21:47:42 $
*
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* $Id: TokenTypes.java,v 1.12 2006/02/05 21:47:42 elharo Exp $
*/
```

Found in path(s):

* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/saxpath/base/TokenTypes.java

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/*

* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/util/LinkedIterator.java,v 1.8 2006/11/09 18:20:12 elharo Exp \$

* \$Revision: 1.8 \$

* \$Date: 2006/11/09 18:20:12 \$

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* \$Id: LinkedIterator.java,v 1.8 2006/11/09 18:20:12 elharo Exp \$

*/

Found in path(s):

* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/util/LinkedIterator.java

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/*

* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/Step.java,v 1.13 2006/12/10 15:32:14 elharo Exp \$

* \$Revision: 1.13 \$

* \$Date: 2006/12/10 15:32:14 \$

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* \$Id: Step.java,v 1.13 2006/12/10 15:32:14 elharo Exp \$
*/

Found in path(s):

* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/expr/Step.java

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\$Id: IterableAxis.java,v 1.9 2006/02/05 21:47:42 elharo Exp \$

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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/expr/iter/IterableAxis.java

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* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/ContainsFunction.java,v 1.10
2006/02/05 21:47:41 elharo Exp \$

* \$Revision: 1.10 \$

* \$Date: 2006/02/05 21:47:41 \$

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* \$Id: ContainsFunction.java,v 1.10 2006/02/05 21:47:41 elharo Exp \$
*/

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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/function/ContainsFunction.java

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/*

* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/saxpath/helpers/DefaultXPathHandler.java,v 1.7
2006/02/05 21:47:42 elharo Exp \$

* \$Revision: 1.7 \$

* \$Date: 2006/02/05 21:47:42 \$

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* \$Id: DefaultXPathHandler.java,v 1.7 2006/02/05 21:47:42 elharo Exp \$

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Found in path(s):

* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
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\$Id: DefaultNameStep.java,v 1.53 2007/04/17 01:26:35 bewins Exp \$

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* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultLocationPath.java,v 1.29 2006/02/05 21:47:40 elharo Exp \$

* \$Revision: 1.29 \$

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* \$Id: DefaultLocationPath.java,v 1.29 2006/02/05 21:47:40 elharo Exp \$
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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/expr/DefaultLocationPath.java

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* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/util/FollowingSiblingAxisIterator.java,v 1.11
2006/11/09 18:20:12 elharo Exp \$

* \$Revision: 1.11 \$

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* \$Id: FollowingSiblingAxisIterator.java,v 1.11 2006/11/09 18:20:12 elharo Exp \$

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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/util/FollowingSiblingAxisIterator.java

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* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/pattern/NoNodeTest.java,v 1.7 2006/02/05
21:47:42 elharo Exp \$

* \$Revision: 1.7 \$

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* \$Id: NoNodeTest.java,v 1.7 2006/02/05 21:47:42 elharo Exp \$

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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/pattern/NoNodeTest.java

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* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/iter/IterableFollowingAxis.java,v 1.7
2006/06/03 20:47:22 elharo Exp \$

* \$Revision: 1.7 \$

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* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/saxpath/XPathSyntaxException.java,v 1.10
2006/06/03 20:29:30 elharo Exp \$
* \$Revision: 1.10 \$
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* \$Id: XPathSyntaxException.java,v 1.10 2006/06/03 20:29:30 elharo Exp \$
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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
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* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/SumFunction.java,v 1.11 2006/02/05
21:47:41 elharo Exp \$
* \$Revision: 1.11 \$
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*
* $Id: SumFunction.java,v 1.11 2006/02/05 21:47:41 elharo Exp $
*/

```

Found in path(s):

```

* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/function/SumFunction.java

```

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

```

/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/SimpleVariableContext.java,v 1.19 2006/06/03
20:19:54 elharo Exp $
* $Revision: 1.19 $
* $Date: 2006/06/03 20:19:54 $
*
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*

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 *
 * \$Id: SimpleVariableContext.java,v 1.19 2006/06/03 20:19:54 elharo Exp \$
 */

Found in path(s):

* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
 jar/org/jaxen/SimpleVariableContext.java

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/*

* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultNumberExpr.java,v 1.13
 2006/11/30 18:49:26 elharo Exp \$

```

* $Revision: 1.13 $
* $Date: 2006/11/30 18:49:26 $
*
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*
* $Id: DefaultNumberExpr.java,v 1.13 2006/11/30 18:49:26 elharo Exp $
*/

```

Found in path(s):

```
* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
```

jar/org/jaxen/expr/DefaultNumberExpr.java

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

/*

* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/NamespaceContext.java,v 1.10 2006/07/03

11:58:06 elharo Exp \$

* \$Revision: 1.10 \$

* \$Date: 2006/07/03 11:58:06 \$

*

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* \$Id: NamespaceContext.java,v 1.10 2006/07/03 11:58:06 elharo Exp \$

*/

Found in path(s):

* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/NamespaceContext.java

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/*

* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/FunctionContext.java,v 1.10 2006/02/05 21:47:41 elharo Exp \$

* \$Revision: 1.10 \$

* \$Date: 2006/02/05 21:47:41 \$

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* \$Id: FunctionContext.java,v 1.10 2006/02/05 21:47:41 elharo Exp \$
*/

Found in path(s):

* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/FunctionContext.java

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

/*

* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/DefaultNavigator.java,v 1.19 2006/02/05
21:47:41 elharo Exp \$

* \$Revision: 1.19 \$

* \$Date: 2006/02/05 21:47:41 \$

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* \$Id: DefaultNavigator.java,v 1.19 2006/02/05 21:47:41 elharo Exp \$

*/

Found in path(s):

* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/DefaultNavigator.java

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/*

* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultDivExpr.java,v 1.14 2006/11/30
18:49:27 elharo Exp \$

* \$Revision: 1.14 \$

* \$Date: 2006/11/30 18:49:27 \$

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* \$Id: DefaultDivExpr.java,v 1.14 2006/11/30 18:49:27 elharo Exp \$
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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/expr/DefaultDivExpr.java

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/*

* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultLessThanExpr.java,v 1.15
2006/11/30 18:49:27 elharo Exp \$

* \$Revision: 1.15 \$

* \$Date: 2006/11/30 18:49:27 \$

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* \$Id: DefaultLessThanExpr.java,v 1.15 2006/11/30 18:49:27 elharo Exp \$
*/

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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/expr/DefaultLessThanExpr.java

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* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/XPathFunctionContext.java,v 1.29 2006/11/08
13:59:38 elharo Exp \$
* \$Revision: 1.29 \$
* \$Date: 2006/11/08 13:59:38 \$

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 * \$Id: XPathFunctionContext.java,v 1.29 2006/11/08 13:59:38 elharo Exp \$
 */

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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
 jar/org/jaxen/XPathFunctionContext.java

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 * \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/VariableReferenceExpr.java,v 1.8
 2006/11/08 19:20:29 elharo Exp \$
 * \$Revision: 1.8 \$
 * \$Date: 2006/11/08 19:20:29 \$
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* $Id: VariableReferenceExpr.java,v 1.8 2006/11/08 19:20:29 elharo Exp $
*/

```

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```

* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/expr/VariableReferenceExpr.java

```

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/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/ext/EvaluateFunction.java,v 1.10
2006/02/05 21:47:42 elharo Exp $
* $Revision: 1.10 $
* $Date: 2006/02/05 21:47:42 $
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* \$Id: EvaluateFunction.java,v 1.10 2006/02/05 21:47:42 elharo Exp \$
*/

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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/function/ext/EvaluateFunction.java
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* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/FloorFunction.java,v 1.11 2006/02/05
21:47:41 elharo Exp \$
* \$Revision: 1.11 \$
* \$Date: 2006/02/05 21:47:41 \$

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* $Id: FloorFunction.java,v 1.11 2006/02/05 21:47:41 elharo Exp $
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Found in path(s):

```

* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/function/FloorFunction.java

```

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


```
/*
 * $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultCommentNodeStep.java,v 1.14
2006/11/30 18:49:27 elharo Exp $
 * $Revision: 1.14 $
 * $Date: 2006/11/30 18:49:27 $
 *
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 *
 * $Id: DefaultCommentNodeStep.java,v 1.14 2006/11/30 18:49:27 elharo Exp $
 */
```

Found in path(s):

* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/expr/DefaultCommentNodeStep.java

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/*

\$Id: XPath.java,v 1.13 2007/05/02 15:00:13 elharo Exp \$

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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/XPath.java

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/*

* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/NamespaceUriFunction.java,v 1.13 2006/02/05 21:47:41 elharo Exp \$

* \$Revision: 1.13 \$

* \$Date: 2006/02/05 21:47:41 \$

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* \$Id: NamespaceUriFunction.java,v 1.13 2006/02/05 21:47:41 elharo Exp \$

*/

Found in path(s):

* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/function/NamespaceUriFunction.java

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

```
/*
 * $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/BooleanFunction.java,v 1.17
2006/02/05 21:47:41 elharo Exp $
 * $Revision: 1.17 $
 * $Date: 2006/02/05 21:47:41 $
 *
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 *
 * $Id: BooleanFunction.java,v 1.17 2006/02/05 21:47:41 elharo Exp $
```

*/

Found in path(s):

* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/function/BooleanFunction.java

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/*

* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultVariableReferenceExpr.java,v 1.16 2006/11/30 18:49:26 elharo Exp \$

* \$Revision: 1.16 \$

* \$Date: 2006/11/30 18:49:26 \$

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* \$Id: DefaultVariableReferenceExpr.java,v 1.16 2006/11/30 18:49:26 elharo Exp \$
*/

Found in path(s):

* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/expr/DefaultVariableReferenceExpr.java

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/*

* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/NameStep.java,v 1.5 2006/11/08 17:10:02
elharo Exp \$

* \$Revision: 1.5 \$

* \$Date: 2006/11/08 17:10:02 \$

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* \$Id: NameStep.java,v 1.5 2006/11/08 17:10:02 elharo Exp \$

*/

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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/expr/NameStep.java

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/*

* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/util/PrecedingAxisIterator.java,v 1.11
2006/11/13 22:10:09 elharo Exp \$

* \$Revision: 1.11 \$

* \$Date: 2006/11/13 22:10:09 \$

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jar/org/jaxen/util/PrecedingAxisIterator.java

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* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultRelationalExpr.java,v 1.14
2006/02/05 21:47:40 elharo Exp \$

* \$Revision: 1.14 \$

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* \$Id: DefaultRelationalExpr.java,v 1.14 2006/02/05 21:47:40 elharo Exp \$
*/

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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/expr/DefaultRelationalExpr.java

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/*
* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/saxpath/XPathHandler.java,v 1.9 2006/02/05
21:47:42 elharo Exp \$
* \$Revision: 1.9 \$
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* \$Id: XPathHandler.java,v 1.9 2006/02/05 21:47:42 elharo Exp \$
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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/saxpath/XPathHandler.java

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/*

* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/ext/LowerFunction.java,v 1.11
2006/02/05 21:47:42 elharo Exp \$

* \$Revision: 1.11 \$

* \$Date: 2006/02/05 21:47:42 \$

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* \$Id: LowerFunction.java,v 1.11 2006/02/05 21:47:42 elharo Exp \$
*/

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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/function/ext/LowerFunction.java

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* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/SubstringFunction.java,v 1.16 2006/02/05 21:47:41 elharo Exp \$

* \$Revision: 1.16 \$

* \$Date: 2006/02/05 21:47:41 \$

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jar/org/jaxen/function/SubstringFunction.java
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* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/saxpath/helpers/XPathReaderFactory.java,v 1.9
2006/09/15 20:41:38 elharo Exp \$
* \$Revision: 1.9 \$
* \$Date: 2006/09/15 20:41:38 \$
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 *
 * \$Id: XPathReaderFactory.java,v 1.9 2006/09/15 20:41:38 elharo Exp \$
 */

Found in path(s):

* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
 jar/org/jaxen/saxpath/helpers/XPathReaderFactory.java

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

/*

* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/iter/IterableDescendantAxis.java,v 1.7
 2006/06/03 20:47:22 elharo Exp \$

* \$Revision: 1.7 \$

* \$Date: 2006/06/03 20:47:22 \$

*

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* $Id: IterableDescendantAxis.java,v 1.7 2006/06/03 20:47:22 elharo Exp $
*/

```

Found in path(s):

```

* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/expr/iter/IterableDescendantAxis.java

```

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/*

```

* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultEqualityExpr.java,v 1.14

```

2006/02/05 21:47:40 elharo Exp \$

* \$Revision: 1.14 \$

* \$Date: 2006/02/05 21:47:40 \$

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* \$Id: DefaultEqualityExpr.java,v 1.14 2006/02/05 21:47:40 elharo Exp \$

*/

Found in path(s):

* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-

jar/org/jaxen/expr/DefaultEqualityExpr.java

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```
/*
 * $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/CommentNodeStep.java,v 1.6 2006/11/08
 * 15:42:39 elharo Exp $
 * $Revision: 1.6 $
 * $Date: 2006/11/08 15:42:39 $
 *
 * =====
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 *

```

* \$Id: CommentNodeStep.java,v 1.6 2006/11/08 15:42:39 elharo Exp \$

*/

Found in path(s):

* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/expr/CommentNodeStep.java

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

/*

* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/pattern/LocationPathPattern.java,v 1.15 2006/02/05 21:47:42 elharo Exp \$

* \$Revision: 1.15 \$

* \$Date: 2006/02/05 21:47:42 \$

*

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*
* \$Id: LocationPathPattern.java,v 1.15 2006/02/05 21:47:42 elharo Exp \$
*/

Found in path(s):

* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/pattern/LocationPathPattern.java

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

/*

* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/pattern/PatternHandler.java,v 1.8 2006/02/05
21:47:42 elharo Exp \$

* \$Revision: 1.8 \$

* \$Date: 2006/02/05 21:47:42 \$

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* \$Id: PatternHandler.java,v 1.8 2006/02/05 21:47:42 elharo Exp \$

*/

Found in path(s):

* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/pattern/PatternHandler.java

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/*

* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/VariableContext.java,v 1.11 2006/07/03
11:58:31 elharo Exp \$

* \$Revision: 1.11 \$

* \$Date: 2006/07/03 11:58:31 \$

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* \$Id: VariableContext.java,v 1.11 2006/07/03 11:58:31 elharo Exp \$

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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/VariableContext.java

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/*

* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/util/DescendantOrSelfAxisIterator.java,v 1.11
2006/11/09 18:20:12 elharo Exp \$

* \$Revision: 1.11 \$

* \$Date: 2006/11/09 18:20:12 \$

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* \$Id: DescendantOrSelfAxisIterator.java,v 1.11 2006/11/09 18:20:12 elharo Exp \$
*/

Found in path(s):
* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/util/DescendantOrSelfAxisIterator.java
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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/saxpath/base/Verifier.java

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/*
* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/MultiplicativeExpr.java,v 1.6 2006/11/09
16:21:05 elharo Exp \$
* \$Revision: 1.6 \$
* \$Date: 2006/11/09 16:21:05 \$

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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/expr/MultiplicativeExpr.java

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/*

* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/BaseXPath.java,v 1.50 2007/04/16 15:44:37
elharo Exp \$

* \$Revision: 1.50 \$

* \$Date: 2007/04/16 15:44:37 \$

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* \$Id: BaseXPath.java,v 1.50 2007/04/16 15:44:37 elharo Exp \$

*/

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* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
 jar/org/jaxen/BaseXPath.java

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/*

* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/FilterExpr.java,v 1.10 2006/11/08
 16:28:04 elharo Exp \$

* \$Revision: 1.10 \$

* \$Date: 2006/11/08 16:28:04 \$

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* \$Id: FilterExpr.java,v 1.10 2006/11/08 16:28:04 elharo Exp \$

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 jar/org/jaxen/expr/FilterExpr.java

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/*

* \$Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/StartsWithFunction.java,v 1.11
 2006/02/05 21:47:41 elharo Exp \$

* \$Revision: 1.11 \$

* \$Date: 2006/02/05 21:47:41 \$

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*

* \$Id: StartsWithFunction.java,v 1.11 2006/02/05 21:47:41 elharo Exp \$

*/

Found in path(s):

* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/function/StartsWithFunction.java

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```
/*
 * $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/TranslateFunction.java,v 1.10
2006/02/05 21:47:41 elharo Exp $
 * $Revision: 1.10 $
 * $Date: 2006/02/05 21:47:41 $
 *
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 *
 * $Id: TranslateFunction.java,v 1.10 2006/02/05 21:47:41 elharo Exp $
```

*/

Found in path(s):

* /opt/cola/permits/1018361815_1612221797.15/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/function/TranslateFunction.java

1.144 file 5.04 30.el6

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1.145 libgcrypt 1.4.5 12.el6_8

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1.146 sysv-init 2.88

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- * A rewrite of the original Debian's start-stop-daemon Perl script
- * in C (faster - it is executed many times during system startup).
- *
- * Written by Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>,
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1.147 cxf-rt-security 2.7.14

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If you have Invariant Sections, Front-Cover Texts and Back-Cover Texts, replace the ``with@dots{ }Texts." line with this:

```
@smallexample
@group
  with the Invariant Sections being @var{list their titles}, with
  the Front-Cover Texts being @var{list}, and with the Back-Cover Texts
  being @var{list}.
@end group
@end smallexample
```

If you have Invariant Sections without Cover Texts, or some other combination of the three, merge those two alternatives to suit the situation.

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```
@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:
```

1.150 cxf-rt-ws-addr 2.7.14

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jar/org/springframework/aop/aspectj/AspectJExpressionPointcutAdvisor.java
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jar/org/springframework/aop/framework/autoprox/DefaultAdvisorAutoProxyCreator.java
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jar/org/springframework/aop/support/ExpressionPointcut.java
* /opt/cola/permits/1136652249_1613848609.52/0/spring-aop-3-0-7-release-sources-3-
jar/org/springframework/aop/AopInvocationException.java
* /opt/cola/permits/1136652249_1613848609.52/0/spring-aop-3-0-7-release-sources-3-
jar/org/springframework/aop/aspectj/AspectJPrecedenceInformation.java
* /opt/cola/permits/1136652249_1613848609.52/0/spring-aop-3-0-7-release-sources-3-
jar/org/springframework/aop/config/PointcutEntry.java
* /opt/cola/permits/1136652249_1613848609.52/0/spring-aop-3-0-7-release-sources-3-
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jar/org/springframework/aop/TrueClassFilter.java
* /opt/cola/permits/1136652249_1613848609.52/0/spring-aop-3-0-7-release-sources-3-
jar/org/springframework/aop/config/AdvisorEntry.java
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* /opt/cola/permits/1136652249_1613848609.52/0/spring-aop-3-0-7-release-sources-3-
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* /opt/cola/permits/1136652249_1613848609.52/0/spring-aop-3-0-7-release-sources-3-
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* /opt/cola/permits/1136652249_1613848609.52/0/spring-aop-3-0-7-release-sources-3-
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* /opt/cola/permits/1136652249_1613848609.52/0/spring-aop-3-0-7-release-sources-3-
jar/org/springframework/aop/aspectj/InstantiationModelAwarePointcutAdvisor.java
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jar/org/springframework/aop/interceptor/JamonPerformanceMonitorInterceptor.java
* /opt/cola/permits/1136652249_1613848609.52/0/spring-aop-3-0-7-release-sources-3-
jar/org/springframework/aop/TruePointcut.java
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jar/org/springframework/aop/aspectj/TypePatternClassFilter.java
* /opt/cola/permits/1136652249_1613848609.52/0/spring-aop-3-0-7-release-sources-3-
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jar/org/springframework/aop/support/AbstractExpressionPointcut.java
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jar/org/springframework/aop/TrueMethodMatcher.java
* /opt/cola/permits/1136652249_1613848609.52/0/spring-aop-3-0-7-release-sources-3-
jar/org/springframework/aop/target/dynamic/BeanFactoryRefreshableTargetSource.java
* /opt/cola/permits/1136652249_1613848609.52/0/spring-aop-3-0-7-release-sources-3-
jar/org/springframework/aop/framework/autoproxy/target/LazyInitTargetSourceCreator.java
* /opt/cola/permits/1136652249_1613848609.52/0/spring-aop-3-0-7-release-sources-3-
jar/org/springframework/aop/framework/autoproxy/target/QuickTargetSourceCreator.java
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* /opt/cola/permits/1136652249_1613848609.52/0/spring-aop-3-0-7-release-sources-3-jar/org/springframework/aop/target/AbstractPrototypeBasedTargetSource.java

* /opt/cola/permits/1136652249_1613848609.52/0/spring-aop-3-0-7-release-sources-3-jar/org/springframework/aop/framework/autoproxy/ProxyCreationContext.java

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* /opt/cola/permits/1136652249_1613848609.52/0/spring-aop-3-0-7-release-sources-3-jar/org/springframework/aop/aspectj/RuntimeTestWalker.java
* /opt/cola/permits/1136652249_1613848609.52/0/spring-aop-3-0-7-release-sources-3-jar/org/springframework/aop/target/SingletonTargetSource.java
* /opt/cola/permits/1136652249_1613848609.52/0/spring-aop-3-0-7-release-sources-3-jar/org/springframework/aop/scope/ScopedProxyUtils.java
* /opt/cola/permits/1136652249_1613848609.52/0/spring-aop-3-0-7-release-sources-3-jar/org/springframework/aop/interceptor/ExposeBeanNameAdvisors.java
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* /opt/cola/permits/1136652249_1613848609.52/0/spring-aop-3-0-7-release-sources-3-jar/org/springframework/aop/config/AopNamespaceUtils.java
* /opt/cola/permits/1136652249_1613848609.52/0/spring-aop-3-0-7-release-sources-3-jar/org/springframework/aop/aspectj/AbstractAspectJAdvice.java
* /opt/cola/permits/1136652249_1613848609.52/0/spring-aop-3-0-7-release-sources-3-jar/org/springframework/aop/support/AopUtils.java
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* /opt/cola/permits/1136652249_1613848609.52/0/spring-aop-3-0-7-release-sources-3-jar/org/springframework/aop/support/AbstractBeanFactoryPointcutAdvisor.java
* /opt/cola/permits/1136652249_1613848609.52/0/spring-aop-3-0-7-release-sources-3-jar/org/springframework/aop/aspectj/AspectJAfterReturningAdvice.java
* /opt/cola/permits/1136652249_1613848609.52/0/spring-aop-3-0-7-release-sources-3-jar/org/springframework/aop/target/HotSwappableTargetSource.java
* /opt/cola/permits/1136652249_1613848609.52/0/spring-aop-3-0-7-release-sources-3-jar/org/springframework/aop/framework/AopProxyUtils.java
* /opt/cola/permits/1136652249_1613848609.52/0/spring-aop-3-0-7-release-sources-3-jar/org/springframework/aop/target/AbstractLazyCreationTargetSource.java
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* /opt/cola/permits/1136652249_1613848609.52/0/spring-aop-3-0-7-release-sources-3-jar/org/springframework/aop/target/EmptyTargetSource.java
* /opt/cola/permits/1136652249_1613848609.52/0/spring-aop-3-0-7-release-sources-3-jar/org/springframework/aop/framework/AdvisedSupport.java
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* /opt/cola/permits/1136652249_1613848609.52/0/spring-aop-3-0-7-release-sources-3-jar/org/springframework/aop/target/dynamic/AbstractRefreshableTargetSource.java
* /opt/cola/permits/1136652249_1613848609.52/0/spring-aop-3-0-7-release-sources-3-jar/org/springframework/aop/framework/autoproxy/BeanNameAutoProxyCreator.java
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* /opt/cola/permits/1136652249_1613848609.52/0/spring-aop-3-0-7-release-sources-3-jar/org/springframework/aop/framework/JdkDynamicAopProxy.java
* /opt/cola/permits/1136652249_1613848609.52/0/spring-aop-3-0-7-release-sources-3-jar/org/springframework/aop/aspectj/AspectJExpressionPointcut.java
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* /opt/cola/permits/1136652249_1613848609.52/0/spring-aop-3-0-7-release-sources-3-jar/org/springframework/aop/target/LazyInitTargetSource.java
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* /opt/cola/permits/1136652249_1613848609.52/0/spring-aop-3-0-7-release-sources-3-jar/org/springframework/aop/Pointcut.java
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jar/org/springframework/aop/framework/adaptor/AdvisorAdapter.java
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* /opt/cola/permits/1136652249_1613848609.52/0/spring-aop-3-0-7-release-sources-3-
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* /opt/cola/permits/1136652249_1613848609.52/0/spring-aop-3-0-7-release-sources-3-
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* /opt/cola/permits/1136652249_1613848609.52/0/spring-aop-3-0-7-release-sources-3-jar/org/springframework/aop/aspectj/MethodInvocationProceedingJoinPoint.java
* /opt/cola/permits/1136652249_1613848609.52/0/spring-aop-3-0-7-release-sources-3-jar/org/springframework/aop/framework/ReflectiveMethodInvocation.java
* /opt/cola/permits/1136652249_1613848609.52/0/spring-aop-3-0-7-release-sources-3-jar/org/springframework/aop/aspectj/autoproxy/AspectJPrecedenceComparator.java
* /opt/cola/permits/1136652249_1613848609.52/0/spring-aop-3-0-7-release-sources-3-jar/org/springframework/aop/framework/ProxyFactory.java
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* /opt/cola/permits/1136652249_1613848609.52/0/spring-aop-3-0-7-release-sources-3-jar/org/springframework/aop/framework/ProxyCreatorSupport.java

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*/

Found in path(s):

* /opt/cola/permits/1136652249_1613848609.52/0/spring-aop-3-0-7-release-sources-3-jar/org/springframework/aop/support/DelegatePerTargetObjectIntroductionInterceptor.java

1.152 cxf-distribution-manifest 2.7.14

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1.153 ehcache 2.5.1

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Manifest-Version: 1.0
Archiver-Version: Plexus Archiver
Created-By: Apache Maven
Built-By: cruise
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Found in path(s):

* /opt/cola/permits/1001088603_1607090610.88/0/ehcache-core-2-5-1-jar/META-INF/MANIFEST.MF

1.154 jackson-dataformat-cbor 2.6.6

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```
* /opt/cola/permits/1257784349_1646392795.16/0/rngom-201103-0-0-redhat-4-jar-zip/rngom-201103-0-0-redhat-4-jar/org/kohsuke/rngom/parse/xml/Messages.properties
```

```
* /opt/cola/permits/1257784349_1646392795.16/0/rngom-201103-0-0-redhat-4-jar-zip/rngom-201103-0-0-redhat-4-
```

jar/org/kohsuke/rngom/parse/Messages.properties

* /opt/cola/permits/1257784349_1646392795.16/0/rngom-201103-0-0-redhat-4-jar-zip/rngom-201103-0-0-redhat-4-

jar/org/kohsuke/rngom/binary/Messages.properties

* /opt/cola/permits/1257784349_1646392795.16/0/rngom-201103-0-0-redhat-4-jar-zip/rngom-201103-0-0-redhat-4-

jar/org/kohsuke/rngom/parse/compact/Messages.properties

* /opt/cola/permits/1257784349_1646392795.16/0/rngom-201103-0-0-redhat-4-jar-zip/rngom-201103-0-0-redhat-4-

jar/org/kohsuke/rngom/dt/builtin/Messages.properties

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* /opt/cola/permits/1257784349_1646392795.16/0/rngom-201103-0-0-redhat-4-jar-zip/rngom-201103-0-0-redhat-4-jar/META-INF/maven/org.kohsuke.rngom/rngom/pom.xml

1.157 avahi 0.6.25 15.el6_8.1

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1.158 xorg-randr 1.5.1-1.el6

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1.159 cronie 1.4.4 16.el6_8.2

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1.160 icu 38

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1.161 slf4j-jdk14 1.7.7

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* /opt/cola/permits/1136687460_1613859274.03/0/slf4j-jdk14-1-7-7-sources-1-
jar/org/slf4j/impl/JDK14LoggerFactory.java
* /opt/cola/permits/1136687460_1613859274.03/0/slf4j-jdk14-1-7-7-sources-1-
jar/org/slf4j/impl/StaticMarkerBinder.java
* /opt/cola/permits/1136687460_1613859274.03/0/slf4j-jdk14-1-7-7-sources-1-
jar/org/slf4j/impl/StaticMDCBinder.java
```

* /opt/cola/permits/1136687460_1613859274.03/0/slf4j-jdk14-1-7-7-sources-1-jar/org/slf4j/impl/StaticLoggerBinder.java

1.162 woodstox-core-asl 4.4.1

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* /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-jar/com/ctc/wstx/stax/WstxEventFactory.java
* /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-jar/com/ctc/wstx/evt/DefaultEventAllocator.java
* /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-jar/com/ctc/wstx/io/AsciiReader.java
* /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-jar/com/ctc/wstx/io/EBCDICCodec.java
* /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-jar/com/ctc/wstx/io/UTF8Reader.java
* /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-jar/com/ctc/wstx/io/UTF32Reader.java
* /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-jar/com/ctc/wstx/exc/WstxException.java
* /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-jar/com/ctc/wstx/exc/WstxLazyException.java
* /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-jar/com/ctc/wstx/util/BaseNsContext.java
* /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-jar/com/ctc/wstx/dtd/PrefixNameSet.java
* /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-
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jar/com/ctc/wstx/io/WstxInputData.java
* /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-
jar/com/ctc/wstx/util/PrefixedName.java
* /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-
jar/com/ctc/wstx/evt/BaseStartElement.java
* /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-
jar/com/ctc/wstx/ent/EntityDecl.java
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* /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-
jar/com/ctc/wstx/dtd/DFAValidator.java
* /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-
jar/com/ctc/wstx/dtd/StructValidator.java
* /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-
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* /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-jar/com/ctc/wstx/sw/SimpleOutputElement.java

* /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-jar/com/ctc/wstx/util/BijectiveNsMap.java

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* /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-jar/com/ctc/wstx/sax/SAXProperty.java

* /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-jar/com/ctc/wstx/sax/WstxSAXParser.java

* /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-jar/com/ctc/wstx/sax/WrappedSaxException.java

* /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-jar/com/ctc/wstx/sax/SAXFeature.java

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- * /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-jar/com/ctc/wstx/dtd/FullDTDReader.java
- * /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-jar/com/ctc/wstx/sr/StreamScanner.java
- * /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-jar/com/ctc/wstx/sw/EncodingXmlWriter.java
- * /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-jar/com/ctc/wstx/sw/BaseStreamWriter.java
- * /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-jar/com/ctc/wstx/sw/XmlWriter.java
- * /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-jar/com/ctc/wstx/dtd/DTDValidator.java
- * /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-jar/com/ctc/wstx/dtd/MinimalDTDReader.java
- * /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-jar/com/ctc/wstx/dtd/DTDTypingNonValidator.java
- * /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-jar/com/ctc/wstx/sr/InputElementStack.java
- * /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-jar/com/ctc/wstx/sw/ISOLatin1XmlWriter.java
- * /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-jar/com/ctc/wstx/dtd/DTDEventListener.java
- * /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-jar/com/ctc/wstx/sr/NsDefaultProvider.java
- * /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-jar/com/ctc/wstx/sr/TypedStreamReader.java
- * /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-jar/com/ctc/wstx/sw/BufferingXmlWriter.java
- * /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-jar/com/ctc/wstx/io/ReaderBootstrapper.java
- * /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-jar/com/ctc/wstx/io/ISOLatinReader.java
- * /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-jar/com/ctc/wstx/sr/NsInputElementStack.java
- * /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-jar/com/ctc/wstx/dtd/DTDValidatorBase.java
- * /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-jar/com/ctc/wstx/sw/AsciiXmlWriter.java
- * /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-jar/com/ctc/wstx/sw/TypedStreamWriter.java

* /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-jar/com/ctc/wstx/io/WstxInputSource.java
* /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-jar/com/ctc/wstx/sw/XmlWriterWrapper.java
* /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-jar/com/ctc/wstx/dtd/DTDSubsetImpl.java
* /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-jar/com/ctc/wstx/sr/AttributeCollector.java

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* /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-jar/com/ctc/wstx/evt/WstxEventReader.java

* /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-jar/com/ctc/wstx/msv/AttributeProxy.java

* /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-jar/com/ctc/wstx/msv/BaseSchemaFactory.java

* /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-jar/com/ctc/wstx/util/ElementIdMap.java

* /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-jar/com/ctc/wstx/msv/RelaxNGSchema.java

* /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-jar/com/ctc/wstx/msv/RelaxNGSchemaFactory.java

* /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-jar/com/ctc/wstx/dtd/DTDSubset.java

* /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-jar/com/ctc/wstx/msv/W3CSchemaFactory.java

* /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-jar/com/ctc/wstx/util/SymbolTable.java

* /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-jar/com/ctc/wstx/sw/NonNsStreamWriter.java

* /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-jar/com/ctc/wstx/dtd/DTDElement.java
* /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-jar/com/ctc/wstx/dtd/DefaultAttrValue.java
* /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-jar/com/ctc/wstx/msv/GenericMsvValidator.java
* /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-jar/com/ctc/wstx/msv/W3CSchema.java
* /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-jar/com/ctc/wstx/sr/ValidatingStreamReader.java
* /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-jar/com/ctc/wstx/stax/WstxInputFactory.java
* /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-jar/com/ctc/wstx/dtd/DTDAtribute.java
* /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-jar/com/ctc/wstx/stax/WstxOutputFactory.java
* /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-jar/com/ctc/wstx/dtd/DTDIId.java

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- * /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-jar/com/ctc/wstx/sw/SimpleNsStreamWriter.java
- * /opt/cola/permits/1135936598_1613638434.54/0/woodstox-core-asl-4-0-11-sources-3-jar/com/ctc/wstx/sw/BaseNsStreamWriter.java

1.163 cxf-bundle 2.7.14

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1.164 gson 2.8.2

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* /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-
jar/com/google/gson/stream/MalformedJsonException.java
* /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/stream/JsonScope.java
* /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/stream/JsonToken.java
* /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/stream/JsonReader.java
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jar/com/google/gson/internal/\$Gson\$Types.java

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- * /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/internal/bind/ReflectiveTypeAdapterFactory.java
 - * /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/internal/bind/CollectionTypeAdapterFactory.java
 - * /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/internal/bind/MapTypeAdapterFactory.java
 - * /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/internal/bind/TypeAdapterRuntimeTypeWrapper.java
 - * /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/internal/bind/ObjectTypeAdapter.java
 - * /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/internal/bind/ArrayTypeAdapter.java
 - * /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/internal/bind/TypeAdapters.java
 - * /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/internal/JsonReaderInternalAccess.java
 - * /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/internal/bind/JsonTreeReader.java
 - * /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/TypeAdapterFactory.java
 - * /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/TypeAdapter.java
 - * /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/internal/bind/JsonTreeWriter.java
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* /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/GsonBuilder.java
* /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/JsonPrimitive.java
* /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/JsonArray.java
* /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/DefaultDateTypeAdapter.java
* /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/internal/Excluder.java
* /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/reflect/TypeToken.java
* /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/JsonNull.java
* /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/FieldNamingPolicy.java
* /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/annotations/Since.java
* /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/JsonDeserializationContext.java
* /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/annotations/Until.java
* /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/internal/ObjectConstructor.java
* /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/FieldNamingStrategy.java
* /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/Gson.java
* /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/InstanceCreator.java
* /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/ExclusionStrategy.java
* /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/annotations/Expose.java
* /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/JsonParseException.java
* /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/JsonDeserializer.java
* /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/JsonSerializationContext.java
* /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/JsonElement.java
* /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/annotations/SerializedName.java
* /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/JsonIOException.java
* /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/JsonObject.java
* /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/JsonSerializer.java
* /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/internal/Primitives.java
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* /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-
jar/com/google/gson/internal/LazilyParsedNumber.java
* /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-
jar/com/google/gson/internal/UnsafeAllocator.java
* /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-
jar/com/google/gson/internal/bind/TreeTypeAdapter.java
* /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-
jar/com/google/gson/internal/ConstructorConstructor.java
* /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-
jar/com/google/gson/internal/bind/DateTypeAdapter.java
* /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-
jar/com/google/gson/internal/bind/SqlDateTypeAdapter.java
* /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-
jar/com/google/gson/internal/bind/TimeTypeAdapter.java
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* /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-
jar/com/google/gson/JsonSyntaxException.java
* /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/internal/Streams.java
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* /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/LongSerializationPolicy.java
* /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/JsonStreamParser.java
* /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/FieldAttributes.java
* /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/JsonParser.java
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* /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/internal/bind/JsonAdapterAnnotationTypeAdapterFactory.java
* /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/annotations/JsonAdapter.java

1.165 commons-collections 3.2.2

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1.166 tomcat-util-scan 9.0.56

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1.170 struts2-junit-plugin 2.5.26

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```

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```
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```

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```
# canonicalize-lgpl.m4 serial 5
dnl Copyright (C) 2003, 2006-2007, 2009 Free Software Foundation, Inc.
dnl This file is free software; the Free Software Foundation
dnl gives unlimited permission to copy and/or distribute it,
dnl with or without modifications, as long as this notice is preserved.
```

```
AC_DEFUN([gl_CANONICALIZE_LGPL],
[
dnl Do this replacement check manually because the file name is shorter
dnl than the function name.
AC_CHECK_DECLS_ONCE([canonicalize_file_name])
AC_CHECK_FUNCS_ONCE([canonicalize_file_name])
if test $ac_cv_func_canonicalize_file_name = no; then
AC_LIBOBJ([canonicalize-lgpl])
AC_DEFINE([realpath], [rpl_realpath],
[Define to a replacement function name for realpath().])
```

```

gl_PREREQ_CANONICALIZE_LGPL
fi
)

# Like gl_CANONICALIZE_LGPL, except prepare for separate compilation
# (no AC_LIBOBJ).
AC_DEFUN([gl_CANONICALIZE_LGPL_SEPARATE],
[
AC_CHECK_DECLS_ONCE([canonicalize_file_name])
AC_CHECK_FUNCS_ONCE([canonicalize_file_name])
gl_PREREQ_CANONICALIZE_LGPL
])

# Prerequisites of lib/canonicalize-1gpl.c.
AC_DEFUN([gl_PREREQ_CANONICALIZE_LGPL],
[
AC_CHECK_HEADERS_ONCE([sys/param.h unistd.h])
AC_CHECK_FUNCS_ONCE([getcwd readlink])
])

```

1.173 cxf-xjc-runtime 3.0.2

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1.177 axiom 1.2.12

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1.178 axiom-dom 1.2.13

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* /opt/cola/permits/1135907460_1613628459.33/0/asm-7-3-1-sources-2-jar/org/objectweb/asm/signature/SignatureReader.java
* /opt/cola/permits/1135907460_1613628459.33/0/asm-7-3-1-sources-2-jar/org/objectweb/asm/Context.java
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* /opt/cola/permits/1135907460_1613628459.33/0/asm-7-3-1-sources-2-jar/org/objectweb/asm/signature/package.html

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1.181 tar 1.23 15.el6_8

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1.183 cxf-rt-databinding-xmlbeans 2.7.14

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1.184 openam-audit-core 14.0.0-M6

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1.185 commons-validator 1.1.3

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1.189 polkit 0.96-11.el6_10.1

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<div class="appendix" title="AppendixA.License">

<div class="titlepage"><div><div><h2 class="title">

AppendixA.License</h2></div></div></div>

<p>

</p>

<pre class="programlisting">

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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That's all there is to it!

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Generated by GTK-Doc V1.13</div>
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</body>
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</html>
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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must

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1.190 xml-commons-resolver 1.2

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1.194 cxf-rt-rs-security-oauth2 2.7.14

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```

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```
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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

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The End

1.201 cxf-rt-frontend-jaxrs 2.7.14

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```
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```

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```
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```

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```
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```

```
<signature of Ty Coon>, 1 April 1989  
Ty Coon, President of Vice
```

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Ty Coon, President of Vice

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To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
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Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if

necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

That's all there is to it!

1.203 spring-context 3.0.7.RELEASE

1.203.1 Available under license :

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

```
/*
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 * limitations under the License.
 */
```

Found in path(s):

```
* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-
jar/org/springframework/validation/BindingResult.java
* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-
jar/org/springframework/scheduling/annotation/AsyncResult.java
* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-
jar/org/springframework/remoting/support/SimpleHttpServerFactoryBean.java
* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-
jar/org/springframework/scheduling/concurrent/ScheduledExecutorTask.java
* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-
jar/org/springframework/context/event/SmartApplicationListener.java
* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-
jar/org/springframework/context/annotation/AnnotationBeanNameGenerator.java
* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-
jar/org/springframework/context/annotation/DependsOn.java
* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-
```

jar/org/springframework/context/support/GenericXmlApplicationContext.java
* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-
jar/org/springframework/ui/ModelMap.java
* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-
jar/org/springframework/jmx/export/annotation/AnnotationJmxAttributeSource.java
* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-
jar/org/springframework/context/LifecycleProcessor.java
* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-
jar/org/springframework/jndi/support/SimpleJndiBeanFactory.java
* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-
jar/org/springframework/ui/Model.java
* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-
jar/org/springframework/context/event/GenericApplicationListenerAdapter.java
* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-
jar/org/springframework/scheduling/timer/TimerFactoryBean.java
* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-
jar/org/springframework/ejb/interceptor/SpringBeanAutowiringInterceptor.java
* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-
jar/org/springframework/scheduling/support/DelegatingErrorHandlingRunnable.java
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* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-
jar/org/springframework/context/access/ContextJndiBeanFactoryLocator.java
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jar/org/springframework/scheduling/Trigger.java
* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-
jar/org/springframework/context/ConfigurableApplicationContext.java
* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-
jar/org/springframework/instrument/classloading/glassfish/GlassFishLoadTimeWeaver.java
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jar/org/springframework/context/support/ReadOnlySystemAttributesMap.java
* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-
jar/org/springframework/scheduling/timer/ScheduledTimerTask.java
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jar/org/springframework/context/weaving/AspectJWeavingEnabler.java
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jar/org/springframework/jmx/export/naming/MetadataNamingStrategy.java
* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-
jar/org/springframework/context/annotation/ClassPathBeanDefinitionScanner.java
* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-
jar/org/springframework/context/annotation/AnnotatedBeanDefinitionReader.java
* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-
jar/org/springframework/scheduling/TriggerContext.java
* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-
jar/org/springframework/jmx/support/MBeanServerFactoryBean.java
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jar/org/springframework/context/annotation/AnnotationConfigUtils.java
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jar/org/springframework/scheduling/config/SchedulerBeanDefinitionParser.java
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jar/org/springframework/scheduling/concurrent/ThreadPoolExecutorFactoryBean.java
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* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-jar/org/springframework/jmx/export/UnableToRegisterMBeanException.java
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- * /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-jar/org/springframework/remoting/support/DefaultRemoteInvocationExecutor.java
- * /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-jar/org/springframework/jmx/export/metadata/AbstractJmxAttribute.java
- * /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-jar/org/springframework/context/annotation/ScopeMetadataResolver.java
- * /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-jar/org/springframework/instrument/classloading/SimpleLoadTimeWeaver.java
- * /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-jar/org/springframework/ui/context/Theme.java
- * /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-jar/org/springframework/remoting/support/RemoteInvocationResult.java
- * /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-jar/org/springframework/ejb/config/JndiLookupBeanDefinitionParser.java
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jar/org/springframework/scheduling/backportconcurrent/CustomizableThreadFactory.java
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* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-
jar/org/springframework/context/config/PropertyOverrideBeanDefinitionParser.java
* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-
jar/org/springframework/ejb/access/LocalSlsbInvokerInterceptor.java
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* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-jar/org/springframework/jmx/export/annotation/ManagedOperationParameter.java
* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-jar/org/springframework/jmx/export/metadata/ManagedOperation.java
* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-jar/org/springframework/jmx/export/asmbler/SimpleReflectiveMBeanInfoAsmbler.java
* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-jar/org/springframework/context/i18n/LocaleContext.java
* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-jar/org/springframework/context/ApplicationEventPublisher.java
* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-jar/org/springframework/jmx/export/metadata/JmxMetadataUtils.java
* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-jar/org/springframework/jmx/export/naming/SelfNaming.java
* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-jar/org/springframework/jmx/export/annotation/ManagedAttribute.java
* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-jar/org/springframework/ui/context/support/DelegatingThemeSource.java
* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-jar/org/springframework/jmx/export/annotation/ManagedOperationParameters.java
* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-jar/org/springframework/jmx/export/naming/ObjectNamingStrategy.java
* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-jar/org/springframework/jmx/export/asmbler/MBeanInfoAsmbler.java
* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-jar/org/springframework/validation/MessageCodesResolver.java
* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-jar/org/springframework/context/ApplicationEventPublisherAware.java
* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-jar/org/springframework/jmx/export/annotation/ManagedOperation.java
* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-jar/org/springframework/context/MessageSourceAware.java

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```

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/**
* {@link FactoryBean} that obtains a WebSphere {@link javax.management.MBeanServer}
* reference through WebSphere's proprietary <code>AdminServiceFactory</code> API,
* available on WebSphere 5.1 and higher.
*
* <p>Exposes the <code>MBeanServer</code> for bean references.
* This FactoryBean is a direct alternative to {@link MBeanServerFactoryBean},
* which uses standard JMX 1.2 API to access the platform's MBeanServer.
*
* @author Juergen Hoeller
* @author Rob Harrop
* @since 2.0.3
* @see com.ibm.websphere.management.AdminServiceFactory#getMBeanFactory()
* @see com.ibm.websphere.management.MBeanFactory#getMBeanServer()
* @see javax.management.MBeanServer
* @see MBeanServerFactoryBean
*/

```

Found in path(s):

```

* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-
jar/org/springframework/jmx/support/WebSphereMBeanServerFactoryBean.java

```

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```

* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-
jar/org/springframework/context/access/DefaultLocatorFactory.java
* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-
jar/org/springframework/context/support/MessageSourceAccessor.java
* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-

```

jar/org/springframework/ui/context/HierarchicalThemeSource.java
* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-
jar/org/springframework/context/HierarchicalMessageSource.java
* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-
jar/org/springframework/context/access/ContextBeanFactoryReference.java
* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-
jar/org/springframework/context/NoSuchMessageException.java
* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-
jar/org/springframework/jndi/JndiTemplateEditor.java
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jar/org/springframework/context/support/AbstractApplicationContext.java
* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-
jar/org/springframework/scheduling/TaskScheduler.java
* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-
jar/org/springframework/jmx/support/MBeanServerConnectionFactoryBean.java
* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-
jar/org/springframework/context/event/AbstractApplicationEventMulticaster.java
* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-
jar/org/springframework/jmx/export/assembly/AbstractReflectiveMBeanInfoAssembler.java
* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-
jar/org/springframework/context/expression/StandardBeanExpressionResolver.java
* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-
jar/org/springframework/context/support/DefaultLifecycleProcessor.java
* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-
jar/org/springframework/jndi/JndiObjectTargetSource.java
* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-
jar/org/springframework/context/annotation/AnnotationConfigApplicationContext.java
* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-
jar/org/springframework/jndi/JndiObjectLocator.java

* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-jar/org/springframework/format/number/NumberFormatAnnotationFormatterFactory.java

* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-jar/org/springframework/context/support/AbstractMessageSource.java

* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-jar/org/springframework/scheduling/support/CronSequenceGenerator.java

* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-jar/org/springframework/context/MessageSourceResolvable.java

* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-jar/org/springframework/context/expression/MapAccessor.java

* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-jar/org/springframework/jmx/export/assembly/AutodetectCapableMBeanInfoAssembler.java

* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-jar/org/springframework/format/number/NumberFormatter.java

* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-jar/org/springframework/scheduling/config/AnnotationDrivenBeanDefinitionParser.java

* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-jar/org/springframework/format/number/PercentFormatter.java

* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-jar/org/springframework/jndi/JndiObjectFactoryBean.java

* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-jar/org/springframework/context/expression/BeanExpressionContextAccessor.java

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* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-jar/org/springframework/validation/beanvalidation/CustomValidatorBean.java

* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-jar/org/springframework/context/support/ConversionServiceFactoryBean.java

* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-jar/org/springframework/validation/beanvalidation/LocaleContextMessageInterpolator.java

* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-jar/org/springframework/validation/beanvalidation/MessageSourceResourceBundleLocator.java

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* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-jar/org/springframework/format/datetime/joda/JodaTimeContextHolder.java

* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-jar/org/springframework/validation/beanvalidation/LocalValidatorFactoryBean.java

* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-jar/org/springframework/scheduling/support/CronTrigger.java

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* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-jar/org/springframework/context/support/ClassPathXmlApplicationContext.java

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* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-jar/org/springframework/context/expression/BeanFactoryResolver.java

* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-jar/org/springframework/context/support/MessageSourceSupport.java

* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-jar/org/springframework/context/EmbeddedValueResolverAware.java

* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-jar/org/springframework/jmx/access/MBeanClientInterceptor.java

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* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-jar/org/springframework/jndi/JndiLocatorSupport.java

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* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-jar/org/springframework/context/annotation/ConfigurationClassBeanDefinitionReader.java

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* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-jar/org/springframework/jmx/export/ assembler/AbstractMBeanInfoAssembler.java

* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-jar/org/springframework/scheduling/config/TaskExecutorFactoryBean.java

* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-jar/org/springframework/context/annotation/ConfigurationClassParser.java

* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-jar/org/springframework/jndi/JndiLocatorDelegate.java

* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-jar/org/springframework/scheduling/annotation/AsyncAnnotationBeanPostProcessor.java

* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-jar/org/springframework/context/support/StaticMessageSource.java

* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-jar/org/springframework/format/datetime/joda/JodaDateTimeFormatAnnotationFormatterFactory.java

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jar/org/springframework/instrument/classloading/oc4j/OC4JClassPreprocessorAdapter.java
* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-
jar/org/springframework/instrument/classloading/oc4j/OC4JClassLoaderAdapter.java
* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-
jar/org/springframework/instrument/classloading/jboss/JBossTranslatorAdapter.java
* /opt/cola/permits/1136652810_1613848827.4/0/spring-context-3-0-7-release-sources-3-
jar/org/springframework/instrument/classloading/jboss/JBossClassLoaderAdapter.java
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We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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1.208 spring-tx 3.0.7.RELEASE

1.208.1 Available under license :

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```

Found in path(s):

```
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-
jar/org/springframework/transaction/jta/JtaTransactionObject.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-
jar/org/springframework/transaction/support/TransactionOperations.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-
jar/org/springframework/dao/support/DataAccessUtils.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-
jar/org/springframework/transaction/support/SmartTransactionObject.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-
jar/org/springframework/jca/cci/connection/ConnectionFactoryUtils.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-
jar/org/springframework/jca/support/LocalConnectionFactoryBean.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-
jar/org/springframework/transaction/config/AnnotationDrivenBeanDefinitionParser.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-
jar/org/springframework/transaction/config/TxAdviceBeanDefinitionParser.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-
```

jar/org/springframework/transaction/config/TxNamespaceHandler.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-
jar/org/springframework/transaction/support/TransactionSynchronization.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-
jar/org/springframework/transaction/jta/TransactionFactory.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-
jar/org/springframework/transaction/interceptor/TransactionAttribute.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-
jar/org/springframework/transaction/interceptor/TransactionProxyFactoryBean.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-
jar/org/springframework/jca/context/ResourceAdapterApplicationContext.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-
jar/org/springframework/transaction/support/TransactionSynchronizationUtils.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-
jar/org/springframework/transaction/TransactionStatus.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-
jar/org/springframework/transaction/annotation/Propagation.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-
jar/org/springframework/transaction/support/TransactionSynchronizationAdapter.java
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* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-
jar/org/springframework/transaction/support/DelegatingTransactionDefinition.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-
jar/org/springframework/transaction/support/TransactionCallbackWithoutResult.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-
jar/org/springframework/transaction/jta/JtaAfterCompletionSynchronization.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-
jar/org/springframework/transaction/support/CallbackPreferringPlatformTransactionManager.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-
jar/org/springframework/transaction/annotation/Isolation.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-
jar/org/springframework/transaction/support/AbstractTransactionStatus.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-
jar/org/springframework/transaction/support/TransactionCallback.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-
jar/org/springframework/jca/work/SimpleTaskWorkManager.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-
jar/org/springframework/jca/endpoint/GenericMessageEndpointManager.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-
jar/org/springframework/transaction/support/SimpleTransactionStatus.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-
jar/org/springframework/transaction/annotation/SpringTransactionAnnotationParser.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-

jar/org/springframework/jca/support/ResourceAdapterFactoryBean.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-
jar/org/springframework/jca/work/WorkManagerTaskExecutor.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-
jar/org/springframework/transaction/interceptor/DelegatingTransactionAttribute.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-
jar/org/springframework/dao/DuplicateKeyException.java
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* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-
jar/org/springframework/jca/cci/core/RecordCreator.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-
jar/org/springframework/jca/cci/object/MappingCommAreaOperation.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-
jar/org/springframework/jca/cci/core/support/CommAreaRecord.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-
jar/org/springframework/jca/cci/InvalidResultSetAccessException.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-
jar/org/springframework/jca/cci/connection/ConnectionHolder.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-
jar/org/springframework/jca/cci/object/MappingRecordOperation.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-
jar/org/springframework/jca/cci/CannotGetCciConnectionException.java
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* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-jar/org/springframework/jca/work/DelegatingWork.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-jar/org/springframework/jca/context/BootstrapContextAwareProcessor.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-jar/org/springframework/jca/context/BootstrapContextAware.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-jar/org/springframework/jca/cci/connection/CciLocalTransactionManager.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-jar/org/springframework/jca/support/SimpleBootstrapContext.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-jar/org/springframework/jca/endpoint/GenericMessageEndpointFactory.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-jar/org/springframework/transaction/annotation/TransactionAnnotationParser.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-jar/org/springframework/transaction/TransactionSystemException.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-jar/org/springframework/transaction/support/ResourceTransactionManager.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-jar/org/springframework/jca/cci/connection/DelegatingConnectionFactory.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-jar/org/springframework/transaction/interceptor/RollbackRuleAttribute.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-jar/org/springframework/dao/annotation/PersistenceExceptionTranslationAdvisor.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-jar/org/springframework/transaction/jta/SpringJtaSynchronizationAdapter.java
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- * /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-jar/org/springframework/dao/TransientDataAccessResourceException.java
- * /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-jar/org/springframework/jca/cci/connection/TransactionAwareConnectionFactoryProxy.java
- * /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-jar/org/springframework/transaction/PlatformTransactionManager.java
- * /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-jar/org/springframework/jca/cci/connection/SingleConnectionFactory.java
- * /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-jar/org/springframework/jca/cci/core/CciOperations.java
- * /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-jar/org/springframework/transaction/support/ResourceHolderSupport.java
- * /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-jar/org/springframework/jca/cci/core/ConnectionCallback.java
- * /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-jar/org/springframework/jca/cci/core/CciTemplate.java
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- * /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-jar/org/springframework/dao/support/ChainedPersistenceExceptionTranslator.java
- * /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-jar/org/springframework/transaction/interceptor/BeanFactoryTransactionAttributeSourceAdvisor.java
- * /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-jar/org/springframework/dao/RecoverableDataAccessException.java
- * /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-jar/org/springframework/dao/TransientDataAccessException.java
- * /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-jar/org/springframework/jca/cci/core/RecordExtractor.java
- * /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-jar/org/springframework/jca/cci/core/support/CciDaoSupport.java
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* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-jar/org/springframework/transaction/interceptor/AbstractFallbackTransactionAttributeSource.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-jar/org/springframework/transaction/jta/ManagedTransactionAdapter.java
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* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-jar/org/springframework/jca/work/jboss/JBossWorkManagerUtils.java
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* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-jar/org/springframework/transaction/annotation/AnnotationTransactionAttributeSource.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-jar/org/springframework/transaction/interceptor/TransactionInterceptor.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-jar/org/springframework/dao/support/PersistenceExceptionTranslationInterceptor.java
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* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-
jar/org/springframework/transaction/interceptor/RuleBasedTransactionAttribute.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-
jar/org/springframework/jca/work/glassfish/GlassFishWorkManagerTaskExecutor.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-
jar/org/springframework/transaction/interceptor/NameMatchTransactionAttributeSource.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-
jar/org/springframework/transaction/jta/UserTransactionAdapter.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-
jar/org/springframework/transaction/TransactionDefinition.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-
jar/org/springframework/transaction/annotation/Transactional.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-
jar/org/springframework/transaction/interceptor/CompositeTransactionAttributeSource.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-
jar/org/springframework/transaction/interceptor/MatchAlwaysTransactionAttributeSource.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-
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- * /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-jar/org/springframework/transaction/UnexpectedRollbackException.java
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- * /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-jar/org/springframework/dao/DeadlockLoserDataAccessException.java
- * /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-jar/org/springframework/dao/InvalidDataAccessResourceUsageException.java
- * /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-jar/org/springframework/dao/support/PersistenceExceptionTranslator.java
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- * /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-jar/org/springframework/transaction/TransactionUsageException.java
- * /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-jar/org/springframework/transaction/NestedTransactionNotSupportedException.java
- * /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-jar/org/springframework/transaction/InvalidTimeoutException.java
- * /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-jar/org/springframework/dao/CannotSerializeTransactionException.java
- * /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-jar/org/springframework/dao/support/DaoSupport.java
- * /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-jar/org/springframework/dao/IncorrectUpdateSemanticsDataAccessException.java
- * /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-jar/org/springframework/transaction/TransactionSuspensionNotSupportedException.java
- * /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-jar/org/springframework/dao/OptimisticLockingFailureException.java
- * /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-jar/org/springframework/dao/PessimisticLockingFailureException.java
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* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-jar/org/springframework/transaction/IllegalTransactionStateException.java
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* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-jar/org/springframework/dao/DataAccessException.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-jar/org/springframework/dao/DataRetrievalFailureException.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-jar/org/springframework/dao/InvalidDataAccessApiUsageException.java
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* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-jar/org/springframework/transaction/interceptor/TransactionAttributeEditor.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-jar/org/springframework/dao/UncategorizedDataAccessException.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-jar/org/springframework/dao/EmptyResultDataAccessException.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-jar/org/springframework/transaction/HeuristicCompletionException.java
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* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-

jar/org/springframework/jca/cci/RecordTypeNotSupportedException.java
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jar/org/springframework/transaction/SavepointManager.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-
jar/org/springframework/jca/cci/connection/NotSupportedRecordFactory.java
* /opt/cola/permits/1111238332_1607425379.04/0/spring-tx-3-0-7-release-sources-2-
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1.210 jackson-xc 1.9.2

1.210.1 Available under license :

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1.211 libjpeg 1.2.1-3.el6_5

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```
/*
 * jcapimin.c
 *
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 * Modified 2003-2010 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains application interface code for the compression half
 * of the JPEG library.  These are the "minimum" API routines that may be
 * needed in either the normal full-compression case or the transcoding-only
 * case.
 *
 * Most of the routines intended to be called directly by an application
 * are in this file or in jcapistd.c.  But also see jcparam.c for
 * parameter-setup helper routines, jcomapi.c for routines shared by
 * compression and decompression, and jctrans.c for the transcoding case.
 */
```

Found in path(s):

```
*/opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jcapimin.c
```

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```
/*
 * rdgif.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
```

```

* This file contains routines to read input images in GIF format.
*
*****
* NOTE: to avoid entanglements with Unisys' patent on LZW compression, *
* the ability to read GIF files has been removed from the IJG distribution. *
* Sorry about that. *
*****
*
* We are required to state that
* "The Graphics Interchange Format(c) is the Copyright property of
* CompuServe Incorporated. GIF(sm) is a Service Mark property of
* CompuServe Incorporated."
*/

```

Found in path(s):

```

* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/rdgif.c
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```

```

/*
* jdapimin.c
*
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*
* This file contains application interface code for the decompression half
* of the JPEG library. These are the "minimum" API routines that may be
* needed in either the normal full-decompression case or the
* transcoding-only case.
*
* Most of the routines intended to be called directly by an application
* are in this file or in jdapistd.c. But also see jcomapi.c for routines
* shared by compression and decompression, and jdtrans.c for the transcoding
* case.
*/

```

Found in path(s):

```

* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jdapimin.c
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```

```

/*
* jidctflt.c
*
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```

```
*
* This file contains a floating-point implementation of the
* inverse DCT (Discrete Cosine Transform). In the IJG code, this routine
* must also perform dequantization of the input coefficients.
*
* This implementation should be more accurate than either of the integer
* IDCT implementations. However, it may not give the same results on all
* machines because of differences in roundoff behavior. Speed will depend
* on the hardware's floating point capacity.
*
* A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT
* on each row (or vice versa, but it's more convenient to emit a row at
* a time). Direct algorithms are also available, but they are much more
* complex and seem not to be any faster when reduced to code.
*
* This implementation is based on Arai, Agui, and Nakajima's algorithm for
* scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
* Japanese, but the algorithm is described in the Pennebaker & Mitchell
* JPEG textbook (see REFERENCES section in file README). The following code
* is based directly on figure 4-8 in P&M.
* While an 8-point DCT cannot be done in less than 11 multiplies, it is
* possible to arrange the computation so that many of the multiplies are
* simple scalings of the final outputs. These multiplies can then be
* folded into the multiplications or divisions by the JPEG quantization
* table entries. The AA&N method leaves only 5 multiplies and 29 adds
* to be done in the DCT itself.
* The primary disadvantage of this method is that with a fixed-point
* implementation, accuracy is lost due to imprecise representation of the
* scaled quantization values. However, that problem does not arise if
* we use floating point arithmetic.
*/
```

Found in path(s):

```
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jidctflt.c
```

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

```
/*
```

```
* jversion.h
```

```
*
```

```
* Copyright (C) 1991-2018, Thomas G. Lane, Guido Vollbeding.
```

```
* This file is part of the Independent JPEG Group's software.
```

```
* For conditions of distribution and use, see the accompanying README file.
```

```
*
```

```
* This file contains software version identification.
```

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jversion.h
```

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```
/*
 * jerror.h
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * Modified 1997-2012 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
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 *
 * This file defines the error and message codes for the JPEG library.
 * Edit this file to add new codes, or to translate the message strings to
 * some other language.
 * A set of error-reporting macros are defined too. Some applications using
 * the JPEG library may wish to include this file to get the error codes
 * and/or the macros.
 */
```

Found in path(s):

```
*/opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jerror.h
```

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```
/*
 * jccoefct.c
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * Modified 2003-2011 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the coefficient buffer controller for compression.
 * This controller is the top level of the JPEG compressor proper.
 * The coefficient buffer lies between forward-DCT and entropy encoding steps.
 */
```

Found in path(s):

```
*/opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jccoefct.c
```

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```
/*
 * jmemdos.c
 *
 * Copyright (C) 1992-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file provides an MS-DOS-compatible implementation of the system-
 * dependent portion of the JPEG memory manager. Temporary data can be
```


* stored in extended or expanded memory as well as in regular DOS files.
*
* If you use this file, you must be sure that NEED_FAR_POINTERS is defined
* if you compile in a small-data memory model; it should NOT be defined if
* you use a large-data memory model. This file is not recommended if you
* are using a flat-memory-space 386 environment such as DJGCC or Watcom C.
* Also, this code will NOT work if struct fields are aligned on greater than
* 2-byte boundaries.
*
* Based on code contributed by Ge' Weijers.
*/

Found in path(s):

*/opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jmemdos.c
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/*
* jcmarker.c
*
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*
* This file contains routines to write JPEG datastream markers.
*/

Found in path(s):

*/opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jcmarker.c
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/*
* jdsample.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* Modified 2002-2015 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
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*
* This file contains upsampling routines.
*
* Upsampling input data is counted in "row groups". A row group
* is defined to be (v_samp_factor * DCT_v_scaled_size / min_DCT_v_scaled_size)
* sample rows of each component. Upsampling will normally produce
* max_v_samp_factor pixel rows from each row group (but this could vary
* if the upsampler is applying a scale factor of its own).
*
* An excellent reference for image resampling is

- * Digital Image Warping, George Wolberg, 1990.
- * Pub. by IEEE Computer Society Press, Los Alamitos, CA. ISBN 0-8186-8944-7.
- */

Found in path(s):

* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jdsample.c
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/*

* cdjpeg.h

*

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*

* This file contains common declarations for the sample applications

* cjpeg and djpeg. It is NOT used by the core JPEG library.

*/

Found in path(s):

* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/cdjpeg.h
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/*

* rdtarga.c

*

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*

* This file contains routines to read input images in Targa format.

*

* These routines may need modification for non-Unix environments or

* specialized applications. As they stand, they assume input from

* an ordinary stdio stream. They further assume that reading begins

* at the start of the file; start_input may need work if the

* user interface has already read some data (e.g., to determine that

* the file is indeed Targa format).

*

* Based on code contributed by Lee Daniel Crocker.

*/

Found in path(s):

* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/rdtarga.c
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/*

```
* jidctfst.c
*
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* Modified 2015-2017 by Guido Vollbeding.
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*
* This file contains a fast, not so accurate integer implementation of the
* inverse DCT (Discrete Cosine Transform). In the IJG code, this routine
* must also perform dequantization of the input coefficients.
*
* A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT
* on each row (or vice versa, but it's more convenient to emit a row at
* a time). Direct algorithms are also available, but they are much more
* complex and seem not to be any faster when reduced to code.
*
* This implementation is based on Arai, Agui, and Nakajima's algorithm for
* scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
* Japanese, but the algorithm is described in the Pennebaker & Mitchell
* JPEG textbook (see REFERENCES section in file README). The following code
* is based directly on figure 4-8 in P&M.
* While an 8-point DCT cannot be done in less than 11 multiplies, it is
* possible to arrange the computation so that many of the multiplies are
* simple scalings of the final outputs. These multiplies can then be
* folded into the multiplications or divisions by the JPEG quantization
* table entries. The AA&N method leaves only 5 multiplies and 29 adds
* to be done in the DCT itself.
* The primary disadvantage of this method is that with fixed-point math,
* accuracy is lost due to imprecise representation of the scaled
* quantization values. The smaller the quantization table entry, the less
* precise the scaled value, so this implementation does worse with high-
* quality-setting files than with low-quality ones.
*/
```

Found in path(s):

```
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jidctfst.c
```

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```
/*
```

```
* jinclude.h
```

```
*
```

```
* Copyright (C) 1991-1994, Thomas G. Lane.
```

```
* Modified 2017 by Guido Vollbeding.
```

```
* This file is part of the Independent JPEG Group's software.
```

```
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```

```
*
```

```
* This file exists to provide a single place to fix any problems with
```

```
* including the wrong system include files. (Common problems are taken
```

* care of by the standard jconfig symbols, but on really weird systems
* you may have to edit this file.)
*
* NOTE: this file is NOT intended to be included by applications using the
* JPEG library. Most applications need only include jpeglib.h.
*/

Found in path(s):

* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jinclude.h
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/*

* rdrle.c

*

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*

* This file contains routines to read input images in Utah RLE format.

* The Utah Raster Toolkit library is required (version 3.1 or later).

*

* These routines may need modification for non-Unix environments or

* specialized applications. As they stand, they assume input from

* an ordinary stdio stream. They further assume that reading begins

* at the start of the file; start_input may need work if the

* user interface has already read some data (e.g., to determine that

* the file is indeed RLE format).

*

* Based on code contributed by Mike Lijewski,

* with updates from Robert Hutchinson.

*/

Found in path(s):

* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/rdrle.c
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/*

* jmemmgr.c

*

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* Modified 2011-2012 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains the JPEG system-independent memory management

* routines. This code is usable across a wide variety of machines; most

* of the system dependencies have been isolated in a separate file.

* The major functions provided here are:

```
* * pool-based allocation and freeing of memory;
* * policy decisions about how to divide available memory among the
*   virtual arrays;
* * control logic for swapping virtual arrays between main memory and
*   backing storage.
* The separate system-dependent file provides the actual backing-storage
* access code, and it contains the policy decision about how much total
* main memory to use.
* This file is system-dependent in the sense that some of its functions
* are unnecessary in some systems. For example, if there is enough virtual
* memory so that backing storage will never be used, much of the virtual
* array control logic could be removed. (Of course, if you have that much
* memory then you shouldn't care about a little bit of unused code...)
*/
```

Found in path(s):

```
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jmemmgr.c
```

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

```
/*
* jerror.c
*
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* Modified 2012-2015 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains simple error-reporting and trace-message routines.
* These are suitable for Unix-like systems and others where writing to
* stderr is the right thing to do. Many applications will want to replace
* some or all of these routines.
*
* If you define USE_WINDOWS_MESSAGEBOX in jconfig.h or in the makefile,
* you get a Windows-specific hack to display error messages in a dialog box.
* It ain't much, but it beats dropping error messages into the bit bucket,
* which is what happens to output to stderr under most Windows C compilers.
*
* These routines are used by both the compression and decompression code.
*/
```

Found in path(s):

```
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jerror.c
```

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

```
/*
* jcinit.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
```

* Modified 2003-2017 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains initialization logic for the JPEG compressor.
* This routine is in charge of selecting the modules to be executed and
* making an initialization call to each one.
*
* Logically, this code belongs in jcmaster.c. It's split out because
* linking this routine implies linking the entire compression library.
* For a transcoding-only application, we want to be able to use jcmaster.c
* without linking in the whole library.
*/

Found in path(s):

* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jcinit.c
No license file was found, but licenses were detected in source scan.

/*

* jpeglib.h

*

* Copyright (C) 1991-1998, Thomas G. Lane.
* Modified 2002-2017 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file defines the application interface for the JPEG library.
* Most applications using the library need only include this file,
* and perhaps jerror.h if they want to know the exact error codes.
*/

Found in path(s):

* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jpeglib.h
No license file was found, but licenses were detected in source scan.

/*

* jpegtran.c

*

* Copyright (C) 1995-2013, Thomas G. Lane, Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains a command-line user interface for JPEG transcoding.
* It is very similar to cjpeg.c, and partly to djpeg.c, but provides
* lossless transcoding between different JPEG file formats. It also
* provides some lossless and sort-of-lossless transformations of JPEG data.
*/

Found in path(s):

* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jpegtran.c

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

/*

* jaricom.c

*

* Developed 1997-2011 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains probability estimation tables for common use in

* arithmetic entropy encoding and decoding routines.

*

* This data represents Table D.3 in the JPEG spec (D.2 in the draft),

* ISO/IEC IS 10918-1 and CCITT Recommendation ITU-T T.81, and Table 24

* in the JBIG spec, ISO/IEC IS 11544 and CCITT Recommendation ITU-T T.82.

*/

Found in path(s):

* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jaricom.c

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

/*

* jdatasrc.c

*

* Copyright (C) 1994-1996, Thomas G. Lane.

* Modified 2009-2015 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains decompression data source routines for the case of

* reading JPEG data from memory or from a file (or any stdio stream).

* While these routines are sufficient for most applications,

* some will want to use a different source manager.

* IMPORTANT: we assume that fread() will correctly transcribe an array of

* JOCTETs from 8-bit-wide elements on external storage. If char is wider

* than 8 bits on your machine, you may need to do some tweaking.

*/

Found in path(s):

* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jdatasrc.c

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

/*

* wrtarga.c

*

* Copyright (C) 1991-1996, Thomas G. Lane.

* Modified 2015-2017 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to write output images in Targa format.
*
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume output to
* an ordinary stdio stream.
*
* Based on code contributed by Lee Daniel Crocker.
*/

Found in path(s):

* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/wrtarga.c

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

/*

* jccolor.c

*

* Copyright (C) 1991-1996, Thomas G. Lane.

* Modified 2011-2013 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains input colorspace conversion routines.

*/

Found in path(s):

* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jccolor.c

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

/*

* jdapistd.c

*

* Copyright (C) 1994-1996, Thomas G. Lane.

* Modified 2002-2013 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains application interface code for the decompression half

* of the JPEG library. These are the "standard" API routines that are

* used in the normal full-decompression case. They are not used by a

* transcoding-only application. Note that if an application links in

* jpeg_start_decompress, it will end up linking in the entire decompressor.

* We thus must separate this file from jdapimin.c to avoid linking the

* whole decompression library into a transcoder.

*/

Found in path(s):

* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jdapistd.c

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

/*

* jcsample.c

*

* Copyright (C) 1991-1996, Thomas G. Lane.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains downsampling routines.

*

* Downsampling input data is counted in "row groups". A row group

* is defined to be max_v_samp_factor pixel rows of each component,

* from which the downsampler produces v_samp_factor sample rows.

* A single row group is processed in each call to the downsampler module.

*

* The downsampler is responsible for edge-expansion of its output data

* to fill an integral number of DCT blocks horizontally. The source buffer

* may be modified if it is helpful for this purpose (the source buffer is

* allocated wide enough to correspond to the desired output width).

* The caller (the prep controller) is responsible for vertical padding.

*

* The downsampler may request "context rows" by setting need_context_rows

* during startup. In this case, the input arrays will contain at least

* one row group's worth of pixels above and below the passed-in data;

* the caller will create dummy rows at image top and bottom by replicating

* the first or last real pixel row.

*

* An excellent reference for image resampling is

* Digital Image Warping, George Wolberg, 1990.

* Pub. by IEEE Computer Society Press, Los Alamitos, CA. ISBN 0-8186-8944-7.

*

* The downsampling algorithm used here is a simple average of the source

* pixels covered by the output pixel. The hi-falutin sampling literature

* refers to this as a "box filter". In general the characteristics of a box

* filter are not very good, but for the specific cases we normally use (1:1

* and 2:1 ratios) the box is equivalent to a "triangle filter" which is not

* nearly so bad. If you intend to use other sampling ratios, you'd be well

* advised to improve this code.

*

* A simple input-smoothing capability is provided. This is mainly intended

* for cleaning up color-dithered GIF input files (if you find it inadequate,

* we suggest using an external filtering program such as pnmconvol). When

* enabled, each input pixel P is replaced by a weighted sum of itself and its

* eight neighbors. P's weight is 1-8*SF and each neighbor's weight is SF,

* where SF = (smoothing_factor / 1024).
* Currently, smoothing is only supported for 2h2v sampling factors.
*/

Found in path(s):

*/opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jcsample.c
No license file was found, but licenses were detected in source scan.

/*

* wrgif.c

*

* Copyright (C) 1991-1997, Thomas G. Lane.

* Modified 2015-2017 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains routines to write output images in GIF format.

*

* NOTE: to avoid entanglements with Unisys' patent on LZW compression, *

* this code has been modified to output "uncompressed GIF" files. *

* There is no trace of the LZW algorithm in this file. *

*

* These routines may need modification for non-Unix environments or

* specialized applications. As they stand, they assume output to

* an ordinary stdio stream.

*/

/*

* This code is loosely based on ppmtogif from the PBMPLUS distribution

* of Feb. 1991. That file contains the following copyright notice:

* Based on GIFENCODER by David Rowley <mgardi@watdscu.waterloo.edu>.

* Lempel-Ziv compression based on "compress" by Spencer W. Thomas et al.

* Copyright (C) 1989 by Jef Poskanzer.

* Permission to use, copy, modify, and distribute this software and its

* documentation for any purpose and without fee is hereby granted, provided

* that the above copyright notice appear in all copies and that both that

* copyright notice and this permission notice appear in supporting

* documentation. This software is provided "as is" without express or

* implied warranty.

*

* We are also required to state that

* "The Graphics Interchange Format(c) is the Copyright property of

* CompuServe Incorporated. GIF(sm) is a Service Mark property of

* CompuServe Incorporated."

*/

Found in path(s):

* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/wrgif.c

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

/*

* ckconfig.c

*

* Copyright (C) 1991-1994, Thomas G. Lane.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*/

Found in path(s):

* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/ckconfig.c

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

/*

* jcprepct.c

*

* Copyright (C) 1994-1996, Thomas G. Lane.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains the compression preprocessing controller.

* This controller manages the color conversion, downsampling,

* and edge expansion steps.

*

* Most of the complexity here is associated with buffering input rows

* as required by the downsampler. See the comments at the head of

* jcsample.c for the downsampler's needs.

*/

Found in path(s):

* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jcprepct.c

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

IJG JPEG LIBRARY: CODING RULES

Copyright (C) 1991-1996, Thomas G. Lane.

This file is part of the Independent JPEG Group's software.

For conditions of distribution and use, see the accompanying README file.

Since numerous people will be contributing code and bug fixes, it's important to establish a common coding style. The goal of using similar coding styles is much more important than the details of just what that style is.

In general we follow the recommendations of "Recommended C Style and Coding Standards" revision 6.1 (Cannon et al. as modified by Spencer, Keppel and

Brader). This document is available in the IJG FTP archive (see `jpeg/doc/cstyle.ms.tbl.Z`, or `cstyle.txt.Z` for those without `nroff/tbl`).

Block comments should be laid out thusly:

```
/*  
* Block comments in this style.  
*/
```

We indent statements in K&R style, e.g.,

```
if (test) {  
    then-part;  
} else {  
    else-part;  
}
```

with two spaces per indentation level. (This indentation convention is handled automatically by GNU Emacs and many other text editors.)

Multi-word names should be written in lower case with underscores, e.g., `multi_word_name` (not `multiWordName`). Preprocessor symbols and enum constants are similar but upper case (`MULTI_WORD_NAME`). Names should be unique within the first fifteen characters. (On some older systems, global names must be unique within six characters. We accommodate this without cluttering the source code by using macros to substitute shorter names.)

We use function prototypes everywhere; we rely on automatic source code transformation to feed prototype-less C compilers. Transformation is done by the simple and portable tool `'ansi2knr.c'` (courtesy of Ghostscript). `ansi2knr` is not very bright, so it imposes a format requirement on function declarations: the function name **MUST BEGIN IN COLUMN 1**. Thus all functions should be written in the following style:

```
LOCAL(int *)  
function_name (int a, char *b)  
{  
    code...  
}
```

Note that each function definition must begin with `GLOBAL(type)`, `LOCAL(type)`, or `METHODDEF(type)`. These macros expand to "static type" or just "type" as appropriate. They provide a readable indication of the routine's usage and can readily be changed for special needs. (For instance, special linkage keywords can be inserted for use in Windows DLLs.)

`ansi2knr` does not transform method declarations (function pointers in structs). We handle these with a macro `JMETHOD`, defined as

```
#ifdef HAVE_PROTOTYPES  
#define JMETHOD(type,methodname,arglist) type (*methodname) arglist
```

```
#else
#define JMETHOD(type,methodname,arglist) type (*methodname) ()
#endif
which is used like this:
struct function_pointers {
    JMETHOD(void, init_entropy_encoder, (int somearg, jparms *jp));
    JMETHOD(void, term_entropy_encoder, (void));
};
```

Note the set of parentheses surrounding the parameter list.

A similar solution is used for forward and external function declarations (see the EXTERN and JPP macros).

If the code is to work on non-ANSI compilers, we cannot rely on a prototype declaration to coerce actual parameters into the right types. Therefore, use explicit casts on actual parameters whenever the actual parameter type is not identical to the formal parameter. Beware of implicit conversions to "int".

It seems there are some non-ANSI compilers in which the sizeof() operator is defined to return int, yet size_t is defined as long. Needless to say, this is brain-damaged. Always use the SIZEOF() macro in place of sizeof(), so that the result is guaranteed to be of type size_t.

The JPEG library is intended to be used within larger programs. Furthermore, we want it to be reentrant so that it can be used by applications that process multiple images concurrently. The following rules support these requirements:

1. Avoid direct use of file I/O, "malloc", error report printouts, etc; pass these through the common routines provided.
2. Minimize global namespace pollution. Functions should be declared static wherever possible. (Note that our method-based calling conventions help this a lot: in many modules only the initialization function will ever need to be called directly, so only that function need be externally visible.) All global function names should begin with "jpeg_", and should have an abbreviated name (unique in the first six characters) substituted by macro when NEED_SHORT_EXTERNAL_NAMES is set.
3. Don't use global variables; anything that must be used in another module should be in the common data structures.
4. Don't use static variables except for read-only constant tables. Variables that should be private to a module can be placed into private structures (see the system architecture document, structure.txt).
5. Source file names should begin with "j" for files that are part of the library proper; source files that are not part of the library, such as cjpeg.c

and jpeg.c, do not begin with "j". Keep source file names to eight characters (plus ".c" or ".h", etc) to make life easy for MS-DOSers. Keep compression and decompression code in separate source files --- some applications may want only one half of the library.

Note: these rules (particularly #4) are not followed religiously in the modules that are used in cjpeg/djpeg but are not part of the JPEG library proper. Those modules are not really intended to be used in other applications.

Found in path(s):

* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/coderules.txt
No license file was found, but licenses were detected in source scan.

```
/*
 * jquant2.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * Modified 2011 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains 2-pass color quantization (color mapping) routines.
 * These routines provide selection of a custom color map for an image,
 * followed by mapping of the image to that color map, with optional
 * Floyd-Steinberg dithering.
 * It is also possible to use just the second pass to map to an arbitrary
 * externally-given color map.
 *
 * Note: ordered dithering is not supported, since there isn't any fast
 * way to compute intercolor distances; it's unclear that ordered dither's
 * fundamental assumptions even hold with an irregularly spaced color map.
 */
```

Found in path(s):

* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jquant2.c
No license file was found, but licenses were detected in source scan.

```
/*
 * wrppm.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * Modified 2009-2017 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to write output images in PPM/PGM format.
 * The extended 2-byte-per-sample raw PPM/PGM formats are supported.
```

* The PBMPLUS library is NOT required to compile this software
* (but it is highly useful as a set of PPM image manipulation programs).
*
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume output to
* an ordinary stdio stream.
*/

Found in path(s):

* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/wrppm.c

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

/*

* jddctmgr.c

*

* Copyright (C) 1994-1996, Thomas G. Lane.

* Modified 2002-2013 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains the inverse-DCT management logic.

* This code selects a particular IDCT implementation to be used,

* and it performs related housekeeping chores. No code in this file

* is executed per IDCT step, only during output pass setup.

*

* Note that the IDCT routines are responsible for performing coefficient

* dequantization as well as the IDCT proper. This module sets up the

* dequantization multiplier table needed by the IDCT routine.

*/

Found in path(s):

* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jddctmgr.c

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

/*

* rdjpgcom.c

*

* Copyright (C) 1994-1997, Thomas G. Lane.

* Modified 2009 by Bill Allombert, Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains a very simple stand-alone application that displays

* the text in COM (comment) markers in a JFIF file.

* This may be useful as an example of the minimum logic needed to parse

* JPEG markers.

*/

Found in path(s):

* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/rdjpgcom.c

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

/*

* cdjpeg.c

*

* Copyright (C) 1991-1997, Thomas G. Lane.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains common support routines used by the IJG application

* programs (cjpeg, djpeg, jpegtran).

*/

Found in path(s):

* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/cdjpeg.c

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

/*

* jdarith.c

*

* Developed 1997-2015 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains portable arithmetic entropy decoding routines for JPEG

* (implementing the ISO/IEC IS 10918-1 and CCITT Recommendation ITU-T T.81).

*

* Both sequential and progressive modes are supported in this single module.

*

* Suspension is not currently supported in this module.

*/

Found in path(s):

* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jdarith.c

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

/*

* djpeg.c

*

* Copyright (C) 1991-1997, Thomas G. Lane.

* Modified 2009-2015 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains a command-line user interface for the JPEG decompressor.

* It should work on any system with Unix- or MS-DOS-style command lines.

*
* Two different command line styles are permitted, depending on the
* compile-time switch TWO_FILE_COMMANDLINE:
* djpeg [options] inputfile outputfile
* djpeg [options] [inputfile]
* In the second style, output is always to standard output, which you'd
* normally redirect to a file or pipe to some other program. Input is
* either from a named file or from standard input (typically redirected).
* The second style is convenient on Unix but is unhelpful on systems that
* don't support pipes. Also, you MUST use the first style if your system
* doesn't do binary I/O to stdin/stdout.
* To simplify script writing, the "-outfile" switch is provided. The syntax
* djpeg [options] -outfile outputfile inputfile
* works regardless of which command line style is used.
*/

Found in path(s):

* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/djpeg.c

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

USING THE IJG JPEG LIBRARY

Copyright (C) 1994-2013, Thomas G. Lane, Guido Vollbeding.

This file is part of the Independent JPEG Group's software.

For conditions of distribution and use, see the accompanying README file.

This file describes how to use the IJG JPEG library within an application program. Read it if you want to write a program that uses the library.

The file example.c provides heavily commented skeleton code for calling the JPEG library. Also see jpeglib.h (the include file to be used by application programs) for full details about data structures and function parameter lists. The library source code, of course, is the ultimate reference.

Note that there have been *major* changes from the application interface presented by IJG version 4 and earlier versions. The old design had several inherent limitations, and it had accumulated a lot of cruft as we added features while trying to minimize application-interface changes. We have sacrificed backward compatibility in the version 5 rewrite, but we think the improvements justify this.

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You should read at least the overview and basic usage sections before trying to program with the library. The sections on advanced features can be read if and when you need them.

OVERVIEW

=====

Functions provided by the library

The IJG JPEG library provides C code to read and write JPEG-compressed image files. The surrounding application program receives or supplies image data a scanline at a time, using a straightforward uncompressed image format. All details of color conversion and other preprocessing/postprocessing can be handled by the library.

The library includes a substantial amount of code that is not covered by the JPEG standard but is necessary for typical applications of JPEG. These functions preprocess the image before JPEG compression or postprocess it after decompression. They include colorspace conversion, downsampling/upsampling, and color quantization. The application indirectly selects use of this code

by specifying the format in which it wishes to supply or receive image data. For example, if colormapped output is requested, then the decompression library automatically invokes color quantization.

A wide range of quality vs. speed tradeoffs are possible in JPEG processing, and even more so in decompression postprocessing. The decompression library provides multiple implementations that cover most of the useful tradeoffs, ranging from very-high-quality down to fast-preview operation. On the compression side we have generally not provided low-quality choices, since compression is normally less time-critical. It should be understood that the low-quality modes may not meet the JPEG standard's accuracy requirements; nonetheless, they are useful for viewers.

A word about functions **not** provided by the library. We handle a subset of the ISO JPEG standard; most baseline, extended-sequential, and progressive JPEG processes are supported. (Our subset includes all features now in common use.) Unsupported ISO options include:

- * Hierarchical storage
- * Lossless JPEG
- * DNL marker
- * Nonintegral subsampling ratios

We support 8-bit to 12-bit data precision, but this is a compile-time choice rather than a run-time choice; hence it is difficult to use different precisions in a single application.

By itself, the library handles only interchange JPEG datastreams --- in particular the widely used JFIF file format. The library can be used by surrounding code to process interchange or abbreviated JPEG datastreams that are embedded in more complex file formats. (For example, this library is used by the free LIBTIFF library to support JPEG compression in TIFF.)

Outline of typical usage

The rough outline of a JPEG compression operation is:

```
Allocate and initialize a JPEG compression object
Specify the destination for the compressed data (eg, a file)
Set parameters for compression, including image size & colorspace
jpeg_start_compress(...);
while (scan lines remain to be written)
    jpeg_write_scanlines(...);
jpeg_finish_compress(...);
Release the JPEG compression object
```

A JPEG compression object holds parameters and working state for the JPEG library. We make creation/destruction of the object separate from starting

or finishing compression of an image; the same object can be re-used for a series of image compression operations. This makes it easy to re-use the same parameter settings for a sequence of images. Re-use of a JPEG object also has important implications for processing abbreviated JPEG datastreams, as discussed later.

The image data to be compressed is supplied to `jpeg_write_scanlines()` from in-memory buffers. If the application is doing file-to-file compression, reading image data from the source file is the application's responsibility. The library emits compressed data by calling a "data destination manager", which typically will write the data into a file; but the application can provide its own destination manager to do something else.

Similarly, the rough outline of a JPEG decompression operation is:

```
Allocate and initialize a JPEG decompression object
Specify the source of the compressed data (eg, a file)
Call jpeg_read_header() to obtain image info
Set parameters for decompression
jpeg_start_decompress(...);
while (scan lines remain to be read)
    jpeg_read_scanlines(...);
jpeg_finish_decompress(...);
Release the JPEG decompression object
```

This is comparable to the compression outline except that reading the datastream header is a separate step. This is helpful because information about the image's size, colorspace, etc is available when the application selects decompression parameters. For example, the application can choose an output scaling ratio that will fit the image into the available screen size.

The decompression library obtains compressed data by calling a data source manager, which typically will read the data from a file; but other behaviors can be obtained with a custom source manager. Decompressed data is delivered into in-memory buffers passed to `jpeg_read_scanlines()`.

It is possible to abort an incomplete compression or decompression operation by calling `jpeg_abort()`; or, if you do not need to retain the JPEG object, simply release it by calling `jpeg_destroy()`.

JPEG compression and decompression objects are two separate struct types. However, they share some common fields, and certain routines such as `jpeg_destroy()` can work on either type of object.

The JPEG library has no static variables: all state is in the compression or decompression object. Therefore it is possible to process multiple compression and decompression operations concurrently, using multiple JPEG objects.

Both compression and decompression can be done in an incremental memory-to-memory fashion, if suitable source/destination managers are used. See the section on "I/O suspension" for more details.

BASIC LIBRARY USAGE

=====

Data formats

Before diving into procedural details, it is helpful to understand the image data format that the JPEG library expects or returns.

The standard input image format is a rectangular array of pixels, with each pixel having the same number of "component" or "sample" values (color channels). You must specify how many components there are and the colorspace interpretation of the components. Most applications will use RGB data (three components per pixel) or grayscale data (one component per pixel). PLEASE NOTE THAT RGB DATA IS THREE SAMPLES PER PIXEL, GRAYSCALE ONLY ONE. A remarkable number of people manage to miss this, only to find that their programs don't work with grayscale JPEG files.

There is no provision for colormapped input. JPEG files are always full-color or full grayscale (or sometimes another colorspace such as CMYK). You can feed in a colormapped image by expanding it to full-color format. However JPEG often doesn't work very well with source data that has been colormapped, because of dithering noise. This is discussed in more detail in the JPEG FAQ and the other references mentioned in the README file.

Pixels are stored by scanlines, with each scanline running from left to right. The component values for each pixel are adjacent in the row; for example, R,G,B,R,G,B,R,G,B,... for 24-bit RGB color. Each scanline is an array of data type JSAMPLE --- which is typically "unsigned char", unless you've changed jmorecfg.h. (You can also change the RGB pixel layout, say to B,G,R order, by modifying jmorecfg.h. But see the restrictions listed in that file before doing so.)

A 2-D array of pixels is formed by making a list of pointers to the starts of scanlines; so the scanlines need not be physically adjacent in memory. Even if you process just one scanline at a time, you must make a one-element pointer array to conform to this structure. Pointers to JSAMPLE rows are of type JSAMPROW, and the pointer to the pointer array is of type JSAMPARRAY.

The library accepts or supplies one or more complete scanlines per call. It is not possible to process part of a row at a time. Scanlines are always processed top-to-bottom. You can process an entire image in one call if you

have it all in memory, but usually it's simplest to process one scanline at a time.

For best results, source data values should have the precision specified by `BITS_IN_JSAMPLE` (normally 8 bits). For instance, if you choose to compress data that's only 6 bits/channel, you should left-justify each value in a byte before passing it to the compressor. If you need to compress data that has more than 8 bits/channel, compile with `BITS_IN_JSAMPLE = 9` to 12. (See "Library compile-time options", later.)

The data format returned by the decompressor is the same in all details, except that colormapped output is supported. (Again, a JPEG file is never colormapped. But you can ask the decompressor to perform on-the-fly color quantization to deliver colormapped output.) If you request colormapped output then the returned data array contains a single `JSAMPLE` per pixel; its value is an index into a color map. The color map is represented as a 2-D `JSAMPARRAY` in which each row holds the values of one color component, that is, `colormap[i][j]` is the value of the *i*'th color component for pixel value (map index) *j*. Note that since the colormap indexes are stored in `JSAMPLE`s, the maximum number of colors is limited by the size of `JSAMPLE` (ie, at most 256 colors for an 8-bit JPEG library).

Compression details

Here we revisit the JPEG compression outline given in the overview.

1. Allocate and initialize a JPEG compression object.

A JPEG compression object is a "struct `jpeg_compress_struct`". (It also has a bunch of subsidiary structures which are allocated via `malloc()`, but the application doesn't control those directly.) This struct can be just a local variable in the calling routine, if a single routine is going to execute the whole JPEG compression sequence. Otherwise it can be static or allocated from `malloc()`.

You will also need a structure representing a JPEG error handler. The part of this that the library cares about is a "struct `jpeg_error_mgr`". If you are providing your own error handler, you'll typically want to embed the `jpeg_error_mgr` struct in a larger structure; this is discussed later under "Error handling". For now we'll assume you are just using the default error handler. The default error handler will print JPEG error/warning messages on `stderr`, and it will call `exit()` if a fatal error occurs.

You must initialize the error handler structure, store a pointer to it into the JPEG object's "err" field, and then call `jpeg_create_compress()` to

initialize the rest of the JPEG object.

Typical code for this step, if you are using the default error handler, is

```
struct jpeg_compress_struct cinfo;
struct jpeg_error_mgr jerr;
...
cinfo.err = jpeg_std_error(&jerr);
jpeg_create_compress(&cinfo);
```

`jpeg_create_compress` allocates a small amount of memory, so it could fail if you are out of memory. In that case it will exit via the error handler; that's why the error handler must be initialized first.

2. Specify the destination for the compressed data (eg, a file).

As previously mentioned, the JPEG library delivers compressed data to a "data destination" module. The library includes one data destination module which knows how to write to a stdio stream. You can use your own destination module if you want to do something else, as discussed later.

If you use the standard destination module, you must open the target stdio stream beforehand. Typical code for this step looks like:

```
FILE * outfile;
...
if ((outfile = fopen(filename, "wb")) == NULL) {
    fprintf(stderr, "can't open %s\n", filename);
    exit(1);
}
jpeg_stdio_dest(&cinfo, outfile);
```

where the last line invokes the standard destination module.

WARNING: it is critical that the binary compressed data be delivered to the output file unchanged. On non-Unix systems the stdio library may perform newline translation or otherwise corrupt binary data. To suppress this behavior, you may need to use a "b" option to `fopen` (as shown above), or use `setmode()` or another routine to put the stdio stream in binary mode. See `cjpeg.c` and `djpeg.c` for code that has been found to work on many systems.

You can select the data destination after setting other parameters (step 3), if that's more convenient. You may not change the destination between calling `jpeg_start_compress()` and `jpeg_finish_compress()`.

3. Set parameters for compression, including image size & colorspace.

You must supply information about the source image by setting the following fields in the JPEG object (cinfo structure):

image_width Width of image, in pixels
image_height Height of image, in pixels
input_components Number of color channels (samples per pixel)
in_color_space Color space of source image

The image dimensions are, hopefully, obvious. JPEG supports image dimensions of 1 to 64K pixels in either direction. The input color space is typically RGB or grayscale, and input_components is 3 or 1 accordingly. (See "Special color spaces", later, for more info.) The in_color_space field must be assigned one of the J_COLOR_SPACE enum constants, typically JCS_RGB or JCS_GRAYSCALE.

JPEG has a large number of compression parameters that determine how the image is encoded. Most applications don't need or want to know about all these parameters. You can set all the parameters to reasonable defaults by calling jpeg_set_defaults(); then, if there are particular values you want to change, you can do so after that. The "Compression parameter selection" section tells about all the parameters.

You must set in_color_space correctly before calling jpeg_set_defaults(), because the defaults depend on the source image colorspace. However the other three source image parameters need not be valid until you call jpeg_start_compress(). There's no harm in calling jpeg_set_defaults() more than once, if that happens to be convenient.

Typical code for a 24-bit RGB source image is

```
cinfo.image_width = Width; /* image width and height, in pixels */  
cinfo.image_height = Height;  
cinfo.input_components = 3; /* # of color components per pixel */  
cinfo.in_color_space = JCS_RGB; /* colorspace of input image */
```

```
jpeg_set_defaults(&cinfo);  
/* Make optional parameter settings here */
```

4. jpeg_start_compress(...);

After you have established the data destination and set all the necessary source image info and other parameters, call jpeg_start_compress() to begin a compression cycle. This will initialize internal state, allocate working storage, and emit the first few bytes of the JPEG datastream header.

Typical code:


```
jpeg_start_compress(&cinfo, TRUE);
```

The "TRUE" parameter ensures that a complete JPEG interchange datastream will be written. This is appropriate in most cases. If you think you might want to use an abbreviated datastream, read the section on abbreviated datastreams, below.

Once you have called `jpeg_start_compress()`, you may not alter any JPEG parameters or other fields of the JPEG object until you have completed the compression cycle.

```
5. while (scan lines remain to be written)
   jpeg_write_scanlines(...);
```

Now write all the required image data by calling `jpeg_write_scanlines()` one or more times. You can pass one or more scanlines in each call, up to the total image height. In most applications it is convenient to pass just one or a few scanlines at a time. The expected format for the passed data is discussed under "Data formats", above.

Image data should be written in top-to-bottom scanline order. The JPEG spec contains some weasel wording about how top and bottom are application-defined terms (a curious interpretation of the English language...) but if you want your files to be compatible with everyone else's, you WILL use top-to-bottom order. If the source data must be read in bottom-to-top order, you can use the JPEG library's virtual array mechanism to invert the data efficiently. Examples of this can be found in the sample application `cjpeg`.

The library maintains a count of the number of scanlines written so far in the `next_scanline` field of the JPEG object. Usually you can just use this variable as the loop counter, so that the loop test looks like "while (`cinfo.next_scanline < cinfo.image_height`)".

Code for this step depends heavily on the way that you store the source data. `example.c` shows the following code for the case of a full-size 2-D source array containing 3-byte RGB pixels:

```
JSAMPROW row_pointer[1]; /* pointer to a single row */
int row_stride; /* physical row width in buffer */

row_stride = image_width * 3; /* JSAMPLEs per row in image_buffer */

while (cinfo.next_scanline < cinfo.image_height) {
    row_pointer[0] = &image_buffer[cinfo.next_scanline * row_stride];
    jpeg_write_scanlines(&cinfo, row_pointer, 1);
}
```

`jpeg_write_scanlines()` returns the number of scanlines actually written. This will normally be equal to the number passed in, so you can usually ignore the return value. It is different in just two cases:

- * If you try to write more scanlines than the declared image height, the additional scanlines are ignored.
- * If you use a suspending data destination manager, output buffer overrun will cause the compressor to return before accepting all the passed lines. This feature is discussed under "I/O suspension", below. The normal stdio destination manager will NOT cause this to happen.

In any case, the return value is the same as the change in the value of `next_scanline`.

6. `jpeg_finish_compress(...)`;

After all the image data has been written, call `jpeg_finish_compress()` to complete the compression cycle. This step is ESSENTIAL to ensure that the last bufferload of data is written to the data destination.

`jpeg_finish_compress()` also releases working memory associated with the JPEG object.

Typical code:

```
jpeg_finish_compress(&cinfo);
```

If using the stdio destination manager, don't forget to close the output stdio stream (if necessary) afterwards.

If you have requested a multi-pass operating mode, such as Huffman code optimization, `jpeg_finish_compress()` will perform the additional passes using data buffered by the first pass. In this case `jpeg_finish_compress()` may take quite a while to complete. With the default compression parameters, this will not happen.

It is an error to call `jpeg_finish_compress()` before writing the necessary total number of scanlines. If you wish to abort compression, call `jpeg_abort()` as discussed below.

After completing a compression cycle, you may dispose of the JPEG object as discussed next, or you may use it to compress another image. In that case return to step 2, 3, or 4 as appropriate. If you do not change the destination manager, the new datastream will be written to the same target. If you do not change any JPEG parameters, the new datastream will be written with the same parameters as before. Note that you can change the input image dimensions freely between cycles, but if you change the input colorspace, you should call `jpeg_set_defaults()` to adjust for the new colorspace; and then you'll need to repeat all of step 3.

7. Release the JPEG compression object.

When you are done with a JPEG compression object, destroy it by calling `jpeg_destroy_compress()`. This will free all subsidiary memory (regardless of the previous state of the object). Or you can call `jpeg_destroy()`, which works for either compression or decompression objects --- this may be more convenient if you are sharing code between compression and decompression cases. (Actually, these routines are equivalent except for the declared type of the passed pointer. To avoid gripes from ANSI C compilers, `jpeg_destroy()` should be passed a `j_common_ptr`.)

If you allocated the `jpeg_compress_struct` structure from `malloc()`, freeing it is your responsibility --- `jpeg_destroy()` won't. Ditto for the error handler structure.

Typical code:

```
jpeg_destroy_compress(&cinfo);
```

8. Aborting.

If you decide to abort a compression cycle before finishing, you can clean up in either of two ways:

* If you don't need the JPEG object any more, just call `jpeg_destroy_compress()` or `jpeg_destroy()` to release memory. This is legitimate at any point after calling `jpeg_create_compress()` --- in fact, it's safe even if `jpeg_create_compress()` fails.

* If you want to re-use the JPEG object, call `jpeg_abort_compress()`, or call `jpeg_abort()` which works on both compression and decompression objects. This will return the object to an idle state, releasing any working memory. `jpeg_abort()` is allowed at any time after successful object creation.

Note that cleaning up the data destination, if required, is your responsibility; neither of these routines will call `term_destination()`. (See "Compressed data handling", below, for more about that.)

`jpeg_destroy()` and `jpeg_abort()` are the only safe calls to make on a JPEG object that has reported an error by calling `error_exit` (see "Error handling" for more info). The internal state of such an object is likely to be out of whack. Either of these two routines will return the object to a known state.

Decompression details

Here we revisit the JPEG decompression outline given in the overview.

1. Allocate and initialize a JPEG decompression object.

This is just like initialization for compression, as discussed above, except that the object is a "struct jpeg_decompress_struct" and you call `jpeg_create_decompress()`. Error handling is exactly the same.

Typical code:

```
struct jpeg_decompress_struct cinfo;
struct jpeg_error_mgr jerr;
...
cinfo.err = jpeg_std_error(&jerr);
jpeg_create_decompress(&cinfo);
```

(Both here and in the IJG code, we usually use variable name "cinfo" for both compression and decompression objects.)

2. Specify the source of the compressed data (eg, a file).

As previously mentioned, the JPEG library reads compressed data from a "data source" module. The library includes one data source module which knows how to read from a stdio stream. You can use your own source module if you want to do something else, as discussed later.

If you use the standard source module, you must open the source stdio stream beforehand. Typical code for this step looks like:

```
FILE * infile;
...
if ((infile = fopen(filename, "rb")) == NULL) {
    fprintf(stderr, "can't open %s\n", filename);
    exit(1);
}
jpeg_stdio_src(&cinfo, infile);
```

where the last line invokes the standard source module.

WARNING: it is critical that the binary compressed data be read unchanged. On non-Unix systems the stdio library may perform newline translation or otherwise corrupt binary data. To suppress this behavior, you may need to use a "b" option to `fopen` (as shown above), or use `setmode()` or another routine to put the stdio stream in binary mode. See `cjpeg.c` and `djpeg.c` for code that has been found to work on many systems.

You may not change the data source between calling `jpeg_read_header()` and `jpeg_finish_decompress()`. If you wish to read a series of JPEG images from a single source file, you should repeat the `jpeg_read_header()` to `jpeg_finish_decompress()` sequence without reinitializing either the JPEG object or the data source module; this prevents buffered input data from being discarded.

3. Call `jpeg_read_header()` to obtain image info.

Typical code for this step is just

```
jpeg_read_header(&cinfo, TRUE);
```

This will read the source datastream header markers, up to the beginning of the compressed data proper. On return, the image dimensions and other info have been stored in the JPEG object. The application may wish to consult this information before selecting decompression parameters.

More complex code is necessary if

- * A suspending data source is used --- in that case `jpeg_read_header()` may return before it has read all the header data. See "I/O suspension", below. The normal stdio source manager will NOT cause this to happen.
- * Abbreviated JPEG files are to be processed --- see the section on abbreviated datastreams. Standard applications that deal only in interchange JPEG files need not be concerned with this case either.

It is permissible to stop at this point if you just wanted to find out the image dimensions and other header info for a JPEG file. In that case, call `jpeg_destroy()` when you are done with the JPEG object, or call `jpeg_abort()` to return it to an idle state before selecting a new data source and reading another header.

4. Set parameters for decompression.

`jpeg_read_header()` sets appropriate default decompression parameters based on the properties of the image (in particular, its colorspace). However, you may well want to alter these defaults before beginning the decompression. For example, the default is to produce full color output from a color file. If you want colormapped output you must ask for it. Other options allow the returned image to be scaled and allow various speed/quality tradeoffs to be selected. "Decompression parameter selection", below, gives details.

If the defaults are appropriate, nothing need be done at this step.

Note that all default values are set by each call to `jpeg_read_header()`.

If you reuse a decompression object, you cannot expect your parameter settings to be preserved across cycles, as you can for compression. You must set desired parameter values each time.

5. `jpeg_start_decompress(...)`;

Once the parameter values are satisfactory, call `jpeg_start_decompress()` to begin decompression. This will initialize internal state, allocate working memory, and prepare for returning data.

Typical code is just

```
jpeg_start_decompress(&cinfo);
```

If you have requested a multi-pass operating mode, such as 2-pass color quantization, `jpeg_start_decompress()` will do everything needed before data output can begin. In this case `jpeg_start_decompress()` may take quite a while to complete. With a single-scan (non progressive) JPEG file and default decompression parameters, this will not happen; `jpeg_start_decompress()` will return quickly.

After this call, the final output image dimensions, including any requested scaling, are available in the JPEG object; so is the selected colormap, if colormapped output has been requested. Useful fields include

```
output_width  image width and height, as scaled
output_height
out_color_components # of color components in out_color_space
output_components # of color components returned per pixel
colormap      the selected colormap, if any
actual_number_of_colors number of entries in colormap
```

`output_components` is 1 (a colormap index) when quantizing colors; otherwise it equals `out_color_components`. It is the number of JSAMPLE values that will be emitted per pixel in the output arrays.

Typically you will need to allocate data buffers to hold the incoming image. You will need `output_width * output_components` JSAMPLEs per scanline in your output buffer, and a total of `output_height` scanlines will be returned.

Note: if you are using the JPEG library's internal memory manager to allocate data buffers (as `djpeg` does), then the manager's protocol requires that you request large buffers **before** calling `jpeg_start_decompress()`. This is a little tricky since the `output_XXX` fields are not normally valid then. You can make them valid by calling `jpeg_calc_output_dimensions()` after setting the relevant parameters (scaling, output color space, and quantization flag).

6. while (scan lines remain to be read)

```
jpeg_read_scanlines(...);
```

Now you can read the decompressed image data by calling `jpeg_read_scanlines()` one or more times. At each call, you pass in the maximum number of scanlines to be read (ie, the height of your working buffer); `jpeg_read_scanlines()` will return up to that many lines. The return value is the number of lines actually read. The format of the returned data is discussed under "Data formats", above. Don't forget that grayscale and color JPEGs will return different data formats!

Image data is returned in top-to-bottom scanline order. If you must write out the image in bottom-to-top order, you can use the JPEG library's virtual array mechanism to invert the data efficiently. Examples of this can be found in the sample application `djpeg`.

The library maintains a count of the number of scanlines returned so far in the `output_scanline` field of the JPEG object. Usually you can just use this variable as the loop counter, so that the loop test looks like "`while (cinfo.output_scanline < cinfo.output_height)`". (Note that the test should NOT be against `image_height`, unless you never use scaling. The `image_height` field is the height of the original unscaled image.) The return value always equals the change in the value of `output_scanline`.

If you don't use a suspending data source, it is safe to assume that `jpeg_read_scanlines()` reads at least one scanline per call, until the bottom of the image has been reached.

If you use a buffer larger than one scanline, it is NOT safe to assume that `jpeg_read_scanlines()` fills it. (The current implementation returns only a few scanlines per call, no matter how large a buffer you pass.) So you must always provide a loop that calls `jpeg_read_scanlines()` repeatedly until the whole image has been read.

7. `jpeg_finish_decompress(...)`;

After all the image data has been read, call `jpeg_finish_decompress()` to complete the decompression cycle. This causes working memory associated with the JPEG object to be released.

Typical code:

```
jpeg_finish_decompress(&cinfo);
```

If using the `stdio` source manager, don't forget to close the source `stdio` stream if necessary.

It is an error to call `jpeg_finish_decompress()` before reading the correct total number of scanlines. If you wish to abort decompression, call `jpeg_abort()` as discussed below.

After completing a decompression cycle, you may dispose of the JPEG object as discussed next, or you may use it to decompress another image. In that case return to step 2 or 3 as appropriate. If you do not change the source manager, the next image will be read from the same source.

8. Release the JPEG decompression object.

When you are done with a JPEG decompression object, destroy it by calling `jpeg_destroy_decompress()` or `jpeg_destroy()`. The previous discussion of destroying compression objects applies here too.

Typical code:

```
jpeg_destroy_decompress(&cinfo);
```

9. Aborting.

You can abort a decompression cycle by calling `jpeg_destroy_decompress()` or `jpeg_destroy()` if you don't need the JPEG object any more, or `jpeg_abort_decompress()` or `jpeg_abort()` if you want to reuse the object. The previous discussion of aborting compression cycles applies here too.

Mechanics of usage: include files, linking, etc

Applications using the JPEG library should include the header file `jpeglib.h` to obtain declarations of data types and routines. Before including `jpeglib.h`, include system headers that define at least the typedefs `FILE` and `size_t`. On ANSI-conforming systems, including `<stdio.h>` is sufficient; on older Unix systems, you may need `<sys/types.h>` to define `size_t`.

If the application needs to refer to individual JPEG library error codes, also include `jerror.h` to define those symbols.

`jpeglib.h` indirectly includes the files `jconfig.h` and `jmorecfg.h`. If you are installing the JPEG header files in a system directory, you will want to install all four files: `jpeglib.h`, `jerror.h`, `jconfig.h`, `jmorecfg.h`.

The most convenient way to include the JPEG code into your executable program is to prepare a library file ("`libjpeg.a`", or a corresponding name on non-Unix

machines) and reference it at your link step. If you use only half of the library (only compression or only decompression), only that much code will be included from the library, unless your linker is hopelessly brain-damaged. The supplied makefiles build libjpeg.a automatically (see install.txt).

While you can build the JPEG library as a shared library if the whim strikes you, we don't really recommend it. The trouble with shared libraries is that at some point you'll probably try to substitute a new version of the library without recompiling the calling applications. That generally doesn't work because the parameter struct declarations usually change with each new version. In other words, the library's API is **not** guaranteed binary compatible across versions; we only try to ensure source-code compatibility. (In hindsight, it might have been smarter to hide the parameter structs from applications and introduce a ton of access functions instead. Too late now, however.)

On some systems your application may need to set up a signal handler to ensure that temporary files are deleted if the program is interrupted. This is most critical if you are on MS-DOS and use the jmemdos.c memory manager back end; it will try to grab extended memory for temp files, and that space will NOT be freed automatically. See cjpeg.c or djpeg.c for an example signal handler.

It may be worth pointing out that the core JPEG library does not actually require the stdio library: only the default source/destination managers and error handler need it. You can use the library in a stdio-less environment if you replace those modules and use jmemnobs.c (or another memory manager of your own devising). More info about the minimum system library requirements may be found in jinclude.h.

ADVANCED FEATURES

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Compression parameter selection

This section describes all the optional parameters you can set for JPEG compression, as well as the "helper" routines provided to assist in this task. Proper setting of some parameters requires detailed understanding of the JPEG standard; if you don't know what a parameter is for, it's best not to mess with it! See REFERENCES in the README file for pointers to more info about JPEG.

It's a good idea to call jpeg_set_defaults() first, even if you plan to set all the parameters; that way your code is more likely to work with future JPEG libraries that have additional parameters. For the same reason, we recommend you use a helper routine where one is provided, in preference to twiddling cinfo fields directly.

The helper routines are:

`jpeg_set_defaults (j_compress_ptr cinfo)`

This routine sets all JPEG parameters to reasonable defaults, using only the input image's color space (field `in_color_space`, which must already be set in `cinfo`). Many applications will only need to use this routine and perhaps `jpeg_set_quality()`.

`jpeg_set_colorspace (j_compress_ptr cinfo, J_COLOR_SPACE colorspace)`

Sets the JPEG file's colorspace (field `jpeg_color_space`) as specified, and sets other color-space-dependent parameters appropriately. See "Special color spaces", below, before using this. A large number of parameters, including all per-component parameters, are set by this routine; if you want to twiddle individual parameters you should call `jpeg_set_colorspace()` before rather than after.

`jpeg_default_colorspace (j_compress_ptr cinfo)`

Selects an appropriate JPEG colorspace based on `cinfo->in_color_space`, and calls `jpeg_set_colorspace()`. This is actually a subroutine of `jpeg_set_defaults()`. It's broken out in case you want to change just the colorspace-dependent JPEG parameters.

`jpeg_set_quality (j_compress_ptr cinfo, int quality, boolean force_baseline)`

Constructs JPEG quantization tables appropriate for the indicated quality setting. The quality value is expressed on the 0..100 scale recommended by IJG (cjpeg's "-quality" switch uses this routine). Note that the exact mapping from quality values to tables may change in future IJG releases as more is learned about DCT quantization. If the `force_baseline` parameter is `TRUE`, then the quantization table entries are constrained to the range 1..255 for full JPEG baseline compatibility. In the current implementation, this only makes a difference for quality settings below 25, and it effectively prevents very small/low quality files from being generated. The IJG decoder is capable of reading the non-baseline files generated at low quality settings when `force_baseline` is `FALSE`, but other decoders may not be.

`jpeg_set_linear_quality (j_compress_ptr cinfo, int scale_factor, boolean force_baseline)`

Same as `jpeg_set_quality()` except that the generated tables are the sample tables given in the JPEG spec section K.1, multiplied by the specified scale factor (which is expressed as a percentage; thus `scale_factor = 100` reproduces the spec's tables). Note that larger scale factors give lower quality. This entry point is useful for conforming to the Adobe PostScript DCT conventions, but we do not recommend linear scaling as a user-visible quality scale otherwise. `force_baseline` again constrains the computed table entries to 1..255.

int jpeg_quality_scaling (int quality)

Converts a value on the IJG-recommended quality scale to a linear scaling percentage. Note that this routine may change or go away in future releases --- IJG may choose to adopt a scaling method that can't be expressed as a simple scalar multiplier, in which case the premise of this routine collapses. Caveat user.

jpeg_default_qtables (j_compress_ptr cinfo, boolean force_baseline)
Set default quantization tables with linear q_scale_factor[] values (see below).

jpeg_add_quant_table (j_compress_ptr cinfo, int which_tbl,
const unsigned int *basic_table,
int scale_factor, boolean force_baseline)

Allows an arbitrary quantization table to be created. which_tbl indicates which table slot to fill. basic_table points to an array of 64 unsigned ints given in normal array order. These values are multiplied by scale_factor/100 and then clamped to the range 1..65535 (or to 1..255 if force_baseline is TRUE).

CAUTION: prior to library version 6a, jpeg_add_quant_table expected the basic table to be given in JPEG zigzag order. If you need to write code that works with either older or newer versions of this routine, you must check the library version number. Something like "#if JPEG_LIB_VERSION >= 61" is the right test.

jpeg_simple_progression (j_compress_ptr cinfo)

Generates a default scan script for writing a progressive-JPEG file. This is the recommended method of creating a progressive file, unless you want to make a custom scan sequence. You must ensure that the JPEG color space is set correctly before calling this routine.

Compression parameters (cinfo fields) include:

boolean arith_code

If TRUE, use arithmetic coding.

If FALSE, use Huffman coding.

int block_size

Set DCT block size. All N from 1 to 16 are possible.

Default is 8 (baseline format).

Larger values produce higher compression,
smaller values produce higher quality.

An exact DCT stage is possible with 1 or 2.

With the default quality of 75 and default Luminance qtable
the DCT+Quantization stage is lossless for value 1.

Note that values other than 8 require a SmartScale capable decoder,
introduced with IJG JPEG 8. Setting the block_size parameter for

compression works with version 8c and later.

`J_DCT_METHOD` `dct_method`

Selects the algorithm used for the DCT step. Choices are:

`JDCT_ISLOW`: slow but accurate integer algorithm

`JDCT_IFAST`: faster, less accurate integer method

`JDCT_FLOAT`: floating-point method

`JDCT_DEFAULT`: default method (normally `JDCT_ISLOW`)

`JDCT_FASTEST`: fastest method (normally `JDCT_IFAST`)

The `JDCT_FLOAT` method is very slightly more accurate than the `JDCT_ISLOW` method, but may give different results on different machines due to varying roundoff behavior. The integer methods should give the same results on all machines. On machines with sufficiently fast FP hardware, the floating-point method may also be the fastest. The `JDCT_IFAST` method is considerably less accurate than the other two; its use is not recommended if high quality is a concern. `JDCT_DEFAULT` and `JDCT_FASTEST` are macros configurable by each installation.

`unsigned int` `scale_num`, `scale_denom`

Scale the image by the fraction `scale_num/scale_denom`. Default is 1/1, or no scaling. Currently, the supported scaling ratios are M/N with all N from 1 to 16, where M is the destination DCT size, which is 8 by default (see `block_size` parameter above).

(The library design allows for arbitrary scaling ratios but this is not likely to be implemented any time soon.)

`J_COLOR_SPACE` `jpeg_color_space`

`int` `num_components`

The JPEG color space and corresponding number of components; see "Special color spaces", below, for more info. We recommend using `jpeg_set_colorspace()` if you want to change these.

`J_COLOR_TRANSFORM` `color_transform`

Internal color transform identifier, writes LSE marker if nonzero (requires decoder with inverse color transform support, introduced with IJG JPEG 9).

Two values are currently possible: `JCT_NONE` and `JCT_SUBTRACT_GREEN`.

Set this value for lossless RGB application *before* calling `jpeg_set_colorspace()`, because entropy table assignment in `jpeg_set_colorspace()` depends on `color_transform`.

`boolean` `optimize_coding`

`TRUE` causes the compressor to compute optimal Huffman coding tables for the image. This requires an extra pass over the data and therefore costs a good deal of space and time. The default is `FALSE`, which tells the compressor to use the supplied or default Huffman tables. In most cases optimal tables save only a few percent of file size compared to the default tables. Note that when this is

TRUE, you need not supply Huffman tables at all, and any you do supply will be overwritten.

unsigned int restart_interval

int restart_in_rows

To emit restart markers in the JPEG file, set one of these nonzero.

Set restart_interval to specify the exact interval in MCU blocks.

Set restart_in_rows to specify the interval in MCU rows. (If restart_in_rows is not 0, then restart_interval is set after the image width in MCUs is computed.) Defaults are zero (no restarts).

One restart marker per MCU row is often a good choice.

NOTE: the overhead of restart markers is higher in grayscale JPEG files than in color files, and MUCH higher in progressive JPEGs.

If you use restarts, you may want to use larger intervals in those cases.

const jpeg_scan_info * scan_info

int num_scans

By default, scan_info is NULL; this causes the compressor to write a single-scan sequential JPEG file. If not NULL, scan_info points to an array of scan definition records of length num_scans. The compressor will then write a JPEG file having one scan for each scan definition record. This is used to generate noninterleaved or progressive JPEG files. The library checks that the scan array defines a valid JPEG scan sequence. (jpeg_simple_progression creates a suitable scan definition array for progressive JPEG.) This is discussed further under "Progressive JPEG support".

boolean do_fancy_downsampling

If TRUE, use direct DCT scaling with DCT size > 8 for downsampling of chroma components.

If FALSE, use only DCT size <= 8 and simple separate downsampling.

Default is TRUE.

For better image stability in multiple generation compression cycles

it is preferable that this value matches the corresponding

do_fancy_upsampling value in decompression.

int smoothing_factor

If non-zero, the input image is smoothed; the value should be 1 for

minimal smoothing to 100 for maximum smoothing. Consult jcsample.c

for details of the smoothing algorithm. The default is zero.

boolean write_JFIF_header

If TRUE, a JFIF APP0 marker is emitted. jpeg_set_defaults() and

jpeg_set_colorspace() set this TRUE if a JFIF-legal JPEG color space

(ie, YCbCr or grayscale) is selected, otherwise FALSE.

UINT8 JFIF_major_version

UINT8 JFIF_minor_version

The version number to be written into the JFIF marker.

jpeg_set_defaults() initializes the version to 1.01 (major=minor=1).

You should set it to 1.02 (major=1, minor=2) if you plan to write any JFIF 1.02 extension markers.

UINT8 density_unit

UINT16 X_density

UINT16 Y_density

The resolution information to be written into the JFIF marker;

not used otherwise. density_unit may be 0 for unknown,

1 for dots/inch, or 2 for dots/cm. The default values are 0,1,1

indicating square pixels of unknown size.

boolean write_Adobe_marker

If TRUE, an Adobe APP14 marker is emitted. jpeg_set_defaults() and jpeg_set_colorspace() set this TRUE if JPEG color space RGB, CMYK, or YCCK is selected, otherwise FALSE. It is generally a bad idea to set both write_JFIF_header and write_Adobe_marker. In fact, you probably shouldn't change the default settings at all --- the default behavior ensures that the JPEG file's color space can be recognized by the decoder.

JQUANT_TBL * quant_tbl_ptrs[NUM_QUANT_TBLS]

Pointers to coefficient quantization tables, one per table slot,

or NULL if no table is defined for a slot. Usually these should

be set via one of the above helper routines; jpeg_add_quant_table()

is general enough to define any quantization table. The other

routines will set up table slot 0 for luminance quality and table

slot 1 for chrominance.

int q_scale_factor[NUM_QUANT_TBLS]

Linear quantization scaling factors (percentage, initialized 100)

for use with jpeg_default_qtables().

See rdswitch.c and cjpeg.c for an example of usage.

Note that the q_scale_factor[] fields are the "linear" scales, so you

have to convert from user-defined ratings via jpeg_quality_scaling().

Here is an example code which corresponds to cjpeg -quality 90,70:

```
jpeg_set_defaults(cinfo);

/* Set luminance quality 90. */
cinfo->q_scale_factor[0] = jpeg_quality_scaling(90);
/* Set chrominance quality 70. */
cinfo->q_scale_factor[1] = jpeg_quality_scaling(70);

jpeg_default_qtables(cinfo, force_baseline);
```

CAUTION: You must also set 1x1 subsampling for efficient separate color quality selection, since the default value used by library is 2x2:

```
cinfo->comp_info[0].v_samp_factor = 1;  
cinfo->comp_info[0].h_samp_factor = 1;
```

JHUFF_TBL * dc_huff_tbl_ptrs[NUM_HUFF_TBLS]

JHUFF_TBL * ac_huff_tbl_ptrs[NUM_HUFF_TBLS]

Pointers to Huffman coding tables, one per table slot, or NULL if no table is defined for a slot. Slots 0 and 1 are filled with the JPEG sample tables by `jpeg_set_defaults()`. If you need to allocate more table structures, `jpeg_alloc_huff_table()` may be used. Note that optimal Huffman tables can be computed for an image by setting `optimize_coding`, as discussed above; there's seldom any need to mess with providing your own Huffman tables.

The actual dimensions of the JPEG image that will be written to the file are given by the following fields. These are computed from the input image dimensions and the compression parameters by `jpeg_start_compress()`. You can also call `jpeg_calc_jpeg_dimensions()` to obtain the values that will result from the current parameter settings. This can be useful if you are trying to pick a scaling ratio that will get close to a desired target size.

JDIMENSION jpeg_width Actual dimensions of output image.

JDIMENSION jpeg_height

Per-component parameters are stored in the struct `cinfo.comp_info[i]` for component number `i`. Note that components here refer to components of the JPEG color space, *not* the source image color space. A suitably large `comp_info[]` array is allocated by `jpeg_set_defaults()`; if you choose not to use that routine, it's up to you to allocate the array.

int component_id

The one-byte identifier code to be recorded in the JPEG file for this component. For the standard color spaces, we recommend you leave the default values alone.

int h_samp_factor

int v_samp_factor

Horizontal and vertical sampling factors for the component; must be 1..4 according to the JPEG standard. Note that larger sampling factors indicate a higher-resolution component; many people find this behavior quite unintuitive. The default values are 2,2 for luminance components and 1,1 for chrominance components, except for grayscale where 1,1 is used.

int quant_tbl_no

Quantization table number for component. The default value is 0 for luminance components and 1 for chrominance components.

int dc_tbl_no

int ac_tbl_no

DC and AC entropy coding table numbers. The default values are 0 for luminance components and 1 for chrominance components.

int component_index

Must equal the component's index in comp_info[]. (Beginning in release v6, the compressor library will fill this in automatically; you don't have to.)

Decompression parameter selection

Decompression parameter selection is somewhat simpler than compression parameter selection, since all of the JPEG internal parameters are recorded in the source file and need not be supplied by the application. (Unless you are working with abbreviated files, in which case see "Abbreviated datastreams", below.) Decompression parameters control the postprocessing done on the image to deliver it in a format suitable for the application's use. Many of the parameters control speed/quality tradeoffs, in which faster decompression may be obtained at the price of a poorer-quality image. The defaults select the highest quality (slowest) processing.

The following fields in the JPEG object are set by jpeg_read_header() and may be useful to the application in choosing decompression parameters:

JDIMENSION image_width Width and height of image

JDIMENSION image_height

int num_components Number of color components

J_COLOR_SPACE jpeg_color_space Colorspace of image

boolean saw_JFIF_marker TRUE if a JFIF APP0 marker was seen

UINT8 JFIF_major_version Version information from JFIF marker

UINT8 JFIF_minor_version

UINT8 density_unit Resolution data from JFIF marker

UINT16 X_density

UINT16 Y_density

boolean saw_Adobe_marker TRUE if an Adobe APP14 marker was seen

UINT8 Adobe_transform Color transform code from Adobe marker

The JPEG color space, unfortunately, is something of a guess since the JPEG standard proper does not provide a way to record it. In practice most files

adhere to the JFIF or Adobe conventions, and the decoder will recognize these correctly. See "Special color spaces", below, for more info.

The decompression parameters that determine the basic properties of the returned image are:

`J_COLOR_SPACE out_color_space`

Output color space. `jpeg_read_header()` sets an appropriate default based on `jpeg_color_space`; typically it will be RGB or grayscale. The application can change this field to request output in a different colorspace. For example, set it to `JCS_GRAYSCALE` to get grayscale output from a color file. (This is useful for previewing: grayscale output is faster than full color since the color components need not be processed.) Note that not all possible color space transforms are currently implemented; you may need to extend `jdcolor.c` if you want an unusual conversion.

`unsigned int scale_num, scale_denom`

Scale the image by the fraction `scale_num/scale_denom`. Currently, the supported scaling ratios are M/N with all M from 1 to 16, where N is the source DCT size, which is 8 for baseline JPEG. (The library design allows for arbitrary scaling ratios but this is not likely to be implemented any time soon.) The values are initialized by `jpeg_read_header()` with the source DCT size. For baseline JPEG this is 8/8. If you change only the `scale_num` value while leaving the other unchanged, then this specifies the DCT scaled size to be applied on the given input. For baseline JPEG this is equivalent to $M/8$ scaling, since the source DCT size for baseline JPEG is 8. Smaller scaling ratios permit significantly faster decoding since fewer pixels need be processed and a simpler IDCT method can be used.

`boolean quantize_colors`

If set `TRUE`, colormapped output will be delivered. Default is `FALSE`, meaning that full-color output will be delivered.

The next three parameters are relevant only if `quantize_colors` is `TRUE`.

`int desired_number_of_colors`

Maximum number of colors to use in generating a library-supplied color map (the actual number of colors is returned in a different field). Default 256. Ignored when the application supplies its own color map.

`boolean two_pass_quantize`

If `TRUE`, an extra pass over the image is made to select a custom color map for the image. This usually looks a lot better than the one-size-fits-all colormap that is used otherwise. Default is `TRUE`. Ignored when the application supplies its own color map.

J_DITHER_MODE dither_mode

Selects color dithering method. Supported values are:

JDITHER_NONE no dithering: fast, very low quality

JDITHER_ORDERED ordered dither: moderate speed and quality

JDITHER_FS Floyd-Steinberg dither: slow, high quality

Default is JDITHER_FS. (At present, ordered dither is implemented only in the single-pass, standard-colormap case. If you ask for ordered dither when two_pass_quantize is TRUE or when you supply an external color map, you'll get F-S dithering.)

When quantize_colors is TRUE, the target color map is described by the next two fields. colormap is set to NULL by jpeg_read_header(). The application can supply a color map by setting colormap non-NULL and setting actual_number_of_colors to the map size. Otherwise, jpeg_start_decompress() selects a suitable color map and sets these two fields itself.

[Implementation restriction: at present, an externally supplied colormap is only accepted for 3-component output color spaces.]

JSAMPARRAY colormap

The color map, represented as a 2-D pixel array of out_color_components rows and actual_number_of_colors columns. Ignored if not quantizing.

CAUTION: if the JPEG library creates its own colormap, the storage pointed to by this field is released by jpeg_finish_decompress().

Copy the colormap somewhere else first, if you want to save it.

int actual_number_of_colors

The number of colors in the color map.

Additional decompression parameters that the application may set include:

J_DCT_METHOD dct_method

Selects the algorithm used for the DCT step. Choices are the same as described above for compression.

boolean do_fancy_upsampling

If TRUE, use direct DCT scaling with DCT size > 8 for upsampling of chroma components.

If FALSE, use only DCT size <= 8 and simple separate upsampling.

Default is TRUE.

For better image stability in multiple generation compression cycles it is preferable that this value matches the corresponding do_fancy_downsampling value in compression.

boolean do_block_smoothing

If TRUE, interblock smoothing is applied in early stages of decoding progressive JPEG files; if FALSE, not. Default is TRUE. Early progression stages look "fuzzy" with smoothing, "blocky" without.

In any case, block smoothing ceases to be applied after the first few AC coefficients are known to full accuracy, so it is relevant only when using buffered-image mode for progressive images.

boolean enable_1pass_quant
boolean enable_external_quant
boolean enable_2pass_quant

These are significant only in buffered-image mode, which is described in its own section below.

The output image dimensions are given by the following fields. These are computed from the source image dimensions and the decompression parameters by `jpeg_start_decompress()`. You can also call `jpeg_calc_output_dimensions()` to obtain the values that will result from the current parameter settings. This can be useful if you are trying to pick a scaling ratio that will get close to a desired target size. It's also important if you are using the JPEG library's memory manager to allocate output buffer space, because you are supposed to request such buffers *before* `jpeg_start_decompress()`.

JDIMENSION output_width Actual dimensions of output image.
JDIMENSION output_height
int out_color_components Number of color components in out_color_space.
int output_components Number of color components returned.
int rec_outbuf_height Recommended height of scanline buffer.

When quantizing colors, `output_components` is 1, indicating a single color map index per pixel. Otherwise it equals `out_color_components`. The output arrays are required to be `output_width * output_components` JSAMPLEs wide.

`rec_outbuf_height` is the recommended minimum height (in scanlines) of the buffer passed to `jpeg_read_scanlines()`. If the buffer is smaller, the library will still work, but time will be wasted due to unnecessary data copying. In high-quality modes, `rec_outbuf_height` is always 1, but some faster, lower-quality modes set it to larger values (typically 2 to 4). If you are going to ask for a high-speed processing mode, you may as well go to the trouble of honoring `rec_outbuf_height` so as to avoid data copying. (An output buffer larger than `rec_outbuf_height` lines is OK, but won't provide any material speed improvement over that height.)

Special color spaces

The JPEG standard itself is "color blind" and doesn't specify any particular color space. It is customary to convert color data to a luminance/chrominance color space before compressing, since this permits greater compression. The existing JPEG file interchange format standards specify YCbCr or GRAYSCALE

data (JFIF version 1), GRAYSCALE, RGB, YCbCr, CMYK, or YCCK (Adobe), or BG_RGB or BG_YCC (big gamut color spaces, JFIF version 2). For special applications such as multispectral images, other color spaces can be used, but it must be understood that such files will be unportable.

The JPEG library can handle the most common colorspace conversions (namely RGB \Leftrightarrow YCbCr and CMYK \Leftrightarrow YCCK). It can also deal with data of an unknown color space, passing it through without conversion. If you deal extensively with an unusual color space, you can easily extend the library to understand additional color spaces and perform appropriate conversions.

For compression, the source data's color space is specified by field `in_color_space`. This is transformed to the JPEG file's color space given by `jpeg_color_space`. `jpeg_set_defaults()` chooses a reasonable JPEG color space depending on `in_color_space`, but you can override this by calling `jpeg_set_colorspace()`. Of course you must select a supported transformation. `jpegcolor.c` currently supports the following transformations:

RGB \Rightarrow YCbCr

RGB \Rightarrow GRAYSCALE

RGB \Rightarrow BG_YCC

YCbCr \Rightarrow GRAYSCALE

YCbCr \Rightarrow BG_YCC

CMYK \Rightarrow YCCK

plus the null transforms: GRAYSCALE \Rightarrow GRAYSCALE, RGB \Rightarrow RGB, BG_RGB \Rightarrow BG_RGB, YCbCr \Rightarrow YCbCr, BG_YCC \Rightarrow BG_YCC, CMYK \Rightarrow CMYK, YCCK \Rightarrow YCCK, and UNKNOWN \Rightarrow UNKNOWN.

The file interchange format standards (JFIF and Adobe) specify APPn markers that indicate the color space of the JPEG file. It is important to ensure that these are written correctly, or omitted if the JPEG file's color space is not one of the ones supported by the interchange standards.

`jpeg_set_colorspace()` will set the compression parameters to include or omit the APPn markers properly, so long as it is told the truth about the JPEG color space. For example, if you are writing some random 3-component color space without conversion, don't try to fake out the library by setting `in_color_space` and `jpeg_color_space` to `JCS_YCbCr`; use `JCS_UNKNOWN`. You may want to write an APPn marker of your own devising to identify the colorspace --- see "Special markers", below.

When told that the color space is UNKNOWN, the library will default to using luminance-quality compression parameters for all color components. You may well want to change these parameters. See the source code for `jpeg_set_colorspace()`, in `jcparam.c`, for details.

For decompression, the JPEG file's color space is given in `jpeg_color_space`, and this is transformed to the output color space `out_color_space`.

`jpeg_read_header's` setting of `jpeg_color_space` can be relied on if the file conforms to JFIF or Adobe conventions, but otherwise it is no better than a

guess. If you know the JPEG file's color space for certain, you can override `jpeg_read_header`'s guess by setting `jpeg_color_space`. `jpeg_read_header` also selects a default output color space based on (its guess of) `jpeg_color_space`; set `out_color_space` to override this. Again, you must select a supported transformation. `jdcolor.c` currently supports

YCbCr => RGB

YCbCr => GRAYSCALE

BG_YCC => RGB

BG_YCC => GRAYSCALE

RGB => GRAYSCALE

GRAYSCALE => RGB

YCK => CMYK

as well as the null transforms. (Since GRAYSCALE=>RGB is provided, an application can force grayscale JPEGs to look like color JPEGs if it only wants to handle one case.)

The two-pass color quantizer, `jquant2.c`, is specialized to handle RGB data (it weights distances appropriately for RGB colors). You'll need to modify the code if you want to use it for non-RGB output color spaces. Note that `jquant2.c` is used to map to an application-supplied colormap as well as for the normal two-pass colormap selection process.

CAUTION: it appears that Adobe Photoshop writes inverted data in CMYK JPEG files: 0 represents 100% ink coverage, rather than 0% ink as you'd expect. This is arguably a bug in Photoshop, but if you need to work with Photoshop CMYK files, you will have to deal with it in your application. We cannot "fix" this in the library by inverting the data during the CMYK<=>YCK transform, because that would break other applications, notably Ghostscript. Photoshop versions prior to 3.0 write EPS files containing JPEG-encoded CMYK data in the same inverted-YCK representation used in bare JPEG files, but the surrounding PostScript code performs an inversion using the PS image operator. I am told that Photoshop 3.0 will write uninverted YCK in EPS/JPEG files, and will omit the PS-level inversion. (But the data polarity used in bare JPEG files will not change in 3.0.) In either case, the JPEG library must not invert the data itself, or else Ghostscript would read these EPS files incorrectly.

Error handling

When the default error handler is used, any error detected inside the JPEG routines will cause a message to be printed on `stderr`, followed by `exit()`. You can supply your own error handling routines to override this behavior and to control the treatment of nonfatal warnings and trace/debug messages. The file `example.c` illustrates the most common case, which is to have the application regain control after an error rather than exiting.

The JPEG library never writes any message directly; it always goes through the error handling routines. Three classes of messages are recognized:

- * Fatal errors: the library cannot continue.
- * Warnings: the library can continue, but the data is corrupt, and a damaged output image is likely to result.
- * Trace/informational messages. These come with a trace level indicating the importance of the message; you can control the verbosity of the program by adjusting the maximum trace level that will be displayed.

You may, if you wish, simply replace the entire JPEG error handling module (`jpegerror.c`) with your own code. However, you can avoid code duplication by only replacing some of the routines depending on the behavior you need. This is accomplished by calling `jpeg_std_error()` as usual, but then overriding some of the method pointers in the `jpeg_error_mgr` struct, as illustrated by `example.c`.

All of the error handling routines will receive a pointer to the JPEG object (a `j_common_ptr` which points to either a `jpeg_compress_struct` or a `jpeg_decompress_struct`; if you need to tell which, test the `is_decompressor` field). This struct includes a pointer to the error manager struct in its "err" field. Frequently, custom error handler routines will need to access additional data which is not known to the JPEG library or the standard error handler. The most convenient way to do this is to embed either the JPEG object or the `jpeg_error_mgr` struct in a larger structure that contains additional fields; then casting the passed pointer provides access to the additional fields. Again, see `example.c` for one way to do it. (Beginning with IJG version 6b, there is also a void pointer "client_data" in each JPEG object, which the application can also use to find related data. The library does not touch `client_data` at all.)

The individual methods that you might wish to override are:

`error_exit(j_common_ptr cinfo)`

Receives control for a fatal error. Information sufficient to generate the error message has been stored in `cinfo->err`; call `output_message` to display it. Control must NOT return to the caller; generally this routine will `exit()` or `longjmp()` somewhere. Typically you would override this routine to get rid of the `exit()` default behavior. Note that if you continue processing, you should clean up the JPEG object with `jpeg_abort()` or `jpeg_destroy()`.

`output_message(j_common_ptr cinfo)`

Actual output of any JPEG message. Override this to send messages somewhere other than `stderr`. Note that this method does not know how to generate a message, only where to send it.

`format_message(j_common_ptr cinfo, char * buffer)`

Constructs a readable error message string based on the error info

stored in `cinfo->err`. This method is called by `output_message`. Few applications should need to override this method. One possible reason for doing so is to implement dynamic switching of error message language.

`emit_message(j_common_ptr cinfo, int msg_level)`

Decide whether or not to emit a warning or trace message; if so, calls `output_message`. The main reason for overriding this method would be to abort on warnings. `msg_level` is -1 for warnings, 0 and up for trace messages.

Only `error_exit()` and `emit_message()` are called from the rest of the JPEG library; the other two are internal to the error handler.

The actual message texts are stored in an array of strings which is pointed to by the field `err->jpeg_message_table`. The messages are numbered from 0 to `err->last_jpeg_message`, and it is these code numbers that are used in the JPEG library code. You could replace the message texts (for instance, with messages in French or German) by changing the message table pointer. See `jerror.h` for the default texts. CAUTION: this table will almost certainly change or grow from one library version to the next.

It may be useful for an application to add its own message texts that are handled by the same mechanism. The error handler supports a second "add-on" message table for this purpose. To define an add-on table, set the pointer `err->addon_message_table` and the message numbers `err->first_addon_message` and `err->last_addon_message`. If you number the add-on messages beginning at 1000 or so, you won't have to worry about conflicts with the library's built-in messages. See the sample applications `cjpeg/djpeg` for an example of using add-on messages (the add-on messages are defined in `cderror.h`).

Actual invocation of the error handler is done via macros defined in `jerror.h`:

`ERREXITn(...)` for fatal errors

`WARNMSn(...)` for corrupt-data warnings

`TRACEMSn(...)` for trace and informational messages.

These macros store the message code and any additional parameters into the error handler struct, then invoke the `error_exit()` or `emit_message()` method. The variants of each macro are for varying numbers of additional parameters. The additional parameters are inserted into the generated message using standard `printf()` format codes.

See `jerror.h` and `jerror.c` for further details.

Compressed data handling (source and destination managers)

The JPEG compression library sends its compressed data to a "destination

manager" module. The default destination manager just writes the data to a memory buffer or to a stdio stream, but you can provide your own manager to do something else. Similarly, the decompression library calls a "source manager" to obtain the compressed data; you can provide your own source manager if you want the data to come from somewhere other than a memory buffer or a stdio stream.

In both cases, compressed data is processed a bufferload at a time: the destination or source manager provides a work buffer, and the library invokes the manager only when the buffer is filled or emptied. (You could define a one-character buffer to force the manager to be invoked for each byte, but that would be rather inefficient.) The buffer's size and location are controlled by the manager, not by the library. For example, the memory source manager just makes the buffer pointer and length point to the original data in memory. In this case the buffer-reload procedure will be invoked only if the decompressor ran off the end of the datastream, which would indicate an erroneous datastream.

The work buffer is defined as an array of datatype JOCTET, which is generally "char" or "unsigned char". On a machine where char is not exactly 8 bits wide, you must define JOCTET as a wider data type and then modify the data source and destination modules to transcribe the work arrays into 8-bit units on external storage.

A data destination manager struct contains a pointer and count defining the next byte to write in the work buffer and the remaining free space:

```
JOCTET * next_output_byte; /* => next byte to write in buffer */
size_t free_in_buffer;    /* # of byte spaces remaining in buffer */
```

The library increments the pointer and decrements the count until the buffer is filled. The manager's empty_output_buffer method must reset the pointer and count. The manager is expected to remember the buffer's starting address and total size in private fields not visible to the library.

A data destination manager provides three methods:

init_destination (j_compress_ptr cinfo)

Initialize destination. This is called by jpeg_start_compress() before any data is actually written. It must initialize next_output_byte and free_in_buffer. free_in_buffer must be initialized to a positive value.

empty_output_buffer (j_compress_ptr cinfo)

This is called whenever the buffer has filled (free_in_buffer reaches zero). In typical applications, it should write out the *entire* buffer (use the saved start address and buffer length; ignore the current state of next_output_byte and free_in_buffer).

Then reset the pointer & count to the start of the buffer, and return TRUE indicating that the buffer has been dumped. free_in_buffer must be set to a positive value when TRUE is returned. A FALSE return should only be used when I/O suspension is desired (this operating mode is discussed in the next section).

term_destination (j_compress_ptr cinfo)

Terminate destination --- called by jpeg_finish_compress() after all data has been written. In most applications, this must flush any data remaining in the buffer. Use either next_output_byte or free_in_buffer to determine how much data is in the buffer.

term_destination() is NOT called by jpeg_abort() or jpeg_destroy(). If you want the destination manager to be cleaned up during an abort, you must do it yourself.

You will also need code to create a jpeg_destination_mgr struct, fill in its method pointers, and insert a pointer to the struct into the "dest" field of the JPEG compression object. This can be done in-line in your setup code if you like, but it's probably cleaner to provide a separate routine similar to the jpeg_stdio_dest() or jpeg_mem_dest() routines of the supplied destination managers.

Decompression source managers follow a parallel design, but with some additional frammishes. The source manager struct contains a pointer and count defining the next byte to read from the work buffer and the number of bytes remaining:

```
const JOCTET * next_input_byte; /* => next byte to read from buffer */
size_t bytes_in_buffer;      /* # of bytes remaining in buffer */
```

The library increments the pointer and decrements the count until the buffer is emptied. The manager's fill_input_buffer method must reset the pointer and count. In most applications, the manager must remember the buffer's starting address and total size in private fields not visible to the library.

A data source manager provides five methods:

init_source (j_decompress_ptr cinfo)

Initialize source. This is called by jpeg_read_header() before any data is actually read. Unlike init_destination(), it may leave bytes_in_buffer set to 0 (in which case a fill_input_buffer() call will occur immediately).

fill_input_buffer (j_decompress_ptr cinfo)

This is called whenever bytes_in_buffer has reached zero and more data is wanted. In typical applications, it should read fresh data into the buffer (ignoring the current state of next_input_byte and

bytes_in_buffer), reset the pointer & count to the start of the buffer, and return TRUE indicating that the buffer has been reloaded. It is not necessary to fill the buffer entirely, only to obtain at least one more byte. bytes_in_buffer MUST be set to a positive value if TRUE is returned. A FALSE return should only be used when I/O suspension is desired (this mode is discussed in the next section).

skip_input_data (j_decompress_ptr cinfo, long num_bytes)

Skip num_bytes worth of data. The buffer pointer and count should be advanced over num_bytes input bytes, refilling the buffer as needed. This is used to skip over a potentially large amount of uninteresting data (such as an APPn marker). In some applications it may be possible to optimize away the reading of the skipped data, but it's not clear that being smart is worth much trouble; large skips are uncommon. bytes_in_buffer may be zero on return. A zero or negative skip count should be treated as a no-op.

resync_to_restart (j_decompress_ptr cinfo, int desired)

This routine is called only when the decompressor has failed to find a restart (RSTn) marker where one is expected. Its mission is to find a suitable point for resuming decompression. For most applications, we recommend that you just use the default resync procedure, jpeg_resync_to_restart(). However, if you are able to back up in the input data stream, or if you have a-priori knowledge about the likely location of restart markers, you may be able to do better. Read the read_restart_marker() and jpeg_resync_to_restart() routines in jdmarker.c if you think you'd like to implement your own resync procedure.

term_source (j_decompress_ptr cinfo)

Terminate source --- called by jpeg_finish_decompress() after all data has been read. Often a no-op.

For both fill_input_buffer() and skip_input_data(), there is no such thing as an EOF return. If the end of the file has been reached, the routine has a choice of exiting via ERREXIT() or inserting fake data into the buffer. In most cases, generating a warning message and inserting a fake EOI marker is the best course of action --- this will allow the decompressor to output however much of the image is there. In pathological cases, the decompressor may swallow the EOI and again demand data ... just keep feeding it fake EOIs. jdatasrc.c illustrates the recommended error recovery behavior.

term_source() is NOT called by jpeg_abort() or jpeg_destroy(). If you want the source manager to be cleaned up during an abort, you must do it yourself.

You will also need code to create a jpeg_source_mgr struct, fill in its method pointers, and insert a pointer to the struct into the "src" field of the JPEG decompression object. This can be done in-line in your setup code if you

like, but it's probably cleaner to provide a separate routine similar to the `jpeg_stdio_src()` or `jpeg_mem_src()` routines of the supplied source managers.

For more information, consult the memory and stdio source and destination managers in `jdatasrc.c` and `jdatadst.c`.

I/O suspension

Some applications need to use the JPEG library as an incremental memory-to-memory filter: when the compressed data buffer is filled or emptied, they want control to return to the outer loop, rather than expecting that the buffer can be emptied or reloaded within the data source/destination manager subroutine. The library supports this need by providing an "I/O suspension" mode, which we describe in this section.

The I/O suspension mode is not a panacea: nothing is guaranteed about the maximum amount of time spent in any one call to the library, so it will not eliminate response-time problems in single-threaded applications. If you need guaranteed response time, we suggest you "bite the bullet" and implement a real multi-tasking capability.

To use I/O suspension, cooperation is needed between the calling application and the data source or destination manager; you will always need a custom source/destination manager. (Please read the previous section if you haven't already.) The basic idea is that the `empty_output_buffer()` or `fill_input_buffer()` routine is a no-op, merely returning `FALSE` to indicate that it has done nothing. Upon seeing this, the JPEG library suspends operation and returns to its caller. The surrounding application is responsible for emptying or refilling the work buffer before calling the JPEG library again.

Compression suspension:

For compression suspension, use an `empty_output_buffer()` routine that returns `FALSE`; typically it will not do anything else. This will cause the compressor to return to the caller of `jpeg_write_scanlines()`, with the return value indicating that not all the supplied scanlines have been accepted. The application must make more room in the output buffer, adjust the output buffer pointer/count appropriately, and then call `jpeg_write_scanlines()` again, pointing to the first unconsumed scanline.

When forced to suspend, the compressor will backtrack to a convenient stopping point (usually the start of the current MCU); it will regenerate some output data when restarted. Therefore, although `empty_output_buffer()` is only called when the buffer is filled, you should NOT write out the entire buffer after a suspension. Write only the data up to the current position of

next_output_byte/free_in_buffer. The data beyond that point will be regenerated after resumption.

Because of the backtracking behavior, a good-size output buffer is essential for efficiency; you don't want the compressor to suspend often. (In fact, an overly small buffer could lead to infinite looping, if a single MCU required more data than would fit in the buffer.) We recommend a buffer of at least several Kbytes. You may want to insert explicit code to ensure that you don't call jpeg_write_scanlines() unless there is a reasonable amount of space in the output buffer; in other words, flush the buffer before trying to compress more data.

The compressor does not allow suspension while it is trying to write JPEG markers at the beginning and end of the file. This means that:

- * At the beginning of a compression operation, there must be enough free space in the output buffer to hold the header markers (typically 600 or so bytes). The recommended buffer size is bigger than this anyway, so this is not a problem as long as you start with an empty buffer. However, this restriction might catch you if you insert large special markers, such as a JFIF thumbnail image, without flushing the buffer afterwards.
- * When you call jpeg_finish_compress(), there must be enough space in the output buffer to emit any buffered data and the final EOI marker. In the current implementation, half a dozen bytes should suffice for this, but for safety's sake we recommend ensuring that at least 100 bytes are free before calling jpeg_finish_compress().

A more significant restriction is that jpeg_finish_compress() cannot suspend. This means you cannot use suspension with multi-pass operating modes, namely Huffman code optimization and multiple-scan output. Those modes write the whole file during jpeg_finish_compress(), which will certainly result in buffer overrun. (Note that this restriction applies only to compression, not decompression. The decompressor supports input suspension in all of its operating modes.)

Decompression suspension:

For decompression suspension, use a fill_input_buffer() routine that simply returns FALSE (except perhaps during error recovery, as discussed below). This will cause the decompressor to return to its caller with an indication that suspension has occurred. This can happen at four places:

- * jpeg_read_header(): will return JPEG_SUSPENDED.
- * jpeg_start_decompress(): will return FALSE, rather than its usual TRUE.
- * jpeg_read_scanlines(): will return the number of scanlines already completed (possibly 0).
- * jpeg_finish_decompress(): will return FALSE, rather than its usual TRUE.

The surrounding application must recognize these cases, load more data into the input buffer, and repeat the call. In the case of jpeg_read_scanlines(), increment the passed pointers past any scanlines successfully read.

Just as with compression, the decompressor will typically backtrack to a convenient restart point before suspending. When `fill_input_buffer()` is called, `next_input_byte/bytes_in_buffer` point to the current restart point, which is where the decompressor will backtrack to if `FALSE` is returned. The data beyond that position must NOT be discarded if you suspend; it needs to be re-read upon resumption. In most implementations, you'll need to shift this data down to the start of your work buffer and then load more data after it. Again, this behavior means that a several-Kbyte work buffer is essential for decent performance; furthermore, you should load a reasonable amount of new data before resuming decompression. (If you loaded, say, only one new byte each time around, you could waste a LOT of cycles.)

The `skip_input_data()` source manager routine requires special care in a suspension scenario. This routine is NOT granted the ability to suspend the decompressor; it can decrement `bytes_in_buffer` to zero, but no more. If the requested skip distance exceeds the amount of data currently in the input buffer, then `skip_input_data()` must set `bytes_in_buffer` to zero and record the additional skip distance somewhere else. The decompressor will immediately call `fill_input_buffer()`, which should return `FALSE`, which will cause a suspension return. The surrounding application must then arrange to discard the recorded number of bytes before it resumes loading the input buffer. (Yes, this design is rather baroque, but it avoids complexity in the far more common case where a non-suspending source manager is used.)

If the input data has been exhausted, we recommend that you emit a warning and insert dummy EOI markers just as a non-suspending data source manager would do. This can be handled either in the surrounding application logic or within `fill_input_buffer()`; the latter is probably more efficient. If `fill_input_buffer()` knows that no more data is available, it can set the pointer/count to point to a dummy EOI marker and then return `TRUE` just as though it had read more data in a non-suspending situation.

The decompressor does not attempt to suspend within standard JPEG markers; instead it will backtrack to the start of the marker and reprocess the whole marker next time. Hence the input buffer must be large enough to hold the longest standard marker in the file. Standard JPEG markers should normally not exceed a few hundred bytes each (DHT tables are typically the longest). We recommend at least a 2K buffer for performance reasons, which is much larger than any correct marker is likely to be. For robustness against damaged marker length counts, you may wish to insert a test in your application for the case that the input buffer is completely full and yet the decoder has suspended without consuming any data --- otherwise, if this situation did occur, it would lead to an endless loop. (The library can't provide this test since it has no idea whether "the buffer is full", or even whether there is a fixed-size input buffer.)

The input buffer would need to be 64K to allow for arbitrary COM or APPn

markers, but these are handled specially: they are either saved into allocated memory, or skipped over by calling `skip_input_data()`. In the former case, suspension is handled correctly, and in the latter case, the problem of buffer overrun is placed on `skip_input_data`'s shoulders, as explained above. Note that if you provide your own marker handling routine for large markers, you should consider how to deal with buffer overflow.

Multiple-buffer management:

In some applications it is desirable to store the compressed data in a linked list of buffer areas, so as to avoid data copying. This can be handled by having `empty_output_buffer()` or `fill_input_buffer()` set the pointer and count to reference the next available buffer; `FALSE` is returned only if no more buffers are available. Although seemingly straightforward, there is a pitfall in this approach: the backtrack that occurs when `FALSE` is returned could back up into an earlier buffer. For example, when `fill_input_buffer()` is called, the current pointer & count indicate the backtrack restart point. Since `fill_input_buffer()` will set the pointer and count to refer to a new buffer, the restart position must be saved somewhere else. Suppose a second call to `fill_input_buffer()` occurs in the same library call, and no additional input data is available, so `fill_input_buffer` must return `FALSE`. If the JPEG library has not moved the pointer/count forward in the current buffer, then *the correct restart point is the saved position in the prior buffer*. Prior buffers may be discarded only after the library establishes a restart point within a later buffer. Similar remarks apply for output into a chain of buffers.

The library will never attempt to backtrack over a `skip_input_data()` call, so any skipped data can be permanently discarded. You still have to deal with the case of skipping not-yet-received data, however.

It's much simpler to use only a single buffer; when `fill_input_buffer()` is called, move any unconsumed data (beyond the current pointer/count) down to the beginning of this buffer and then load new data into the remaining buffer space. This approach requires a little more data copying but is far easier to get right.

Progressive JPEG support

Progressive JPEG rearranges the stored data into a series of scans of increasing quality. In situations where a JPEG file is transmitted across a slow communications link, a decoder can generate a low-quality image very quickly from the first scan, then gradually improve the displayed quality as more scans are received. The final image after all scans are complete is identical to that of a regular (sequential) JPEG file of the same quality setting. Progressive JPEG files are often slightly smaller than equivalent

sequential JPEG files, but the possibility of incremental display is the main reason for using progressive JPEG.

The IJG encoder library generates progressive JPEG files when given a suitable "scan script" defining how to divide the data into scans. Creation of progressive JPEG files is otherwise transparent to the encoder. Progressive JPEG files can also be read transparently by the decoder library. If the decoding application simply uses the library as defined above, it will receive a final decoded image without any indication that the file was progressive. Of course, this approach does not allow incremental display. To perform incremental display, an application needs to use the decoder library's "buffered-image" mode, in which it receives a decoded image multiple times.

Each displayed scan requires about as much work to decode as a full JPEG image of the same size, so the decoder must be fairly fast in relation to the data transmission rate in order to make incremental display useful. However, it is possible to skip displaying the image and simply add the incoming bits to the decoder's coefficient buffer. This is fast because only Huffman decoding need be done, not IDCT, upsampling, colorspace conversion, etc. The IJG decoder library allows the application to switch dynamically between displaying the image and simply absorbing the incoming bits. A properly coded application can automatically adapt the number of display passes to suit the time available as the image is received. Also, a final higher-quality display cycle can be performed from the buffered data after the end of the file is reached.

Progressive compression:

To create a progressive JPEG file (or a multiple-scan sequential JPEG file), set the scan_info cinfo field to point to an array of scan descriptors, and perform compression as usual. Instead of constructing your own scan list, you can call the jpeg_simple_progression() helper routine to create a recommended progression sequence; this method should be used by all applications that don't want to get involved in the nitty-gritty of progressive scan sequence design. (If you want to provide user control of scan sequences, you may wish to borrow the scan script reading code found in rdswitch.c, so that you can read scan script files just like cjpeg's.) When scan_info is not NULL, the compression library will store DCT'd data into a buffer array as jpeg_write_scanlines() is called, and will emit all the requested scans during jpeg_finish_compress(). This implies that multiple-scan output cannot be created with a suspending data destination manager, since jpeg_finish_compress() does not support suspension. We should also note that the compressor currently forces Huffman optimization mode when creating a progressive JPEG file, because the default Huffman tables are unsuitable for progressive files.

Progressive decompression:

When buffered-image mode is not used, the decoder library will read all of a multi-scan file during `jpeg_start_decompress()`, so that it can provide a final decoded image. (Here "multi-scan" means either progressive or multi-scan sequential.) This makes multi-scan files transparent to the decoding application. However, existing applications that used suspending input with version 5 of the IJG library will need to be modified to check for a suspension return from `jpeg_start_decompress()`.

To perform incremental display, an application must use the library's buffered-image mode. This is described in the next section.

Buffered-image mode

In buffered-image mode, the library stores the partially decoded image in a coefficient buffer, from which it can be read out as many times as desired. This mode is typically used for incremental display of progressive JPEG files, but it can be used with any JPEG file. Each scan of a progressive JPEG file adds more data (more detail) to the buffered image. The application can display in lockstep with the source file (one display pass per input scan), or it can allow input processing to outrun display processing. By making input and display processing run independently, it is possible for the application to adapt progressive display to a wide range of data transmission rates.

The basic control flow for buffered-image decoding is

```
jpeg_create_decompress()
set data source
jpeg_read_header()
set overall decompression parameters
cinfo.buffered_image = TRUE; /* select buffered-image mode */
jpeg_start_decompress()
for (each output pass) {
    adjust output decompression parameters if required
    jpeg_start_output() /* start a new output pass */
    for (all scanlines in image) {
        jpeg_read_scanlines()
        display scanlines
    }
    jpeg_finish_output() /* terminate output pass */
}
jpeg_finish_decompress()
jpeg_destroy_decompress()
```

This differs from ordinary unbuffered decoding in that there is an additional

level of looping. The application can choose how many output passes to make and how to display each pass.

The simplest approach to displaying progressive images is to do one display pass for each scan appearing in the input file. In this case the outer loop condition is typically

```
while (! jpeg_input_complete(&cinfo))
```

and the start-output call should read

```
jpeg_start_output(&cinfo, cinfo.input_scan_number);
```

The second parameter to `jpeg_start_output()` indicates which scan of the input file is to be displayed; the scans are numbered starting at 1 for this purpose. (You can use a loop counter starting at 1 if you like, but using the library's input scan counter is easier.) The library automatically reads data as necessary to complete each requested scan, and `jpeg_finish_output()` advances to the next scan or end-of-image marker (hence `input_scan_number` will be incremented by the time control arrives back at `jpeg_start_output()`). With this technique, data is read from the input file only as needed, and input and output processing run in lockstep.

After reading the final scan and reaching the end of the input file, the buffered image remains available; it can be read additional times by repeating the `jpeg_start_output()/jpeg_read_scanlines()/jpeg_finish_output()` sequence. For example, a useful technique is to use fast one-pass color quantization for display passes made while the image is arriving, followed by a final display pass using two-pass quantization for highest quality. This is done by changing the library parameters before the final output pass. Changing parameters between passes is discussed in detail below.

In general the last scan of a progressive file cannot be recognized as such until after it is read, so a post-input display pass is the best approach if you want special processing in the final pass.

When done with the image, be sure to call `jpeg_finish_decompress()` to release the buffered image (or just use `jpeg_destroy_decompress()`).

If input data arrives faster than it can be displayed, the application can cause the library to decode input data in advance of what's needed to produce output. This is done by calling the routine `jpeg_consume_input()`.

The return value is one of the following:

JPEG_REACHED_SOS: reached an SOS marker (the start of a new scan)

JPEG_REACHED_EOI: reached the EOI marker (end of image)

JPEG_ROW_COMPLETED: completed reading one MCU row of compressed data

JPEG_SCAN_COMPLETED: completed reading last MCU row of current scan

JPEG_SUSPENDED: suspended before completing any of the above

(**JPEG_SUSPENDED** can occur only if a suspending data source is used.) This

routine can be called at any time after initializing the JPEG object. It reads some additional data and returns when one of the indicated significant events occurs. (If called after the EOI marker is reached, it will

immediately return JPEG_REACHED_EOI without attempting to read more data.)

The library's output processing will automatically call `jpeg_consume_input()` whenever the output processing overtakes the input; thus, simple lockstep display requires no direct calls to `jpeg_consume_input()`. But by adding calls to `jpeg_consume_input()`, you can absorb data in advance of what is being displayed. This has two benefits:

- * You can limit buildup of unprocessed data in your input buffer.
- * You can eliminate extra display passes by paying attention to the state of the library's input processing.

The first of these benefits only requires interspersing calls to `jpeg_consume_input()` with your display operations and any other processing you may be doing. To avoid wasting cycles due to backtracking, it's best to call `jpeg_consume_input()` only after a hundred or so new bytes have arrived. This is discussed further under "I/O suspension", above. (Note: the JPEG library currently is not thread-safe. You must not call `jpeg_consume_input()` from one thread of control if a different library routine is working on the same JPEG object in another thread.)

When input arrives fast enough that more than one new scan is available before you start a new output pass, you may as well skip the output pass corresponding to the completed scan. This occurs for free if you pass `cinfo.input_scan_number` as the target scan number to `jpeg_start_output()`. The `input_scan_number` field is simply the index of the scan currently being consumed by the input processor. You can ensure that this is up-to-date by emptying the input buffer just before calling `jpeg_start_output()`: call `jpeg_consume_input()` repeatedly until it returns JPEG_SUSPENDED or JPEG_REACHED_EOI.

The target scan number passed to `jpeg_start_output()` is saved in the `cinfo.output_scan_number` field. The library's output processing calls `jpeg_consume_input()` whenever the current input scan number and row within that scan is less than or equal to the current output scan number and row. Thus, input processing can "get ahead" of the output processing but is not allowed to "fall behind". You can achieve several different effects by manipulating this interlock rule. For example, if you pass a target scan number greater than the current input scan number, the output processor will wait until that scan starts to arrive before producing any output. (To avoid an infinite loop, the target scan number is automatically reset to the last scan number when the end of image is reached. Thus, if you specify a large target scan number, the library will just absorb the entire input file and then perform an output pass. This is effectively the same as what `jpeg_start_decompress()` does when you don't select buffered-image mode.) When you pass a target scan number equal to the current input scan number, the image is displayed no faster than the current input scan arrives. The final possibility is to pass a target scan number less than the current input scan number; this disables the input/output interlock and causes the output

processor to simply display whatever it finds in the image buffer, without waiting for input. (However, the library will not accept a target scan number less than one, so you can't avoid waiting for the first scan.)

When data is arriving faster than the output display processing can advance through the image, `jpeg_consume_input()` will store data into the buffered image beyond the point at which the output processing is reading data out again. If the input arrives fast enough, it may "wrap around" the buffer to the point where the input is more than one whole scan ahead of the output. If the output processing simply proceeds through its display pass without paying attention to the input, the effect seen on-screen is that the lower part of the image is one or more scans better in quality than the upper part. Then, when the next output scan is started, you have a choice of what target scan number to use. The recommended choice is to use the current input scan number at that time, which implies that you've skipped the output scans corresponding to the input scans that were completed while you processed the previous output scan. In this way, the decoder automatically adapts its speed to the arriving data, by skipping output scans as necessary to keep up with the arriving data.

When using this strategy, you'll want to be sure that you perform a final output pass after receiving all the data; otherwise your last display may not be full quality across the whole screen. So the right outer loop logic is something like this:

```
do {
    absorb any waiting input by calling jpeg_consume_input()
    final_pass = jpeg_input_complete(&cinfo);
    adjust output decompression parameters if required
    jpeg_start_output(&cinfo, cinfo.input_scan_number);
    ...
    jpeg_finish_output()
} while (! final_pass);
```

rather than quitting as soon as `jpeg_input_complete()` returns TRUE. This arrangement makes it simple to use higher-quality decoding parameters for the final pass. But if you don't want to use special parameters for the final pass, the right loop logic is like this:

```
for (;;) {
    absorb any waiting input by calling jpeg_consume_input()
    jpeg_start_output(&cinfo, cinfo.input_scan_number);
    ...
    jpeg_finish_output()
    if (jpeg_input_complete(&cinfo) &&
        cinfo.input_scan_number == cinfo.output_scan_number)
        break;
}
```

In this case you don't need to know in advance whether an output pass is to be the last one, so it's not necessary to have reached EOF before starting the final output pass; rather, what you want to test is whether the output

pass was performed in sync with the final input scan. This form of the loop will avoid an extra output pass whenever the decoder is able (or nearly able) to keep up with the incoming data.

When the data transmission speed is high, you might begin a display pass, then find that much or all of the file has arrived before you can complete the pass. (You can detect this by noting the `JPEG_REACHED_EOI` return code from `jpeg_consume_input()`, or equivalently by testing `jpeg_input_complete()`.) In this situation you may wish to abort the current display pass and start a new one using the newly arrived information. To do so, just call `jpeg_finish_output()` and then start a new pass with `jpeg_start_output()`.

A variant strategy is to abort and restart display if more than one complete scan arrives during an output pass; this can be detected by noting `JPEG_REACHED_SOS` returns and/or examining `cinfo.input_scan_number`. This idea should be employed with caution, however, since the display process might never get to the bottom of the image before being aborted, resulting in the lower part of the screen being several passes worse than the upper. In most cases it's probably best to abort an output pass only if the whole file has arrived and you want to begin the final output pass immediately.

When receiving data across a communication link, we recommend always using the current input scan number for the output target scan number; if a higher-quality final pass is to be done, it should be started (aborting any incomplete output pass) as soon as the end of file is received. However, many other strategies are possible. For example, the application can examine the parameters of the current input scan and decide whether to display it or not. If the scan contains only chroma data, one might choose not to use it as the target scan, expecting that the scan will be small and will arrive quickly. To skip to the next scan, call `jpeg_consume_input()` until it returns `JPEG_REACHED_SOS` or `JPEG_REACHED_EOI`. Or just use the next higher number as the target scan for `jpeg_start_output()`; but that method doesn't let you inspect the next scan's parameters before deciding to display it.

In buffered-image mode, `jpeg_start_decompress()` never performs input and thus never suspends. An application that uses input suspension with buffered-image mode must be prepared for suspension returns from these routines:

- * `jpeg_start_output()` performs input only if you request 2-pass quantization and the target scan isn't fully read yet. (This is discussed below.)
- * `jpeg_read_scanlines()`, as always, returns the number of scanlines that it was able to produce before suspending.
- * `jpeg_finish_output()` will read any markers following the target scan, up to the end of the file or the SOS marker that begins another scan. (But it reads no input if `jpeg_consume_input()` has already reached the end of the file or a SOS marker beyond the target output scan.)
- * `jpeg_finish_decompress()` will read until the end of file, and thus can

suspend if the end hasn't already been reached (as can be tested by calling `jpeg_input_complete()`).
`jpeg_start_output()`, `jpeg_finish_output()`, and `jpeg_finish_decompress()` all return TRUE if they completed their tasks, FALSE if they had to suspend. In the event of a FALSE return, the application must load more input data and repeat the call. Applications that use non-suspending data sources need not check the return values of these three routines.

It is possible to change decoding parameters between output passes in the buffered-image mode. The decoder library currently supports only very limited changes of parameters. ONLY THE FOLLOWING parameter changes are allowed after `jpeg_start_decompress()` is called:

- * `dct_method` can be changed before each call to `jpeg_start_output()`.
For example, one could use a fast DCT method for early scans, changing to a higher quality method for the final scan.
- * `dither_mode` can be changed before each call to `jpeg_start_output()`; of course this has no impact if not using color quantization. Typically one would use ordered dither for initial passes, then switch to Floyd-Steinberg dither for the final pass. Caution: changing dither mode can cause more memory to be allocated by the library. Although the amount of memory involved is not large (a scanline or so), it may cause the initial `max_memory_to_use` specification to be exceeded, which in the worst case would result in an out-of-memory failure.
- * `do_block_smoothing` can be changed before each call to `jpeg_start_output()`. This setting is relevant only when decoding a progressive JPEG image. During the first DC-only scan, block smoothing provides a very "fuzzy" look instead of the very "blocky" look seen without it; which is better seems a matter of personal taste. But block smoothing is nearly always a win during later stages, especially when decoding a successive-approximation image: smoothing helps to hide the slight blockiness that otherwise shows up on smooth gradients until the lowest coefficient bits are sent.
- * Color quantization mode can be changed under the rules described below. You *cannot* change between full-color and quantized output (because that would alter the required I/O buffer sizes), but you can change which quantization method is used.

When generating color-quantized output, changing quantization method is a very useful way of switching between high-speed and high-quality display. The library allows you to change among its three quantization methods:

1. Single-pass quantization to a fixed color cube.
Selected by `cinfo.two_pass_quantize = FALSE` and `cinfo.colormap = NULL`.
2. Single-pass quantization to an application-supplied colormap.
Selected by setting `cinfo.colormap` to point to the colormap (the value of `two_pass_quantize` is ignored); also set `cinfo.actual_number_of_colors`.
3. Two-pass quantization to a colormap chosen specifically for the image.
Selected by `cinfo.two_pass_quantize = TRUE` and `cinfo.colormap = NULL`.
(This is the default setting selected by `jpeg_read_header`, but it is

probably NOT what you want for the first pass of progressive display!) These methods offer successively better quality and lesser speed. However, only the first method is available for quantizing in non-RGB color spaces.

IMPORTANT: because the different quantizer methods have very different working-storage requirements, the library requires you to indicate which one(s) you intend to use before you call `jpeg_start_decompress()`. (If we did not require this, the `max_memory_to_use` setting would be a complete fiction.)

You do this by setting one or more of these three `cinfo` fields to TRUE:

`enable_1pass_quant` Fixed color cube colormap
`enable_external_quant` Externally-supplied colormap
`enable_2pass_quant` Two-pass custom colormap

All three are initialized FALSE by `jpeg_read_header()`. But `jpeg_start_decompress()` automatically sets TRUE the one selected by the current `two_pass_quantize` and `colormap` settings, so you only need to set the enable flags for any other quantization methods you plan to change to later.

After setting the enable flags correctly at `jpeg_start_decompress()` time, you can change to any enabled quantization method by setting `two_pass_quantize` and `colormap` properly just before calling `jpeg_start_output()`. The following special rules apply:

1. You must explicitly set `cinfo.colormap` to NULL when switching to 1-pass or 2-pass mode from a different mode, or when you want the 2-pass quantizer to be re-run to generate a new colormap.
2. To switch to an external colormap, or to change to a different external colormap than was used on the prior pass, you must call `jpeg_new_colormap()` after setting `cinfo.colormap`.

NOTE: if you want to use the same colormap as was used in the prior pass, you should not do either of these things. This will save some nontrivial switchover costs.

(These requirements exist because `cinfo.colormap` will always be non-NULL after completing a prior output pass, since both the 1-pass and 2-pass quantizers set it to point to their output colormaps. Thus you have to do one of these two things to notify the library that something has changed. Yup, it's a bit klugy, but it's necessary to do it this way for backwards compatibility.)

Note that in buffered-image mode, the library generates any requested colormap during `jpeg_start_output()`, not during `jpeg_start_decompress()`.

When using two-pass quantization, `jpeg_start_output()` makes a pass over the buffered image to determine the optimum color map; it therefore may take a significant amount of time, whereas ordinarily it does little work. The progress monitor hook is called during this pass, if defined. It is also important to realize that if the specified target scan number is greater than or equal to the current input scan number, `jpeg_start_output()` will attempt to consume input as it makes this pass. If you use a suspending data source, you need to check for a FALSE return from `jpeg_start_output()` under these

conditions. The combination of 2-pass quantization and a not-yet-fully-read target scan is the only case in which `jpeg_start_output()` will consume input.

Application authors who support buffered-image mode may be tempted to use it for all JPEG images, even single-scan ones. This will work, but it is inefficient: there is no need to create an image-sized coefficient buffer for single-scan images. Requesting buffered-image mode for such an image wastes memory. Worse, it can cost time on large images, since the buffered data has to be swapped out or written to a temporary file. If you are concerned about maximum performance on baseline JPEG files, you should use buffered-image mode only when the incoming file actually has multiple scans. This can be tested by calling `jpeg_has_multiple_scans()`, which will return a correct result at any time after `jpeg_read_header()` completes.

It is also worth noting that when you use `jpeg_consume_input()` to let input processing get ahead of output processing, the resulting pattern of access to the coefficient buffer is quite nonsequential. It's best to use the memory manager `jmemnobs.c` if you can (ie, if you have enough real or virtual main memory). If not, at least make sure that `max_memory_to_use` is set as high as possible. If the JPEG memory manager has to use a temporary file, you will probably see a lot of disk traffic and poor performance. (This could be improved with additional work on the memory manager, but we haven't gotten around to it yet.)

In some applications it may be convenient to use `jpeg_consume_input()` for all input processing, including reading the initial markers; that is, you may wish to call `jpeg_consume_input()` instead of `jpeg_read_header()` during startup. This works, but note that you must check for `JPEG_REACHED_SOS` and `JPEG_REACHED_EOI` return codes as the equivalent of `jpeg_read_header()`'s codes. Once the first SOS marker has been reached, you must call `jpeg_start_decompress()` before `jpeg_consume_input()` will consume more input; it'll just keep returning `JPEG_REACHED_SOS` until you do. If you read a tables-only file this way, `jpeg_consume_input()` will return `JPEG_REACHED_EOI` without ever returning `JPEG_REACHED_SOS`; be sure to check for this case. If this happens, the decompressor will not read any more input until you call `jpeg_abort()` to reset it. It is OK to call `jpeg_consume_input()` even when not using buffered-image mode, but in that case it's basically a no-op after the initial markers have been read: it will just return `JPEG_SUSPENDED`.

Abbreviated datastreams and multiple images

A JPEG compression or decompression object can be reused to process multiple images. This saves a small amount of time per image by eliminating the "create" and "destroy" operations, but that isn't the real purpose of the feature. Rather, reuse of an object provides support for abbreviated JPEG

datastreams. Object reuse can also simplify processing a series of images in a single input or output file. This section explains these features.

A JPEG file normally contains several hundred bytes worth of quantization and Huffman tables. In a situation where many images will be stored or transmitted with identical tables, this may represent an annoying overhead. The JPEG standard therefore permits tables to be omitted. The standard defines three classes of JPEG datastreams:

- * "Interchange" datastreams contain an image and all tables needed to decode the image. These are the usual kind of JPEG file.
- * "Abbreviated image" datastreams contain an image, but are missing some or all of the tables needed to decode that image.
- * "Abbreviated table specification" (henceforth "tables-only") datastreams contain only table specifications.

To decode an abbreviated image, it is necessary to load the missing table(s) into the decoder beforehand. This can be accomplished by reading a separate tables-only file. A variant scheme uses a series of images in which the first image is an interchange (complete) datastream, while subsequent ones are abbreviated and rely on the tables loaded by the first image. It is assumed that once the decoder has read a table, it will remember that table until a new definition for the same table number is encountered.

It is the application designer's responsibility to figure out how to associate the correct tables with an abbreviated image. While abbreviated datastreams can be useful in a closed environment, their use is strongly discouraged in any situation where data exchange with other applications might be needed. Caveat designer.

The JPEG library provides support for reading and writing any combination of tables-only datastreams and abbreviated images. In both compression and decompression objects, a quantization or Huffman table will be retained for the lifetime of the object, unless it is overwritten by a new table definition.

To create abbreviated image datastreams, it is only necessary to tell the compressor not to emit some or all of the tables it is using. Each quantization and Huffman table struct contains a boolean field "sent_table", which normally is initialized to FALSE. For each table used by the image, the header-writing process emits the table and sets sent_table = TRUE unless it is already TRUE. (In normal usage, this prevents outputting the same table definition multiple times, as would otherwise occur because the chroma components typically share tables.) Thus, setting this field to TRUE before calling jpeg_start_compress() will prevent the table from being written at all.

If you want to create a "pure" abbreviated image file containing no tables, just call "jpeg_suppress_tables(&cinfo, TRUE)" after constructing all the tables. If you want to emit some but not all tables, you'll need to set the

individual `sent_table` fields directly.

To create an abbreviated image, you must also call `jpeg_start_compress()` with a second parameter of `FALSE`, not `TRUE`. Otherwise `jpeg_start_compress()` will force all the `sent_table` fields to `FALSE`. (This is a safety feature to prevent abbreviated images from being created accidentally.)

To create a tables-only file, perform the same parameter setup that you normally would, but instead of calling `jpeg_start_compress()` and so on, call `jpeg_write_tables(&cinfo)`. This will write an abbreviated datastream containing only SOI, DQT and/or DHT markers, and EOI. All the quantization and Huffman tables that are currently defined in the compression object will be emitted unless their `sent_tables` flag is already `TRUE`, and then all the `sent_tables` flags will be set `TRUE`.

A sure-fire way to create matching tables-only and abbreviated image files is to proceed as follows:

```
create JPEG compression object
set JPEG parameters
set destination to tables-only file
jpeg_write_tables(&cinfo);
set destination to image file
jpeg_start_compress(&cinfo, FALSE);
write data...
jpeg_finish_compress(&cinfo);
```

Since the JPEG parameters are not altered between writing the table file and the abbreviated image file, the same tables are sure to be used. Of course, you can repeat the `jpeg_start_compress()` ... `jpeg_finish_compress()` sequence many times to produce many abbreviated image files matching the table file.

You cannot suppress output of the computed Huffman tables when Huffman optimization is selected. (If you could, there'd be no way to decode the image...) Generally, you don't want to set `optimize_coding = TRUE` when you are trying to produce abbreviated files.

In some cases you might want to compress an image using tables which are not stored in the application, but are defined in an interchange or tables-only file readable by the application. This can be done by setting up a JPEG decompression object to read the specification file, then copying the tables into your compression object. See `jpeg_copy_critical_parameters()` for an example of copying quantization tables.

To read abbreviated image files, you simply need to load the proper tables into the decompression object before trying to read the abbreviated image. If the proper tables are stored in the application program, you can just

allocate the table structs and fill in their contents directly. For example, to load a fixed quantization table into table slot "n":

```
if (cinfo.quant_tbl_ptrs[n] == NULL)
    cinfo.quant_tbl_ptrs[n] = jpeg_alloc_quant_table((j_common_ptr) &cinfo);
quant_ptr = cinfo.quant_tbl_ptrs[n]; /* quant_ptr is JQUANT_TBL* */
for (i = 0; i < 64; i++) {
    /* Qtable[] is desired quantization table, in natural array order */
    quant_ptr->quantval[i] = Qtable[i];
}
```

Code to load a fixed Huffman table is typically (for AC table "n"):

```
if (cinfo.ac_huff_tbl_ptrs[n] == NULL)
    cinfo.ac_huff_tbl_ptrs[n] = jpeg_alloc_huff_table((j_common_ptr) &cinfo);
huff_ptr = cinfo.ac_huff_tbl_ptrs[n]; /* huff_ptr is JHUFF_TBL* */
for (i = 1; i <= 16; i++) {
    /* counts[i] is number of Huffman codes of length i bits, i=1..16 */
    huff_ptr->bits[i] = counts[i];
}
for (i = 0; i < 256; i++) {
    /* symbols[] is the list of Huffman symbols, in code-length order */
    huff_ptr->huffval[i] = symbols[i];
}
```

(Note that trying to set `cinfo.quant_tbl_ptrs[n]` to point directly at a constant `JQUANT_TBL` object is not safe. If the incoming file happened to contain a quantization table definition, your master table would get overwritten! Instead allocate a working table copy and copy the master table into it, as illustrated above. Ditto for Huffman tables, of course.)

You might want to read the tables from a tables-only file, rather than hard-wiring them into your application. The `jpeg_read_header()` call is sufficient to read a tables-only file. You must pass a second parameter of `FALSE` to indicate that you do not require an image to be present. Thus, the typical scenario is

```
create JPEG decompression object
set source to tables-only file
jpeg_read_header(&cinfo, FALSE);
set source to abbreviated image file
jpeg_read_header(&cinfo, TRUE);
set decompression parameters
jpeg_start_decompress(&cinfo);
read data...
jpeg_finish_decompress(&cinfo);
```

In some cases, you may want to read a file without knowing whether it contains

an image or just tables. In that case, pass `FALSE` and check the return value from `jpeg_read_header()`: it will be `JPEG_HEADER_OK` if an image was found, `JPEG_HEADER_TABLES_ONLY` if only tables were found. (A third return value, `JPEG_SUSPENDED`, is possible when using a suspending data source manager.) Note that `jpeg_read_header()` will not complain if you read an abbreviated image for which you haven't loaded the missing tables; the missing-table check occurs later, in `jpeg_start_decompress()`.

It is possible to read a series of images from a single source file by repeating the `jpeg_read_header() ... jpeg_finish_decompress()` sequence, without releasing/recreating the JPEG object or the data source module. (If you did reinitialize, any partial bufferload left in the data source buffer at the end of one image would be discarded, causing you to lose the start of the next image.) When you use this method, stored tables are automatically carried forward, so some of the images can be abbreviated images that depend on tables from earlier images.

If you intend to write a series of images into a single destination file, you might want to make a specialized data destination module that doesn't flush the output buffer at `term_destination()` time. This would speed things up by some trifling amount. Of course, you'd need to remember to flush the buffer after the last image. You can make the later images be abbreviated ones by passing `FALSE` to `jpeg_start_compress()`.

Special markers

Some applications may need to insert or extract special data in the JPEG datastream. The JPEG standard provides marker types "COM" (comment) and "APP0" through "APP15" (application) to hold application-specific data. Unfortunately, the use of these markers is not specified by the standard. COM markers are fairly widely used to hold user-supplied text. The JFIF file format spec uses APP0 markers with specified initial strings to hold certain data. Adobe applications use APP14 markers beginning with the string "Adobe" for miscellaneous data. Other APPn markers are rarely seen, but might contain almost anything.

If you wish to store user-supplied text, we recommend you use COM markers and place readable 7-bit ASCII text in them. Newline conventions are not standardized --- expect to find LF (Unix style), CR/LF (DOS style), or CR (Mac style). A robust COM reader should be able to cope with random binary garbage, including nulls, since some applications generate COM markers containing non-ASCII junk. (But yours should not be one of them.)

For program-supplied data, use an APPn marker, and be sure to begin it with an identifying string so that you can tell whether the marker is actually yours.

It's probably best to avoid using APP0 or APP14 for any private markers.
(NOTE: the upcoming SPIFF standard will use APP8 markers; we recommend you not use APP8 markers for any private purposes, either.)

Keep in mind that at most 65533 bytes can be put into one marker, but you can have as many markers as you like.

By default, the IJG compression library will write a JFIF APP0 marker if the selected JPEG colorspace is grayscale or YCbCr, or an Adobe APP14 marker if the selected colorspace is RGB, CMYK, or YCCK. You can disable this, but we don't recommend it. The decompression library will recognize JFIF and Adobe markers and will set the JPEG colorspace properly when one is found.

You can write special markers immediately following the datastream header by calling `jpeg_write_marker()` after `jpeg_start_compress()` and before the first call to `jpeg_write_scanlines()`. When you do this, the markers appear after the SOI and the JFIF APP0 and Adobe APP14 markers (if written), but before all else. Specify the marker type parameter as "JPEG_COM" for COM or "JPEG_APP0 + n" for APPn. (Actually, `jpeg_write_marker` will let you write any marker type, but we don't recommend writing any other kinds of marker.) For example, to write a user comment string pointed to by `comment_text`:
`jpeg_write_marker(cinfo, JPEG_COM, comment_text, strlen(comment_text));`

If it's not convenient to store all the marker data in memory at once, you can instead call `jpeg_write_m_header()` followed by multiple calls to `jpeg_write_m_byte()`. If you do it this way, it's your responsibility to call `jpeg_write_m_byte()` exactly the number of times given in the `length` parameter to `jpeg_write_m_header()`. (This method lets you empty the output buffer partway through a marker, which might be important when using a suspending data destination module. In any case, if you are using a suspending destination, you should flush its buffer after inserting any special markers. See "I/O suspension".)

Or, if you prefer to synthesize the marker byte sequence yourself, you can just cram it straight into the data destination module.

If you are writing JFIF 1.02 extension markers (thumbnail images), don't forget to set `cinfo.JFIF_minor_version = 2` so that the encoder will write the correct JFIF version number in the JFIF header marker. The library's default is to write version 1.01, but that's wrong if you insert any 1.02 extension markers. (We could probably get away with just defaulting to 1.02, but there used to be broken decoders that would complain about unknown minor version numbers. To reduce compatibility risks it's safest not to write 1.02 unless you are actually using 1.02 extensions.)

When reading, two methods of handling special markers are available:

1. You can ask the library to save the contents of COM and/or APPn markers into memory, and then examine them at your leisure afterwards.
2. You can supply your own routine to process COM and/or APPn markers on-the-fly as they are read.

The first method is simpler to use, especially if you are using a suspending data source; writing a marker processor that copes with input suspension is not easy (consider what happens if the marker is longer than your available input buffer). However, the second method conserves memory since the marker data need not be kept around after it's been processed.

For either method, you'd normally set up marker handling after creating a decompression object and before calling `jpeg_read_header()`, because the markers of interest will typically be near the head of the file and so will be scanned by `jpeg_read_header`. Once you've established a marker handling method, it will be used for the life of that decompression object (potentially many datastreams), unless you change it. Marker handling is determined separately for COM markers and for each APPn marker code.

To save the contents of special markers in memory, call `jpeg_save_markers(cinfo, marker_code, length_limit)` where `marker_code` is the marker type to save, `JPEG_COM` or `JPEG_APP0+n`. (To arrange to save all the special marker types, you need to call this routine 17 times, for COM and APP0-APP15.) If the incoming marker is longer than `length_limit` data bytes, only `length_limit` bytes will be saved; this parameter allows you to avoid chewing up memory when you only need to see the first few bytes of a potentially large marker. If you want to save all the data, set `length_limit` to `0xFFFF`; that is enough since marker lengths are only 16 bits. As a special case, setting `length_limit` to 0 prevents that marker type from being saved at all. (That is the default behavior, in fact.)

After `jpeg_read_header()` completes, you can examine the special markers by following the `cinfo->marker_list` pointer chain. All the special markers in the file appear in this list, in order of their occurrence in the file (but omitting any markers of types you didn't ask for). Both the original data length and the saved data length are recorded for each list entry; the latter will not exceed `length_limit` for the particular marker type. Note that these lengths exclude the marker length word, whereas the stored representation within the JPEG file includes it. (Hence the maximum data length is really only 65533.)

It is possible that additional special markers appear in the file beyond the SOS marker at which `jpeg_read_header` stops; if so, the marker list will be extended during reading of the rest of the file. This is not expected to be common, however. If you are short on memory you may want to reset the length limit to zero for all marker types after finishing `jpeg_read_header`, to ensure that the `max_memory_to_use` setting cannot be exceeded due to addition of later markers.

The marker list remains stored until you call `jpeg_finish_decompress` or `jpeg_abort`, at which point the memory is freed and the list is set to empty. (`jpeg_destroy` also releases the storage, of course.)

Note that the library is internally interested in APP0 and APP14 markers; if you try to set a small nonzero length limit on these types, the library will silently force the length up to the minimum it wants. (But you can set a zero length limit to prevent them from being saved at all.) Also, in a 16-bit environment, the maximum length limit may be constrained to less than 65533 by `malloc()` limitations. It is therefore best not to assume that the effective length limit is exactly what you set it to be.

If you want to supply your own marker-reading routine, you do it by calling `jpeg_set_marker_processor()`. A marker processor routine must have the signature

```
boolean jpeg_marker_parser_method (j_decompress_ptr cinfo)
```

Although the marker code is not explicitly passed, the routine can find it in `cinfo->unread_marker`. At the time of call, the marker proper has been read from the data source module. The processor routine is responsible for reading the marker length word and the remaining parameter bytes, if any. Return TRUE to indicate success. (FALSE should be returned only if you are using a suspending data source and it tells you to suspend. See the standard marker processors in `jdmarker.c` for appropriate coding methods if you need to use a suspending data source.)

If you override the default APP0 or APP14 processors, it is up to you to recognize JFIF and Adobe markers if you want colorspace recognition to occur properly. We recommend copying and extending the default processors if you want to do that. (A better idea is to save these marker types for later examination by calling `jpeg_save_markers()`; that method doesn't interfere with the library's own processing of these markers.)

`jpeg_set_marker_processor()` and `jpeg_save_markers()` are mutually exclusive --- if you call one it overrides any previous call to the other, for the particular marker type specified.

A simple example of an external COM processor can be found in `djpeg.c`. Also, see `jpegtran.c` for an example of using `jpeg_save_markers`.

Raw (downsampled) image data

Some applications need to supply already-downsampled image data to the JPEG compressor, or to receive raw downsampled data from the decompressor. The library supports this requirement by allowing the application to write or

read raw data, bypassing the normal preprocessing or postprocessing steps. The interface is different from the standard one and is somewhat harder to use. If your interest is merely in bypassing color conversion, we recommend that you use the standard interface and simply set `jpeg_color_space = in_color_space` (or `jpeg_color_space = out_color_space` for decompression). The mechanism described in this section is necessary only to supply or receive downsampled image data, in which not all components have the same dimensions.

To compress raw data, you must supply the data in the colorspace to be used in the JPEG file (please read the earlier section on Special color spaces) and downsampled to the sampling factors specified in the JPEG parameters. You must supply the data in the format used internally by the JPEG library, namely a JSAMPIMAGE array. This is an array of pointers to two-dimensional arrays, each of type JSAMPARRAY. Each 2-D array holds the values for one color component. This structure is necessary since the components are of different sizes. If the image dimensions are not a multiple of the MCU size, you must also pad the data correctly (usually, this is done by replicating the last column and/or row). The data must be padded to a multiple of a DCT block in each component: that is, each downsampled row must contain a multiple of `block_size` valid samples, and there must be a multiple of `block_size` sample rows for each component. (For applications such as conversion of digital TV images, the standard image size is usually a multiple of the DCT block size, so that no padding need actually be done.)

The procedure for compression of raw data is basically the same as normal compression, except that you call `jpeg_write_raw_data()` in place of `jpeg_write_scanlines()`. Before calling `jpeg_start_compress()`, you must do the following:

- * Set `cinfo->raw_data_in` to TRUE. (It is set FALSE by `jpeg_set_defaults()`.) This notifies the library that you will be supplying raw data. Furthermore, set `cinfo->do_fancy_downsampling` to FALSE if you want to use real downsampled data. (It is set TRUE by `jpeg_set_defaults()`.)
- * Ensure `jpeg_color_space` is correct --- an explicit `jpeg_set_colorspace()` call is a good idea. Note that since color conversion is bypassed, `in_color_space` is ignored, except that `jpeg_set_defaults()` uses it to choose the default `jpeg_color_space` setting.
- * Ensure the sampling factors, `cinfo->comp_info[i].h_samp_factor` and `cinfo->comp_info[i].v_samp_factor`, are correct. Since these indicate the dimensions of the data you are supplying, it's wise to set them explicitly, rather than assuming the library's defaults are what you want.

To pass raw data to the library, call `jpeg_write_raw_data()` in place of `jpeg_write_scanlines()`. The two routines work similarly except that `jpeg_write_raw_data` takes a JSAMPIMAGE data array rather than JSAMPARRAY. The scanlines count passed to and returned from `jpeg_write_raw_data` is measured in terms of the component with the largest `v_samp_factor`.

jpeg_write_raw_data() processes one MCU row per call, which is to say $v_samp_factor * block_size$ sample rows of each component. The passed num_lines value must be at least $max_v_samp_factor * block_size$, and the return value will be exactly that amount (or possibly some multiple of that amount, in future library versions). This is true even on the last call at the bottom of the image; don't forget to pad your data as necessary.

The required dimensions of the supplied data can be computed for each component as

```
cinfo->comp_info[i].width_in_blocks*block_size  samples per row
```

```
cinfo->comp_info[i].height_in_blocks*block_size rows in image
```

after jpeg_start_compress() has initialized those fields. If the valid data is smaller than this, it must be padded appropriately. For some sampling factors and image sizes, additional dummy DCT blocks are inserted to make the image a multiple of the MCU dimensions. The library creates such dummy blocks itself; it does not read them from your supplied data. Therefore you need never pad by more than block_size samples. An example may help here.

Assume 2h2v downsampling of YCbCr data, that is

```
cinfo->comp_info[0].h_samp_factor = 2  for Y
```

```
cinfo->comp_info[0].v_samp_factor = 2
```

```
cinfo->comp_info[1].h_samp_factor = 1  for Cb
```

```
cinfo->comp_info[1].v_samp_factor = 1
```

```
cinfo->comp_info[2].h_samp_factor = 1  for Cr
```

```
cinfo->comp_info[2].v_samp_factor = 1
```

and suppose that the nominal image dimensions (cinfo->image_width and cinfo->image_height) are 101x101 pixels. Then jpeg_start_compress() will compute $downsampled_width = 101$ and $width_in_blocks = 13$ for Y, $downsampled_width = 51$ and $width_in_blocks = 7$ for Cb and Cr (and the same for the height fields). You must pad the Y data to at least $13 * 8 = 104$ columns and rows, the Cb/Cr data to at least $7 * 8 = 56$ columns and rows. The MCU height is $max_v_samp_factor = 2$ DCT rows so you must pass at least 16 scanlines on each call to jpeg_write_raw_data(), which is to say 16 actual sample rows of Y and 8 each of Cb and Cr. A total of 7 MCU rows are needed, so you must pass a total of $7 * 16 = 112$ "scanlines". The last DCT block row of Y data is dummy, so it doesn't matter what you pass for it in the data arrays, but the scanlines count must total up to 112 so that all of the Cb and Cr data gets passed.

Output suspension is supported with raw-data compression: if the data destination module suspends, jpeg_write_raw_data() will return 0.

In this case the same data rows must be passed again on the next call.

Decompression with raw data output implies bypassing all postprocessing.

You must deal with the color space and sampling factors present in the incoming file. If your application only handles, say, 2h1v YCbCr data, you must check for and fail on other color spaces or other sampling factors.

The library will not convert to a different color space for you.

To obtain raw data output, set `cinfo->raw_data_out = TRUE` before `jpeg_start_decompress()` (it is set `FALSE` by `jpeg_read_header()`). Be sure to verify that the color space and sampling factors are ones you can handle. Furthermore, set `cinfo->do_fancy_upsampling = FALSE` if you want to get real downsampled data (it is set `TRUE` by `jpeg_read_header()`). Then call `jpeg_read_raw_data()` in place of `jpeg_read_scanlines()`. The decompression process is otherwise the same as usual.

`jpeg_read_raw_data()` returns one MCU row per call, and thus you must pass a buffer of at least `max_v_samp_factor*block_size` scanlines (scanline counting is the same as for raw-data compression). The buffer you pass must be large enough to hold the actual data plus padding to DCT-block boundaries. As with compression, any entirely dummy DCT blocks are not processed so you need not allocate space for them, but the total scanline count includes them. The above example of computing buffer dimensions for raw-data compression is equally valid for decompression.

Input suspension is supported with raw-data decompression: if the data source module suspends, `jpeg_read_raw_data()` will return 0. You can also use buffered-image mode to read raw data in multiple passes.

Really raw data: DCT coefficients

It is possible to read or write the contents of a JPEG file as raw DCT coefficients. This facility is mainly intended for use in lossless transcoding between different JPEG file formats. Other possible applications include lossless cropping of a JPEG image, lossless reassembly of a multi-strip or multi-tile TIFF/JPEG file into a single JPEG datastream, etc.

To read the contents of a JPEG file as DCT coefficients, open the file and do `jpeg_read_header()` as usual. But instead of calling `jpeg_start_decompress()` and `jpeg_read_scanlines()`, call `jpeg_read_coefficients()`. This will read the entire image into a set of virtual coefficient-block arrays, one array per component. The return value is a pointer to an array of virtual-array descriptors. Each virtual array can be accessed directly using the JPEG memory manager's `access_virt_barray` method (see Memory management, below, and also read `structure.txt`'s discussion of virtual array handling). Or, for simple transcoding to a different JPEG file format, the array list can just be handed directly to `jpeg_write_coefficients()`.

Each block in the block arrays contains quantized coefficient values in normal array order (not JPEG zigzag order). The block arrays contain only DCT blocks containing real data; any entirely-dummy blocks added to fill out interleaved MCUs at the right or bottom edges of the image are discarded

during reading and are not stored in the block arrays. (The size of each block array can be determined from the `width_in_blocks` and `height_in_blocks` fields of the component's `comp_info` entry.) This is also the data format expected by `jpeg_write_coefficients()`.

When you are done using the virtual arrays, call `jpeg_finish_decompress()` to release the array storage and return the decompression object to an idle state; or just call `jpeg_destroy()` if you don't need to reuse the object.

If you use a suspending data source, `jpeg_read_coefficients()` will return NULL if it is forced to suspend; a non-NULL return value indicates successful completion. You need not test for a NULL return value when using a non-suspending data source.

It is also possible to call `jpeg_read_coefficients()` to obtain access to the decoder's coefficient arrays during a normal decode cycle in buffered-image mode. This frammish might be useful for progressively displaying an incoming image and then re-encoding it without loss. To do this, decode in buffered-image mode as discussed previously, then call `jpeg_read_coefficients()` after the last `jpeg_finish_output()` call. The arrays will be available for your use until you call `jpeg_finish_decompress()`.

To write the contents of a JPEG file as DCT coefficients, you must provide the DCT coefficients stored in virtual block arrays. You can either pass block arrays read from an input JPEG file by `jpeg_read_coefficients()`, or allocate virtual arrays from the JPEG compression object and fill them yourself. In either case, `jpeg_write_coefficients()` is substituted for `jpeg_start_compress()` and `jpeg_write_scanlines()`. Thus the sequence is

- * Create compression object
- * Set all compression parameters as necessary
- * Request virtual arrays if needed
- * `jpeg_write_coefficients()`
- * `jpeg_finish_compress()`
- * Destroy or re-use compression object

`jpeg_write_coefficients()` is passed a pointer to an array of virtual block array descriptors; the number of arrays is equal to `cinfo.num_components`.

The virtual arrays need only have been requested, not realized, before `jpeg_write_coefficients()` is called. A side-effect of `jpeg_write_coefficients()` is to realize any virtual arrays that have been requested from the compression object's memory manager. Thus, when obtaining the virtual arrays from the compression object, you should fill the arrays after calling `jpeg_write_coefficients()`. The data is actually written out when you call `jpeg_finish_compress()`; `jpeg_write_coefficients()` only writes the file header.

When writing raw DCT coefficients, it is crucial that the JPEG quantization

tables and sampling factors match the way the data was encoded, or the resulting file will be invalid. For transcoding from an existing JPEG file, we recommend using `jpeg_copy_critical_parameters()`. This routine initializes all the compression parameters to default values (like `jpeg_set_defaults()`), then copies the critical information from a source decompression object. The decompression object should have just been used to read the entire JPEG input file --- that is, it should be awaiting `jpeg_finish_decompress()`.

`jpeg_write_coefficients()` marks all tables stored in the compression object as needing to be written to the output file (thus, it acts like `jpeg_start_compress(cinfo, TRUE)`). This is for safety's sake, to avoid emitting abbreviated JPEG files by accident. If you really want to emit an abbreviated JPEG file, call `jpeg_suppress_tables()`, or set the tables' individual `sent_table` flags, between calling `jpeg_write_coefficients()` and `jpeg_finish_compress()`.

Progress monitoring

Some applications may need to regain control from the JPEG library every so often. The typical use of this feature is to produce a percent-done bar or other progress display. (For a simple example, see `cjpeg.c` or `djpeg.c`.) Although you do get control back frequently during the data-transferring pass (the `jpeg_read_scanlines` or `jpeg_write_scanlines` loop), any additional passes will occur inside `jpeg_finish_compress` or `jpeg_start_decompress`; those routines may take a long time to execute, and you don't get control back until they are done.

You can define a progress-monitor routine which will be called periodically by the library. No guarantees are made about how often this call will occur, so we don't recommend you use it for mouse tracking or anything like that. At present, a call will occur once per MCU row, scanline, or sample row group, whichever unit is convenient for the current processing mode; so the wider the image, the longer the time between calls. During the data transferring pass, only one call occurs per call of `jpeg_read_scanlines` or `jpeg_write_scanlines`, so don't pass a large number of scanlines at once if you want fine resolution in the progress count. (If you really need to use the callback mechanism for time-critical tasks like mouse tracking, you could insert additional calls inside some of the library's inner loops.)

To establish a progress-monitor callback, create a struct `jpeg_progress_mgr`, fill in its `progress_monitor` field with a pointer to your callback routine, and set `cinfo->progress` to point to the struct. The callback will be called whenever `cinfo->progress` is non-NULL. (This pointer is set to NULL by `jpeg_create_compress` or `jpeg_create_decompress`; the library will not change it thereafter. So if you allocate dynamic storage for the progress struct, make sure it will live as long as the JPEG object does. Allocating from the

JPEG memory manager with lifetime JPOOL_PERMANENT will work nicely.) You can use the same callback routine for both compression and decompression.

The jpeg_progress_mgr struct contains four fields which are set by the library:

```
long pass_counter; /* work units completed in this pass */
long pass_limit; /* total number of work units in this pass */
int completed_passes; /* passes completed so far */
int total_passes; /* total number of passes expected */
```

During any one pass, pass_counter increases from 0 up to (not including) pass_limit; the step size is usually but not necessarily 1. The pass_limit value may change from one pass to another. The expected total number of passes is in total_passes, and the number of passes already completed is in completed_passes. Thus the fraction of work completed may be estimated as

```
completed_passes + (pass_counter/pass_limit)
-----
total_passes
```

ignoring the fact that the passes may not be equal amounts of work.

When decompressing, pass_limit can even change within a pass, because it depends on the number of scans in the JPEG file, which isn't always known in advance. The computed fraction-of-work-done may jump suddenly (if the library discovers it has overestimated the number of scans) or even decrease (in the opposite case). It is not wise to put great faith in the work estimate.

When using the decompressor's buffered-image mode, the progress monitor work estimate is likely to be completely unhelpful, because the library has no way to know how many output passes will be demanded of it. Currently, the library sets total_passes based on the assumption that there will be one more output pass if the input file end hasn't yet been read (jpeg_input_complete() isn't TRUE), but no more output passes if the file end has been reached when the output pass is started. This means that total_passes will rise as additional output passes are requested. If you have a way of determining the input file size, estimating progress based on the fraction of the file that's been read will probably be more useful than using the library's value.

Memory management

This section covers some key facts about the JPEG library's built-in memory manager. For more info, please read structure.txt's section about the memory manager, and consult the source code if necessary.

All memory and temporary file allocation within the library is done via the memory manager. If necessary, you can replace the "back end" of the memory manager to control allocation yourself (for example, if you don't want the library to use malloc() and free() for some reason).

Some data is allocated "permanently" and will not be freed until the JPEG object is destroyed. Most data is allocated "per image" and is freed by `jpeg_finish_compress`, `jpeg_finish_decompress`, or `jpeg_abort`. You can call the memory manager yourself to allocate structures that will automatically be freed at these times. Typical code for this is

```
ptr = (*cinfo->mem->alloc_small) ((j_common_ptr) cinfo, JPOOL_IMAGE, size);
```

Use `JPOOL_PERMANENT` to get storage that lasts as long as the JPEG object.

Use `alloc_large` instead of `alloc_small` for anything bigger than a few Kbytes.

There are also `alloc_sarray` and `alloc_barray` routines that automatically build 2-D sample or block arrays.

The library's minimum space requirements to process an image depend on the image's width, but not on its height, because the library ordinarily works with "strip" buffers that are as wide as the image but just a few rows high. Some operating modes (eg, two-pass color quantization) require full-image buffers. Such buffers are treated as "virtual arrays": only the current strip need be in memory, and the rest can be swapped out to a temporary file.

If you use the simplest memory manager back end (`jmemnobs.c`), then no temporary files are used; virtual arrays are simply `malloc()`'d. Images bigger than memory can be processed only if your system supports virtual memory. The other memory manager back ends support temporary files of various flavors and thus work in machines without virtual memory. They may also be useful on Unix machines if you need to process images that exceed available swap space.

When using temporary files, the library will make the in-memory buffers for its virtual arrays just big enough to stay within a "maximum memory" setting. Your application can set this limit by setting `cinfo->mem->max_memory_to_use` after creating the JPEG object. (Of course, there is still a minimum size for the buffers, so the max-memory setting is effective only if it is bigger than the minimum space needed.) If you allocate any large structures yourself, you must allocate them before `jpeg_start_compress()` or `jpeg_start_decompress()` in order to have them counted against the max memory limit. Also keep in mind that space allocated with `alloc_small()` is ignored, on the assumption that it's too small to be worth worrying about; so a reasonable safety margin should be left when setting `max_memory_to_use`.

If you use the `jmemname.c` or `jmemdos.c` memory manager back end, it is important to clean up the JPEG object properly to ensure that the temporary files get deleted. (This is especially crucial with `jmemdos.c`, where the "temporary files" may be extended-memory segments; if they are not freed, DOS will require a reboot to recover the memory.) Thus, with these memory managers, it's a good idea to provide a signal handler that will trap any early exit from your program. The handler should call either `jpeg_abort()` or `jpeg_destroy()` for any active JPEG objects. A handler is not needed with `jmemnobs.c`, and shouldn't be necessary with `jmemansi.c` or `jmemmac.c` either, since the C library is supposed to take care of deleting files made with `tmpfile()`.

Memory usage

Working memory requirements while performing compression or decompression depend on image dimensions, image characteristics (such as colorspace and JPEG process), and operating mode (application-selected options).

As of v6b, the decompressor requires:

1. About 24K in more-or-less-fixed-size data. This varies a bit depending on operating mode and image characteristics (particularly color vs. grayscale), but it doesn't depend on image dimensions.
2. Strip buffers (of size proportional to the image width) for IDCT and upsampling results. The worst case for commonly used sampling factors is about 34 bytes * width in pixels for a color image. A grayscale image only needs about 8 bytes per pixel column.
3. A full-image DCT coefficient buffer is needed to decode a multi-scan JPEG file (including progressive JPEGs), or whenever you select buffered-image mode. This takes 2 bytes/coefficient. At typical 2x2 sampling, that's 3 bytes per pixel for a color image. Worst case (1x1 sampling) requires 6 bytes/pixel. For grayscale, figure 2 bytes/pixel.
4. To perform 2-pass color quantization, the decompressor also needs a 128K color lookup table and a full-image pixel buffer (3 bytes/pixel). This does not count any memory allocated by the application, such as a buffer to hold the final output image.

The above figures are valid for 8-bit JPEG data precision and a machine with 32-bit ints. For 9-bit to 12-bit JPEG data, double the size of the strip buffers and quantization pixel buffer. The "fixed-size" data will be somewhat smaller with 16-bit ints, larger with 64-bit ints. Also, CMYK or other unusual color spaces will require different amounts of space.

The full-image coefficient and pixel buffers, if needed at all, do not have to be fully RAM resident; you can have the library use temporary files instead when the total memory usage would exceed a limit you set. (But if your OS supports virtual memory, it's probably better to just use `jmemnobs` and let the OS do the swapping.)

The compressor's memory requirements are similar, except that it has no need for color quantization. Also, it needs a full-image DCT coefficient buffer if Huffman-table optimization is asked for, even if progressive mode is not requested.

If you need more detailed information about memory usage in a particular situation, you can enable the `MEM_STATS` code in `jmemmgr.c`.

Library compile-time options

A number of compile-time options are available by modifying `jmorecfg.h`.

The IJG code currently supports 8-bit to 12-bit sample data precision by defining `BITS_IN_JSAMPLE` as 8, 9, 10, 11, or 12.

Note that a value larger than 8 causes `JSAMPLE` to be larger than a char, so it affects the surrounding application's image data.

The sample applications `cjpeg` and `djpeg` can support deeper than 8-bit data only for PPM and GIF file formats; you must disable the other file formats to compile a 9-bit to 12-bit `cjpeg` or `djpeg`. (`install.txt` has more information about that.)

Run-time selection and conversion of data precision are currently not supported and may be added later.

Exception: The transcoding part (`jpegtran`) supports all settings in a single instance, since it operates on the level of DCT coefficients and not sample values.

(If you need to include an 8-bit library and a 9-bit to 12-bit library for compression or decompression in a single application, you could probably do it by defining `NEED_SHORT_EXTERNAL_NAMES` for just one of the copies. You'd have to access the 8-bit and the 9-bit to 12-bit copies from separate application source files. This is untested ... if you try it, we'd like to hear whether it works!)

Note that the standard Huffman tables are only valid for 8-bit data precision. If you selected more than 8-bit data precision, `cjpeg` uses arithmetic coding by default. The Huffman encoder normally uses entropy optimization to compute usable tables for higher precision. Otherwise, you'll have to supply different default Huffman tables. You may also want to supply your own DCT quantization tables; the existing quality-scaling code has been developed for 8-bit use, and probably doesn't generate especially good tables for 9-bit to 12-bit.

The maximum number of components (color channels) in the image is determined by `MAX_COMPONENTS`. The JPEG standard allows up to 255 components, but we expect that few applications will need more than four or so.

On machines with unusual data type sizes, you may be able to improve performance or reduce memory space by tweaking the various typedefs in `jmorecfg.h`. In particular, on some RISC CPUs, access to arrays of "short"s is quite slow; consider trading memory for speed by making `JCOEF`, `INT16`, and `UINT16` be "int" or "unsigned int". `UINT8` is also a candidate to become int. You probably don't want to make `JSAMPLE` be int unless you have lots of memory to burn.

You can reduce the size of the library by compiling out various optional functions. To do this, undefine `xxx_SUPPORTED` symbols as necessary.

You can also save a few K by not having text error messages in the library; the standard error message table occupies about 5Kb. This is particularly reasonable for embedded applications where there's no good way to display a message anyway. To do this, remove the creation of the message table (`jpeg_std_message_table[]`) from `jerror.c`, and alter `format_message` to do something reasonable without it. You could output the numeric value of the message code number, for example. If you do this, you can also save a couple more K by modifying the `TRACEMSn()` macros in `jerror.h` to expand to nothing; you don't need trace capability anyway, right?

Portability considerations

The JPEG library has been written to be extremely portable; the sample applications `cjpeg` and `djpeg` are slightly less so. This section summarizes the design goals in this area. (If you encounter any bugs that cause the library to be less portable than is claimed here, we'd appreciate hearing about them.)

The code works fine on ANSI C, C++, and pre-ANSI C compilers, using any of the popular system include file setups, and some not-so-popular ones too. See `install.txt` for configuration procedures.

The code is not dependent on the exact sizes of the C data types. As distributed, we make the assumptions that

- char is at least 8 bits wide
- short is at least 16 bits wide
- int is at least 16 bits wide
- long is at least 32 bits wide

(These are the minimum requirements of the ANSI C standard.) Wider types will work fine, although memory may be used inefficiently if char is much larger than 8 bits or short is much bigger than 16 bits. The code should work equally well with 16- or 32-bit ints.

In a system where these assumptions are not met, you may be able to make the code work by modifying the typedefs in `jmorecfg.h`. However, you will probably have difficulty if int is less than 16 bits wide, since references to plain int abound in the code.

char can be either signed or unsigned, although the code runs faster if an unsigned char type is available. If char is wider than 8 bits, you will need to redefine `JOCTET` and/or provide custom data source/destination managers so that `JOCTET` represents exactly 8 bits of data on external storage.

The JPEG library proper does not assume ASCII representation of characters. But some of the image file I/O modules in `cjpeg/djpeg` do have ASCII

dependencies in file-header manipulation; so does cjpeg's select_file_type() routine.

The JPEG library does not rely heavily on the C library. In particular, C stdio is used only by the data source/destination modules and the error handler, all of which are application-replaceable. (cjpeg/djpeg are more heavily dependent on stdio.) malloc and free are called only from the memory manager "back end" module, so you can use a different memory allocator by replacing that one file.

The code generally assumes that C names must be unique in the first 15 characters. However, global function names can be made unique in the first 6 characters by defining NEED_SHORT_EXTERNAL_NAMES.

More info about porting the code may be gleaned by reading jconfig.txt, jmorecfg.h, and jinclude.h.

Notes for MS-DOS implementors

The IJG code is designed to work efficiently in 80x86 "small" or "medium" memory models (i.e., data pointers are 16 bits unless explicitly declared "far"; code pointers can be either size). You may be able to use small model to compile cjpeg or djpeg by itself, but you will probably have to use medium model for any larger application. This won't make much difference in performance. You *will* take a noticeable performance hit if you use a large-data memory model (perhaps 10%-25%), and you should avoid "huge" model if at all possible.

The JPEG library typically needs 2Kb-3Kb of stack space. It will also malloc about 20K-30K of near heap space while executing (and lots of far heap, but that doesn't count in this calculation). This figure will vary depending on selected operating mode, and to a lesser extent on image size. There is also about 5Kb-6Kb of constant data which will be allocated in the near data segment (about 4Kb of this is the error message table). Thus you have perhaps 20K available for other modules' static data and near heap space before you need to go to a larger memory model. The C library's static data will account for several K of this, but that still leaves a good deal for your needs. (If you are tight on space, you could reduce the sizes of the I/O buffers allocated by jdatasrc.c and jdatadst.c, say from 4K to 1K. Another possibility is to move the error message table to far memory; this should be doable with only localized hacking on jerror.c.)

About 2K of the near heap space is "permanent" memory that will not be released until you destroy the JPEG object. This is only an issue if you save a JPEG object between compression or decompression operations.

Far data space may also be a tight resource when you are dealing with large images. The most memory-intensive case is decompression with two-pass color quantization, or single-pass quantization to an externally supplied color map. This requires a 128Kb color lookup table plus strip buffers amounting to about 40 bytes per column for typical sampling ratios (eg, about 25600 bytes for a 640-pixel-wide image). You may not be able to process wide images if you have large data structures of your own.

Of course, all of these concerns vanish if you use a 32-bit flat-memory-model compiler, such as DJGPP or Watcom C. We highly recommend flat model if you can use it; the JPEG library is significantly faster in flat model.

Found in path(s):

```
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/libjpeg.txt
```

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

```
/*
```

```
* transupp.c
```

```
*
```

```
* Copyright (C) 1997-2017, Thomas G. Lane, Guido Vollbeding.
```

```
* This file is part of the Independent JPEG Group's software.
```

```
* For conditions of distribution and use, see the accompanying README file.
```

```
*
```

```
* This file contains image transformation routines and other utility code
```

```
* used by the jpegtran sample application. These are NOT part of the core
```

```
* JPEG library. But we keep these routines separate from jpegtran.c to
```

```
* ease the task of maintaining jpegtran-like programs that have other user
```

```
* interfaces.
```

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/transupp.c
```

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

```
/*
```

```
* jdhuft.c
```

```
*
```

```
* Copyright (C) 1991-1997, Thomas G. Lane.
```

```
* Modified 2006-2016 by Guido Vollbeding.
```

```
* This file is part of the Independent JPEG Group's software.
```

```
* For conditions of distribution and use, see the accompanying README file.
```

```
*
```

```
* This file contains Huffman entropy decoding routines.
```

```
* Both sequential and progressive modes are supported in this single module.
```

```
*
```

```
* Much of the complexity here has to do with supporting input suspension.
```

```
* If the data source module demands suspension, we want to be able to back
```

```
* up to the start of the current MCU. To do this, we copy state variables
```

- * into local working storage, and update them back to the permanent
- * storage only upon successful completion of an MCU.
- */

Found in path(s):

*/opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jdhuff.c

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/*

* jidctint.c

*

* Copyright (C) 1991-1998, Thomas G. Lane.

* Modification developed 2002-2016 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains a slow-but-accurate integer implementation of the

* inverse DCT (Discrete Cosine Transform). In the IJG code, this routine

* must also perform dequantization of the input coefficients.

*

* A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT

* on each row (or vice versa, but it's more convenient to emit a row at

* a time). Direct algorithms are also available, but they are much more

* complex and seem not to be any faster when reduced to code.

*

* This implementation is based on an algorithm described in

* C. Loeffler, A. Ligtenberg and G. Moschytz, "Practical Fast 1-D DCT

* Algorithms with 11 Multiplications", Proc. Int'l. Conf. on Acoustics,

* Speech, and Signal Processing 1989 (ICASSP '89), pp. 988-991.

* The primary algorithm described there uses 11 multiplies and 29 adds.

* We use their alternate method with 12 multiplies and 32 adds.

* The advantage of this method is that no data path contains more than one

* multiplication; this allows a very simple and accurate implementation in

* scaled fixed-point arithmetic, with a minimal number of shifts.

*

* We also provide IDCT routines with various output sample block sizes for

* direct resolution reduction or enlargement and for direct resolving the

* common 2x1 and 1x2 subsampling cases without additional resampling: NxN

* (N=1...16), 2NxN, and Nx2N (N=1...8) pixels for one 8x8 input DCT block.

*

* For N<8 we simply take the corresponding low-frequency coefficients of

* the 8x8 input DCT block and apply an NxN point IDCT on the sub-block

* to yield the downsampled outputs.

* This can be seen as direct low-pass downsampling from the DCT domain

* point of view rather than the usual spatial domain point of view,

* yielding significant computational savings and results at least

* as good as common bilinear (averaging) spatial downsampling.

*

* For N>8 we apply a partial NxN IDCT on the 8 input coefficients as
* lower frequencies and higher frequencies assumed to be zero.
* It turns out that the computational effort is similar to the 8x8 IDCT
* regarding the output size.
* Furthermore, the scaling and descaling is the same for all IDCT sizes.
*
* CAUTION: We rely on the FIX() macro except for the N=1,2,4,8 cases
* since there would be too many additional constants to pre-calculate.
*/

Found in path(s):

* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jidctint.c
No license file was found, but licenses were detected in source scan.

/*

* jcapistd.c

*

* Copyright (C) 1994-1996, Thomas G. Lane.

* Modified 2013 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains application interface code for the compression half

* of the JPEG library. These are the "standard" API routines that are

* used in the normal full-compression case. They are not used by a

* transcoding-only application. Note that if an application links in

* jpeg_start_compress, it will end up linking in the entire compressor.

* We thus must separate this file from jcapimin.c to avoid linking the

* whole compression library into a transcoder.

*/

Found in path(s):

* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jcapistd.c
No license file was found, but licenses were detected in source scan.

/*

* jpegint.h

*

* Copyright (C) 1991-1997, Thomas G. Lane.

* Modified 1997-2017 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file provides common declarations for the various JPEG modules.

* These declarations are considered internal to the JPEG library; most

* applications using the library shouldn't need to include this file.

*/

Found in path(s):

* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jpegint.h

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

/*

* rdswitch.c

*

* Copyright (C) 1991-1996, Thomas G. Lane.

* Modified 2003-2015 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains routines to process some of cjpeg's more complicated

* command-line switches. Switches processed here are:

* -qtables file Read quantization tables from text file

* -scans file Read scan script from text file

* -quality N[,N,...] Set quality ratings

* -qslots N[,N,...] Set component quantization table selectors

* -sample HxV[,HxV,...] Set component sampling factors

*/

Found in path(s):

* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/rdswitch.c

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

/*

* jcmaster.c

*

* Copyright (C) 1991-1997, Thomas G. Lane.

* Modified 2003-2017 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains master control logic for the JPEG compressor.

* These routines are concerned with parameter validation, initial setup,

* and inter-pass control (determining the number of passes and the work

* to be done in each pass).

*/

Found in path(s):

* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jcmaster.c

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

/*

* rdcolmap.c

*

* Copyright (C) 1994-1996, Thomas G. Lane.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file implements djpeg's "-map file" switch. It reads a source image

* and constructs a colormap to be supplied to the JPEG decompressor.

*

* Currently, these file formats are supported for the map file:

* GIF: the contents of the GIF's global colormap are used.

* PPM (either text or raw flavor): the entire file is read and

* each unique pixel value is entered in the map.

* Note that reading a large PPM file will be horrendously slow.

* Typically, a PPM-format map file should contain just one pixel

* of each desired color. Such a file can be extracted from an

* ordinary image PPM file with ppmtomap(1).

*

* Rescaling a PPM that has a maxval unequal to MAXJSAMPLE is not

* currently implemented.

*/

/* Portions of this code are based on the PBMPLUS library, which is:

**

** Copyright (C) 1988 by Jef Poskanzer.

**

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** documentation for any purpose and without fee is hereby granted, provided

** that the above copyright notice appear in all copies and that both that

** copyright notice and this permission notice appear in supporting

** documentation. This software is provided "as is" without express or

** implied warranty.

*/

Found in path(s):

* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/rdcolmap.c

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

/*

* jcomapi.c

*

* Copyright (C) 1994-1997, Thomas G. Lane.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains application interface routines that are used for both

* compression and decompression.

*/

Found in path(s):

* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jcomapi.c

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

```
/*
 * cjpeg.c
 *
 * Copyright (C) 1991-1998, Thomas G. Lane.
 * Modified 2003-2013 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a command-line user interface for the JPEG compressor.
 * It should work on any system with Unix- or MS-DOS-style command lines.
 *
 * Two different command line styles are permitted, depending on the
 * compile-time switch TWO_FILE_COMMANDLINE:
 * cjpeg [options] inputfile outputfile
 * cjpeg [options] [inputfile]
 * In the second style, output is always to standard output, which you'd
 * normally redirect to a file or pipe to some other program. Input is
 * either from a named file or from standard input (typically redirected).
 * The second style is convenient on Unix but is unhelpful on systems that
 * don't support pipes. Also, you MUST use the first style if your system
 * doesn't do binary I/O to stdin/stdout.
 * To simplify script writing, the "-outfile" switch is provided. The syntax
 * cjpeg [options] -outfile outputfile inputfile
 * works regardless of which command line style is used.
 */
```

Found in path(s):

```
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/cjpeg.c
No license file was found, but licenses were detected in source scan.
```

```
/*
 * jdcoefct.c
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * Modified 2002-2011 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the coefficient buffer controller for decompression.
 * This controller is the top level of the JPEG decompressor proper.
 * The coefficient buffer lies between entropy decoding and inverse-DCT steps.
 *
 * In buffered-image mode, this controller is the interface between
 * input-oriented processing and output-oriented processing.
 * Also, the input side (only) is used when reading a file for transcoding.
 */
```

Found in path(s):

* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jdcoefct.c

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

INSTALLATION INSTRUCTIONS for the Independent JPEG Group's JPEG software

Copyright (C) 1991-2017, Thomas G. Lane, Guido Vollbeding.

This file is part of the Independent JPEG Group's software.

For conditions of distribution and use, see the accompanying README file.

This file explains how to configure and install the IJG software. We have tried to make this software extremely portable and flexible, so that it can be adapted to almost any environment. The downside of this decision is that the installation process is complicated. We have provided shortcuts to simplify the task on common systems. But in any case, you will need at least a little familiarity with C programming and program build procedures for your system.

If you are only using this software as part of a larger program, the larger program's installation procedure may take care of configuring the IJG code. For example, Ghostscript's installation script will configure the IJG code. You don't need to read this file if you just want to compile Ghostscript.

If you are on a Unix machine, you may not need to read this file at all.

Try doing

```
./configure
```

```
make
```

```
make test
```

If that doesn't complain, do

```
make install
```

(better do "make -n install" first to see if the makefile will put the files where you want them). Read further if you run into snags or want to customize the code for your system.

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BEFORE YOU START

=====

Before installing the software you must unpack the distributed source code. Since you are reading this file, you have probably already succeeded in this task. However, there is a potential for error if you needed to convert the files to the local standard text file format (for example, if you are on MS-DOS you may have converted LF end-of-line to CR/LF). You must apply such conversion to all the files EXCEPT those whose names begin with "test". The test files contain binary data; if you change them in any way then the self-test will give bad results.

Please check the last section of this file to see if there are hints for the specific machine or compiler you are using.

CONFIGURING THE SOFTWARE

=====

To configure the IJG code for your system, you need to create two files:

- * jconfig.h: contains values for system-dependent #define symbols.
- * Makefile: controls the compilation process.

(On a non-Unix machine, you may create "project files" or some other substitute for a Makefile. jconfig.h is needed in any environment.)

We provide three different ways to generate these files:

- * On a Unix system, you can just run the "configure" script.
- * We provide sample jconfig files and makefiles for popular machines; if your machine matches one of the samples, just copy the right sample files to jconfig.h and Makefile.
- * If all else fails, read the instructions below and make your own files.

Configuring the software using the automatic "configure" script

If you are on a Unix machine, you can just type

```
./configure
```

and let the configure script construct appropriate configuration files.

If you're using "csh" on an old version of System V, you might need to type

```
sh configure
```

instead to prevent csh from trying to execute configure itself.

Expect configure to run for a few minutes, particularly on slower machines; it works by compiling a series of test programs.

Configure was created with GNU Autoconf and it follows the usual conventions

for GNU configure scripts. It makes a few assumptions that you may want to override. You can do this by providing optional switches to configure:

* Configure will build both static and shared libraries, if possible.

If you want to build libjpeg only as a static library, say

```
./configure --disable-shared
```

If you want to build libjpeg only as a shared library, say

```
./configure --disable-static
```

Configure uses GNU libtool to take care of system-dependent shared library building methods.

* Configure will use gcc (GNU C compiler) if it's available, otherwise cc.

To force a particular compiler to be selected, use the CC option, for example

```
./configure CC='cc'
```

The same method can be used to include any unusual compiler switches.

For example, on HP-UX you probably want to say

```
./configure CC='cc -Aa'
```

to get HP's compiler to run in ANSI mode.

* The default CFLAGS setting is "-g" for non-gcc compilers, "-g -O2" for gcc.

You can override this by saying, for example,

```
./configure CFLAGS='-O2'
```

if you want to compile without debugging support.

* Configure will set up the makefile so that "make install" will install files into /usr/local/bin, /usr/local/man, etc. You can specify an installation prefix other than "/usr/local" by giving configure the option "--prefix=PATH".

* If you don't have a lot of swap space, you may need to enable the IJG software's internal virtual memory mechanism. To do this, give the option "--enable-maxmem=N" where N is the default maxmemory limit in megabytes. This is discussed in more detail under "Selecting a memory manager", below. You probably don't need to worry about this on reasonably-sized Unix machines, unless you plan to process very large images.

Configure has some other features that are useful if you are cross-compiling or working in a network of multiple machine types; but if you need those features, you probably already know how to use them.

Configuring the software using one of the supplied jconfig and makefile files

If you have one of these systems, you can just use the provided configuration files:

Makefile jconfig file System and/or compiler

makefile.manx jconfig.manx Amiga, Manx Aztec C
makefile.sas jconfig.sas Amiga, SAS C
makeproj.mac jconfig.mac Apple Macintosh, Metrowerks CodeWarrior
mak*jpeg.st jconfig.st Atari ST/STE/TT, Pure C or Turbo C
makefile.bcc jconfig.bcc MS-DOS or OS/2, Borland C
makefile.dj jconfig.dj MS-DOS, DJGPP (Delorie's port of GNU C)
makefile.mc6 jconfig.mc6 MS-DOS, Microsoft C (16-bit only)
makefile.wat jconfig.wat MS-DOS, OS/2, or Windows NT, Watcom C
makefile.vc jconfig.vc Windows, MS Visual C++
makefile.vs jconfig.vc Windows, MS Visual C++ 6 Developer Studio
make*.vc6
makefile.vs jconfig.vc Windows, Visual Studio 2017 (v15)
make*.v15
makefile.b32 jconfig.vc Windows, Borland C++ 32-bit (bcc32)
makefile.mms jconfig.vms Digital VMS, with MMS software
makefile.vms jconfig.vms Digital VMS, without MMS software

Copy the proper jconfig file to jconfig.h and the makefile to Makefile (or whatever your system uses as the standard makefile name). For more info see the appropriate system-specific hints section near the end of this file.

Configuring the software by hand

First, generate a jconfig.h file. If you are moderately familiar with C, the comments in jconfig.txt should be enough information to do this; just copy jconfig.txt to jconfig.h and edit it appropriately. Otherwise, you may prefer to use the ckconfig.c program. You will need to compile and execute ckconfig.c by hand --- we hope you know at least enough to do that. ckconfig.c may not compile the first try (in fact, the whole idea is for it to fail if anything is going to). If you get compile errors, fix them by editing ckconfig.c according to the directions given in ckconfig.c. Once you get it to run, it will write a suitable jconfig.h file, and will also print out some advice about which makefile to use.

You may also want to look at the canned jconfig files, if there is one for a system similar to yours.

Second, select a makefile and copy it to Makefile (or whatever your system uses as the standard makefile name). The most generic makefiles we provide are

makefile.ansi: if your C compiler supports function prototypes
makefile.unix: if not.

(You have function prototypes if ckconfig.c put "#define HAVE_PROTOTYPES" in jconfig.h.) You may want to start from one of the other makefiles if there is one for a system similar to yours.

Look over the selected Makefile and adjust options as needed. In particular you may want to change the CC and CFLAGS definitions. For instance, if you are using GCC, set CC=gcc. If you had to use any compiler switches to get ckconfig.c to work, make sure the same switches are in CFLAGS.

If you are on a system that doesn't use makefiles, you'll need to set up project files (or whatever you do use) to compile all the source files and link them into executable files cjpeg, djpeg, jpegtran, rdjpgcom, and wrjpgcom. See the file lists in any of the makefiles to find out which files go into each program. Note that the provided makefiles all make a "library" file libjpeg first, but you don't have to do that if you don't want to; the file lists identify which source files are actually needed for compression, decompression, or both. As a last resort, you can make a batch script that just compiles everything and links it all together; makefile.vms is an example of this (it's for VMS systems that have no make-like utility).

Here are comments about some specific configuration decisions you'll need to make:

Command line style

These programs can use a Unix-like command line style which supports redirection and piping, like this:

```
cjpeg inputfile >outputfile
```

```
cjpeg <inputfile >outputfile
```

```
source program | cjpeg >outputfile
```

The simpler "two file" command line style is just

```
cjpeg inputfile outputfile
```

You may prefer the two-file style, particularly if you don't have pipes.

You MUST use two-file style on any system that doesn't cope well with binary data fed through stdin/stdout; this is true for some MS-DOS compilers, for example. If you're not on a Unix system, it's safest to assume you need two-file style. (But if your compiler provides either the Posix-standard fdopen() library routine or a Microsoft-compatible setmode() routine, you can safely use the Unix command line style, by defining USE_FDOPEN or USE_SETMODE respectively.)

To use the two-file style, make jconfig.h say "#define TWO_FILE_COMMANDLINE".

Selecting a memory manager

The IJG code is capable of working on images that are too big to fit in main memory; data is swapped out to temporary files as necessary. However, the code to do this is rather system-dependent. We provide five different memory managers:

* `jmemansi.c` This version uses the ANSI-standard library routine `tmpfile()`, which not all non-ANSI systems have. On some systems `tmpfile()` may put the temporary file in a non-optimal location; if you don't like what it does, use `jmemname.c`.

* `jmemname.c` This version creates named temporary files. For anything except a Unix machine, you'll need to configure the `select_file_name()` routine appropriately; see the comments near the head of `jmemname.c`. If you use this version, define `NEED_SIGNAL_CATCHER` in `jconfig.h` to make sure the temp files are removed if the program is aborted.

* `jmemnobs.c` (That stands for No Backing Store :-).) This will compile on almost any system, but it assumes you have enough main memory or virtual memory to hold the biggest images you work with.

* `jmemdos.c` This should be used with most 16-bit MS-DOS compilers. See the system-specific notes about MS-DOS for more info. **IMPORTANT:** if you use this, define `USE_MSDOS_MEMMGR` in `jconfig.h`, and include the assembly file `jmemdosa.asm` in the programs. The supplied makefiles and `jconfig` files for 16-bit MS-DOS compilers already do both.

* `jmemmac.c` Custom version for Apple Macintosh; see the system-specific notes for Macintosh for more info.

To use a particular memory manager, change the `SYSDEPMEM` variable in your makefile to equal the corresponding object file name (for example, `jmemansi.o` or `jmemansi.obj` for `jmemansi.c`).

If you have plenty of (real or virtual) main memory, just use `jmemnobs.c`.

"Plenty" means about ten bytes for every pixel in the largest images you plan to process, so a lot of systems don't meet this criterion.

If yours doesn't, try `jmemansi.c` first. If that doesn't compile, you'll have to use `jmemname.c`; be sure to adjust `select_file_name()` for local conditions.

You may also need to change `unlink()` to `remove()` in `close_backing_store()`.

Except with `jmemnobs.c` or `jmemmac.c`, you need to adjust the `DEFAULT_MAX_MEM` setting to a reasonable value for your system (either by adding a `#define` for `DEFAULT_MAX_MEM` to `jconfig.h`, or by adding a `-D` switch to the Makefile).

This value limits the amount of data space the program will attempt to allocate.

Code and static data space isn't counted, so the actual memory needs for `cjpeg` or `djpeg` are typically 100 to 150Kb more than the max-memory setting. Larger max-memory settings reduce the amount of I/O needed to process a large image, but too large a value can result in "insufficient

memory" failures. On most Unix machines (and other systems with virtual

memory), just set `DEFAULT_MAX_MEM` to several million and forget it. At the

other end of the spectrum, for MS-DOS machines you probably can't go much above 300K to 400K. (On MS-DOS the value refers to conventional memory only. Extended/expanded memory is handled separately by jmemdos.c.)

BUILDING THE SOFTWARE

=====

Now you should be able to compile the software. Just say "make" (or whatever's necessary to start the compilation). Have a cup of coffee.

Here are some things that could go wrong:

If your compiler complains about undefined structures, you should be able to shut it up by putting "#define INCOMPLETE_TYPES_BROKEN" in jconfig.h.

If you have trouble with missing system include files or inclusion of the wrong ones, read jinclude.h. This shouldn't happen if you used configure or ckconfig.c to set up jconfig.h.

There are a fair number of routines that do not use all of their parameters; some compilers will issue warnings about this, which you can ignore. There are also a few configuration checks that may give "unreachable code" warnings. Any other warning deserves investigation.

If you don't have a getenv() library routine, define NO_GETENV.

Also see the system-specific hints, below.

TESTING THE SOFTWARE

=====

As a quick test of functionality we've included a small sample image in several forms:

testorig.jpg Starting point for the djpeg tests.

testimg.ppm The output of djpeg testorig.jpg

testimg.bmp The output of djpeg -bmp -colors 256 testorig.jpg

testimg.jpg The output of cjpeg testimg.ppm

testprog.jpg Progressive-mode equivalent of testorig.jpg.

testimgp.jpg The output of cjpeg -progressive -optimize testimg.ppm

(The first- and second-generation .jpg files aren't identical since the default compression parameters are lossy.) If you can generate duplicates of the testimg* files then you probably have working programs.

With most of the makefiles, "make test" will perform the necessary comparisons.

If you're using a makefile that doesn't provide the test option, run `djpeg` and `cjpeg` by hand and compare the output files to `testing*` with whatever binary file comparison tool you have. The files should be bit-for-bit identical.

If the programs complain "MAX_ALLOC_CHUNK is wrong, please fix", then you need to reduce `MAX_ALLOC_CHUNK` to a value that fits in `type size_t`. Try adding `"#define MAX_ALLOC_CHUNK 65520L"` to `jconfig.h`. A less likely configuration error is "ALIGN_TYPE is wrong, please fix": defining `ALIGN_TYPE` as long should take care of that one.

If the `cjpeg` test run fails with "Missing Huffman code table entry", it's a good bet that you needed to define `RIGHT_SHIFT_IS_UNSIGNED`. Go back to the configuration step and run `ckconfig.c`. (This is a good plan for any other test failure, too.)

If you are using Unix (one-file) command line style on a non-Unix system, it's a good idea to check that binary I/O through `stdin/stdout` actually works. You should get the same results from `"djpeg <testorig.jpg >out.ppm"` as from `"djpeg -outfile out.ppm testorig.jpg"`. Note that the makefiles all use the latter style and therefore do not exercise `stdin/stdout`! If this check fails, try recompiling with `USE_SETMODE` or `USE_FDOPEN` defined. If it still doesn't work, better use two-file style.

If you chose a memory manager other than `jmemnobs.c`, you should test that temporary-file usage works. Try `"djpeg -bmp -colors 256 -max 0 testorig.jpg"` and make sure its output matches `testing.bmp`. If you have any really large images handy, try compressing them with `-optimize` and/or decompressing with `-colors 256` to make sure your `DEFAULT_MAX_MEM` setting is not too large.

NOTE: this is far from an exhaustive test of the JPEG software; some modules, such as 1-pass color quantization, are not exercised at all. It's just a quick test to give you some confidence that you haven't missed something major.

INSTALLING THE SOFTWARE

=====

Once you're done with the above steps, you can install the software by copying the executable files (`cjpeg`, `djpeg`, `jpegtran`, `rdjpgcom`, and `wrjpgcom`) to wherever you normally install programs. On Unix systems, you'll also want to put the man pages (`cjpeg.1`, `djpeg.1`, `jpegtran.1`, `rdjpgcom.1`, `wrjpgcom.1`) in the man-page directory. The pre-fab makefiles don't support this step since there's such a wide variety of installation procedures on different systems.

If you generated a Makefile with the "configure" script, you can just say

make install

to install the programs and their man pages into the standard places.
(You'll probably need to be root to do this.) We recommend first saying
make -n install

to see where configure thought the files should go. You may need to edit
the Makefile, particularly if your system's conventions for man page
filenames don't match what configure expects.

If you want to install the IJG library itself, for use in compiling other
programs besides ours, then you need to put the four include files

jpeglib.h jerror.h jconfig.h jmorecfg.h

into your include-file directory, and put the library file libjpeg.a
(extension may vary depending on system) wherever library files go.

If you generated a Makefile with "configure", it will do what it thinks
is the right thing if you say

make install-lib

OPTIONAL STUFF

=====

Progress monitor:

If you like, you can `#define PROGRESS_REPORT` (in `jconfig.h`) to enable display
of percent-done progress reports. The routine provided in `cdjpeg.c` merely
prints percentages to `stderr`, but you can customize it to do something
fancier.

Utah RLE file format support:

We distribute the software with support for RLE image files (Utah Raster
Toolkit format) disabled, because the RLE support won't compile without the
Utah library. If you have URT version 3.1 or later, you can enable RLE
support as follows:

1. `#define RLE_SUPPORTED` in `jconfig.h`.
2. Add a `-I` option to `CFLAGS` in the Makefile for the directory
containing the URT `.h` files (typically the "include"
subdirectory of the URT distribution).
3. Add `-L... -lrle` to `LDLIBS` in the Makefile, where `...` specifies
the directory containing the URT "librle.a" file (typically the
"lib" subdirectory of the URT distribution).

Support for 9-bit to 12-bit deep pixel data:

The IJG code currently allows 8, 9, 10, 11, or 12 bits sample data precision.
(For color, this means 8 to 12 bits per channel, of course.) If you need to
work with deeper than 8-bit data, you can compile the IJG code for 9-bit to
12-bit operation.

To do so:

1. In `jmorcfig.h`, define `BITS_IN_JSAMPLE` as 9, 10, 11, or 12 rather than 8.
2. In `jconfig.h`, undefine `BMP_SUPPORTED`, `RLE_SUPPORTED`, and `TARGA_SUPPORTED`, because the code for those formats doesn't handle deeper than 8-bit data and won't even compile. (The PPM code does work, as explained below. The GIF code works too; it scales 8-bit GIF data to and from 12-bit depth automatically.)
3. Compile. Don't expect "make test" to pass, since the supplied test files are for 8-bit data.

Currently, 9-bit to 12-bit support does not work on 16-bit-int machines.

Run-time selection and conversion of data precision are currently not supported and may be added later.

Exception: The transcoding part (`jpegtran`) supports all settings in a single instance, since it operates on the level of DCT coefficients and not sample values.

The PPM reader (`rdppm.c`) can read deeper than 8-bit data from either text-format or binary-format PPM and PGM files. Binary-format PPM/PGM files which have a `maxval` greater than 255 are assumed to use 2 bytes per sample, MSB first (big-endian order). As of early 1995, 2-byte binary format is not officially supported by the PBMPLUS library, but it is expected that a future release of PBMPLUS will support it. Note that the PPM reader will read files of any `maxval` regardless of the `BITS_IN_JSAMPLE` setting; incoming data is automatically rescaled to `maxval=MAXJSAMPLE` as appropriate for the `cjpeg` bit depth.

The PPM writer (`wrppm.c`) will normally write 2-byte binary PPM or PGM format, `maxval=MAXJSAMPLE`, when compiled with `BITS_IN_JSAMPLE>8`. Since this format is not yet widely supported, you can disable it by compiling `wrppm.c` with `PPM_NORAWWORD` defined; then the data is scaled down to 8 bits to make a standard 1-byte/sample PPM or PGM file. (Yes, this means still another copy of `djpeg` to keep around. But hopefully you won't need it for very long. Poskanzer's supposed to get that new PBMPLUS release out Real Soon Now.)

Of course, if you are working with 9-bit to 12-bit data, you probably have it stored in some other, nonstandard format. In that case you'll probably want to write your own I/O modules to read and write your format.

Note:

The standard Huffman tables are only valid for 8-bit data precision. If you selected more than 8-bit data precision, `cjpeg` uses arithmetic coding by default. The Huffman encoder normally uses entropy optimization to compute usable tables for higher precision. Otherwise, you'll have to supply different default Huffman tables.

Removing code:

If you need to make a smaller version of the JPEG software, some optional functions can be removed at compile time. See the `xxx_SUPPORTED` #defines in `jconfig.h` and `jmorecfg.h`. If at all possible, we recommend that you leave in decoder support for all valid JPEG files, to ensure that you can read anyone's output. Taking out support for image file formats that you don't use is the most painless way to make the programs smaller. Another possibility is to remove some of the DCT methods: in particular, the "IFAST" method may not be enough faster than the others to be worth keeping on your machine. (If you do remove ISLOW or IFAST, be sure to redefine `JDCT_DEFAULT` or `JDCT_FASTEST` to a supported method, by adding a #define in `jconfig.h`.)

OPTIMIZATION

=====

Unless you own a Cray, you'll probably be interested in making the JPEG software go as fast as possible. This section covers some machine-dependent optimizations you may want to try. We suggest that before trying any of this, you first get the basic installation to pass the self-test step. Repeat the self-test after any optimization to make sure that you haven't broken anything.

The integer DCT routines perform a lot of multiplications. These multiplications must yield 32-bit results, but none of their input values are more than 16 bits wide. On many machines, notably the 680x0 and 80x86 CPUs, a 16x16=>32 bit multiply instruction is faster than a full 32x32=>32 bit multiply. Unfortunately there is no portable way to specify such a multiplication in C, but some compilers can generate one when you use the right combination of casts. See the `MULTIPLYxxx` macro definitions in `jdct.h`. If your compiler makes "int" be 32 bits and "short" be 16 bits, defining `SHORTxSHORT_32` is fairly likely to work. When experimenting with alternate definitions, be sure to test not only whether the code still works (use the self-test), but also whether it is actually faster --- on some compilers, alternate definitions may compute the right answer, yet be slower than the default. Timing `cjpeg` on a large PGM (grayscale) input file is the best way to check this, as the DCT will be the largest fraction of the runtime in that mode. (Note: some of the distributed compiler-specific `jconfig` files already contain #define switches to select appropriate `MULTIPLYxxx` definitions.)

If your machine has sufficiently fast floating point hardware, you may find that the float DCT method is faster than the integer DCT methods, even after tweaking the integer multiply macros. In that case you may want to make the float DCT be the default method. (The only objection to this is that float DCT results may vary slightly across machines.) To do that, add `#define JDCT_DEFAULT JDCT_FLOAT` to `jconfig.h`. Even if you don't change the default, you should redefine `JDCT_FASTEST`, which is the method selected

by djpeg's -fast switch. Don't forget to update the documentation files (usage.txt and/or cjpeg.1, djpeg.1) to agree with what you've done.

If access to "short" arrays is slow on your machine, it may be a win to define type JCOEF as int rather than short. This will cost a good deal of memory though, particularly in some multi-pass modes, so don't do it unless you have memory to burn and short is REALLY slow.

If your compiler can compile function calls in-line, make sure the INLINE macro in jmorecfg.h is defined as the keyword that marks a function inline-able. Some compilers have a switch that tells the compiler to inline any function it thinks is profitable (e.g., -finline-functions for gcc). Enabling such a switch is likely to make the compiled code bigger but faster.

In general, it's worth trying the maximum optimization level of your compiler, and experimenting with any optional optimizations such as loop unrolling. (Unfortunately, far too many compilers have optimizer bugs ... be prepared to back off if the code fails self-test.) If you do any experimentation along these lines, please report the optimal settings to jpeg-info@jpegclub.org so we can mention them in future releases. Be sure to specify your machine and compiler version.

HINTS FOR SPECIFIC SYSTEMS

=====

We welcome reports on changes needed for systems not mentioned here. Submit 'em to jpeg-info@jpegclub.org. Also, if configure or ckconfig.c is wrong about how to configure the JPEG software for your system, please let us know.

Acorn RISC OS:

(Thanks to Simon Middleton for these hints on compiling with Desktop C.)

After renaming the files according to Acorn conventions, take a copy of makefile.ansi, change all occurrences of 'libjpeg.a' to 'libjpeg.o' and change these definitions as indicated:

```
CFLAGS= -throwback -IC: -Wn
LDLIBS=C:o.Stubs
SYSDEPMEM=jmemansi.o
LN=Link
AR=LibFile -c -o
```

Also add a new line '.c.o: \$(cc) \$< \$(cflags) -c -o \$@'. Remove the lines '\$(RM) libjpeg.o' and '\$(AR2) libjpeg.o' and the 'jconfig.h' dependency section.

Copy jconfig.txt to jconfig.h. Edit jconfig.h to define TWO_FILE_COMMANDLINE and CHAR_IS_UNSIGNED.

Run the makefile using !AMU not !Make. If you want to use the 'clean' and 'test' makefile entries then you will have to fiddle with the syntax a bit and rename the test files.

Amiga:

SAS C 6.50 reportedly is too buggy to compile the IJG code properly. A patch to update to 6.51 is available from SAS or AmiNet FTP sites.

The supplied config files are set up to use jmemname.c as the memory manager, with temporary files being created on the device named by "JPEGTMP:".

Atari ST/STE/TT:

Copy the project files makcjpeg.st, makdjpeg.st, maktjpeg.st, and makljjpeg.st to cjpeg.prj, djpeg.prj, jpegtran.prj, and libjpeg.prj respectively. The project files should work as-is with Pure C. For Turbo C, change library filenames "pc..." to "tc..." in each project file. Note that libjpeg.prj selects jmemansi.c as the recommended memory manager. You'll probably want to adjust the DEFAULT_MAX_MEM setting --- you want it to be a couple hundred K less than your normal free memory. Put "#define DEFAULT_MAX_MEM nnnn" into jconfig.h to do this.

To use the 68881/68882 coprocessor for the floating point DCT, add the compiler option "-8" to the project files and replace pcfltlb.lib with pc881lib.lib in cjpeg.prj and djpeg.prj. Or if you don't have a coprocessor, you may prefer to remove the float DCT code by undefining DCT_FLOAT_SUPPORTED in jmorecfg.h (since without a coprocessor, the float code will be too slow to be useful). In that case, you can delete pcfltlb.lib from the project files.

Note that you must make libjpeg.lib before making cjpeg.ttp, djpeg.ttp, or jpegtran.ttp. You'll have to perform the self-test by hand.

We haven't bothered to include project files for rdjpgcom and wrjpgcom. Those source files should just be compiled by themselves; they don't depend on the JPEG library. You can use the default.prj project file of the Pure C distribution to make the programs.

There is a bug in some older versions of the Turbo C library which causes the space used by temporary files created with "tmpfile()" not to be freed after an abnormal program exit. If you check your disk afterwards, you will find

cluster chains that are allocated but not used by a file. This should not happen in cjpeg/djpeg/jpegtran, since we enable a signal catcher to explicitly close temp files before exiting. But if you use the JPEG library with your own code, be sure to supply a signal catcher, or else use a different system-dependent memory manager.

Cray:

Should you be so fortunate as to be running JPEG on a Cray YMP, there is a compiler bug in old versions of Cray's Standard C (prior to 3.1). If you still have an old compiler, you'll need to insert a line reading

```
"#pragma novector" just before the loop
```

```
for (i = 1; i <= (int) htbl->bits[i]; i++)
```

```
    huffsize[p++] = (char) i;
```

in fix_huff_tbl (in V5beta1, line 204 of jchuff.c and line 176 of jd Huff.c).

[This bug may or may not still occur with the current IJG code, but it's probably a dead issue anyway...]

HP-UX:

If you have HP-UX 7.05 or later with the "software development" C compiler, you should run the compiler in ANSI mode. If using the configure script, say

```
./configure CC='cc -Aa'
```

(or -Ae if you prefer). If configuring by hand, use makefile.ansi and add "-Aa" to the CFLAGS line in the makefile.

If you have a pre-7.05 system, or if you are using the non-ANSI C compiler delivered with a minimum HP-UX system, then you must use makefile.unix (and do NOT add -Aa); or just run configure without the CC option.

On HP 9000 series 800 machines, the HP C compiler is buggy in revisions prior to A.08.07. If you get complaints about "not a typedef name", you'll have to use makefile.unix, or run configure without the CC option.

Macintosh, generic comments:

The supplied user-interface files (cjpeg.c, djpeg.c, etc) are set up to provide a Unix-style command line interface. You can use this interface on the Mac by means of the ccommand() library routine provided by Metrowerks CodeWarrior or Think C. This is only appropriate for testing the library, however; to make a user-friendly equivalent of cjpeg/djpeg you'd really want to develop a Mac-style user interface. There isn't a complete example available at the moment, but there are some helpful starting points:

1. Sam Bushell's free "To JPEG" applet provides drag-and-drop conversion to

JPEG under System 7 and later. This only illustrates how to use the compression half of the library, but it does a very nice job of that part. The CodeWarrior source code is available from <http://www.pobox.com/~jsam>.

2. Jim Brunner prepared a Mac-style user interface for both compression and decompression. Unfortunately, it hasn't been updated since IJG v4, and the library's API has changed considerably since then. Still it may be of some help, particularly as a guide to compiling the IJG code under Think C. Jim's code is available from the Info-Mac archives, at sumex-aim.stanford.edu or mirrors thereof; see file `/info-mac/dev/src/jpeg-convert-c.hqx`.

`jmemmac.c` is the recommended memory manager back end for Macintosh. It uses `NewPtr/DisposePtr` instead of `malloc/free`, and has a Mac-specific implementation of `jpeg_mem_available()`. It also creates temporary files that follow Mac conventions. (That part of the code relies on System-7-or-later OS functions. See the comments in `jmemmac.c` if you need to run it on System 6.) NOTE that `USE_MAC_MEMMGR` must be defined in `jconfig.h` to use `jmemmac.c`.

You can also use `jmemnobs.c`, if you don't care about handling images larger than available memory. If you use any memory manager back end other than `jmemmac.c`, we recommend replacing "malloc" and "free" by "NewPtr" and "DisposePtr", because Mac C libraries often have peculiar implementations of `malloc/free`. (For instance, `free()` may not return the freed space to the Mac Memory Manager. This is undesirable for the IJG code because `jmemmgr.c` already clumps space requests.)

Macintosh, Metrowerks CodeWarrior:

The Unix-command-line-style interface can be used by defining `USE_CCOMMAND`. You'll also need to define `TWO_FILE_COMMANDLINE` to avoid `stdin/stdout`. This means that when using the `cjpeg/djpeg` programs, you'll have to type the input and output file names in the "Arguments" text-edit box, rather than using the file radio buttons. (Perhaps `USE_FDOPEN` or `USE_SETMODE` would eliminate the problem, but I haven't heard from anyone who's tried it.)

On 680x0 Macs, Metrowerks defines type "double" as a 10-byte IEEE extended float. `jmemmgr.c` won't like this: it wants `sizeof(ALIGN_TYPE)` to be a power of 2. Add `#define ALIGN_TYPE long` to `jconfig.h` to eliminate the complaint.

The supplied configuration file `jconfig.mac` can be used for your `jconfig.h`; it includes all the recommended symbol definitions. If you have AppleScript installed, you can run the supplied script `makeproj.mac` to create CodeWarrior project files for the library and the testbed applications, then build the library and applications. (Thanks to Dan Sears and Don Agro for this nifty hack, which saves us from trying to maintain CodeWarrior project files as part of the IJG distribution...)

Macintosh, Think C:

The documentation in Jim Brunner's "JPEG Convert" source code (see above) includes detailed build instructions for Think C; it's probably somewhat out of date for the current release, but may be helpful.

If you want to build the minimal command line version, proceed as follows. You'll have to prepare project files for the programs; we don't include any in the distribution since they are not text files. Use the file lists in any of the supplied makefiles as a guide. Also add the ANSI and Unix C libraries in a separate segment. You may need to divide the JPEG files into more than one segment; we recommend dividing compression and decompression modules. Define `USE_CCOMMAND` in `jconfig.h` so that the `ccommand()` routine is called. You must also define `TWO_FILE_COMMANDLINE` because `stdin/stdout` don't handle binary data correctly.

On 680x0 Macs, Think C defines type "double" as a 12-byte IEEE extended float. `jmemmgr.c` won't like this: it wants `sizeof(ALIGN_TYPE)` to be a power of 2. Add `#define ALIGN_TYPE long` to `jconfig.h` to eliminate the complaint.

`jconfig.mac` should work as a `jconfig.h` configuration file for Think C, but the `makeproj.mac` AppleScript script is specific to CodeWarrior. Sorry.

MIPS R3000:

MIPS's `cc` version 1.31 has a rather nasty optimization bug. Don't use `-O` if you have that compiler version. (Use `"cc -V"` to check the version.) Note that the R3000 chip is found in workstations from DEC and others.

MS-DOS, generic comments for 16-bit compilers:

The IJG code is designed to work well in 80x86 "small" or "medium" memory models (i.e., data pointers are 16 bits unless explicitly declared "far"; code pointers can be either size). You may be able to use small model to compile `cjpeg` or `djpeg` by itself, but you will probably have to use medium model for any larger application. This won't make much difference in performance. You *will* take a noticeable performance hit if you use a large-data memory model, and you should avoid "huge" model if at all possible. Be sure that `NEED_FAR_POINTERS` is defined in `jconfig.h` if you use a small-data memory model; be sure it is NOT defined if you use a large-data model. (The supplied makefiles and `jconfig` files for Borland and Microsoft C compile in medium model and define `NEED_FAR_POINTERS`.)

The DOS-specific memory manager, `jmemdos.c`, should be used if possible. It needs some assembly-code routines which are in `jmemdosa.asm`; make sure your makefile assembles that file and includes it in the library. If you

don't have a suitable assembler, you can get pre-assembled object files for jmemdosa by FTP from ftp.uu.net:/graphics/jpeg/jdosaobj.zip. (DOS-oriented distributions of the IJG source code often include these object files.)

When using jmemdos.c, jconfig.h must define USE_MSDOS_MEMMGR and must set MAX_ALLOC_CHUNK to less than 64K (65520L is a typical value). If your C library's far-heap malloc() can't allocate blocks that large, reduce MAX_ALLOC_CHUNK to whatever it can handle.

If you can't use jmemdos.c for some reason --- for example, because you don't have an assembler to assemble jmemdosa.asm --- you'll have to fall back to jmemansi.c or jmemname.c. You'll probably still need to set MAX_ALLOC_CHUNK in jconfig.h, because most DOS C libraries won't malloc() more than 64K at a time. **IMPORTANT:** if you use jmemansi.c or jmemname.c, you will have to compile in a large-data memory model in order to get the right stdio library. Too bad.

wrjpgcom needs to be compiled in large model, because it malloc()s a 64KB work area to hold the comment text. If your C library's malloc can't handle that, reduce MAX_COM_LENGTH as necessary in wrjpgcom.c.

Most MS-DOS compilers treat stdin/stdout as text files, so you must use two-file command line style. But if your compiler has either fdopen() or setmode(), you can use one-file style if you like. To do this, define USE_SETMODE or USE_FDOPEN so that stdin/stdout will be set to binary mode. (USE_SETMODE seems to work with more DOS compilers than USE_FDOPEN.) You should test that I/O through stdin/stdout produces the same results as I/O to explicitly named files... the "make test" procedures in the supplied makefiles do NOT use stdin/stdout.

MS-DOS, generic comments for 32-bit compilers:

None of the above comments about memory models apply if you are using a 32-bit flat-memory-space environment, such as DJGPP or Watcom C. (And you should use one if you have it, as performance will be much better than 8086-compatible code!) For flat-memory-space compilers, do NOT define NEED_FAR_POINTERS, and do NOT use jmemdos.c. Use jmemnobs.c if the environment supplies adequate virtual memory, otherwise use jmemansi.c or jmemname.c.

You'll still need to be careful about binary I/O through stdin/stdout. See the last paragraph of the previous section.

MS-DOS, Borland C:

Be sure to convert all the source files to DOS text format (CR/LF newlines).

Although Borland C will often work OK with unmodified Unix (LF newlines) source files, sometimes it will give bogus compile errors. "Illegal character '#'" is the most common such error. (This is true with Borland C 3.1, but perhaps is fixed in newer releases.)

If you want one-file command line style, just undefine TWO_FILE_COMMANDLINE. jconfig.bcc already includes #define USE_SETMODE to make this work. (fdopen does not work correctly.)

MS-DOS, Microsoft C:

makefile.mc6 works with Microsoft C, DOS Visual C++, etc. It should only be used if you want to build a 16-bit (small or medium memory model) program.

If you want one-file command line style, just undefine TWO_FILE_COMMANDLINE. jconfig.mc6 already includes #define USE_SETMODE to make this work. (fdopen does not work correctly.)

Note that this makefile assumes that the working copy of itself is called "makefile". If you want to call it something else, say "makefile.mak", be sure to adjust the dependency line that reads "\$(RFILE) : makefile". Otherwise the make will fail because it doesn't know how to create "makefile". Worse, some releases of Microsoft's make utilities give an incorrect error message in this situation.

Old versions of MS C fail with an "out of macro expansion space" error because they can't cope with the macro TRACEMS8 (defined in jerror.h). If this happens to you, the easiest solution is to change TRACEMS8 to expand to nothing. You'll lose the ability to dump out JPEG coefficient tables with djpeg -debug -debug, but at least you can compile.

Original MS C 6.0 is very buggy; it compiles incorrect code unless you turn off optimization entirely (remove -O from CFLAGS). 6.00A is better, but it still generates bad code if you enable loop optimizations (-Ol or -Ox).

MS C 8.0 crashes when compiling jquant1.c with optimization switch /Oo ... which is on by default. To work around this bug, compile that one file with /Oo-.

Microsoft Windows (all versions), generic comments:

Some Windows system include files define typedef boolean as "unsigned char". The IJG code also defines typedef boolean, but we make it an "enum" by default. This doesn't affect the IJG programs because we don't import those Windows include files. But if you use the JPEG library in your own program, and some of your program's files import one definition of boolean while some import the

other, you can get all sorts of mysterious problems. A good preventive step is to make the IJG library use "unsigned char" for boolean. To do that, add something like this to your jconfig.h file:

```
/* Define "boolean" as unsigned char, not enum, per Windows custom */
#ifndef __RPCNDR_H__ /* don't conflict if rpcndr.h already read */
typedef unsigned char boolean;
#endif
#ifndef FALSE /* in case these macros already exist */
#define FALSE 0 /* values of boolean */
#endif
#ifndef TRUE
#define TRUE 1
#endif
#define HAVE_BOOLEAN /* prevent jmorecfg.h from redefining it */
```

(This is already in jconfig.vc, by the way.)

windef.h contains the declarations

```
#define far
#define FAR far
```

Since jmorecfg.h tries to define FAR as empty, you may get a compiler warning if you include both jpeglib.h and windef.h (which windows.h includes). To suppress the warning, you can put "#ifndef FAR"/"#endif" around the line "#define FAR" in jmorecfg.h.

(Something like this is already in jmorecfg.h, by the way.)

When using the library in a Windows application, you will almost certainly want to modify or replace the error handler module jerror.c, since our default error handler does a couple of inappropriate things:

1. it tries to write error and warning messages on stderr;
2. in event of a fatal error, it exits by calling exit().

A simple stopgap solution for problem 1 is to replace the line

```
fprintf(stderr, "%s\n", buffer);
```

(in output_message in jerror.c) with

```
MessageBox(GetActiveWindow(),buffer,"JPEG Error",MB_OK|MB_ICONERROR);
```

It's highly recommended that you at least do that much, since otherwise error messages will disappear into nowhere. (Beginning with IJG v6b, this code is already present in jerror.c; just define USE_WINDOWS_MESSAGEBOX in jconfig.h to enable it.)

The proper solution for problem 2 is to return control to your calling application after a library error. This can be done with the setjmp/longjmp technique discussed in libjpeg.txt and illustrated in example.c. (NOTE: some older Windows C compilers provide versions of setjmp/longjmp that don't actually work under Windows. You may need to use the Windows system functions Catch and Throw instead.)

The recommended memory manager under Windows is jmemnobs.c; in other words,

let Windows do any virtual memory management needed. You should NOT use `jmemdos.c` nor `jmemdosa.asm` under Windows.

For Windows 3.1, we recommend compiling in medium or large memory model; for newer Windows versions, use a 32-bit flat memory model. (See the MS-DOS sections above for more info about memory models.) In the 16-bit memory models only, you'll need to put

```
#define MAX_ALLOC_CHUNK 65520L /* Maximum request to malloc() */
```

into `jconfig.h` to limit allocation chunks to 64Kb. (Without that, you'd have to use huge memory model, which slows things down unnecessarily.) `jmemnobs.c` works without modification in large or flat memory models, but to use medium model, you need to modify its `jpeg_get_large` and `jpeg_free_large` routines to allocate far memory. In any case, you might like to replace its calls to `malloc` and `free` with direct calls on Windows memory allocation functions.

You may also want to modify `jdatasrc.c` and `jdatadst.c` to use Windows file operations rather than `fread/fwrite`. This is only necessary if your C compiler doesn't provide a competent implementation of C `stdio` functions.

You might want to tweak the `RGB_xxx` macros in `jmorecfg.h` so that the library will accept or deliver color pixels in BGR sample order, not RGB; BGR order is usually more convenient under Windows. Note that this change will break the sample applications `cjpeg/djpeg`, but the library itself works fine.

Many people want to convert the IJG library into a DLL. This is reasonably straightforward, but watch out for the following:

1. Don't try to compile as a DLL in small or medium memory model; use large model, or even better, 32-bit flat model. Many places in the IJG code assume the address of a local variable is an ordinary (not FAR) pointer; that isn't true in a medium-model DLL.
2. Microsoft C cannot pass file pointers between applications and DLLs. (See Microsoft Knowledge Base, PSS ID Number Q50336.) So `jdatasrc.c` and `jdatadst.c` don't work if you open a file in your application and then pass the pointer to the DLL. One workaround is to make `jdatasrc.c/jdatadst.c` part of your main application rather than part of the DLL.
3. You'll probably need to modify the macros `GLOBAL()` and `EXTERN()` to attach suitable linkage keywords to the exported routine names. Similarly, you'll want to modify `METHODDEF()` and `JMETHOD()` to ensure function pointers are declared in a way that lets application routines be called back through the function pointers. These macros are in `jmorecfg.h`. Typical definitions for a 16-bit DLL are:

```
#define GLOBAL(type) type _far _pascal _loads _export  
#define EXTERN(type) extern type _far _pascal _loads
```

```
#define METHODDEF(type) static type _far _pascal
```

```
#define JMETHOD(type,methodname,arglist) \
```

```
type (_far _pascal *methodname) arglist
```

For a 32-bit DLL you may want something like

```
#define GLOBAL(type) __declspec(dllexport) type
```

```
#define EXTERN(type) extern __declspec(dllexport) type
```

Although not all the GLOBAL routines are actually intended to be called by the application, the performance cost of making them all DLL entry points is negligible.

The unmodified IJG library presents a very C-specific application interface, so the resulting DLL is only usable from C or C++ applications. There has been some talk of writing wrapper code that would present a simpler interface usable from other languages, such as Visual Basic. This is on our to-do list but hasn't been very high priority --- any volunteers out there?

Microsoft Windows, Borland C:

The provided jconfig.bcc should work OK in a 32-bit Windows environment, but you'll need to tweak it in a 16-bit environment (you'd need to define NEED_FAR_POINTERS and MAX_ALLOC_CHUNK). Beware that makefile.bcc will need alteration if you want to use it for Windows --- in particular, you should use jmemnobs.c not jmemdos.c under Windows.

Borland C++ 4.5 fails with an internal compiler error when trying to compile jdmerge.c in 32-bit mode. If enough people complain, perhaps Borland will fix it. In the meantime, the simplest known workaround is to add a redundant definition of the variable range_limit in h2v1_merged_upsample(), at the head of the block that handles odd image width (about line 268 in v6 jdmerge.c):

```
/* If image width is odd, do the last output column separately */
```

```
if (cinfo->output_width & 1) {
```

```
    register JSAMPLE * range_limit = cinfo->sample_range_limit; /* ADD THIS */
```

```
    cb = GETJSAMPLE(*inptr1);
```

Pretty bizarre, especially since the very similar routine h2v2_merged_upsample doesn't trigger the bug.

Recent reports suggest that this bug does not occur with "bcc32a" (the Pentium-optimized version of the compiler).

Another report from a user of Borland C 4.5 was that incorrect code (leading to a color shift in processed images) was produced if any of the following optimization switch combinations were used:

```
-Ot -Og
```

```
-Ot -Op
```

```
-Ot -Om
```

So try backing off on optimization if you see such a problem. (Are there several different releases all numbered "4.5"??)

Microsoft Windows, Microsoft Visual C++:

jconfig.vc should work OK with any Microsoft compiler for a 32-bit memory model. makefile.vc is intended for command-line use. (If you are using the Developer Studio environment, you may prefer the DevStudio project files; see below.)

IJG JPEG 7 adds extern "C" to jpeglib.h. This avoids the need to put extern "C" { ... } around #include "jpeglib.h" in your C++ application. You can also force VC++ to treat the library as C++ code by renaming all the *.c files to *.cpp (and adjusting the makefile to match). In this case you also need to define the symbol DONT_USE_EXTERN_C in the configuration to prevent jpeglib.h from using extern "C".

Microsoft Windows, Microsoft Visual C++ 6 Developer Studio:

We include makefiles that should work as project files in Developer Studio 6.0 or later. There is a library makefile that builds the IJG library as a static Win32 library, and application makefiles that build the sample applications as Win32 console applications. (Even if you only want the library, we recommend building the applications so that you can run the self-test.)

To use:

1. Open the command prompt, change to the main directory and execute the command line
NMAKE /f makefile.vs setup-vc6
This will move jconfig.vc to jconfig.h and makefiles to project files.
(Note that the renaming is critical!)
2. Open the workspace file jpeg.dsw, build the library project.
(If you are using Developer Studio more recent than 6.0, you'll probably get a message saying that the project files are being updated.)
3. Open the workspace file apps.dsw, build the application projects.
4. To perform the self-test, execute the command line
NMAKE /f makefile.vs test-build
5. Move the application .exe files from `app`\Release to an appropriate location on your path.

Microsoft Windows, Visual Studio 2017 (v15):

We include makefiles that should work as project files in Visual Studio 2017 (v15) or later. There is a library makefile that builds the IJG library as a static Win32 library, and application makefiles that build the sample applications as Win32 console applications. (Even if you only want the library, we recommend building the applications so that you can

run the self-test.)

To use:

1. Open the Developer Command Prompt, change to the main directory and execute the command line
NMAKE /f makefile.vs setup-v15
This will move jconfig.vc to jconfig.h and makefiles to project files.
(Note that the renaming is critical!)
2. Open the solution file jpeg.sln, build the library project.
 - a) If you are using Visual Studio more recent than 2017 (v15), you'll probably get a message saying that the project files are being updated.
 - b) If necessary, open the project properties and adapt the Windows Target Platform Version in the Configuration Properties, General section; we support the latest version at the time of release.
3. Open the solution file apps.sln, build the application projects.
4. To perform the self-test, execute the command line
NMAKE /f makefile.vs test-build
5. Move the application .exe files from `app`\Release to an appropriate location on your path.

OS/2, Borland C++:

Watch out for optimization bugs in older Borland compilers; you may need to back off the optimization switch settings. See the comments in makefile.bcc.

SGI:

On some SGI systems, you may need to set "AR2= ar -ts" in the Makefile.

If you are using configure, you can do this by saying

```
./configure RANLIB='ar -ts'
```

This change is not needed on all SGIs. Use it only if the make fails at the stage of linking the completed programs.

On the MIPS R4000 architecture (Indy, etc.), the compiler option "-mips2" reportedly speeds up the float DCT method substantially, enough to make it faster than the default int method (but still slower than the fast int method). If you use -mips2, you may want to alter the default DCT method to be float. To do this, put "#define JDCT_DEFAULT JDCT_FLOAT" in jconfig.h.

VMS:

On an Alpha/VMS system with MMS, be sure to use the "/Marco=Alpha=1"

qualifier with MMS when building the JPEG package.

VAX/VMS v5.5-1 may have problems with the test step of the build procedure reporting differences when it compares the original and test images. If the error points to the last block of the files, it is most likely bogus and may be safely ignored. It seems to be because the files are Stream_LF and Backup/Compare has difficulty with the (presumably) null padded files. This problem was not observed on VAX/VMS v6.1 or AXP/VMS v6.1.

Found in path(s):

* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/install.txt

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

/*

* jcdctmgr.c

*

* Copyright (C) 1994-1996, Thomas G. Lane.

* Modified 2003-2013 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains the forward-DCT management logic.

* This code selects a particular DCT implementation to be used,

* and it performs related housekeeping chores including coefficient

* quantization.

*/

Found in path(s):

* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jcdctmgr.c

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

/*

* jdmerge.c

*

* Copyright (C) 1994-1996, Thomas G. Lane.

* Modified 2013-2017 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains code for merged upsampling/color conversion.

*

* This file combines functions from jdsample.c and jdcolor.c;

* read those files first to understand what's going on.

*

* When the chroma components are to be upsampled by simple replication

* (ie, box filtering), we can save some work in color conversion by

* calculating all the output pixels corresponding to a pair of chroma

* samples at one time. In the conversion equations

```

* R = Y      + K1 * Cr
* G = Y + K2 * Cb + K3 * Cr
* B = Y + K4 * Cb
* only the Y term varies among the group of pixels corresponding to a pair
* of chroma samples, so the rest of the terms can be calculated just once.
* At typical sampling ratios, this eliminates half or three-quarters of the
* multiplications needed for color conversion.
*
* This file currently provides implementations for the following cases:
* YCC => RGB color conversion only (YCbCr or BG_YCC).
* Sampling ratios of 2h1v or 2h2v.
* No scaling needed at upsample time.
* Corner-aligned (non-CCIR601) sampling alignment.
* Other special cases could be added, but in most applications these are
* the only common cases. (For uncommon cases we fall back on the more
* general code in jdsample.c and jdcolor.c.)
*/

```

Found in path(s):

```

* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jdmerge.c
No license file was found, but licenses were detected in source scan.

```

```

/*
* jmemmac.c
*
* Copyright (C) 1992-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* jmemmac.c provides an Apple Macintosh implementation of the system-
* dependent portion of the JPEG memory manager.
*
* If you use jmemmac.c, then you must define USE_MAC_MEMMGR in the
* JPEG_INTERNALS part of jconfig.h.
*
* jmemmac.c uses the Macintosh toolbox routines NewPtr and DisposePtr
* instead of malloc and free. It accurately determines the amount of
* memory available by using CompactMem. Notice that if left to its
* own devices, this code can chew up all available space in the
* application's zone, with the exception of the rather small "slop"
* factor computed in jpeg_mem_available(). The application can ensure
* that more space is left over by reducing max_memory_to_use.
*
* Large images are swapped to disk using temporary files and System 7.0+'s
* temporary folder functionality.
*
* Note that jmemmac.c depends on two features of MacOS that were first
* introduced in System 7: FindFolder and the FSSpec-based calls.

```



```

* If your application uses jmemmac.c and is run under System 6 or earlier,
* and the jpeg library decides it needs a temporary file, it will abort,
* printing error messages about requiring System 7. (If no temporary files
* are created, it will run fine.)
*
* If you want to use jmemmac.c in an application that might be used with
* System 6 or earlier, then you should remove dependencies on FindFolder
* and the FSSpec calls. You will need to replace FindFolder with some
* other mechanism for finding a place to put temporary files, and you
* should replace the FSSpec calls with their HFS equivalents:
*
* FSpDelete -> HDelete
* FSpGetFInfo -> HGetFInfo
* FSpCreate -> HCreate
* FSpOpenDF -> HOpen *** Note: not HOpenDF ***
* FSMakeFSSpec -> (fill in spec by hand.)
*
* (Use HOpen instead of HOpenDF. HOpen is just a glue-interface to PBHOpen,
* which is on all HFS macs. HOpenDF is a System 7 addition which avoids the
* ages-old problem of names starting with a period.)
*
* Contributed by Sam Bushell (jsam@iagu.on.net) and
* Dan Gildor (gyld@in-touch.com).
*/

```

Found in path(s):

```

* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jmemmac.c
No license file was found, but licenses were detected in source scan.

```

```

/*
* jdmainct.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modified 2002-2016 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains the main buffer controller for decompression.
* The main buffer lies between the JPEG decompressor proper and the
* post-processor; it holds downsampled data in the JPEG colorspace.
*
* Note that this code is bypassed in raw-data mode, since the application
* supplies the equivalent of the main buffer in that case.
*/

```

Found in path(s):

```

* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jdmainct.c

```

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

```
/*
 * jdinput.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modified 2002-2013 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains input control logic for the JPEG decompressor.
 * These routines are concerned with controlling the decompressor's input
 * processing (marker reading and coefficient decoding). The actual input
 * reading is done in jdmarker.c, jdhuft.c, and jdarith.c.
 */
```

Found in path(s):

```
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jdinput.c
```

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

```
/*
 * wrtle.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * Modified 2017 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to write output images in RLE format.
 * The Utah Raster Toolkit library is required (version 3.1 or later).
 *
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume output to
 * an ordinary stdio stream.
 *
 * Based on code contributed by Mike Lijewski,
 * with updates from Robert Hutchinson.
 */
```

Found in path(s):

```
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/wrtle.c
```

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

```
/*
 * jmemsys.h
 *
 * Copyright (C) 1992-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
```

* For conditions of distribution and use, see the accompanying README file.
*
* This include file defines the interface between the system-independent
* and system-dependent portions of the JPEG memory manager. No other
* modules need include it. (The system-independent portion is jmemmgr.c;
* there are several different versions of the system-dependent portion.)
*
* This file works as-is for the system-dependent memory managers supplied
* in the IJG distribution. You may need to modify it if you write a
* custom memory manager. If system-dependent changes are needed in
* this file, the best method is to #ifdef them based on a configuration
* symbol supplied in jconfig.h, as we have done with USE_MSDOS_MEMMGR
* and USE_MAC_MEMMGR.
*/

Found in path(s):

* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jmemsys.h

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

/*

* jfdctint.c

*

* Copyright (C) 1991-1996, Thomas G. Lane.

* Modification developed 2003-2015 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains a slow-but-accurate integer implementation of the

* forward DCT (Discrete Cosine Transform).

*

* A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT

* on each column. Direct algorithms are also available, but they are

* much more complex and seem not to be any faster when reduced to code.

*

* This implementation is based on an algorithm described in

* C. Loeffler, A. Ligtenberg and G. Moschytz, "Practical Fast 1-D DCT

* Algorithms with 11 Multiplications", Proc. Int'l. Conf. on Acoustics,

* Speech, and Signal Processing 1989 (ICASSP '89), pp. 988-991.

* The primary algorithm described there uses 11 multiplies and 29 adds.

* We use their alternate method with 12 multiplies and 32 adds.

* The advantage of this method is that no data path contains more than one

* multiplication; this allows a very simple and accurate implementation in

* scaled fixed-point arithmetic, with a minimal number of shifts.

*

* We also provide FDCT routines with various input sample block sizes for

* direct resolution reduction or enlargement and for direct resolving the

* common 2x1 and 1x2 subsampling cases without additional resampling: NxN

* (N=1...16), 2NxN, and Nx2N (N=1...8) pixels for one 8x8 output DCT block.

*
* For N<8 we fill the remaining block coefficients with zero.
* For N>8 we apply a partial N-point FDCT on the input samples, computing
* just the lower 8 frequency coefficients and discarding the rest.
*
* We must scale the output coefficients of the N-point FDCT appropriately
* to the standard 8-point FDCT level by 8/N per 1-D pass. This scaling
* is folded into the constant multipliers (pass 2) and/or final/initial
* shifting.
*
* CAUTION: We rely on the FIX() macro except for the N=1,2,4,8 cases
* since there would be too many additional constants to pre-calculate.
*/

Found in path(s):

* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jfdctint.c
No license file was found, but licenses were detected in source scan.

/*

* jutils.c

*

* Copyright (C) 1991-1996, Thomas G. Lane.
* Modified 2009-2011 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains tables and miscellaneous utility routines needed
* for both compression and decompression.
* Note we prefix all global names with "j" to minimize conflicts with
* a surrounding application.
*/

Found in path(s):

* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jutils.c
No license file was found, but licenses were detected in source scan.

/*

* jdtrans.c

*

* Copyright (C) 1995-1997, Thomas G. Lane.
* Modified 2000-2009 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains library routines for transcoding decompression,
* that is, reading raw DCT coefficient arrays from an input JPEG file.
* The routines in jdapimin.c will also be needed by a transcoder.
*/

Found in path(s):

* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jdtrans.c

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

/*

* jdpostct.c

*

* Copyright (C) 1994-1996, Thomas G. Lane.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains the decompression postprocessing controller.

* This controller manages the upsampling, color conversion, and color

* quantization/reduction steps; specifically, it controls the buffering

* between upsample/color conversion and color quantization/reduction.

*

* If no color quantization/reduction is required, then this module has no

* work to do, and it just hands off to the upsample/color conversion code.

* An integrated upsample/convert/quantize process would replace this module

* entirely.

*/

Found in path(s):

* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jdpostct.c

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

/*

* jmemnobs.c

*

* Copyright (C) 1992-1996, Thomas G. Lane.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file provides a really simple implementation of the system-

* dependent portion of the JPEG memory manager. This implementation

* assumes that no backing-store files are needed: all required space

* can be obtained from malloc().

* This is very portable in the sense that it'll compile on almost anything,

* but you'd better have lots of main memory (or virtual memory) if you want

* to process big images.

* Note that the max_memory_to_use option is ignored by this implementation.

*/

Found in path(s):

* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jmemnobs.c

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

```
/*
 * jmemansi.c
 *
 * Copyright (C) 1992-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file provides a simple generic implementation of the system-
 * dependent portion of the JPEG memory manager. This implementation
 * assumes that you have the ANSI-standard library routine tmpfile().
 * Also, the problem of determining the amount of memory available
 * is shoved onto the user.
 */
```

Found in path(s):

```
*/opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jmemansi.c
No license file was found, but licenses were detected in source scan.
```

```
/*
 * wrjpgcom.c
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * Modified 2015-2017 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a very simple stand-alone application that inserts
 * user-supplied text as a COM (comment) marker in a JFIF file.
 * This may be useful as an example of the minimum logic needed to parse
 * JPEG markers.
 */
```

Found in path(s):

```
*/opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/wrjpgcom.c
No license file was found, but licenses were detected in source scan.
```

```
/*
 * jfdctflt.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modified 2003-2017 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a floating-point implementation of the
 * forward DCT (Discrete Cosine Transform).
 *
 * This implementation should be more accurate than either of the integer
```

* DCT implementations. However, it may not give the same results on all
* machines because of differences in roundoff behavior. Speed will depend
* on the hardware's floating point capacity.
*
* A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT
* on each column. Direct algorithms are also available, but they are
* much more complex and seem not to be any faster when reduced to code.
*
* This implementation is based on Arai, Agui, and Nakajima's algorithm for
* scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
* Japanese, but the algorithm is described in the Pennebaker & Mitchell
* JPEG textbook (see REFERENCES section in file README). The following code
* is based directly on figure 4-8 in P&M.
* While an 8-point DCT cannot be done in less than 11 multiplies, it is
* possible to arrange the computation so that many of the multiplies are
* simple scalings of the final outputs. These multiplies can then be
* folded into the multiplications or divisions by the JPEG quantization
* table entries. The AA&N method leaves only 5 multiplies and 29 adds
* to be done in the DCT itself.
* The primary disadvantage of this method is that with a fixed-point
* implementation, accuracy is lost due to imprecise representation of the
* scaled quantization values. However, that problem does not arise if
* we use floating point arithmetic.
*/

Found in path(s):

* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jfdctflt.c
No license file was found, but licenses were detected in source scan.

/*

* jcparam.c

*

* Copyright (C) 1991-1998, Thomas G. Lane.

* Modified 2003-2013 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains optional default-setting code for the JPEG compressor.

* Applications do not have to use this file, but those that don't use it

* must know a lot more about the innards of the JPEG code.

*/

Found in path(s):

* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jcparam.c
No license file was found, but licenses were detected in source scan.

/*

* jdcolor.c

*
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modified 2011-2017 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains output colorspace conversion routines.
*/

Found in path(s):

* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jdcolor.c
No license file was found, but licenses were detected in source scan.

/*
* jcarith.c
*
* Developed 1997-2013 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains portable arithmetic entropy encoding routines for JPEG
* (implementing the ISO/IEC IS 10918-1 and CCITT Recommendation ITU-T T.81).
*
* Both sequential and progressive modes are supported in this single module.
*
* Suspension is not currently supported in this module.
*/

Found in path(s):

* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jcarith.c
No license file was found, but licenses were detected in source scan.

/*
* rdppm.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modified 2009-2017 by Bill Allombert, Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to read input images in PPM/PGM format.
* The extended 2-byte-per-sample raw PPM/PGM formats are supported.
* The PBMPLUS library is NOT required to compile this software
* (but it is highly useful as a set of PPM image manipulation programs).
*
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume input from
* an ordinary stdio stream. They further assume that reading begins


```
* at the start of the file; start_input may need work if the
* user interface has already read some data (e.g., to determine that
* the file is indeed PPM format).
*/
/* Portions of this code are based on the PBMPLUS library, which is:
**
** Copyright (C) 1988 by Jef Poskanzer.
**
** Permission to use, copy, modify, and distribute this software and its
** documentation for any purpose and without fee is hereby granted, provided
** that the above copyright notice appear in all copies and that both that
** copyright notice and this permission notice appear in supporting
** documentation. This software is provided "as is" without express or
** implied warranty.
*/
```

Found in path(s):

```
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/rdppm.c
No license file was found, but licenses were detected in source scan.
```

```
/*
* jmemname.c
*
* Copyright (C) 1992-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file provides a generic implementation of the system-dependent
* portion of the JPEG memory manager. This implementation assumes that
* you must explicitly construct a name for each temp file.
* Also, the problem of determining the amount of memory available
* is shoved onto the user.
*/
```

Found in path(s):

```
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jmemname.c
No license file was found, but licenses were detected in source scan.
```

```
/*
* jconfig.txt
*
* Copyright (C) 1991-1994, Thomas G. Lane.
* Modified 2009-2013 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file documents the configuration options that are required to
* customize the JPEG software for a particular system.
```

```

*
* The actual configuration options for a particular installation are stored
* in jconfig.h. On many machines, jconfig.h can be generated automatically
* or copied from one of the "canned" jconfig files that we supply. But if
* you need to generate a jconfig.h file by hand, this file tells you how.
*
* DO NOT EDIT THIS FILE --- IT WON'T ACCOMPLISH ANYTHING.
* EDIT A COPY NAMED JCONFIG.H.
*/

/*
* These symbols indicate the properties of your machine or compiler.
* #define the symbol if yes, #undef it if no.
*/

/* Does your compiler support function prototypes?
* (If not, you also need to use ansi2knr, see install.txt)
*/
#define HAVE_PROTOTYPES

/* Does your compiler support the declaration "unsigned char" ?
* How about "unsigned short" ?
*/
#define HAVE_UNSIGNED_CHAR
#define HAVE_UNSIGNED_SHORT

/* Define "void" as "char" if your compiler doesn't know about type void.
* NOTE: be sure to define void such that "void *" represents the most general
* pointer type, e.g., that returned by malloc().
*/
/* #define void char */

/* Define "const" as empty if your compiler doesn't know the "const" keyword.
*/
/* #define const */

/* Define this if an ordinary "char" type is unsigned.
* If you're not sure, leaving it undefined will work at some cost in speed.
* If you defined HAVE_UNSIGNED_CHAR then the speed difference is minimal.
*/
#undef CHAR_IS_UNSIGNED

/* Define this if your system has an ANSI-conforming <stddef.h> file.
*/
#define HAVE_STDDEF_H

/* Define this if your system has an ANSI-conforming <stdlib.h> file.

```

```

*/
#define HAVE_STDLIB_H

/* Define this if your system does not have an ANSI/SysV <string.h>,
 * but does have a BSD-style <strings.h>.
 */
#undef NEED_BSD_STRINGS

/* Define this if your system does not provide typedef size_t in any of the
 * ANSI-standard places (stddef.h, stdlib.h, or stdio.h), but places it in
 * <sys/types.h> instead.
 */
#undef NEED_SYS_TYPES_H

/* For 80x86 machines, you need to define NEED_FAR_POINTERS,
 * unless you are using a large-data memory model or 80386 flat-memory mode.
 * On less brain-damaged CPUs this symbol must not be defined.
 * (Defining this symbol causes large data structures to be referenced through
 * "far" pointers and to be allocated with a special version of malloc.)
 */
#undef NEED_FAR_POINTERS

/* Define this if your linker needs global names to be unique in less
 * than the first 15 characters.
 */
#undef NEED_SHORT_EXTERNAL_NAMES

/* Although a real ANSI C compiler can deal perfectly well with pointers to
 * unspecified structures (see "incomplete types" in the spec), a few pre-ANSI
 * and pseudo-ANSI compilers get confused. To keep one of these bozos happy,
 * define INCOMPLETE_TYPES_BROKEN. This is not recommended unless you
 * actually get "missing structure definition" warnings or errors while
 * compiling the JPEG code.
 */
#undef INCOMPLETE_TYPES_BROKEN

/* Define "boolean" as unsigned char, not enum, on Windows systems.
 */
#ifdef _WIN32
#ifndef __RPCNDR_H__ /* don't conflict if rpcnldr.h already read */
typedef unsigned char boolean;
#endif
#endif
#ifndef FALSE /* in case these macros already exist */
#define FALSE 0 /* values of boolean */
#endif
#ifndef TRUE
#define TRUE 1
#endif

```

```

#define HAVE_BOOLEAN /* prevent jmorecfg.h from redefining it */
#endif

/*
 * The following options affect code selection within the JPEG library,
 * but they don't need to be visible to applications using the library.
 * To minimize application namespace pollution, the symbols won't be
 * defined unless JPEG_INTERNALS has been defined.
 */

#ifndef JPEG_INTERNALS

/* Define this if your compiler implements ">>" on signed values as a logical
 * (unsigned) shift; leave it undefined if ">>" is a signed (arithmetic) shift,
 * which is the normal and rational definition.
 */
#undef RIGHT_SHIFT_IS_UNSIGNED

#endif /* JPEG_INTERNALS */

/*
 * The remaining options do not affect the JPEG library proper,
 * but only the sample applications cjpeg/djpeg (see cjpeg.c, djpeg.c).
 * Other applications can ignore these.
 */

#ifndef JPEG_CJPEG_DJPEG

/* These defines indicate which image (non-JPEG) file formats are allowed. */

#define BMP_SUPPORTED /* BMP image file format */
#define GIF_SUPPORTED /* GIF image file format */
#define PPM_SUPPORTED /* PBMPLUS PPM/PGM image file format */
#undef RLE_SUPPORTED /* Utah RLE image file format */
#define TARGA_SUPPORTED /* Targa image file format */

/* Define this if you want to name both input and output files on the command
 * line, rather than using stdout and optionally stdin. You MUST do this if
 * your system can't cope with binary I/O to stdin/stdout. See comments at
 * head of cjpeg.c or djpeg.c.
 */
#undef TWO_FILE_COMMANDLINE

/* Define this if your system needs explicit cleanup of temporary files.
 * This is crucial under MS-DOS, where the temporary "files" may be areas

```

```
* of extended memory; on most other systems it's not as important.
*/
#undef NEED_SIGNAL_CATCHER

/* By default, we open image files with fopen(...,"rb") or fopen(...,"wb").
* This is necessary on systems that distinguish text files from binary files,
* and is harmless on most systems that don't. If you have one of the rare
* systems that complains about the "b" spec, define this symbol.
*/
#undef DONT_USE_B_MODE

/* Define this if you want percent-done progress reports from cjpeg/djpeg.
*/
#undef PROGRESS_REPORT

#endif /* JPEG_CJPEG_DJPEG */
```

Found in path(s):

```
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jconfig.txt
No license file was found, but licenses were detected in source scan.
```

; For conditions of distribution and use, see the accompanying README file.

Found in path(s):

```
* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jmemdosa.asm
No license file was found, but licenses were detected in source scan.
```

```
/*
* wrbmp.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modified 2017 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to write output images in Microsoft "BMP"
* format (MS Windows 3.x and OS/2 1.x flavors).
* Either 8-bit colormapped or 24-bit full-color format can be written.
* No compression is supported.
*
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume output to
* an ordinary stdio stream.
*
* This code contributed by James Arthur Boucher.
*/
```

Found in path(s):

* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/wrbmp.c

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

/*

* jdmaster.c

*

* Copyright (C) 1991-1997, Thomas G. Lane.

* Modified 2002-2017 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains master control logic for the JPEG decompressor.

* These routines are concerned with selecting the modules to be executed

* and with determining the number of passes and the work to be done in each

* pass.

*/

Found in path(s):

* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jdmaster.c

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

IJG JPEG LIBRARY: SYSTEM ARCHITECTURE

Copyright (C) 1991-2013, Thomas G. Lane, Guido Vollbeding.

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This file provides an overview of the architecture of the IJG JPEG software; that is, the functions of the various modules in the system and the interfaces between modules. For more precise details about any data structure or calling convention, see the include files and comments in the source code.

We assume that the reader is already somewhat familiar with the JPEG standard.

The README file includes references for learning about JPEG. The file libjpeg.txt describes the library from the viewpoint of an application programmer using the library; it's best to read that file before this one.

Also, the file coderules.txt describes the coding style conventions we use.

In this document, JPEG-specific terminology follows the JPEG standard:

A "component" means a color channel, e.g., Red or Luminance.

A "sample" is a single component value (i.e., one number in the image data).

A "coefficient" is a frequency coefficient (a DCT transform output number).

A "block" is an array of samples or coefficients.

An "MCU" (minimum coded unit) is an interleaved set of blocks of size determined by the sampling factors, or a single block in a noninterleaved scan.

We do not use the terms "pixel" and "sample" interchangeably. When we say pixel, we mean an element of the full-size image, while a sample is an element of the downsampled image. Thus the number of samples may vary across components while the number of pixels does not. (This terminology is not used rigorously throughout the code, but it is used in places where confusion would otherwise result.)

*** System features ***

The IJG distribution contains two parts:

- * A subroutine library for JPEG compression and decompression.
- * cjpeg/djpeg, two sample applications that use the library to transform JFIF JPEG files to and from several other image formats.

cjpeg/djpeg are of no great intellectual complexity: they merely add a simple command-line user interface and I/O routines for several uncompressed image formats. This document concentrates on the library itself.

We desire the library to be capable of supporting all JPEG baseline, extended sequential, and progressive DCT processes. The library does not support the hierarchical or lossless processes defined in the standard.

Within these limits, any set of compression parameters allowed by the JPEG spec should be readable for decompression. (We can be more restrictive about what formats we can generate.) Although the system design allows for all parameter values, some uncommon settings are not yet implemented and may never be; nonintegral sampling ratios are the prime example. Furthermore, we treat 8-bit vs. 12-bit data precision as a compile-time switch, not a run-time option, because most machines can store 8-bit pixels much more compactly than 12-bit.

By itself, the library handles only interchange JPEG datastreams --- in particular the widely used JFIF file format. The library can be used by surrounding code to process interchange or abbreviated JPEG datastreams that are embedded in more complex file formats. (For example, libtiff uses this library to implement JPEG compression within the TIFF file format.)

The library includes a substantial amount of code that is not covered by the JPEG standard but is necessary for typical applications of JPEG. These functions preprocess the image before JPEG compression or postprocess it after decompression. They include colorspace conversion, downsampling/upsampling, and color quantization. This code can be omitted if not needed.

A wide range of quality vs. speed tradeoffs are possible in JPEG processing, and even more so in decompression postprocessing. The decompression library provides multiple implementations that cover most of the useful tradeoffs, ranging from very-high-quality down to fast-preview operation. On the compression side we have generally not provided low-quality choices, since

compression is normally less time-critical. It should be understood that the low-quality modes may not meet the JPEG standard's accuracy requirements; nonetheless, they are useful for viewers.

*** Portability issues ***

Portability is an essential requirement for the library. The key portability issues that show up at the level of system architecture are:

1. Memory usage. We want the code to be able to run on PC-class machines with limited memory. Images should therefore be processed sequentially (in strips), to avoid holding the whole image in memory at once. Where a full-image buffer is necessary, we should be able to use either virtual memory or temporary files.
2. Near/far pointer distinction. To run efficiently on 80x86 machines, the code should distinguish "small" objects (kept in near data space) from "large" ones (kept in far data space). This is an annoying restriction, but fortunately it does not impact code quality for less brain-damaged machines, and the source code clutter turns out to be minimal with sufficient use of pointer typedefs.
3. Data precision. We assume that "char" is at least 8 bits, "short" and "int" at least 16, "long" at least 32. The code will work fine with larger data sizes, although memory may be used inefficiently in some cases. However, the JPEG compressed datastream must ultimately appear on external storage as a sequence of 8-bit bytes if it is to conform to the standard. This may pose a problem on machines where char is wider than 8 bits. The library represents compressed data as an array of values of typedef JOCTET. If no data type exactly 8 bits wide is available, custom data source and data destination modules must be written to unpack and pack the chosen JOCTET datatype into 8-bit external representation.

*** System overview ***

The compressor and decompressor are each divided into two main sections: the JPEG compressor or decompressor proper, and the preprocessing or postprocessing functions. The interface between these two sections is the image data that the official JPEG spec regards as its input or output: this data is in the colorspace to be used for compression, and it is downsampled to the sampling factors to be used. The preprocessing and postprocessing steps are responsible for converting a normal image representation to or from this form. (Those few applications that want to deal with YCbCr downsampled data can skip the preprocessing or postprocessing step.)

Looking more closely, the compressor library contains the following main

elements:

Preprocessing:

- * Color space conversion (e.g., RGB to YCbCr).
- * Edge expansion and downsampling. Optionally, this step can do simple smoothing --- this is often helpful for low-quality source data.

JPEG proper:

- * MCU assembly, DCT, quantization.
- * Entropy coding (sequential or progressive, Huffman or arithmetic).

In addition to these modules we need overall control, marker generation, and support code (memory management & error handling). There is also a module responsible for physically writing the output data --- typically this is just an interface to `fwrite()`, but some applications may need to do something else with the data.

The decompressor library contains the following main elements:

JPEG proper:

- * Entropy decoding (sequential or progressive, Huffman or arithmetic).
- * Dequantization, inverse DCT, MCU disassembly.

Postprocessing:

- * Upsampling. Optionally, this step may be able to do more general rescaling of the image.
- * Color space conversion (e.g., YCbCr to RGB). This step may also provide gamma adjustment [currently it does not].
- * Optional color quantization (e.g., reduction to 256 colors).
- * Optional color precision reduction (e.g., 24-bit to 15-bit color).

[This feature is not currently implemented.]

We also need overall control, marker parsing, and a data source module.

The support code (memory management & error handling) can be shared with the compression half of the library.

There may be several implementations of each of these elements, particularly in the decompressor, where a wide range of speed/quality tradeoffs is very useful. It must be understood that some of the best speedups involve merging adjacent steps in the pipeline. For example, upsampling, color space conversion, and color quantization might all be done at once when using a low-quality ordered-dither technique. The system architecture is designed to allow such merging where appropriate.

Note: it is convenient to regard edge expansion (padding to block boundaries) as a preprocessing/postprocessing function, even though the JPEG spec includes it in compression/decompression. We do this because downsampling/upsampling can be simplified a little if they work on padded data: it's not necessary to have special cases at the right and bottom edges. Therefore the interface

buffer is always an integral number of blocks wide and high, and we expect compression preprocessing to pad the source data properly. Padding will occur only to the next block (block_size-sample) boundary. In an interleaved-scan situation, additional dummy blocks may be used to fill out MCUs, but the MCU assembly and disassembly logic will create or discard these blocks internally. (This is advantageous for speed reasons, since we avoid DCTing the dummy blocks. It also permits a small reduction in file size, because the compressor can choose dummy block contents so as to minimize their size in compressed form. Finally, it makes the interface buffer specification independent of whether the file is actually interleaved or not.) Applications that wish to deal directly with the downsampled data must provide similar buffering and padding for odd-sized images.

*** Poor man's object-oriented programming ***

It should be clear by now that we have a lot of quasi-independent processing steps, many of which have several possible behaviors. To avoid cluttering the code with lots of switch statements, we use a simple form of object-style programming to separate out the different possibilities.

For example, two different color quantization algorithms could be implemented as two separate modules that present the same external interface; at runtime, the calling code will access the proper module indirectly through an "object".

We can get the limited features we need while staying within portable C. The basic tool is a function pointer. An "object" is just a struct containing one or more function pointer fields, each of which corresponds to a method name in real object-oriented languages. During initialization we fill in the function pointers with references to whichever module we have determined we need to use in this run. Then invocation of the module is done by indirecting through a function pointer; on most machines this is no more expensive than a switch statement, which would be the only other way of making the required run-time choice. The really significant benefit, of course, is keeping the source code clean and well structured.

We can also arrange to have private storage that varies between different implementations of the same kind of object. We do this by making all the module-specific object structs be separately allocated entities, which will be accessed via pointers in the master compression or decompression struct. The "public" fields or methods for a given kind of object are specified by a commonly known struct. But a module's initialization code can allocate a larger struct that contains the common struct as its first member, plus additional private fields. With appropriate pointer casting, the module's internal functions can access these private fields. (For a simple example, see jdatadst.c, which implements the external interface specified by struct jpeg_destination_mgr, but adds extra fields.)

(Of course this would all be a lot easier if we were using C++, but we are not yet prepared to assume that everyone has a C++ compiler.)

An important benefit of this scheme is that it is easy to provide multiple versions of any method, each tuned to a particular case. While a lot of precalculation might be done to select an optimal implementation of a method, the cost per invocation is constant. For example, the upsampling step might have a "generic" method, plus one or more "hardwired" methods for the most popular sampling factors; the hardwired methods would be faster because they'd use straight-line code instead of for-loops. The cost to determine which method to use is paid only once, at startup, and the selection criteria are hidden from the callers of the method.

This plan differs a little bit from usual object-oriented structures, in that only one instance of each object class will exist during execution. The reason for having the class structure is that on different runs we may create different instances (choose to execute different modules). You can think of the term "method" as denoting the common interface presented by a particular set of interchangeable functions, and "object" as denoting a group of related methods, or the total shared interface behavior of a group of modules.

*** Overall control structure ***

We previously mentioned the need for overall control logic in the compression and decompression libraries. In IJG implementations prior to v5, overall control was mostly provided by "pipeline control" modules, which proved to be large, unwieldy, and hard to understand. To improve the situation, the control logic has been subdivided into multiple modules. The control modules consist of:

1. Master control for module selection and initialization. This has two responsibilities:

1A. Startup initialization at the beginning of image processing.

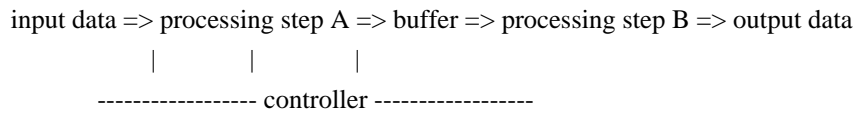
The individual processing modules to be used in this run are selected and given initialization calls.

1B. Per-pass control. This determines how many passes will be performed and calls each active processing module to configure itself appropriately at the beginning of each pass. End-of-pass processing, where necessary, is also invoked from the master control module.

Method selection is partially distributed, in that a particular processing module may contain several possible implementations of a particular method, which it will select among when given its initialization call. The master control code need only be concerned with decisions that affect more than one module.

2. Data buffering control. A separate control module exists for each inter-processing-step data buffer. This module is responsible for invoking the processing steps that write or read that data buffer.

Each buffer controller sees the world as follows:



The controller knows the dataflow requirements of steps A and B: how much data they want to accept in one chunk and how much they output in one chunk. Its function is to manage its buffer and call A and B at the proper times.

A data buffer control module may itself be viewed as a processing step by a higher-level control module; thus the control modules form a binary tree with elementary processing steps at the leaves of the tree.

The control modules are objects. A considerable amount of flexibility can be had by replacing implementations of a control module. For example:

- * Merging of adjacent steps in the pipeline is done by replacing a control module and its pair of processing-step modules with a single processing-step module. (Hence the possible merges are determined by the tree of control modules.)

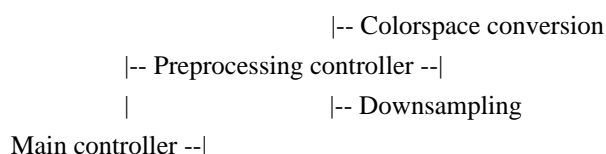
- * In some processing modes, a given interstep buffer need only be a "strip" buffer large enough to accommodate the desired data chunk sizes. In other modes, a full-image buffer is needed and several passes are required.

The control module determines which kind of buffer is used and manipulates virtual array buffers as needed. One or both processing steps may be unaware of the multi-pass behavior.

In theory, we might be able to make all of the data buffer controllers interchangeable and provide just one set of implementations for all. In practice, each one contains considerable special-case processing for its particular job. The buffer controller concept should be regarded as an overall system structuring principle, not as a complete description of the task performed by any one controller.

*** Compression object structure ***

Here is a sketch of the logical structure of the JPEG compression library:



```
|           |-- Forward DCT, quantize
|-- Coefficient controller --|
|           |-- Entropy encoding
```

This sketch also describes the flow of control (subroutine calls) during typical image data processing. Each of the components shown in the diagram is an "object" which may have several different implementations available. One or more source code files contain the actual implementation(s) of each object.

The objects shown above are:

- * Main controller: buffer controller for the subsampled-data buffer, which holds the preprocessed input data. This controller invokes preprocessing to fill the subsampled-data buffer, and JPEG compression to empty it. There is usually no need for a full-image buffer here; a strip buffer is adequate.
- * Preprocessing controller: buffer controller for the downsampling input data buffer, which lies between colorspace conversion and downsampling. Note that a unified conversion/downsampling module would probably replace this controller entirely.
- * Colorspace conversion: converts application image data into the desired JPEG color space; also changes the data from pixel-interleaved layout to separate component planes. Processes one pixel row at a time.
- * Downsampling: performs reduction of chroma components as required. Optionally may perform pixel-level smoothing as well. Processes a "row group" at a time, where a row group is defined as V_{max} pixel rows of each component before downsampling, and V_k sample rows afterwards (remember V_k differs across components). Some downsampling or smoothing algorithms may require context rows above and below the current row group; the preprocessing controller is responsible for supplying these rows via proper buffering. The downsampler is responsible for edge expansion at the right edge (i.e., extending each sample row to a multiple of `block_size` samples); but the preprocessing controller is responsible for vertical edge expansion (i.e., duplicating the bottom sample row as needed to make a multiple of `block_size` rows).
- * Coefficient controller: buffer controller for the DCT-coefficient data. This controller handles MCU assembly, including insertion of dummy DCT blocks when needed at the right or bottom edge. When performing Huffman-code optimization or emitting a multiscan JPEG file, this controller is responsible for buffering the full image. The equivalent of one fully interleaved MCU row of subsampled data is processed per call, even when the JPEG file is noninterleaved.
- * Forward DCT and quantization: Perform DCT, quantize, and emit coefficients. Works on one or more DCT blocks at a time. (Note: the coefficients are now

emitted in normal array order, which the entropy encoder is expected to convert to zigzag order as necessary. Prior versions of the IJG code did the conversion to zigzag order within the quantization step.)

* Entropy encoding: Perform Huffman or arithmetic entropy coding and emit the coded data to the data destination module. Works on one MCU per call. For progressive JPEG, the same DCT blocks are fed to the entropy coder during each pass, and the coder must emit the appropriate subset of coefficients.

In addition to the above objects, the compression library includes these objects:

* Master control: determines the number of passes required, controls overall and per-pass initialization of the other modules.

* Marker writing: generates JPEG markers (except for RSTn, which is emitted by the entropy encoder when needed).

* Data destination manager: writes the output JPEG datastream to its final destination (e.g., a file). The destination manager supplied with the library knows how to write to a stdio stream or to a memory buffer; for other behaviors, the surrounding application may provide its own destination manager.

* Memory manager: allocates and releases memory, controls virtual arrays (with backing store management, where required).

* Error handler: performs formatting and output of error and trace messages; determines handling of nonfatal errors. The surrounding application may override some or all of this object's methods to change error handling.

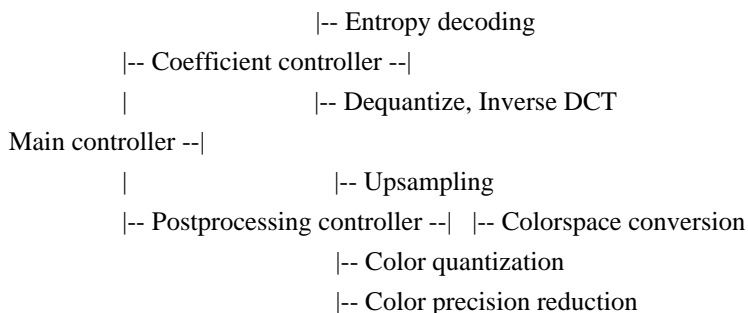
* Progress monitor: supports output of "percent-done" progress reports. This object represents an optional callback to the surrounding application: if wanted, it must be supplied by the application.

The error handler, destination manager, and progress monitor objects are defined as separate objects in order to simplify application-specific customization of the JPEG library. A surrounding application may override individual methods or supply its own all-new implementation of one of these objects. The object interfaces for these objects are therefore treated as part of the application interface of the library, whereas the other objects are internal to the library.

The error handler and memory manager are shared by JPEG compression and decompression; the progress monitor, if used, may be shared as well.

*** Decompression object structure ***

Here is a sketch of the logical structure of the JPEG decompression library:



As before, this diagram also represents typical control flow. The objects shown are:

* Main controller: buffer controller for the subsampled-data buffer, which holds the output of JPEG decompression proper. This controller's primary task is to feed the postprocessing procedure. Some upsampling algorithms may require context rows above and below the current row group; when this is true, the main controller is responsible for managing its buffer so as to make context rows available. In the current design, the main buffer is always a strip buffer; a full-image buffer is never required.

* Coefficient controller: buffer controller for the DCT-coefficient data. This controller handles MCU disassembly, including deletion of any dummy DCT blocks at the right or bottom edge. When reading a multiscan JPEG file, this controller is responsible for buffering the full image. (Buffering DCT coefficients, rather than samples, is necessary to support progressive JPEG.) The equivalent of one fully interleaved MCU row of subsampled data is processed per call, even when the source JPEG file is noninterleaved.

* Entropy decoding: Read coded data from the data source module and perform Huffman or arithmetic entropy decoding. Works on one MCU per call. For progressive JPEG decoding, the coefficient controller supplies the prior coefficients of each MCU (initially all zeroes), which the entropy decoder modifies in each scan.

* Dequantization and inverse DCT: like it says. Note that the coefficients buffered by the coefficient controller have NOT been dequantized; we merge dequantization and inverse DCT into a single step for speed reasons. When scaled-down output is asked for, simplified DCT algorithms may be used that need fewer coefficients and emit fewer samples per DCT block, not the full 8x8. Works on one DCT block at a time.

* Postprocessing controller: buffer controller for the color quantization input buffer, when quantization is in use. (Without quantization, this

controller just calls the upsampler.) For two-pass quantization, this controller is responsible for buffering the full-image data.

- * Upsampling: restores chroma components to full size. (May support more general output rescaling, too. Note that if undersized DCT outputs have been emitted by the DCT module, this module must adjust so that properly sized outputs are created.) Works on one row group at a time. This module also calls the color conversion module, so its top level is effectively a buffer controller for the upsampling->color conversion buffer. However, in all but the highest-quality operating modes, upsampling and color conversion are likely to be merged into a single step.
- * Colorspace conversion: convert from JPEG color space to output color space, and change data layout from separate component planes to pixel-interleaved. Works on one pixel row at a time.
- * Color quantization: reduce the data to colormapped form, using either an externally specified colormap or an internally generated one. This module is not used for full-color output. Works on one pixel row at a time; may require two passes to generate a color map. Note that the output will always be a single component representing colormap indexes. In the current design, the output values are JSAMPLEs, so an 8-bit compilation cannot quantize to more than 256 colors. This is unlikely to be a problem in practice.
- * Color reduction: this module handles color precision reduction, e.g., generating 15-bit color (5 bits/primary) from JPEG's 24-bit output. Not quite clear yet how this should be handled... should we merge it with colorspace conversion???

Note that some high-speed operating modes might condense the entire postprocessing sequence to a single module (upsample, color convert, and quantize in one step).

In addition to the above objects, the decompression library includes these objects:

- * Master control: determines the number of passes required, controls overall and per-pass initialization of the other modules. This is subdivided into input and output control: `jdinput.c` controls only input-side processing, while `jdmaster.c` handles overall initialization and output-side control.
- * Marker reading: decodes JPEG markers (except for RSTn).
- * Data source manager: supplies the input JPEG datastream. The source manager supplied with the library knows how to read from a `stdio` stream or from a memory buffer; for other behaviors, the surrounding application may provide its own source manager.

* Memory manager: same as for compression library.

* Error handler: same as for compression library.

* Progress monitor: same as for compression library.

As with compression, the data source manager, error handler, and progress monitor are candidates for replacement by a surrounding application.

*** Decompression input and output separation ***

To support efficient incremental display of progressive JPEG files, the decompressor is divided into two sections that can run independently:

1. Data input includes marker parsing, entropy decoding, and input into the coefficient controller's DCT coefficient buffer. Note that this processing is relatively cheap and fast.
2. Data output reads from the DCT coefficient buffer and performs the IDCT and all postprocessing steps.

For a progressive JPEG file, the data input processing is allowed to get arbitrarily far ahead of the data output processing. (This occurs only if the application calls `jpeg_consume_input()`; otherwise input and output run in lockstep, since the input section is called only when the output section needs more data.) In this way the application can avoid making extra display passes when data is arriving faster than the display pass can run. Furthermore, it is possible to abort an output pass without losing anything, since the coefficient buffer is read-only as far as the output section is concerned. See `libjpeg.txt` for more detail.

A full-image coefficient array is only created if the JPEG file has multiple scans (or if the application specifies buffered-image mode anyway). When reading a single-scan file, the coefficient controller normally creates only a one-MCU buffer, so input and output processing must run in lockstep in this case. `jpeg_consume_input()` is effectively a no-op in this situation.

The main impact of dividing the decompressor in this fashion is that we must be very careful with shared variables in the `cinfo` data structure. Each variable that can change during the course of decompression must be classified as belonging to data input or data output, and each section must look only at its own variables. For example, the data output section may not depend on any of the variables that describe the current scan in the JPEG file, because these may change as the data input section advances into a new scan.

The progress monitor is (somewhat arbitrarily) defined to treat input of the file as one pass when buffered-image mode is not used, and to ignore data input work completely when buffered-image mode is used. Note that the library has no reliable way to predict the number of passes when dealing with a progressive JPEG file, nor can it predict the number of output passes in buffered-image mode. So the work estimate is inherently bogus anyway.

No comparable division is currently made in the compression library, because there isn't any real need for it.

*** Data formats ***

Arrays of pixel sample values use the following data structure:

```
typedef something JSAMPLE; a pixel component value, 0..MAXJSAMPLE
typedef JSAMPLE *JSAMPROW; ptr to a row of samples
typedef JSAMPROW *JSAMPARRAY; ptr to a list of rows
typedef JSAMPARRAY *JSAMPIMAGE; ptr to a list of color-component arrays
```

The basic element type JSAMPLE will typically be one of unsigned char, (signed) char, or short. Short will be used if samples wider than 8 bits are to be supported (this is a compile-time option). Otherwise, unsigned char is used if possible. If the compiler only supports signed chars, then it is necessary to mask off the value when reading. Thus, all reads of JSAMPLE values must be coded as "GETJSAMPLE(value)", where the macro will be defined as "((value) & 0xFF)" on signed-char machines and "((int) (value))" elsewhere.

With these conventions, JSAMPLE values can be assumed to be ≥ 0 . This helps simplify correct rounding during downsampling, etc. The JPEG standard's specification that sample values run from -128..127 is accommodated by subtracting 128 from the sample value in the DCT step. Similarly, during decompression the output of the IDCT step will be immediately shifted back to 0..255. (NB: different values are required when 12-bit samples are in use. The code is written in terms of MAXJSAMPLE and CENTERJSAMPLE, which will be defined as 255 and 128 respectively in an 8-bit implementation, and as 4095 and 2048 in a 12-bit implementation.)

We use a pointer per row, rather than a two-dimensional JSAMPLE array. This choice costs only a small amount of memory and has several benefits:

- * Code using the data structure doesn't need to know the allocated width of the rows. This simplifies edge expansion/compression, since we can work in an array that's wider than the logical picture width.
- * Indexing doesn't require multiplication; this is a performance win on many machines.
- * Arrays with more than 64K total elements can be supported even on machines where malloc() cannot allocate chunks larger than 64K.
- * The rows forming a component array may be allocated at different times

without extra copying. This trick allows some speedups in smoothing steps that need access to the previous and next rows.

Note that each color component is stored in a separate array; we don't use the traditional layout in which the components of a pixel are stored together. This simplifies coding of modules that work on each component independently, because they don't need to know how many components there are. Furthermore, we can read or write each component to a temporary file independently, which is helpful when dealing with noninterleaved JPEG files.

In general, a specific sample value is accessed by code such as

```
GETJSAMPLE(image[colorcomponent][row][col])
```

where col is measured from the image left edge, but row is measured from the first sample row currently in memory. Either of the first two indexings can be precomputed by copying the relevant pointer.

Since most image-processing applications prefer to work on images in which the components of a pixel are stored together, the data passed to or from the surrounding application uses the traditional convention: a single pixel is represented by N consecutive JSAMPLE values, and an image row is an array of (# of color components)*(image width) JSAMPLEs. One or more rows of data can be represented by a pointer of type JSAMPARRAY in this scheme. This scheme is converted to component-wise storage inside the JPEG library. (Applications that want to skip JPEG preprocessing or postprocessing will have to contend with component-wise storage.)

Arrays of DCT-coefficient values use the following data structure:

```
typedef short JCOEF; a 16-bit signed integer
typedef JCOEF JBLOCK[DCTSIZE2]; an 8x8 block of coefficients
typedef JBLOCK *JBLOCKROW; ptr to one horizontal row of 8x8 blocks
typedef JBLOCKROW *JBLOCKARRAY; ptr to a list of such rows
typedef JBLOCKARRAY *JBLOCKIMAGE; ptr to a list of color component arrays
```

The underlying type is at least a 16-bit signed integer; while "short" is big enough on all machines of interest, on some machines it is preferable to use "int" for speed reasons, despite the storage cost. Coefficients are grouped into 8x8 blocks (but we always use #defines DCTSIZE and DCTSIZE2 rather than "8" and "64").

The contents of a coefficient block may be in either "natural" or zigzagged order, and may be true values or divided by the quantization coefficients, depending on where the block is in the processing pipeline. In the current library, coefficient blocks are kept in natural order everywhere; the entropy codecs zigzag or dezigzag the data as it is written or read. The blocks contain quantized coefficients everywhere outside the DCT/IDCT subsystems.

(This latter decision may need to be revisited to support variable quantization a la JPEG Part 3.)

Notice that the allocation unit is now a row of 8x8 coefficient blocks, corresponding to block_size rows of samples. Otherwise the structure is much the same as for samples, and for the same reasons.

On machines where malloc() can't handle a request bigger than 64Kb, this data structure limits us to rows of less than 512 JBLOCKS, or a picture width of 4000+ pixels. This seems an acceptable restriction.

On 80x86 machines, the bottom-level pointer types (JSAMPROW and JBLOCKROW) must be declared as "far" pointers, but the upper levels can be "near" (implying that the pointer lists are allocated in the DS segment). We use a #define symbol FAR, which expands to the "far" keyword when compiling on 80x86 machines and to nothing elsewhere.

*** Suspendable processing ***

In some applications it is desirable to use the JPEG library as an incremental, memory-to-memory filter. In this situation the data source or destination may be a limited-size buffer, and we can't rely on being able to empty or refill the buffer at arbitrary times. Instead the application would like to have control return from the library at buffer overflow/underrun, and then resume compression or decompression at a later time.

This scenario is supported for simple cases. (For anything more complex, we recommend that the application "bite the bullet" and develop real multitasking capability.) The libjpeg.txt file goes into more detail about the usage and limitations of this capability; here we address the implications for library structure.

The essence of the problem is that the entropy codec (coder or decoder) must be prepared to stop at arbitrary times. In turn, the controllers that call the entropy codec must be able to stop before having produced or consumed all the data that they normally would handle in one call. That part is reasonably straightforward: we make the controller call interfaces include "progress counters" which indicate the number of data chunks successfully processed, and we require callers to test the counter rather than just assume all of the data was processed.

Rather than trying to restart at an arbitrary point, the current Huffman codecs are designed to restart at the beginning of the current MCU after a suspension due to buffer overflow/underrun. At the start of each call, the codec's internal state is loaded from permanent storage (in the JPEG object structures) into local variables. On successful completion of the MCU, the

permanent state is updated. (This copying is not very expensive, and may even lead to *improved* performance if the local variables can be registerized.) If a suspension occurs, the codec simply returns without updating the state, thus effectively reverting to the start of the MCU. Note that this implies leaving some data unprocessed in the source/destination buffer (ie, the compressed partial MCU). The data source/destination module interfaces are specified so as to make this possible. This also implies that the data buffer must be large enough to hold a worst-case compressed MCU; a couple thousand bytes should be enough.

In a successive-approximation AC refinement scan, the progressive Huffman decoder has to be able to undo assignments of newly nonzero coefficients if it suspends before the MCU is complete, since decoding requires distinguishing previously-zero and previously-nonzero coefficients. This is a bit tedious but probably won't have much effect on performance. Other variants of Huffman decoding need not worry about this, since they will just store the same values again if forced to repeat the MCU.

This approach would probably not work for an arithmetic codec, since its modifiable state is quite large and couldn't be copied cheaply. Instead it would have to suspend and resume exactly at the point of the buffer end.

The JPEG marker reader is designed to cope with suspension at an arbitrary point. It does so by backing up to the start of the marker parameter segment, so the data buffer must be big enough to hold the largest marker of interest. Again, a couple KB should be adequate. (A special "skip" convention is used to bypass COM and APPn markers, so these can be larger than the buffer size without causing problems; otherwise a 64K buffer would be needed in the worst case.)

The JPEG marker writer currently does *not* cope with suspension. We feel that this is not necessary; it is much easier simply to require the application to ensure there is enough buffer space before starting. (An empty 2K buffer is more than sufficient for the header markers; and ensuring there are a dozen or two bytes available before calling `jpeg_finish_compress()` will suffice for the trailer.) This would not work for writing multi-scan JPEG files, but we simply do not intend to support that capability with suspension.

*** Memory manager services ***

The JPEG library's memory manager controls allocation and deallocation of memory, and it manages large "virtual" data arrays on machines where the operating system does not provide virtual memory. Note that the same memory manager serves both compression and decompression operations.

In all cases, allocated objects are tied to a particular compression or

decompression master record, and they will be released when that master record is destroyed.

The memory manager does not provide explicit deallocation of objects. Instead, objects are created in "pools" of free storage, and a whole pool can be freed at once. This approach helps prevent storage-leak bugs, and it speeds up operations whenever malloc/free are slow (as they often are). The pools can be regarded as lifetime identifiers for objects. Two pools/lifetimes are defined:

- * JPOOL_PERMANENT lasts until master record is destroyed
- * JPOOL_IMAGE lasts until done with image (JPEG datastream)

Permanent lifetime is used for parameters and tables that should be carried across from one datastream to another; this includes all application-visible parameters. Image lifetime is used for everything else. (A third lifetime, JPOOL_PASS = one processing pass, was originally planned. However it was dropped as not being worthwhile. The actual usage patterns are such that the peak memory usage would be about the same anyway; and having per-pass storage substantially complicates the virtual memory allocation rules --- see below.)

The memory manager deals with three kinds of object:

1. "Small" objects. Typically these require no more than 10K-20K total.
2. "Large" objects. These may require tens to hundreds of K depending on image size. Semantically they behave the same as small objects, but we distinguish them for two reasons:
 - * On MS-DOS machines, large objects are referenced by FAR pointers, small objects by NEAR pointers.
 - * Pool allocation heuristics may differ for large and small objects.Note that individual "large" objects cannot exceed the size allowed by type size_t, which may be 64K or less on some machines.
3. "Virtual" objects. These are large 2-D arrays of JSAMPLEs or JBLOCKS (typically large enough for the entire image being processed). The memory manager provides stripwise access to these arrays. On machines without virtual memory, the rest of the array may be swapped out to a temporary file.

(Note: JSAMPARRAY and JBLOCKARRAY data structures are a combination of large objects for the data proper and small objects for the row pointers. For convenience and speed, the memory manager provides single routines to create these structures. Similarly, virtual arrays include a small control block and a JSAMPARRAY or JBLOCKARRAY working buffer, all created with one call.)

In the present implementation, virtual arrays are only permitted to have image lifespan. (Permanent lifespan would not be reasonable, and pass lifespan is not very useful since a virtual array's raison d'etre is to store data for multiple passes through the image.) We also expect that only "small" objects will be given permanent lifespan, though this restriction is not required by the memory manager.

In a non-virtual-memory machine, some performance benefit can be gained by making the in-memory buffers for virtual arrays be as large as possible. (For small images, the buffers might fit entirely in memory, so blind swapping would be very wasteful.) The memory manager will adjust the height of the buffers to fit within a prespecified maximum memory usage. In order to do this in a reasonably optimal fashion, the manager needs to allocate all of the virtual arrays at once. Therefore, there isn't a one-step allocation routine for virtual arrays; instead, there is a "request" routine that simply allocates the control block, and a "realize" routine (called just once) that determines space allocation and creates all of the actual buffers. The realize routine must allow for space occupied by non-virtual large objects. (We don't bother to factor in the space needed for small objects, on the grounds that it isn't worth the trouble.)

To support all this, we establish the following protocol for doing business with the memory manager:

1. Modules must request virtual arrays (which may have only image lifespan) during the initial setup phase, i.e., in their `jinit_xxx` routines.
 2. All "large" objects (including JSAMPARRAYs and JBLOCKARRAYs) must also be allocated during initial setup.
 3. `realize_virt_arrays` will be called at the completion of initial setup.
- The above conventions ensure that sufficient information is available for it to choose a good size for virtual array buffers.

Small objects of any lifespan may be allocated at any time. We expect that the total space used for small objects will be small enough to be negligible in the `realize_virt_arrays` computation.

In a virtual-memory machine, we simply pretend that the available space is infinite, thus causing `realize_virt_arrays` to decide that it can allocate all the virtual arrays as full-size in-memory buffers. The overhead of the virtual-array access protocol is very small when no swapping occurs.

A virtual array can be specified to be "pre-zeroed"; when this flag is set, never-yet-written sections of the array are set to zero before being made available to the caller. If this flag is not set, never-written sections of the array contain garbage. (This feature exists primarily because the equivalent logic would otherwise be needed in `jdcoefct.c` for progressive JPEG mode; we may as well make it available for possible other uses.)

The first write pass on a virtual array is required to occur in top-to-bottom order; read passes, as well as any write passes after the first one, may access the array in any order. This restriction exists partly to simplify the virtual array control logic, and partly because some file systems may not support seeking beyond the current end-of-file in a temporary file. The main implication of this restriction is that rearrangement of rows (such as converting top-to-bottom data order to bottom-to-top) must be handled while reading data out of the virtual array, not while putting it in.

*** Memory manager internal structure ***

To isolate system dependencies as much as possible, we have broken the memory manager into two parts. There is a reasonably system-independent "front end" (jmemmgr.c) and a "back end" that contains only the code likely to change across systems. All of the memory management methods outlined above are implemented by the front end. The back end provides the following routines for use by the front end (none of these routines are known to the rest of the JPEG code):

jpeg_mem_init, jpeg_mem_term system-dependent initialization/shutdown

jpeg_get_small, jpeg_free_small interface to malloc and free library routines
(or their equivalents)

jpeg_get_large, jpeg_free_large interface to FAR malloc/free in MSDOS machines;
else usually the same as
jpeg_get_small/jpeg_free_small

jpeg_mem_available estimate available memory

jpeg_open_backing_store create a backing-store object

read_backing_store, manipulate a backing-store object
write_backing_store,
close_backing_store

On some systems there will be more than one type of backing-store object (specifically, in MS-DOS a backing store file might be an area of extended memory as well as a disk file). jpeg_open_backing_store is responsible for choosing how to implement a given object. The read/write/close routines are method pointers in the structure that describes a given object; this lets them be different for different object types.

It may be necessary to ensure that backing store objects are explicitly released upon abnormal program termination. For example, MS-DOS won't free extended memory by itself. To support this, we will expect the main program or surrounding application to arrange to call self_destruct (typically via jpeg_destroy) upon abnormal termination. This may require a SIGINT signal handler or equivalent. We don't want to have the back end module install its own signal handler, because that would pre-empt the surrounding application's ability to control signal handling.

The IJG distribution includes several memory manager back end implementations. Usually the same back end should be suitable for all applications on a given system, but it is possible for an application to supply its own back end at need.

*** Implications of DNL marker ***

Some JPEG files may use a DNL marker to postpone definition of the image height (this would be useful for a fax-like scanner's output, for instance). In these files the SOF marker claims the image height is 0, and you only find out the true image height at the end of the first scan.

We could read these files as follows:

1. Upon seeing zero image height, replace it by 65535 (the maximum allowed).
2. When the DNL is found, update the image height in the global image descriptor.

This implies that control modules must avoid making copies of the image height, and must re-test for termination after each MCU row. This would be easy enough to do.

In cases where image-size data structures are allocated, this approach will result in very inefficient use of virtual memory or much-larger-than-necessary temporary files. This seems acceptable for something that probably won't be a mainstream usage. People might have to forgo use of memory-hogging options (such as two-pass color quantization or noninterleaved JPEG files) if they want efficient conversion of such files. (One could improve efficiency by demanding a user-supplied upper bound for the height, less than 65536; in most cases it could be much less.)

The standard also permits the SOF marker to overestimate the image height, with a DNL to give the true, smaller height at the end of the first scan.

This would solve the space problems if the overestimate wasn't too great. However, it implies that you don't even know whether DNL will be used.

This leads to a couple of very serious objections:

1. Testing for a DNL marker must occur in the inner loop of the decompressor's Huffman decoder; this implies a speed penalty whether the feature is used or not.
2. There is no way to hide the last-minute change in image height from an application using the decoder. Thus *every* application using the IJG library would suffer a complexity penalty whether it cared about DNL or not.

We currently do not support DNL because of these problems.

A different approach is to insist that DNL-using files be preprocessed by a separate program that reads ahead to the DNL, then goes back and fixes the SOF marker. This is a much simpler solution and is probably far more efficient. Even if one wants piped input, buffering the first scan of the JPEG file needs a lot smaller temp file than is implied by the maximum-height method. For this approach we'd simply treat DNL as a no-op in the decompressor (at most, check that it matches the SOF image height).

We will not worry about making the compressor capable of outputting DNL. Something similar to the first scheme above could be applied if anyone ever wants to make that work.

Found in path(s):

* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/structure.txt

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

/*

* jmorecfg.h

*

* Copyright (C) 1991-1997, Thomas G. Lane.

* Modified 1997-2013 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains additional configuration options that customize the

* JPEG software for special applications or support machine-dependent

* optimizations. Most users will not need to touch this file.

*/

Found in path(s):

* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jmorecfg.h

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

/*

* jquant1.c

*

* Copyright (C) 1991-1996, Thomas G. Lane.

* Modified 2011 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains 1-pass color quantization (color mapping) routines.

* These routines provide mapping to a fixed color map using equally spaced

* color values. Optional Floyd-Steinberg or ordered dithering is available.

*/

Found in path(s):

* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jquant1.c

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

IJG JPEG LIBRARY: FILE LIST

Copyright (C) 1994-2017, Thomas G. Lane, Guido Vollbeding.

This file is part of the Independent JPEG Group's software.

For conditions of distribution and use, see the accompanying README file.

Here is a road map to the files in the IJG JPEG distribution. The distribution includes the JPEG library proper, plus two application programs ("cjpeg" and "djpeg") which use the library to convert JPEG files to and from some other popular image formats. A third application "jpegtran" uses the library to do lossless conversion between different variants of JPEG. There are also two stand-alone applications, "rdjpgcom" and "wrjpgcom".

THE JPEG LIBRARY

=====

Include files:

jpeglib.h JPEG library's exported data and function declarations.
jconfig.h Configuration declarations. Note: this file is not present in the distribution; it is generated during installation.
jmorecfg.h Additional configuration declarations; need not be changed for a standard installation.
jerror.h Declares JPEG library's error and trace message codes.
jinclude.h Central include file used by all IJG .c files to reference system include files.
jpegint.h JPEG library's internal data structures.
jdct.h Private declarations for forward & reverse DCT subsystems.
jmemsys.h Private declarations for memory management subsystem.
jversion.h Version information.

Applications using the library should include jpeglib.h (which in turn includes jconfig.h and jmorecfg.h). Optionally, jerror.h may be included if the application needs to reference individual JPEG error codes. The other include files are intended for internal use and would not normally be included by an application program. (cjpeg/djpeg/etc do use jinclude.h, since its function is to improve portability of the whole IJG distribution. Most other applications will directly include the system include files they want, and hence won't need jinclude.h.)

C source code files:

These files contain most of the functions intended to be called directly by an application program:

jpegim.c Application program interface: core routines for compression.
jpegstd.c Application program interface: standard compression.
jpegim.c Application program interface: core routines for decompression.
jpegstd.c Application program interface: standard decompression.

jcomapi.c Application program interface routines common to compression and decompression.

jcparam.c Compression parameter setting helper routines.

jctrans.c API and library routines for transcoding compression.

jdtrans.c API and library routines for transcoding decompression.

Compression side of the library:

jcinit.c Initialization: determines which other modules to use.

jcmaster.c Master control: setup and inter-pass sequencing logic.

jcmainct.c Main buffer controller (preprocessor => JPEG compressor).

jcprepct.c Preprocessor buffer controller.

jccoefct.c Buffer controller for DCT coefficient buffer.

jjcolor.c Color space conversion.

jcsample.c Downsampling.

jdctmgr.c DCT manager (DCT implementation selection & control).

jfdctint.c Forward DCT using slow-but-accurate integer method.

jfdctfst.c Forward DCT using faster, less accurate integer method.

jfdctflt.c Forward DCT using floating-point arithmetic.

jchuff.c Huffman entropy coding.

jcarith.c Arithmetic entropy coding.

jcmarker.c JPEG marker writing.

jdatadst.c Data destination managers for memory and stdio output.

Decompression side of the library:

jdmaster.c Master control: determines which other modules to use.

jdinput.c Input controller: controls input processing modules.

jdmainct.c Main buffer controller (JPEG decompressor => postprocessor).

jdcoefct.c Buffer controller for DCT coefficient buffer.

jdpostct.c Postprocessor buffer controller.

jdmarker.c JPEG marker reading.

jdjuff.c Huffman entropy decoding.

jdarith.c Arithmetic entropy decoding.

jdctmgr.c IDCT manager (IDCT implementation selection & control).

jidctint.c Inverse DCT using slow-but-accurate integer method.

jidctfst.c Inverse DCT using faster, less accurate integer method.

jidctflt.c Inverse DCT using floating-point arithmetic.

jdsample.c Upsampling.

jdcolor.c Color space conversion.

jdmerge.c Merged upsampling/color conversion (faster, lower quality).

jquant1.c One-pass color quantization using a fixed-spacing colormap.

jquant2.c Two-pass color quantization using a custom-generated colormap.

Also handles one-pass quantization to an externally given map.

jdatasrc.c Data source managers for memory and stdio input.

Support files for both compression and decompression:

jaricom.c Tables for common use in arithmetic entropy encoding and decoding routines.

jerror.c Standard error handling routines (application replaceable).

jmemmgr.c System-independent (more or less) memory management code.

jutils.c Miscellaneous utility routines.

jmemmgr.c relies on a system-dependent memory management module. The IJG distribution includes the following implementations of the system-dependent module:

jmemnobs.c "No backing store": assumes adequate virtual memory exists.

jmemansi.c Makes temporary files with ANSI-standard routine tmpfile().

jmemname.c Makes temporary files with program-generated file names.

jmemdos.c Custom implementation for MS-DOS (16-bit environment only): can use extended and expanded memory as well as temp files.

jmemmac.c Custom implementation for Apple Macintosh.

Exactly one of the system-dependent modules should be configured into an installed JPEG library (see install.txt for hints about which one to use).

On unusual systems you may find it worthwhile to make a special system-dependent memory manager.

Non-C source code files:

jmemdosa.asm 80x86 assembly code support for jmemdos.c; used only in MS-DOS-specific configurations of the JPEG library.

CJPEG/DJPEG/JPEGTRAN

=====

Include files:

cdjpeg.h Declarations shared by cjpeg/djpeg/jpegtran modules.

cderror.h Additional error and trace message codes for cjpeg et al.

transupp.h Declarations for jpegtran support routines in transupp.c.

C source code files:

cjpeg.c Main program for cjpeg.

djpeg.c Main program for djpeg.

jpegtran.c Main program for jpegtran.

cdjpeg.c Utility routines used by all three programs.

rdcolmap.c Code to read a colormap file for djpeg's "-map" switch.

rdswitch.c Code to process some of cjpeg's more complex switches. Also used by jpegtran.

transupp.c Support code for jpegtran: lossless image manipulations.

Image file reader modules for cjpeg:

rdbmp.c BMP file input.
rdgif.c GIF file input (now just a stub).
rdppm.c PPM/PGM file input.
rdrlc.c Utah RLE file input.
rdtarga.c Targa file input.

Image file writer modules for djpeg:

wrbmp.c BMP file output.
wrgif.c GIF file output (a mere shadow of its former self).
wrppm.c PPM/PGM file output.
wrrlc.c Utah RLE file output.
wrtarga.c Targa file output.

RDJPGCOM/WRJPGCOM

=====

C source code files:

rdjpgcom.c Stand-alone rdjpgcom application.
wrjpgcom.c Stand-alone wrjpgcom application.

These programs do not depend on the IJG library. They do use
jconfig.h and jinclude.h, only to improve portability.

ADDITIONAL FILES

=====

Documentation (see README for a guide to the documentation files):

README Master documentation file.
*.txt Other documentation files.
*.1 Documentation in Unix man page format.
change.log Version-to-version change highlights.
example.c Sample code for calling JPEG library.

Configuration/installation files and programs (see install.txt for more info):

configure Unix shell script to perform automatic configuration.
configure.ac Source file for use with Autoconf to generate configure.
ltmain.sh Support scripts for configure (from GNU libtool).
config.guess
config.sub

depcomp
missing
ar-lib
compile
install-sh Install shell script for those Unix systems lacking one.
Makefile.in Makefile input for configure.
Makefile.am Source file for use with Automake to generate Makefile.in.
ckconfig.c Program to generate jconfig.h on non-Unix systems.
jconfig.txt Template for making jconfig.h by hand.
mak*.* Sample makefiles for particular systems.
jconfig.* Sample jconfig.h for particular systems.
libjpeg.map Script to generate shared library with versioned symbols.
libjpeg.pc.in libjpeg.pc pkg-config file input for configure.
aclocal.m4 M4 macro definitions for use with Autoconf.

Test files (see install.txt for test procedure):

test*.* Source and comparison files for confidence test.
These are binary image files, NOT text files.

Found in path(s):

* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/filelist.txt
No license file was found, but licenses were detected in source scan.

```
/*
 * transupp.h
 *
 * Copyright (C) 1997-2013, Thomas G. Lane, Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains declarations for image transformation routines and
 * other utility code used by the jpegtran sample application. These are
 * NOT part of the core JPEG library. But we keep these routines separate
 * from jpegtran.c to ease the task of maintaining jpegtran-like programs
 * that have other user interfaces.
 *
 * NOTE: all the routines declared here have very specific requirements
 * about when they are to be executed during the reading and writing of the
 * source and destination files. See the comments in transupp.c, or see
 * jpegtran.c for an example of correct usage.
 */
```

Found in path(s):

* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/transupp.h
No license file was found, but licenses were detected in source scan.

```
/*
```

```
* jcmaint.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modified 2003-2012 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains the main buffer controller for compression.
* The main buffer lies between the pre-processor and the JPEG
* compressor proper; it holds downsampled data in the JPEG colorspace.
*/
```

Found in path(s):

```
*/opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jcmaint.c
```

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

```
/*
* jfdctfst.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modified 2003-2017 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains a fast, not so accurate integer implementation of the
* forward DCT (Discrete Cosine Transform).
*
* A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT
* on each column. Direct algorithms are also available, but they are
* much more complex and seem not to be any faster when reduced to code.
*
* This implementation is based on Arai, Agui, and Nakajima's algorithm for
* scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
* Japanese, but the algorithm is described in the Pennebaker & Mitchell
* JPEG textbook (see REFERENCES section in file README). The following code
* is based directly on figure 4-8 in P&M.
*
* While an 8-point DCT cannot be done in less than 11 multiplies, it is
* possible to arrange the computation so that many of the multiplies are
* simple scalings of the final outputs. These multiplies can then be
* folded into the multiplications or divisions by the JPEG quantization
* table entries. The AA&N method leaves only 5 multiplies and 29 adds
* to be done in the DCT itself.
*
* The primary disadvantage of this method is that with fixed-point math,
* accuracy is lost due to imprecise representation of the scaled
* quantization values. The smaller the quantization table entry, the less
* precise the scaled value, so this implementation does worse with high-
* quality-setting files than with low-quality ones.
*/
```


Found in path(s):

* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jfdctfst.c

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

/*

* jchuff.c

*

* Copyright (C) 1991-1997, Thomas G. Lane.

* Modified 2006-2013 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains Huffman entropy encoding routines.

* Both sequential and progressive modes are supported in this single module.

*

* Much of the complexity here has to do with supporting output suspension.

* If the data destination module demands suspension, we want to be able to

* back up to the start of the current MCU. To do this, we copy state

* variables into local working storage, and update them back to the

* permanent JPEG objects only upon successful completion of an MCU.

*

* We do not support output suspension for the progressive JPEG mode, since

* the library currently does not allow multiple-scan files to be written

* with output suspension.

*/

Found in path(s):

* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jchuff.c

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

/*

* rdbmp.c

*

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* Modified 2009-2017 by Guido Vollbeding.

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*

* This file contains routines to read input images in Microsoft "BMP"

* format (MS Windows 3.x, OS/2 1.x, and OS/2 2.x flavors).

* Currently, only 8-, 24-, and 32-bit images are supported, not 1-bit or

* 4-bit (feeding such low-depth images into JPEG would be silly anyway).

* Also, we don't support RLE-compressed files.

*

* These routines may need modification for non-Unix environments or

* specialized applications. As they stand, they assume input from

* an ordinary stdio stream. They further assume that reading begins

* at the start of the file; start_input may need work if the
* user interface has already read some data (e.g., to determine that
* the file is indeed BMP format).
*
* This code contributed by James Arthur Boucher.
*/

Found in path(s):

* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/rdbmp.c
No license file was found, but licenses were detected in source scan.

/*

* jctrans.c

/*

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/*

* This file contains library routines for transcoding compression,

* that is, writing raw DCT coefficient arrays to an output JPEG file.

* The routines in jcapimin.c will also be needed by a transcoder.

*/

Found in path(s):

* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jctrans.c
No license file was found, but licenses were detected in source scan.

The Independent JPEG Group's JPEG software

=====

README for release 9c of 14-Jan-2018

=====

This distribution contains the ninth public release of the Independent JPEG Group's free JPEG software. You are welcome to redistribute this software and to use it for any purpose, subject to the conditions under LEGAL ISSUES, below.

This software is the work of Tom Lane, Guido Vollbeding, Philip Gladstone, Bill Allombert, Jim Boucher, Lee Crocker, Bob Friesenhahn, Ben Jackson, Julian Minguillon, Luis Ortiz, George Phillips, Davide Rossi, Ge' Weijers, and other members of the Independent JPEG Group.

IJG is not affiliated with the ISO/IEC JTC1/SC29/WG1 standards committee (previously known as JPEG, together with ITU-T SG16).

DOCUMENTATION ROADMAP

=====
This file contains the following sections:

OVERVIEW General description of JPEG and the IJG software.
LEGAL ISSUES Copyright, lack of warranty, terms of distribution.
REFERENCES Where to learn more about JPEG.
ARCHIVE LOCATIONS Where to find newer versions of this software.
ACKNOWLEDGMENTS Special thanks.
FILE FORMAT WARS Software *not* to get.
TO DO Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:

install.txt How to configure and install the IJG software.
usage.txt Usage instructions for cjpeg, djpeg, jpegtran,
 rdjpgcom, and wrjpgcom.
*.1 Unix-style man pages for programs (same info as usage.txt).
wizard.txt Advanced usage instructions for JPEG wizards only.
change.log Version-to-version change highlights.

Programmer and internal documentation:

libjpeg.txt How to use the JPEG library in your own programs.
example.c Sample code for calling the JPEG library.
structure.txt Overview of the JPEG library's internal structure.
filelist.txt Road map of IJG files.
coderules.txt Coding style rules --- please read if you contribute code.

Please read at least the files install.txt and usage.txt. Some information can also be found in the JPEG FAQ (Frequently Asked Questions) article. See ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or more of the REFERENCES, then looking at the documentation files (in roughly the order listed) before diving into the code.

OVERVIEW

=====

This package contains C software to implement JPEG image encoding, decoding, and transcoding. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and grayscale images.

This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. We have made no provision for supporting the hierarchical or lossless

processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files, plus two sample applications "cjpeg" and "djpeg", which use the library to perform conversion between JPEG and some other popular image file formats. The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application.

We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments in JFIF files.

The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular, the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.

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The Unix configuration script "configure" was produced with GNU Autoconf. It is copyright by the Free Software Foundation but is freely distributable. The same holds for its supporting scripts (config.guess, config.sub, ltmain.sh). Another support script, install-sh, is copyright by X Consortium but is also freely distributable.

The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent (now expired), GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

REFERENCES

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We recommend reading one or more of these references before trying to understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is Wallace, Gregory K. "The JPEG Still Picture Compression Standard", Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44. (Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PDF file containing a revised version of Wallace's article is available at <http://www.ijg.org/files/Wallace.JPEG.pdf>. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

A somewhat less technical, more leisurely introduction to JPEG can be found in "The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...

The best currently available description of JPEG is the textbook "JPEG Still Image Data Compression Standard" by William B. Pennebaker and Joan L. Mitchell, published by Van Nostrand Reinhold, 1993, ISBN 0-442-01272-1. Price US\$59.95, 638 pp. The book includes the complete text of the ISO JPEG standards (DIS 10918-1 and draft DIS 10918-2).

Although this is by far the most detailed and comprehensive exposition of JPEG publicly available, we point out that it is still missing an explanation of the most essential properties and algorithms of the underlying DCT technology.

If you think that you know about DCT-based JPEG after reading this book, then you are in delusion. The real fundamentals and corresponding potential of DCT-based JPEG are not publicly known so far, and that is the reason for all the mistaken developments taking place in the image coding domain.

The original JPEG standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS 10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 2: Compliance testing" and has document numbers ISO/IEC IS 10918-2, ITU-T T.83.

IJG JPEG 8 introduced an implementation of the JPEG SmartScale extension which is specified in two documents: A contributed document at ITU and ISO

with title "ITU-T JPEG-Plus Proposal for Extending ITU-T T.81 for Advanced Image Coding", April 2006, Geneva, Switzerland. The latest version of this document is Revision 3. And a contributed document ISO/IEC JTC1/SC29/WG1 N 5799 with title "Evolution of JPEG", June/July 2011, Berlin, Germany. IJG JPEG 9 introduces a reversible color transform for improved lossless compression which is described in a contributed document ISO/IEC JTC1/SC29/WG1 N 6080 with title "JPEG 9 Lossless Coding", June/July 2012, Paris, France.

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, version 2. JFIF version 1 has been adopted as Recommendation ITU-T T.871 (05/2011) : Information technology - Digital compression and coding of continuous-tone still images: JPEG File Interchange Format (JFIF). It is available as a free download in PDF file format from <http://www.itu.int/rec/T-REC-T.871>. A PDF file of the older JFIF document is available at <http://www.w3.org/Graphics/JPEG/jfif3.pdf>.

The TIFF 6.0 file format specification can be obtained by FTP from <ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz>. The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from <http://www.ijg.org/files/>. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note.

ARCHIVE LOCATIONS

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The "official" archive site for this software is www.ijg.org. The most recent released version can always be found there in directory "files". This particular version will be archived as <http://www.ijg.org/files/jpegsr9c.tar.gz>, and in Windows-compatible "zip" archive format as <http://www.ijg.org/files/jpegsr9c.zip>.

The JPEG FAQ (Frequently Asked Questions) article is a source of some general information about JPEG.

It is available on the World Wide Web at <http://www.faqs.org/faqs/jpeg-faq/> and other news.answers archive sites, including the official news.answers archive at rtfm.mit.edu: <ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/>. If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu with body

send usenet/news.answers/jpeg-faq/part1

send usenet/news.answers/jpeg-faq/part2

ACKNOWLEDGMENTS

=====

Thank to Juergen Bruder for providing me with a copy of the common DCT algorithm article, only to find out that I had come to the same result in a more direct and comprehensible way with a more generative approach.

Thank to Istvan Sebestyen and Joan L. Mitchell for inviting me to the ITU JPEG (Study Group 16) meeting in Geneva, Switzerland.

Thank to Thomas Wiegand and Gary Sullivan for inviting me to the Joint Video Team (MPEG & ITU) meeting in Geneva, Switzerland.

Thank to Thomas Richter and Daniel Lee for inviting me to the ISO/IEC JTC1/SC29/WG1 (previously known as JPEG, together with ITU-T SG16) meeting in Berlin, Germany.

Thank to John Korejwa and Massimo Ballerini for inviting me to fruitful consultations in Boston, MA and Milan, Italy.

Thank to Hendrik Elstner, Roland Fassauer, Simone Zuck, Guenther Maier-Gerber, Walter Stoeber, Fred Schmitz, and Norbert Braunagel for corresponding business development.

Thank to Nico Zschach and Dirk Stelling of the technical support team at the Digital Images company in Halle for providing me with extra equipment for configuration tests.

Thank to Richard F. Lyon (then of Foveon Inc.) for fruitful communication about JPEG configuration in Sigma Photo Pro software.

Thank to Andrew Finkenstadt for hosting the ijg.org site.

Thank to Thomas G. Lane for the original design and development of this singular software package.

Thank to Lars Goehler, Andreas Heinecke, Sebastian Fuss, Yvonne Roebert, Andrej Werner, and Ulf-Dietrich Braumann for support and public relations.

FILE FORMAT WARS

=====

The ISO/IEC JTC1/SC29/WG1 standards committee (previously known as JPEG, together with ITU-T SG16) currently promotes different formats containing the name "JPEG" which is misleading because these formats are incompatible

with original DCT-based JPEG and are based on faulty technologies. IJG therefore does not and will not support such momentary mistakes (see REFERENCES).

There exist also distributions under the name "OpenJPEG" promoting such kind of formats which is misleading because they don't support original JPEG images.

We have no sympathy for the promotion of inferior formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, interoperable format standards for JPEG files. Don't use an incompatible file format!

(In any case, our decoder will remain capable of reading existing JPEG image files indefinitely.)

The ISO committee pretends to be "responsible for the popular JPEG" in their public reports which is not true because they don't respond to actual requirements for the maintenance of the original JPEG specification. Furthermore, the ISO committee pretends to "ensure interoperability" with their standards which is not true because their "standards" support only application-specific and proprietary use cases and contain mathematically incorrect code.

There are currently different distributions in circulation containing the name "libjpeg" which is misleading because they don't have the features and are incompatible with formats supported by actual IJG libjpeg distributions. One of those fakes is released by members of the ISO committee and just uses the name of libjpeg for misdirection of people, similar to the abuse of the name JPEG as described above, while having nothing in common with actual IJG libjpeg distributions and containing mathematically incorrect code.

The other one claims to be a "derivative" or "fork" of the original libjpeg, but violates the license conditions as described under LEGAL ISSUES above and violates basic C programming properties.

We have no sympathy for the release of misleading, incorrect and illegal distributions derived from obsolete code bases.

Don't use an obsolete code base!

According to the UCC (Uniform Commercial Code) law, IJG has the lawful and legal right to foreclose on certain standardization bodies and other institutions or corporations that knowingly perform substantial and systematic deceptive acts and practices, fraud, theft, and damaging of the value of the people of this planet without their knowing, willing and intentional consent.

The titles, ownership, and rights of these institutions and all their assets are now duly secured and held in trust for the free people of this planet. People of the planet, on every country, may have a financial interest in the assets of these former principals, agents, and beneficiaries of the foreclosed institutions and corporations.

IJG asserts what is: that each man, woman, and child has unalienable value and rights granted and deposited in them by the Creator and not any one of

the people is subordinate to any artificial principality, corporate fiction or the special interest of another without their appropriate knowing, willing and intentional consent made by contract or accommodation agreement. IJG expresses that which already was.

The people have already determined and demanded that public administration entities, national governments, and their supporting judicial systems must be fully transparent, accountable, and liable.

IJG has secured the value for all concerned free people of the planet.

A partial list of foreclosed institutions and corporations ("Hall of Shame") is currently prepared and will be published later.

TO DO

=====

Version 9 is the second release of a new generation JPEG standard to overcome the limitations of the original JPEG specification, and is the first true source reference JPEG codec.

More features are being prepared for coming releases...

Please send bug reports, offers of help, etc. to jpeg-info@jpegclub.org.

Found in path(s):

* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/README

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

/*

* jdct.h

*

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* Modified 2002-2017 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This include file contains common declarations for the forward and

* inverse DCT modules. These declarations are private to the DCT managers

* (jcdctmgr.c, jddctmgr.c) and the individual DCT algorithms.

* The individual DCT algorithms are kept in separate files to ease

* machine-dependent tuning (e.g., assembly coding).

*/

Found in path(s):

* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jdct.h

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/*

* jdatadst.c

*
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* This file is part of the Independent JPEG Group's software.
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*
* This file contains compression data destination routines for the case of
* emitting JPEG data to memory or to a file (or any stdio stream).
* While these routines are sufficient for most applications,
* some will want to use a different destination manager.
* IMPORTANT: we assume that fwrite() will correctly transcribe an array of
* JOCTETs into 8-bit-wide elements on external storage. If char is wider
* than 8 bits on your machine, you may need to do some tweaking.
*/

Found in path(s):

* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jdatadst.c
No license file was found, but licenses were detected in source scan.

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* cderror.h
*
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*
* This file defines the error and message codes for the cjpeg/djpeg
* applications. These strings are not needed as part of the JPEG library
* proper.
* Edit this file to add new codes, or to translate the message strings to
* some other language.
*/

Found in path(s):

* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/cderror.h
No license file was found, but licenses were detected in source scan.

/*
* jdmarker.c
*
* Copyright (C) 1991-1998, Thomas G. Lane.
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* This file is part of the Independent JPEG Group's software.
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*
* This file contains routines to decode JPEG datastream markers.
* Most of the complexity arises from our desire to support input

- * suspension: if not all of the data for a marker is available,
- * we must exit back to the application. On resumption, we reprocess
- * the marker.
- */

Found in path(s):

* /opt/cola/permits/1135381086_1613506765.4/0/jpeg-9c-tar-gz/jpeg-9c/jdmarker.c

1.212 cactus.core.framework.javaee.12-13-14

1.8.1

1.212.1 Available under license :

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1.213 dmidecode 2.12 7.el6

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1.214 rsync 3.0.6 12.el6

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1.215 joda-time 2.2

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1.216 libxml 2.7.6 21.e16_8.1

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1.217 tiles-el 3.0.8

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1.218 aws-java-sdk-kms 1.11.61

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jar/com/amazonaws/services/kms/model/transform/ImportKeyMaterialRequestMarshaller.java
* /opt/cola/permits/1263968439_1643733569.69/0/aws-java-sdk-kms-1-11-61-sources-
jar/com/amazonaws/services/kms/model/ImportKeyMaterialResult.java
* /opt/cola/permits/1263968439_1643733569.69/0/aws-java-sdk-kms-1-11-61-sources-
jar/com/amazonaws/services/kms/model/transform/KeyMetadataJsonMarshaller.java
* /opt/cola/permits/1263968439_1643733569.69/0/aws-java-sdk-kms-1-11-61-sources-
jar/com/amazonaws/services/kms/model/transform/RetireGrantRequestMarshaller.java
* /opt/cola/permits/1263968439_1643733569.69/0/aws-java-sdk-kms-1-11-61-sources-
jar/com/amazonaws/services/kms/model/CreateGrantRequest.java
* /opt/cola/permits/1263968439_1643733569.69/0/aws-java-sdk-kms-1-11-61-sources-
jar/com/amazonaws/services/kms/model/RevokeGrantRequest.java
* /opt/cola/permits/1263968439_1643733569.69/0/aws-java-sdk-kms-1-11-61-sources-
jar/com/amazonaws/services/kms/model/DataKeySpec.java
* /opt/cola/permits/1263968439_1643733569.69/0/aws-java-sdk-kms-1-11-61-sources-
jar/com/amazonaws/services/kms/model/CreateKeyRequest.java
* /opt/cola/permits/1263968439_1643733569.69/0/aws-java-sdk-kms-1-11-61-sources-
jar/com/amazonaws/services/kms/model/InvalidAliasNameException.java
* /opt/cola/permits/1263968439_1643733569.69/0/aws-java-sdk-kms-1-11-61-sources-
jar/com/amazonaws/services/kms/model/transform/GetParametersForImportRequestMarshaller.java
* /opt/cola/permits/1263968439_1643733569.69/0/aws-java-sdk-kms-1-11-61-sources-
jar/com/amazonaws/services/kms/model/DescribeKeyRequest.java
* /opt/cola/permits/1263968439_1643733569.69/0/aws-java-sdk-kms-1-11-61-sources-
jar/com/amazonaws/services/kms/model/EncryptRequest.java
* /opt/cola/permits/1263968439_1643733569.69/0/aws-java-sdk-kms-1-11-61-sources-
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* /opt/cola/permits/1263968439_1643733569.69/0/aws-java-sdk-kms-1-11-61-sources-
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* /opt/cola/permits/1263968439_1643733569.69/0/aws-java-sdk-kms-1-11-61-sources-
jar/com/amazonaws/services/kms/model/transform/GetKeyRotationStatusRequestMarshaller.java
* /opt/cola/permits/1263968439_1643733569.69/0/aws-java-sdk-kms-1-11-61-sources-
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* /opt/cola/permits/1263968439_1643733569.69/0/aws-java-sdk-kms-1-11-61-sources-

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* /opt/cola/permits/1263968439_1643733569.69/0/aws-java-sdk-kms-1-11-61-sources-
jar/com/amazonaws/services/kms/model/GrantOperation.java
* /opt/cola/permits/1263968439_1643733569.69/0/aws-java-sdk-kms-1-11-61-sources-
jar/com/amazonaws/services/kms/model/transform/GrantConstraintsJsonMarshaller.java
* /opt/cola/permits/1263968439_1643733569.69/0/aws-java-sdk-kms-1-11-61-sources-
jar/com/amazonaws/services/kms/model/NotFoundException.java
* /opt/cola/permits/1263968439_1643733569.69/0/aws-java-sdk-kms-1-11-61-sources-
jar/com/amazonaws/services/kms/model/transform/CreateKeyResultJsonUnmarshaller.java
* /opt/cola/permits/1263968439_1643733569.69/0/aws-java-sdk-kms-1-11-61-sources-
jar/com/amazonaws/services/kms/model/transform/EnableKeyRotationRequestMarshaller.java
* /opt/cola/permits/1263968439_1643733569.69/0/aws-java-sdk-kms-1-11-61-sources-
jar/com/amazonaws/services/kms/model/transform/GenerateRandomRequestMarshaller.java
* /opt/cola/permits/1263968439_1643733569.69/0/aws-java-sdk-kms-1-11-61-sources-
jar/com/amazonaws/services/kms/model/ListKeyPoliciesResult.java
* /opt/cola/permits/1263968439_1643733569.69/0/aws-java-sdk-kms-1-11-61-sources-
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* /opt/cola/permits/1263968439_1643733569.69/0/aws-java-sdk-kms-1-11-61-sources-
jar/com/amazonaws/services/kms/model/InvalidCiphertextException.java
* /opt/cola/permits/1263968439_1643733569.69/0/aws-java-sdk-kms-1-11-61-sources-
jar/com/amazonaws/services/kms/model/transform/DisableKeyResultJsonUnmarshaller.java
* /opt/cola/permits/1263968439_1643733569.69/0/aws-java-sdk-kms-1-11-61-sources-
jar/com/amazonaws/services/kms/model/KMSInvalidStateException.java
* /opt/cola/permits/1263968439_1643733569.69/0/aws-java-sdk-kms-1-11-61-sources-
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* /opt/cola/permits/1263968439_1643733569.69/0/aws-java-sdk-kms-1-11-61-sources-
jar/com/amazonaws/services/kms/model/AliasListEntry.java
* /opt/cola/permits/1263968439_1643733569.69/0/aws-java-sdk-kms-1-11-61-sources-
jar/com/amazonaws/services/kms/model/transform/GetKeyPolicyRequestMarshaller.java
* /opt/cola/permits/1263968439_1643733569.69/0/aws-java-sdk-kms-1-11-61-sources-
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* /opt/cola/permits/1263968439_1643733569.69/0/aws-java-sdk-kms-1-11-61-sources-
jar/com/amazonaws/services/kms/model/transform/DescribeKeyRequestMarshaller.java
* /opt/cola/permits/1263968439_1643733569.69/0/aws-java-sdk-kms-1-11-61-sources-
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* /opt/cola/permits/1263968439_1643733569.69/0/aws-java-sdk-kms-1-11-61-sources-
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* /opt/cola/permits/1263968439_1643733569.69/0/aws-java-sdk-kms-1-11-61-sources-
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* /opt/cola/permits/1263968439_1643733569.69/0/aws-java-sdk-kms-1-11-61-sources-
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* /opt/cola/permits/1263968439_1643733569.69/0/aws-java-sdk-kms-1-11-61-sources-
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* /opt/cola/permits/1263968439_1643733569.69/0/aws-java-sdk-kms-1-11-61-sources-
jar/com/amazonaws/services/kms/model/DecryptRequest.java
* /opt/cola/permits/1263968439_1643733569.69/0/aws-java-sdk-kms-1-11-61-sources-
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* /opt/cola/permits/1263968439_1643733569.69/0/aws-java-sdk-kms-1-11-61-sources-
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* /opt/cola/permits/1263968439_1643733569.69/0/aws-java-sdk-kms-1-11-61-sources-
jar/com/amazonaws/services/kms/model/UpdateKeyDescriptionResult.java
* /opt/cola/permits/1263968439_1643733569.69/0/aws-java-sdk-kms-1-11-61-sources-
jar/com/amazonaws/services/kms/model/DependencyTimeoutException.java
* /opt/cola/permits/1263968439_1643733569.69/0/aws-java-sdk-kms-1-11-61-sources-
jar/com/amazonaws/services/kms/model/transform/GrantConstraintsJsonUnmarshaller.java
* /opt/cola/permits/1263968439_1643733569.69/0/aws-java-sdk-kms-1-11-61-sources-
jar/com/amazonaws/services/kms/model/CreateKeyResult.java
* /opt/cola/permits/1263968439_1643733569.69/0/aws-java-sdk-kms-1-11-61-sources-
jar/com/amazonaws/services/kms/model/transform/DisableKeyRotationResultJsonUnmarshaller.java
* /opt/cola/permits/1263968439_1643733569.69/0/aws-java-sdk-kms-1-11-61-sources-
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* /opt/cola/permits/1263968439_1643733569.69/0/aws-java-sdk-kms-1-11-61-sources-
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* /opt/cola/permits/1263968439_1643733569.69/0/aws-java-sdk-kms-1-11-61-sources-
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* /opt/cola/permits/1263968439_1643733569.69/0/aws-java-sdk-kms-1-11-61-sources-
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* /opt/cola/permits/1263968439_1643733569.69/0/aws-java-sdk-kms-1-11-61-sources-
jar/com/amazonaws/services/kms/model/DeleteImportedKeyMaterialRequest.java
* /opt/cola/permits/1263968439_1643733569.69/0/aws-java-sdk-kms-1-11-61-sources-
jar/com/amazonaws/services/kms/model/MalformedPolicyDocumentException.java
* /opt/cola/permits/1263968439_1643733569.69/0/aws-java-sdk-kms-1-11-61-sources-
jar/com/amazonaws/services/kms/model/ListKeysRequest.java
* /opt/cola/permits/1263968439_1643733569.69/0/aws-java-sdk-kms-1-11-61-sources-
jar/com/amazonaws/services/kms/model/transform/GenerateDataKeyWithoutPlaintextResultJsonUnmarshaller.java
* /opt/cola/permits/1263968439_1643733569.69/0/aws-java-sdk-kms-1-11-61-sources-
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* /opt/cola/permits/1263968439_1643733569.69/0/aws-java-sdk-kms-1-11-61-sources-
jar/com/amazonaws/services/kms/model/RevokeGrantResult.java
* /opt/cola/permits/1263968439_1643733569.69/0/aws-java-sdk-kms-1-11-61-sources-
jar/com/amazonaws/services/kms/model/GenerateDataKeyRequest.java
* /opt/cola/permits/1263968439_1643733569.69/0/aws-java-sdk-kms-1-11-61-sources-
jar/com/amazonaws/services/kms/model/DescribeKeyResult.java
* /opt/cola/permits/1263968439_1643733569.69/0/aws-java-sdk-kms-1-11-61-sources-
jar/com/amazonaws/services/kms/model/ReEncryptRequest.java
* /opt/cola/permits/1263968439_1643733569.69/0/aws-java-sdk-kms-1-11-61-sources-
jar/com/amazonaws/services/kms/model/KMSInternalException.java
* /opt/cola/permits/1263968439_1643733569.69/0/aws-java-sdk-kms-1-11-61-sources-
jar/com/amazonaws/services/kms/model/transform/ReEncryptRequestMarshaller.java
* /opt/cola/permits/1263968439_1643733569.69/0/aws-java-sdk-kms-1-11-61-sources-
jar/com/amazonaws/services/kms/model/GetKeyPolicyResult.java
* /opt/cola/permits/1263968439_1643733569.69/0/aws-java-sdk-kms-1-11-61-sources-
jar/com/amazonaws/services/kms/model/transform/UpdateKeyDescriptionRequestMarshaller.java

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 */
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Found in path(s):

```
* /opt/cola/permits/1263968439_1643733569.69/0/aws-java-sdk-kms-1-11-61-sources-
jar/com/amazonaws/auth/policy/actions/KMSActions.java
```

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 */
```

```
/**
 * <p>
 * Decrypted plaintext data. This value may not be returned if the customer master key is not available or if you
 * didn't have permission to use it.
 * </p>
 */
```

```
/**
 * <p>
 * Decrypted plaintext data. This value may not be returned if the customer master key is not available or if you
 * didn't have permission to use it.
 */
```



```

* </p>
* <p>
* AWS SDK for Java performs a Base64 encoding on this field before sending this request to AWS service by
default.
* Users of the SDK should not perform Base64 encoding on this field.
* </p>
* <p>
* Warning: ByteBuffers returned by the SDK are mutable. Changes to the content or position of the byte buffer
will
* be seen by all objects that have a reference to this object. It is recommended to call ByteBuffer.duplicate() or
* ByteBuffer.asReadOnlyBuffer() before using or reading from the buffer. This behavior will be changed in a
future
* major version of the SDK.
* </p>
*
* @param plaintext
*   Decrypted plaintext data. This value may not be returned if the customer master key is not available or if
*   you didn't have permission to use it.
*/
/**
* <p>
* Decrypted plaintext data. This value may not be returned if the customer master key is not available or if you
* didn't have permission to use it.
* </p>
* <p>
* {@code ByteBuffer}s are stateful. Calling their {@code get} methods changes their {@code position}. We
recommend
* using {@code java.nio.ByteBuffer#asReadOnlyBuffer()} to create a read-only view of the buffer with an
independent
* {@code position}, and calling {@code get} methods on this rather than directly on the returned {@code
ByteBuffer}.
* Doing so will ensure that anyone else using the {@code ByteBuffer} will not be affected by changes to the
* {@code position}.
* </p>
*
* @return Decrypted plaintext data. This value may not be returned if the customer master key is not available or
*   if you didn't have permission to use it.
*/

```

Found in path(s):

```

* /opt/cola/permits/1263968439_1643733569.69/0/aws-java-sdk-kms-1-11-61-sources-
jar/com/amazonaws/services/kms/model/DecryptResult.java

```

1.219 mina 2.0.7

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1.220 assertj-core 2.4.1

1.221 openssl 1.0.0

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```
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```
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```

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```
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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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1.222 forgerock-guava-math 18.0.4

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1.224 dash 0.5.5.1 4.e16

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1.225 tomcat-websocket 9.0.56

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1.226 tcsh 6.17-38.el6

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* SUCH DAMAGE.
*/
/*
* config.h -- configure various defines for tcsh
*
* All source files should #include this FIRST.
*
* Edit this to match your system type.
*/

#ifndef _h_config
#define _h_config
/****** System dependant compilation flags *****/
/*
* POSIX This system supports IEEE Std 1003.1-1988 (POSIX).
*/
#undef POSIX

/*
* POSIXJOBS This system supports the optional IEEE Std 1003.1-1988 (POSIX)
* job control facilities.
*/
#undef POSIXJOBS

/*
* VFORK This machine has a vfork().

```

```

* It used to be that for job control to work, this define
* was mandatory. This is not the case any more.
* If you think you still need it, but you don't have vfork,
* define this anyway and then do #define vfork fork.
* I do this anyway on a Sun because of yellow pages brain damage,
* [should not be needed under 4.1]
* and on the iris4d cause SGI's fork is sufficiently "virtual"
* that vfork isn't necessary. (Besides, SGI's vfork is weird).
* Note that some machines eg. rs6000 have a vfork, but not
* with the berkeley semantics, so we cannot use it there either.
*/
#define VFORK

/*
* BSDJOBS You have BSD-style job control (both process groups and
* a tty that deals correctly
*/
#define BSDJOBS

/*
* BSDTIMES You have BSD-style process time stuff (like rusage)
* This may or may not be true. For example, Apple Unix
* (OREO) has BSDJOBS but not BSDTIMES.
*/
#define BSDTIMES

/*
* BSDLIMIT You have BSD-style resource limit stuff (getrlimit/setrlimit)
*/
#define BSDLIMIT

/*
* TERMIO You have struct termio instead of struct sgtyb.
* This is usually the case for SYSV systems, where
* BSD uses sgtyb. POSIX systems should define this
* anyway, even though they use struct termios.
*/
#undef TERMIO

/*
* SYSVREL Your machine is SYSV based (HPUX, A/UX)
* NOTE: don't do this if you are on a Pyramid -- tcsh is
* built in a BSD universe.
* Set SYSVREL to 1, 2, 3, or 4, depending the version of System V
* you are running. Or set it to 0 if you are not SYSV based
*/
#define SYSVREL 0

```

```
/*
 * YPBUGS Work around Sun YP bugs that cause expansion of ~username
 * to send command output to /dev/null
 */
#undef YPBUGS

/***** local defines *****/

#endif /* _h_config */
```

1.227 jackson 1.8.0

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ASM: a very small and fast Java bytecode manipulation framework

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1.228 zlib 1.1.4

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version 1.2.11, January 15th, 2017

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1.229 gpm 1.20.6 12.e16

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1.230 curl 7.79.1

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1.231 libxslt 1.1.26 2.el6_3.1

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1.232 jaxb-xjc 1.0.6

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* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/compiler/ast/Pair.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/tools/web/BadHttpRequest.java
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* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/tools/Callback.java
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* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/scopedpool/ScopedClassPoolRepositoryImpl.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/util/proxy/ProxyObjectOutputStream.java
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* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/runtime/Desc.java
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* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/analysis/Type.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/annotation/AnnotationsWriter.java
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* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/ExceptionTable.java
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jar/javassist/ByteArrayClassPath.java
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jar/javassist/bytecode/SourceFileAttribute.java

- * /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/CtBehavior.java
- * /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/ClassMap.java
- * /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/expr/NewArray.java
- * /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/tools/rmi/StubGenerator.java
- * /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/expr/FieldAccess.java
- * /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/AnnotationsAttribute.java
- * /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/scopedpool/ScopedClassPoolRepository.java
- * /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/util/proxy/FactoryHelper.java
- * /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/CtPrimitiveType.java
- * /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/stackmap/BasicBlock.java
- * /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/DeprecatedAttribute.java
- * /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/compiler/SymbolTable.java
- * /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/SyntheticAttribute.java
- * /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/LineNumberAttribute.java
- * /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/tools/Dump.java
- * /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/convert/TransformNewClass.java
- * /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/convert/TransformAfter.java
- * /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/InstructionPrinter.java
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* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-


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jar/javassist/bytecode/CodeAnalyzer.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-
jar/javassist/convert/TransformCall.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/expr/Cast.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-
jar/javassist/compiler/ast/Variable.java

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1.234 tiger-types 1.4

1.234.1 Available under license :

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  <link rel="shortcut icon" href="https://opensource.org/files/osi_favicon.png" type="image/png" />
  <meta name="HandheldFriendly" content="true" />
  <link rel="shortlink" href="/node/47" />
  <meta name="Generator" content="Drupal 7 (http://drupal.org)" />
  <link rel="canonical" href="/licenses/CDDL-1.0" />
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  <title>Common Development and Distribution License (CDDL-1.0) | Open Source Initiative</title>
  <link type="text/css" rel="stylesheet" href="https://opensource.org/files/css/css_xE-rWrJf-
fncB6ztZfd2huxqgxu4WO-qwma6Xer30m4.css" media="all" />
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  <!--[if (lt IE 9)]>
  <link type="text/css" rel="stylesheet" href="https://opensource.org/sites/all/themes/bootstrap-
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  <!-- HTML5 element support for IE6-8 -->

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<script type="text/javascript">
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window.jQuery || document.write("<script
src='/sites/all/modules/jquery_update/replace/jquery/1.10/jquery.min.js'\>\x3C/script>")
//--><![>
</script>
<script type="text/javascript"
src="https://opensource.org/files/js/js_aczm2rRgH_slWBPnvD3KMrK7rwa1i99HOq8IUAb99Co.js"></script>
<script type="text/javascript" src="//maxcdn.bootstrapcdn.com/bootstrap/3.2.0/js/bootstrap.min.js"></script>
<script type="text/javascript">
<!--//--><![CDATA[//><!--
jQuery(document).ready(function($) {
  $(window).scroll(function() {
    if($(this).scrollTop() != 0) {
      $("#toTop").fadeIn();
    } else {
      $("#toTop").fadeOut();
    }
  });

  $("#toTop").click(function() {
    $("body,html").animate({scrollTop:0},800);
  });

});
//--><![>
</script>
<script type="text/javascript"
src="https://opensource.org/files/js/js_ruOYJN6FkJU2O5L1dAKVnDloSn5R6LjnLW88zFxS1Uw.js"></script>
<script type="text/javascript" src="https://opensource.org/files/js/js_JQHTvV_SkyFIN3f2BnQwnusF-
eI6tkX8wrKak2siiZU.js"></script>
<script type="text/javascript">
<!--//--><![CDATA[//><!--
jQuery.extend(Drupal.settings,
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4eeCH7buQWxzLFf5Um2HpId-Siv9s","js":{"\"\\code.jquery.com\\jquery-
1.10.2.min.js\":1,\"0\":1,\"misc\\jquery.once.js\":1,\"misc\\drupal.js\":1,\"\\maxcdn.bootstrapcdn.com\\bootstrap\\3.2.0\\js
\\bootstrap.min.js\":1,\"1\":1,\"sites\\all\\libraries\\superfish\\jquery.hoverIntent.minified.js\":1,\"sites\\all\\libraries\\supe
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```

```

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business\css\ie8.css":1 }}, "urlIsAjaxTrusted": {"\licenses\cddl1.php":true}, "superfish": {"1": {"id": "1", "sf": {"anima
tion": {"opacity": "show", "height": "show"}, "speed": "\u0027fast\u0027", "autoArrows": false, "dropShadows": true, "dis
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se, "supersubs": {"minWidth": "12", "maxWidth": "27", "extraWidth": 1 } } } }));
//--><![ ]>
</script>
</head>
<body class="html not-front not-logged-in no-sidebars page-node page-node- page-node-47 node-type-page" >
<div id="skip-link">
  <a href="#main-content" class="element-invisible element-focusable">Skip to main content</a>
</div>
<div id="toTop"><span class="glyphicon glyphicon-chevron-up"></span></div>

<!-- #header-top -->
<div id="header-top" class="clearfix">
  <div class="container">

    <!-- #header-top-inside -->
    <div id="header-top-inside" class="clearfix">
      <div class="row">

        <div class="col-md-8">
          <!-- #header-top-left -->
          <div id="header-top-left" class="clearfix">
            <div class="region region-header-top-left">
<div id="block-menu-secondary-menu" class="block block-menu clearfix">

<div class="content">
  <ul class="menu"><li class="first leaf"><a href="/" title="">Home</a></li>
<li class="leaf"><a href="/blog" title="">From the Board</a></li>
<li class="leaf"><a href="/contact" title="">Contact</a></li>
<li class="last leaf"><a href="/civicrm/contribute/transact?reset=1&id=2" title="">Donate</a></li>
</ul> </div>
</div>
</div>
</div>
<!-- EOF:#header-top-left -->
</div>

```

```

        <div class="col-md-4">
        <!-- #header-top-right -->
        <div id="header-top-right" class="clearfix">
            <div class="region region-header-top-right">
<div id="block-search-form" class="block block-search clearfix">

<div class="content">
    <form action="/licenses/cddl1.php" method="post" id="search-block-form" accept-charset="UTF-8"><div><div
class="container-inline">
    <h2 class="element-invisible">Search form</h2>
    <div class="form-item form-type-textfield form-item-search-block-form">
<input onblur="if (this.value == &#039;&#039;) {this.value = &#039;Search this website...&#039;;}" onfocus="if
(this.value == &#039;Search this website...&#039;) {this.value = &#039;&#039;;}" type="text" id="edit-search-
block-form--2" name="search_block_form" value="Search this website..." size="15" maxlength="128"
class="form-text" />
</div>
<div class="form-actions form-wrapper" id="edit-actions"><input value="" type="submit" id="edit-submit"
name="op" class="form-submit" /></div><input type="hidden" name="form_build_id" value="form-
bHQObyvdpYpP9q-Fw-RUMqMbj_-M2JMQxkrV017VnrI" />
<input type="hidden" name="form_id" value="search_block_form" />
</div>
</div></form> </div>
</div>
</div>
    </div>
    <!-- EOF:#header-top-right -->
    </div>

    </div>
</div>
<!-- EOF: #header-top-inside -->

</div>
</div>
<!-- EOF: #header-top -->

<!-- header -->
<header id="header" role="banner" class="clearfix">
    <div class="container">

        <!-- #header-inside -->
        <div id="header-inside" class="clearfix">
            <div class="row">
                <div class="col-md-8">

                    <div id="logo">
                        <a href="/" title="Home" rel="home">  </a>
</div>

<div id="site-name">
<a href="/" title="Home">Open Source Initiative</a>
</div>

</div>

<div class="col-md-4">

</div>
</div>
</div>
<!-- EOF: #header-inside -->

</div>
</header>
<!-- EOF: #header -->

<!-- #main-navigation -->
<div id="main-navigation" class="clearfix">
<div class="container">

<!-- #main-navigation-inside -->
<div id="main-navigation-inside" class="clearfix">
<div class="row">
<div class="col-md-12">
<nav role="navigation">
<div class="region region-navigation">
<div id="block-superfish-1" class="block block-superfish clearfix">

<div class="content">
<ul id="superfish-1" class="menu sf-menu sf-navigation sf-horizontal sf-style-none sf-total-items-6 sf-parent-
items-6 sf-single-items-0"><li id="menu-37-1" class="first odd sf-item-1 sf-depth-1 sf-total-children-4 sf-parent-
children-2 sf-single-children-2 menuparent"><a href="/about" title="About the Open Source Initiative" class="sf-
depth-1 menuparent">About</a><ul><li id="menu-75-1" class="first odd sf-item-1 sf-depth-2 sf-no-children"><a
href="/history" title="History of the OSI" class="sf-depth-2">History</a></li><li id="menu-82-1" class="middle
even sf-item-2 sf-depth-2 sf-total-children-7 sf-parent-children-0 sf-single-children-7 menuparent"><a
href="/board" title="Board of Directors" class="sf-depth-2 menuparent">Board</a><ul><li id="menu-83-1"
class="first odd sf-item-1 sf-depth-3 sf-no-children"><a href="/docs/board-annotated" title="OSI Board -- With
Annotations" class="sf-depth-3">Board - Annotated</a></li><li id="menu-96-1" class="middle even sf-item-2 sf-
depth-3 sf-no-children"><a href="/minutes" title="Public Minutes of Board Meetings" class="sf-depth-
3">Minutes</a></li><li id="menu-185-1" class="middle odd sf-item-3 sf-depth-3 sf-no-children"><a
href="/organization" title="These portfolios represent the activities of the current OSI board." class="sf-depth-

```

3">Organization & Operations<li id="menu-95-1" class="middle even sf-item-4 sf-depth-3 sf-no-children">Articles of Incorporation<li id="menu-1475-1" class="middle odd sf-item-5 sf-depth-3 sf-no-children">Board Elections<li id="menu-84-1" class="middle even sf-item-6 sf-depth-3 sf-no-children">Bylaws<li id="menu-1317-1" class="last odd sf-item-7 sf-depth-3 sf-no-children">Conflict of Interest<li id="menu-1843-1" class="middle odd sf-item-3 sf-depth-2 sf-total-children-2 sf-parent-children-0 sf-single-children-2 menuparent">Trademark & Logo<li id="menu-184-1" class="first odd sf-item-1 sf-depth-3 sf-no-children">Trademark Guidelines<li id="menu-183-1" class="last even sf-item-2 sf-depth-3 sf-no-children">Logo Guidelines<li id="menu-126-1" class="last even sf-item-4 sf-depth-2 sf-no-children">Terms of Service<li id="menu-65-1" class="middle even sf-item-2 sf-depth-1 sf-total-children-5 sf-parent-children-3 sf-single-children-2 menuparent">Licenses<li id="menu-61-1" class="first odd sf-item-1 sf-depth-2 sf-total-children-1 sf-parent-children-0 sf-single-children-1 menuparent">Open Source Definition<li id="menu-62-1" class="firstandlast odd sf-item-1 sf-depth-3 sf-no-children">OSD - Annotated<li id="menu-77-1" class="middle even sf-item-2 sf-depth-2 sf-no-children">Licenses by Category<li id="menu-72-1" class="middle odd sf-item-3 sf-depth-2 sf-no-children">Licenses by Name<li id="menu-66-1" class="middle even sf-item-4 sf-depth-2 sf-total-children-2 sf-parent-children-0 sf-single-children-2 menuparent">License Review Process<li id="menu-67-1" class="first odd sf-item-1 sf-depth-3 sf-no-children">Licence Proliferation<li id="menu-69-1" class="last even sf-item-2 sf-depth-3 sf-no-children">LP report to the Board<li id="menu-99-1" class="last odd sf-item-5 sf-depth-2 sf-total-children-4 sf-parent-children-0 sf-single-children-4 menuparent">Open Standards<li id="menu-101-1" class="first odd sf-item-1 sf-depth-3 sf-no-children">The Open Standards Requirement<li id="menu-102-1" class="middle even sf-item-2 sf-depth-3 sf-no-children">Open Standards Requirement Compliance<li id="menu-100-1" class="middle odd sf-item-3 sf-depth-3 sf-no-children">Open Standards Requirement Rationale<li id="menu-103-1" class="last even sf-item-4 sf-depth-3 sf-no-children">OSR Frequently Asked Questions<li id="menu-1842-1" class="middle odd sf-item-3 sf-depth-1 sf-total-children-3 sf-parent-children-2 sf-single-children-1 menuparent">Membership<li id="menu-914-1" class="first odd sf-item-1 sf-depth-2 sf-total-children-1 sf-parent-children-0 sf-single-children-1 menuparent">Individuals<li id="menu-897-1" class="firstandlast odd sf-item-1 sf-depth-3 sf-no-children">Join<li id="menu-675-1" class="middle even sf-item-2 sf-depth-2 sf-total-children-3 sf-

parent-children-0 sf-single-children-3 menuparent">Affiliates<li id="menu-676-1" class="first odd sf-item-1 sf-depth-3 sf-no-children">Become an Affiliate<li id="menu-677-1" class="middle even sf-item-2 sf-depth-3 sf-no-children">List of Affiliates<li id="menu-2071-1" class="last odd sf-item-3 sf-depth-3 sf-no-children">Affiliate Criteria<li id="menu-1436-1" class="last odd sf-item-3 sf-depth-2 sf-no-children">Sponsors & Support<li id="menu-1841-1" class="middle even sf-item-4 sf-depth-1 sf-total-children-4 sf-parent-children-1 sf-single-children-3 menuparent">Community<li id="menu-63-1" class="first odd sf-item-1 sf-depth-2 sf-total-children-4 sf-parent-children-0 sf-single-children-4 menuparent">Mailing lists<li id="menu-78-1" class="first odd sf-item-1 sf-depth-3 sf-no-children">General Code of Conduct<li id="menu-1072-1" class="middle even sf-item-2 sf-depth-3 sf-no-children">Licensing Code of Conduct<li id="menu-2111-1" class="middle odd sf-item-3 sf-depth-3 sf-no-children">Disclaimer for OSI Public Forums<li id="menu-2110-1" class="last even sf-item-4 sf-depth-3 sf-no-children">Policy on Public Communications and Archives<li id="menu-2032-1" class="middle even sf-item-2 sf-depth-2 sf-no-children">Volunteers<li id="menu-1846-1" class="middle odd sf-item-3 sf-depth-2 sf-no-children">Wiki<li id="menu-1524-1" class="last even sf-item-4 sf-depth-2 sf-no-children">OSI Store<li id="menu-1840-1" class="middle odd sf-item-5 sf-depth-1 sf-total-children-5 sf-parent-children-1 sf-single-children-4 menuparent">Resources<li id="menu-342-1" class="first odd sf-item-1 sf-depth-2 sf-no-children">FAQ<li id="menu-38-1" class="middle even sf-item-2 sf-depth-2 sf-no-children">OSI Board Blog<li id="menu-45-1" class="middle odd sf-item-3 sf-depth-2 sf-total-children-2 sf-parent-children-0 sf-single-children-2 menuparent">Getting Help<li id="menu-76-1" class="first odd sf-item-1 sf-depth-3 sf-no-children">Bibliography<li id="menu-125-1" class="last even sf-item-2 sf-depth-3 sf-no-children">Open Source Case for Business<li id="menu-1514-1" class="middle even sf-item-4 sf-depth-2 sf-no-children">Working Groups<li id="menu-12-1" class="last odd sf-item-5 sf-depth-2 sf-no-children">Open Source Education<li id="menu-1844-1" class="last even sf-item-6 sf-depth-1 sf-total-children-2 sf-parent-children-0 sf-single-children-2 menuparent">News & Events<li id="menu-1845-1" class="first odd sf-item-1 sf-depth-2 sf-no-children">Newsletters<li id="menu-1999-1" class="last even sf-item-2 sf-depth-2 sf-no-children">Events

</div>

</div>

</nav>

```

        </div>
    </div>
</div>
<!-- EOF: #main-navigation-inside -->

</div>
</div>
<!-- EOF: #main-navigation -->

<!-- #page -->
<div id="page" class="clearfix">

<!-- #main-content -->
<div id="main-content">
    <div class="container">

        <!-- #messages-console -->
            <!-- EOF: #messages-console -->

        <div class="row">

            <section class="col-md-12">

                <!-- #main -->
                <div id="main" class="clearfix">

                    <!-- EOF:#content-wrapper -->
                    <div id="content-wrapper">

                        <h1 class="page-title">Common Development and Distribution
License (CDDL-1.0)</h1>

                        <!-- #tabs -->
                            <div class="tabs">
                                </div>
                            <!-- EOF: #tabs -->

                        <!-- #action links -->
                            <!-- EOF: #action links -->

                        <div class="region region-content">

```



```

<div id="block-system-main" class="block block-system clearfix">

<div class="content">
  <article id="node-47" class="node node-page clearfix">

<div class="content">
  <div class="field field-name-body field-type-text-with-summary field-label-hidden"><div class="field-
items"><div class="field-item even"><div align="right">
<button onclick="myFunction()">Further resources on <b>CDDL-1.0</b></button>

<p id="demo"></p>

<script>
<!----><![CDATA[// ><!--

function myFunction() {
  var x;
  if (confirm("Disclaimer: While the OSI acknowledges these as potentially helpful resources for the community, it
does not endorse any content, contributors or license interpretations from these websites. Any links to these
resources across opensource.org are solely for navigational purposes. The OSI does not promote or exclusively favor
any of the mentioned resources, but instead provides them as separate third-party resource to help inform your
opinion. Any content from or links to these resources are separate from the OSI, exist for purely informational
purposes and creates no attorney-client relationship between you, the OSI or the resources. If you have questions
about how licenses apply to you or your organization, you should seek legal advice. ") == true) {
    x = "<br><p>The following are other community resources that may be helpful:<br><br><a
href=https://tldrlegal.com/license/common-development-and-distribution-license-%28cddl-1.0%29-explained
style='font-weight: bold;'>Common Development and Distribution License (CDDL-1.0) on TLDRLegal<br><a
href=http://www.gnu.org/licenses/license-list.en.html>GNU License List<br><a
href=https://en.wikipedia.org/wiki/Comparison_of_free_and_open-source_software_licenses>Wikipedia License
List<br><a href=http://oss-watch.ac.uk/apps/licdiff/>OSSWatch License Diff<br><a
href=choosealicense.com>Choosealicense";
  } else {
    x = " ";
  }
  document.getElementById("demo").innerHTML = x;
}

//--><![]]>
</script></div>

<b>COMMON DEVELOPMENT AND DISTRIBUTION LICENSE
Version 1.0 (CDDL-1.0)</b>
(<a href="cddl1.txt">text</a>)
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<ul><li><p><b>1.1. Contributor</b> means each
individual or entity that creates or contributes to the creation of

```

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</div></div></div> </div>

</article> </div>

</div>

</div>

</div>

<!-- EOF:#content-wrapper -->

</div>

<!-- EOF:#main -->

</section>

</div>

</div>

</div>

<!-- EOF:#main-content -->

</div>

<!-- EOF:#page -->

<footer id="subfooter" class="clearfix">

<div class="container">

<!-- #subfooter-inside -->

<div id="subfooter-inside" class="clearfix">

<div class="row">

```
<div class="col-md-12">
  <!-- #subfooter-left -->
  <div class="subfooter-area">
```

```
    <div class="region region-footer">
  <div id="block-block-11" class="block block-block clearfix">
```

```
<div class="content">
  <div class="filler" style="vertical-align: middle; display: inline-block;">
<p style="margin: 0pt auto; display: table-cell; text-align: center; vertical-align: middle;">
<a href="https://twitter.com/OpenSourceOrg" style="margin: 0pt auto; display: table-cell; text-align: center;
vertical-align: middle;"></a>
```

```
<a href="https://plus.google.com/+opensourceinitiative" style="margin: 0pt auto; display: table-cell; text-align:
center; vertical-align: middle;"></a>
```

```
<a href="https://www.linkedin.com/company/open-source-initiative-osi-" style="margin: 0pt auto; display: table-
cell; text-align: center; vertical-align: middle;"></a>
```

```
<a href="http://wiki.opensource.org" style="margin: 0pt auto; display: table-cell; text-align: center; vertical-align:
middle;"></a>
```

```
<a href="http://creativecommons.org/licenses/by/4.0/" style="margin: 0pt auto; display: table-cell; text-align:
center; vertical-align: middle;"></a>
```

```
<script id="fbwiuwz">
<!--//--><![CDATA[// ><!--
(function(i){var
f,s=document.getElementById(i);f=document.createElement('iframe');f.src="//api.flattr.com/button/view/?uid=osi&u
rl=http%3A%2F%2Fopensource.org';f.title='Flattr';f.height=70;f.width=70;f.style.borderWidth=0;s.parentNode.inse
rtBefore(f,s);})('fbwiuwz');
//--><![ ]>
</script></p>
</div>
```

```
<br /><div class="license" style="vertical-align: middle; display: inline-block;">
<p>
Opensource.org site content is licensed under a <a rel="license"
href="http://creativecommons.org/licenses/by/4.0/">Creative Commons Attribution 4.0 International License</a>.
</p>
<p>
```

```

<a href=" ../ToS">Terms of Service</a>
</p>
</div>
</div>
</div>
<div id="block-block-7" class="block block-block clearfix">

<div class="content">
  <script src="https://www.google-analytics.com/urchin.js" type="text/javascript">
<!--><![CDATA[<!-->

<!--><![>
</script><script type="text/javascript">
<!--><![CDATA[<!-->

_uacct = "UA-3916956-1";
urchinTracker();

<!--><![>
</script> </div>
</div>
</div>

</div>
<!-- EOF: #subfooter-left -->
</div>
</div>
</div>
<!-- EOF: #subfooter-inside -->

</div>
</footer>
<!-- EOF:#subfooter -->
</body>
</html>

```

1.235 axiom-common-impl 1.2.13

1.235.1 Available under license :

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1.236 cxf-rt-frontend-jaxws 2.7.14

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1.237 tftp-hpa 0.49-8.e16

1.237.1 Available under license :

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

```
/* ----- *  
*  
* Copyright 2001-2006 H. Peter Anvin - All Rights Reserved  
*  
* This program is free software available under the same license
```

```
* as the "OpenBSD" operating system, distributed at
* http://www.openbsd.org/.
*
* ----- */
```

Found in path(s):

```
* /opt/cola/permits/1155513984_1620489359.97/0/tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/tftpd/recvfrom.h
* /opt/cola/permits/1155513984_1620489359.97/0/tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/tftpd/recvfrom.c
No license file was found, but licenses were detected in source scan.
```

```
/* *_- c *_- ----- */
*
* Copyright 2001-2006 H. Peter Anvin - All Rights Reserved
*
* This program is free software available under the same license
* as the "OpenBSD" operating system, distributed at
* http://www.openbsd.org/.
*
* ----- */
```

Found in path(s):

```
* /opt/cola/permits/1155513984_1620489359.97/0/tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/config.h
No license file was found, but licenses were detected in source scan.
```

Summary: The client for the Trivial File Transfer Protocol (TFTP).

Name: tftp

Version: @@VERSION@@

Release: 1

License: BSD

Group: Applications/Internet

Source0: <http://www.kernel.org/pub/software/network/tftp/tftp-hpa-%{version}.tar.gz>

BuildPreReq: tcp_wrappers

BuildRoot: %{_tmppath}/%{name}-root

%description

The Trivial File Transfer Protocol (TFTP) is normally used only for booting diskless workstations. The tftp package provides the user interface for TFTP, which allows users to transfer files to and from a remote machine. This program and TFTP provide very little security, and should not be enabled unless it is expressly needed.

%package server

Group: System Environment/Daemons

Summary: The server for the Trivial File Transfer Protocol (TFTP).

Requires: xinetd

%description server

The Trivial File Transfer Protocol (TFTP) is normally used only for

booting diskless workstations. The tftp-server package provides the server for TFTP, which allows users to transfer files to and from a remote machine. TFTP provides very little security, and should not be enabled unless it is expressly needed. The TFTP server is run from /etc/xinetd.d/tftp, and is disabled by default on Red Hat Linux systems.

```
%prep
%setup -q -n tftp-hpa-% { version }

%build

%configure
make %{?_smp_mflags}

%install
rm -rf ${RPM_BUILD_ROOT}
mkdir -p ${RPM_BUILD_ROOT}%{_bindir}
mkdir -p ${RPM_BUILD_ROOT}%{_mandir}/man{1,8}
mkdir -p ${RPM_BUILD_ROOT}%{_sbindir}

make INSTALLROOT=${RPM_BUILD_ROOT} \
  SBINDIR=%{_sbindir} MANDIR=%{_mandir} \
  install
install -m755 -d ${RPM_BUILD_ROOT}%{_sysconfdir}/xinetd.d/ ${RPM_BUILD_ROOT}/tftpboot
install -m644 tftp-xinetd ${RPM_BUILD_ROOT}%{_sysconfdir}/xinetd.d/tftp

%post server
/sbin/service xinetd reload > /dev/null 2>&1 || :

%postun server
if [ $1 = 0 ]; then
  /sbin/service xinetd reload > /dev/null 2>&1 || :
fi

%clean
rm -rf ${RPM_BUILD_ROOT}

%files
%defattr(-,root,root)
%{_bindir}/tftp
%{_mandir}/man1/*

%files server
%defattr(-,root,root)
%config(noreplace) %{_sysconfdir}/xinetd.d/tftp
%dir /tftpboot
%{_sbindir}/in.tftpd
%{_mandir}/man8/*
```

%changelog

- * Tue Sep 14 2004 H. Peter Anvin <hpa@zytor.com>
 - removed completely broken "Malta" patch.
 - integrated into build machinery so rpm -ta works.

- * Fri Feb 13 2004 Elliot Lee <sopwith@redhat.com>
 - rebuilt

- * Wed Jun 04 2003 Elliot Lee <sopwith@redhat.com>
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- * Fri Apr 11 2003 Elliot Lee <sopwith@redhat.com>
 - 0.33
 - Add /tftpboot directory (#88204)

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 - add BuildPreReq on tcp_wrappers

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- * Mon Nov 11 2002 Elliot Lee <sopwith@redhat.com> 0.32-1
 - Update to 0.32

- * Wed Oct 23 2002 Elliot Lee <sopwith@redhat.com> 0.30-1
 - Fix #55789
 - Update to 0.30

- * Thu Jun 27 2002 Elliot Lee <sopwith@redhat.com>
 - Try applying HJ's patch from #65476

- * Fri Jun 21 2002 Tim Powers <timp@redhat.com>
 - automated rebuild

- * Mon Jun 17 2002 Elliot Lee <sopwith@redhat.com>
 - Update to 0.29

- * Thu May 23 2002 Tim Powers <timp@redhat.com>
 - automated rebuild

- * Wed Jan 09 2002 Tim Powers <timp@redhat.com>
 - automated rebuild

- * Tue Dec 18 2001 Elliot Lee <sopwith@redhat.com> 0.17-15

- Add patch4: netkit-tftp-0.17-defaultport.patch for bug #57562
 - Update to tftp-hpa-0.28 (bug #56131)
 - Remove include/arpa/tftp.h to fix #57259
 - Add resource limits in tftp-xinetd (#56722)
- * Sun Jun 24 2001 Elliot Lee <sopwith@redhat.com>
- Bump release + rebuild.
- * Tue Jun 12 2001 Helge Deller <hdeller@redhat.de> (0.17-13)
- updated tftp-hpa source to tftp-hpa-0.17
 - tweaked specfile with different defines for tftp-netkit and tftp-hpa version
 - use hpa's tftpd.8 man page instead of the netkits one
- * Mon May 07 2001 Helge Deller <hdeller@redhat.de>
- rebuilt in 7.1.x
- * Wed Apr 18 2001 Helge Deller <hdeller@redhat.de>
- fix tftp client's put problems (#29529)
 - update to tftp-hpa-0.16
- * Wed Apr 4 2001 Jakub Jelinek <jakub@redhat.com>
- don't let configure to guess compiler, it can pick up eggs
- * Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
- changed "wait" in xinetd file to "yes" (hpa-tftpd forks and exits) (#26467)
 - fixed hpa-tftpd to handle files greater than 32MB (#23725)
 - added "-l" flag to hpa-tftpd for file-logging (#26467)
 - added description for "-l" to the man-page
- * Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
- updated tftp client to 0.17 stable (#19640),
 - drop dependency on xinetd for tftp client (#25051),
- * Wed Jan 17 2001 Jeff Johnson <jbj@redhat.com>
- xinetd shouldn't wait on tftp (which forks) (#23923).
- * Sat Jan 6 2001 Jeff Johnson <jbj@redhat.com>
- fix to permit tftp put's (#18128).
 - startup as root with chroot to /tftpboot with early reversion to nobody is preferable to starting as nobody w/o ability to chroot.
 - %%post is needed by server, not client. Add %%postun for erasure as well.
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- default to being disabled
- * Thu Aug 17 2000 Jeff Johnson <jbj@redhat.com>
- correct group.

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 - update to tftp-hpa-0.14 (#14003).
 - add server_args (#14003).
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 - cook up an xinetd config file for tftpd

- * Wed Jul 12 2000 Prospector <bugzilla@redhat.com>
 - automatic rebuild

- * Sun Jun 18 2000 Jeff Johnson <jbj@redhat.com>
 - FHS packaging.
 - update to 0.17.

- * Fri May 5 2000 Matt Wilson <msw@redhat.com>
 - use _BSD_SOURCE for hpa's tftpd so we get BSD signal semantics.

- * Fri Feb 11 2000 Bill Nottingham <notting@redhat.com>
 - fix description

- * Wed Feb 9 2000 Jeff Johnson <jbj@redhat.com>
 - compress man pages (again).

- * Wed Feb 02 2000 Cristian Gafton <gafton@redhat.com>
 - man pages are compressed
 - fix description and summary

- * Tue Jan 4 2000 Bill Nottingham <notting@redhat.com>
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 - tftpd should truncate file when overwriting (#412)

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 - auto rebuild in the new build environment (release 22)

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 - compile for 6.0.

- * Fri Aug 7 1998 Jeff Johnson <jbj@redhat.com>
- build root

- * Mon Apr 27 1998 Prospector System <bugs@redhat.com>
- translations modified for de, fr, tr

- * Mon Sep 22 1997 Erik Troan <ewt@redhat.com>
- added check for getpwnam() failure

- * Tue Jul 15 1997 Erik Troan <ewt@redhat.com>
- initial build

Found in path(s):

* /opt/cola/permits/1155513984_1620489359.97/0/tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/tftp.spec.in

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```

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.\"

```

.\"----- */

Found in path(s):

* /opt/cola/permits/1155513984_1620489359.97/0/tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/tftp/tftp.1.in
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Found in path(s):

* /opt/cola/permits/1155513984_1620489359.97/0/tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/tftp/tftp.c

* /opt/cola/permits/1155513984_1620489359.97/0/tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/tftp/main.c

* /opt/cola/permits/1155513984_1620489359.97/0/tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/common/tftpsubs.c

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

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Found in path(s):

* /opt/cola/permits/1155513984_1620489359.97/0/tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/MCONFIG.in

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

```
/* ----- */
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*
* This program is free software available under the same license
* as the "OpenBSD" operating system, distributed at
* http://www.openbsd.org/.
*
* ----- */
```

Found in path(s):

* /opt/cola/permits/1155513984_1620489359.97/0/tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/tftpd/misc.c

* /opt/cola/permits/1155513984_1620489359.97/0/tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/tftpd/remap.h

* /opt/cola/permits/1155513984_1620489359.97/0/tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/tftpd/remap.c

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

```
.\" *- nroff *- ----- *
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```

```
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.\ "
.\ "----- */
```

Found in path(s):

```
* /opt/cola/permits/1155513984_1620489359.97/0/tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/tftpd/tftpd.8.in
No license file was found, but licenses were detected in source scan.
```

Summary: The client for the Trivial File Transfer Protocol (TFTP).

Name: tftp

Version: 0.49

Release: 1

License: BSD

Group: Applications/Internet

Source0: <http://www.kernel.org/pub/software/network/tftp/tftp-hpa-%{version}.tar.gz>

BuildPreReq: tcp_wrappers

BuildRoot: %{_tmppath}/%{name}-root

%description

The Trivial File Transfer Protocol (TFTP) is normally used only for booting diskless workstations. The tftp package provides the user interface for TFTP, which allows users to transfer files to and from a remote machine. This program and TFTP provide very little security, and should not be enabled unless it is expressly needed.

%package server

Group: System Environment/Daemons

Summary: The server for the Trivial File Transfer Protocol (TFTP).

Requires: xinetd

%description server

The Trivial File Transfer Protocol (TFTP) is normally used only for booting diskless workstations. The tftp-server package provides the server for TFTP, which allows users to transfer files to and from a remote machine. TFTP provides very little security, and should not be enabled unless it is expressly needed. The TFTP server is run from /etc/xinetd.d/tftp, and is disabled by default on Red Hat Linux systems.

%prep

%setup -q -n tftp-hpa-%{version}

%build

%configure

make %{?_smp_mflags}

%install

```

rm -rf ${RPM_BUILD_ROOT}
mkdir -p ${RPM_BUILD_ROOT}%{_bindir}
mkdir -p ${RPM_BUILD_ROOT}%{_mandir}/man{1,8}
mkdir -p ${RPM_BUILD_ROOT}%{_sbindir}

make INSTALLROOT=${RPM_BUILD_ROOT} \
  SBINDIR=%{_sbindir} MANDIR=%{_mandir} \
  install
install -m755 -d ${RPM_BUILD_ROOT}%{_sysconfdir}/xinetd.d/ ${RPM_BUILD_ROOT}/tftpboot
install -m644 tftp-xinetd ${RPM_BUILD_ROOT}%{_sysconfdir}/xinetd.d/tftp

%post server
/sbin/service xinetd reload > /dev/null 2>&1 || :

%postun server
if [ $1 = 0 ]; then
  /sbin/service xinetd reload > /dev/null 2>&1 || :
fi

%clean
rm -rf ${RPM_BUILD_ROOT}

%files
%defattr(-,root,root)
%{_bindir}/tftp
%{_mandir}/man1/*

%files server
%defattr(-,root,root)
%config(noreplace) % {_sysconfdir}/xinetd.d/tftp
%dir /tftpboot
%{_sbindir}/in.tftpd
%{_mandir}/man8/*

%changelog
* Tue Sep 14 2004 H. Peter Anvin <hpa@zytor.com>
- removed completely broken "Malta" patch.
- integrated into build machinery so rpm -ta works.

* Fri Feb 13 2004 Elliot Lee <sopwith@redhat.com>
- rebuilt

* Wed Jun 04 2003 Elliot Lee <sopwith@redhat.com>
- rebuilt

* Fri Apr 11 2003 Elliot Lee <sopwith@redhat.com>
- 0.33
- Add /tftpboot directory (#88204)

```

- * Mon Feb 24 2003 Elliot Lee <sopwith@redhat.com>
- rebuilt
- * Sun Feb 23 2003 Tim Powers <timp@redhat.com>
- add BuildPreReq on tcp_wrappers
- * Wed Jan 22 2003 Tim Powers <timp@redhat.com>
- rebuilt
- * Mon Nov 11 2002 Elliot Lee <sopwith@redhat.com> 0.32-1
- Update to 0.32
- * Wed Oct 23 2002 Elliot Lee <sopwith@redhat.com> 0.30-1
- Fix #55789
- Update to 0.30
- * Thu Jun 27 2002 Elliot Lee <sopwith@redhat.com>
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- * Fri Jun 21 2002 Tim Powers <timp@redhat.com>
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- * Wed Apr 4 2001 Jakub Jelinek <jakub@redhat.com>
 - don't let configure to guess compiler, it can pick up egcs

- * Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
 - changed "wait" in xinetd file to "yes" (hpa-tftpd forks and exits) (#26467)
 - fixed hpa-tftpd to handle files greater than 32MB (#23725)
 - added "-l" flag to hpa-tftpd for file-logging (#26467)
 - added description for "-l" to the man-page

- * Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
 - updated tftp client to 0.17 stable (#19640),
 - drop dependency on xinetd for tftp client (#25051),

- * Wed Jan 17 2001 Jeff Johnson <jbj@redhat.com>
 - xinetd shouldn't wait on tftp (which forks) (#23923).

- * Sat Jan 6 2001 Jeff Johnson <jbj@redhat.com>
 - fix to permit tftp put's (#18128).
 - startup as root with chroot to /tftpboot with early reversion to nobody is preferable to starting as nobody w/o ability to chroot.
 - %%post is needed by server, not client. Add %%postun for erasure as well.

- * Wed Aug 23 2000 Nalin Dahyabhai <nalin@redhat.com>
 - default to being disabled

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 - correct group.

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 - change user from root to nobody

- * Sat Jul 22 2000 Jeff Johnson <jbj@redhat.com>
 - update to tftp-hpa-0.14 (#14003).
 - add server_args (#14003).
 - remove -D_BSD_SOURCE (#14003).

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 - cook up an xinetd config file for tftpd

- * Wed Jul 12 2000 Prospector <bugzilla@redhat.com>
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- FHS packaging.
- update to 0.17.

- * Fri May 5 2000 Matt Wilson <msw@redhat.com>
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- * Fri Feb 11 2000 Bill Nottingham <notting@redhat.com>
- fix description

- * Wed Feb 9 2000 Jeff Johnson <jbj@redhat.com>
- compress man pages (again).

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- compile for 6.0.

- * Fri Aug 7 1998 Jeff Johnson <jbj@redhat.com>
- build root

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- translations modified for de, fr, tr

- * Mon Sep 22 1997 Erik Troan <ewt@redhat.com>
- added check for `getpwnam()` failure

- * Tue Jul 15 1997 Erik Troan <ewt@redhat.com>
- initial build

Found in path(s):

- * `/opt/cola/permits/1155513984_1620489359.97/0/tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/tftp.spec`

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* /opt/cola/permits/1155513984_1620489359.97/0/tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/tftp/extern.h

* /opt/cola/permits/1155513984_1620489359.97/0/tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/common/tftpsubs.h

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*

* ----- */

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* /opt/cola/permits/1155513984_1620489359.97/0/tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/tftpd/tftpd.h

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Found in path(s):

* /opt/cola/permits/1155513984_1620489359.97/0/tftp-hpa-0-49-orig-tar-gz/tftp-hpa-0.49/tftpd/tftpd.c

1.238 suds 0.4.1

1.238.1 Available under license :

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Version 3, 29 June 2007

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1.239 ncurses 5.7-4.20090207.el6

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Files: doc/html/NCURSES-Programming-HOWTO.html

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1.240 openssl 0.9.7l

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```
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Copyright (C) 19yy <name of author>
```

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```
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```

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The End

1.241 libmspack 0.5-0.7.alpha.el7

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Version 2.1, February 1999

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1.242 xmltooling 1.4.1

1.243 glibc 2.18

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Although the Lesser General Public License is less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

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1.248 httpcomponents-core 4.4.4

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1.249 libxtst 1.2.3-1.e16

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1.250 pyxml 0.8.4

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schema/trex.py

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test/domapi/ (and test/test_pyxmlldom.py)

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1.251 cxf-services-ws-discovery-service

2.7.14

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1.253 tftp-hpa 0.29

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* @(#)extern.h 8.1 (Berkeley) 6/6/93

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* /opt/cola/permits/1111969033_1611222394.3/0/distrotech-tftp-hpa-tftp-hpa-0-29-0-gd849153-tar-gz/Distrotech-tftp-hpa-f603e8d/tftp/tftpsubs.c
* /opt/cola/permits/1111969033_1611222394.3/0/distrotech-tftp-hpa-tftp-hpa-0-29-0-gd849153-tar-gz/Distrotech-tftp-hpa-f603e8d/tftp/main.c

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1.254 tdb 1.3.8-3.el6_8.2

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The primary ANTLR guy:

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* /opt/ws_local/PERMITS_SQL/1078139564_1597259690.4/0/jackson-2-6-6-sources-1-
jar/com/mastfrog/jackson/JavaTimeConfigurer.java
* /opt/ws_local/PERMITS_SQL/1078139564_1597259690.4/0/jackson-2-6-6-sources-1-
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* /opt/ws_local/PERMITS_SQL/1078139564_1597259690.4/0/jackson-2-6-6-sources-1-
jar/com/mastfrog/jackson/OptionalSerializer.java
* /opt/ws_local/PERMITS_SQL/1078139564_1597259690.4/0/jackson-2-6-6-sources-1-
jar/com/mastfrog/jackson/OptionalJavaUtilSerializer.java
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xwd v1.0.7

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1.268 dtd-parser 1.2-SNAPSHOT

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```

```
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The End

1.270 libtiff 3.9.4 21.e16_8

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1.271 opensaml-java 2.6.1

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Committee Specification 01

03 April 2012

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* /opt/cola/permits/1001088687_1611227710.29/0/opensaml-2-6-1-5-jar/schema/saml-metadata-rpi-v1.0.xsd

1.272 activemq 5.8.0

1.272.1 Available under license :

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loginrec.h

atomicio.h

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*

* curve25519-donna: Curve25519 elliptic curve, public key function

*

* <http://code.google.com/p/curve25519-donna/>

*

* Adam Langley <agl@imperialviolet.org>

*

* Derived from public domain C code by Daniel J. Bernstein <djb@cr.yp.to>

*

* More information about curve25519 can be found here

* <http://cr.yp.to/ecdh.html>

*

* djb's sample implementation of curve25519 is written in a special assembly
* language called qhasm and uses the floating point registers.

*

* This is, almost, a clean room reimplementation from the curve25519 paper. It
* uses many of the tricks described therein. Only the crecip function is taken
* from the sample implementation.

*/

1.274 jetty-http 8.1.15.v20140411

1.275 servlet-api 3.0.1

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1.277 python-dateutil 1.4.1

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

| Release from | Derived from | Year | Owner | GPL-compatible? (1) |
|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 | | 1991-1995 | CWI | yes |
| 1.3 thru 1.5.2 | 1.2 | 1995-1999 | CNRI | yes |
| 1.6 | 1.5.2 | 2000 | CNRI | no |
| 2.0 | 1.6 | 2000 | BeOpen.com | no |
| 1.6.1 | 1.6 | 2001 | CNRI | yes (2) |

| | | | | |
|-------|-----------|-----------|-----|-----|
| 2.1 | 2.0+1.6.1 | 2001 | PSF | no |
| 2.0.1 | 2.0+1.6.1 | 2001 | PSF | yes |
| 2.1.1 | 2.1+2.0.1 | 2001 | PSF | yes |
| 2.2 | 2.1.1 | 2001 | PSF | yes |
| 2.1.2 | 2.1.1 | 2002 | PSF | yes |
| 2.1.3 | 2.1.2 | 2002 | PSF | yes |
| 2.2.1 | 2.2 | 2002 | PSF | yes |
| 2.2.2 | 2.2.1 | 2002 | PSF | yes |
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1.282 jackson-mapper-asl 1.9.2

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jar/org/codehaus/jackson/map/MappingJsonFactory.java
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1.283 struts2-bean-validation-plugin 2.5.26

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1.284 openam-idpdiscovery 14.0.0-M6

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1.285 wsd14j 1.6.3

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1.289 iputils 20121221

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1.290 cxf-rt-databinding-jaxb 2.7.14

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1.291 jackson-annotations 2.6.0

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1.292 axis2-transport-http 1.6.1

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1.293 dmidecode 3.5

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- * /opt/cola/permits/1211711744_1633621406.09/0/jzlib-1-1-1-sources-1-jar/com/jcraft/jzlib/Deflate.java
- * /opt/cola/permits/1211711744_1633621406.09/0/jzlib-1-1-1-sources-1-jar/com/jcraft/jzlib/Adler32.java
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- * /opt/cola/permits/1211711744_1633621406.09/0/jzlib-1-1-1-sources-1-jar/com/jcraft/jzlib/StaticTree.java
- * /opt/cola/permits/1211711744_1633621406.09/0/jzlib-1-1-1-sources-1-jar/com/jcraft/jzlib/InfCodes.java
- * /opt/cola/permits/1211711744_1633621406.09/0/jzlib-1-1-1-sources-1-jar/com/jcraft/jzlib/Tree.java
- * /opt/cola/permits/1211711744_1633621406.09/0/jzlib-1-1-1-sources-1-jar/com/jcraft/jzlib/ZStreamException.java

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- * /opt/cola/permits/1211711744_1633621406.09/0/jzlib-1-1-1-sources-1-jar/com/jcraft/jzlib/ZOutputStream.java
- * /opt/cola/permits/1211711744_1633621406.09/0/jzlib-1-1-1-sources-1-jar/com/jcraft/jzlib/InfBlocks.java
- * /opt/cola/permits/1211711744_1633621406.09/0/jzlib-1-1-1-sources-1-jar/com/jcraft/jzlib/GZIPOutputStream.java
- * /opt/cola/permits/1211711744_1633621406.09/0/jzlib-1-1-1-sources-1-jar/com/jcraft/jzlib/CRC32.java
- * /opt/cola/permits/1211711744_1633621406.09/0/jzlib-1-1-1-sources-1-jar/com/jcraft/jzlib/GZIPInputStream.java
- * /opt/cola/permits/1211711744_1633621406.09/0/jzlib-1-1-1-sources-1-jar/com/jcraft/jzlib/InflaterInputStream.java
- * /opt/cola/permits/1211711744_1633621406.09/0/jzlib-1-1-1-sources-1-jar/com/jcraft/jzlib/Inflater.java
- * /opt/cola/permits/1211711744_1633621406.09/0/jzlib-1-1-1-sources-1-jar/com/jcraft/jzlib/GZIPException.java
- * /opt/cola/permits/1211711744_1633621406.09/0/jzlib-1-1-1-sources-1-jar/com/jcraft/jzlib/GZIPHeader.java
- * /opt/cola/permits/1211711744_1633621406.09/0/jzlib-1-1-1-sources-1-jar/com/jcraft/jzlib/DeflaterOutputStream.java
- * /opt/cola/permits/1211711744_1633621406.09/0/jzlib-1-1-1-sources-1-jar/com/jcraft/jzlib/Deflater.java
- * /opt/cola/permits/1211711744_1633621406.09/0/jzlib-1-1-1-sources-1-jar/com/jcraft/jzlib/JZlib.java
- * /opt/cola/permits/1211711744_1633621406.09/0/jzlib-1-1-1-sources-1-jar/com/jcraft/jzlib/Checksum.java

1.295 findutils 4.4.2 9.e16

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1.297 slf4j-log4j 1.0.1

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* /opt/ws_local/PERMITS_SQL/1011562842_1591899170.85/0/slf4j-log4j12-1-0-1-sources-jar/org/slf4j/impl/MarkerIgnoringBase.java
* /opt/ws_local/PERMITS_SQL/1011562842_1591899170.85/0/slf4j-log4j12-1-0-1-sources-jar/org/slf4j/Marker.java
* /opt/ws_local/PERMITS_SQL/1011562842_1591899170.85/0/slf4j-log4j12-1-0-1-sources-jar/org/slf4j/impl/Log4jLoggerFactory.java
* /opt/ws_local/PERMITS_SQL/1011562842_1591899170.85/0/slf4j-log4j12-1-0-1-sources-jar/org/slf4j/impl/BasicMarkerFactory.java

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jar/org/slf4j/Logger.java

* /opt/ws_local/PERMITS_SQL/1011562842_1591899170.85/0/slf4j-log4j12-1-0-1-sources-
jar/org/slf4j/ILoggerFactory.java

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jar/org/slf4j/LoggerFactory.java
* /opt/ws_local/PERMITS_SQL/1011562842_1591899170.85/0/slf4j-log4j12-1-0-1-sources-
jar/org/slf4j/impl/Log4jLoggerAdapter.java
* /opt/ws_local/PERMITS_SQL/1011562842_1591899170.85/0/slf4j-log4j12-1-0-1-sources-
jar/org/slf4j/impl/Util.java
* /opt/ws_local/PERMITS_SQL/1011562842_1591899170.85/0/slf4j-log4j12-1-0-1-sources-
jar/org/slf4j/spi/MarkerFactoryBinder.java
* /opt/ws_local/PERMITS_SQL/1011562842_1591899170.85/0/slf4j-log4j12-1-0-1-sources-
jar/org/slf4j/impl/StaticLoggerBinder.java
* /opt/ws_local/PERMITS_SQL/1011562842_1591899170.85/0/slf4j-log4j12-1-0-1-sources-
jar/org/slf4j/impl/StaticMarkerBinder.java
* /opt/ws_local/PERMITS_SQL/1011562842_1591899170.85/0/slf4j-log4j12-1-0-1-sources-
jar/org/slf4j/spi/LoggerFactoryBinder.java
* /opt/ws_local/PERMITS_SQL/1011562842_1591899170.85/0/slf4j-log4j12-1-0-1-sources-
jar/org/slf4j/impl/BasicMarker.java

1.298 zlib 1.2.5

1.298.1 Available under license :

/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.11, January 15th, 2017

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1.299 apache-log4j 1.2.16

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1.300 axiom-api 1.2.12

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1.302 bcel 2.7.1

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1.305 javax-ws-rs-api 2.0-m10

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1.306 cxf-tools-java2ws 2.7.14

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1.307 c-ares 1.7.5

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1.308 mail 1.5.1

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1.309 cxf-rt-transport-http 2.7.14

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1.310 ifxbkpcld 1.0-SNAPSHOT

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1.313 icu 42

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# -----
```

5. Time Zone Database

ICU uses the public domain data and code derived from Time Zone Database for its time zone support. The ownership of the TZ database is explained in BCP 175: Procedure for Maintaining the Time Zone Database section 7.

```
# 7. Database Ownership
#
```

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```

## Commands to generate dependency files
GEN_DEPS.c= $(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc= $(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE= -Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix
SO = so
## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation rules
%.$(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%.$(STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

## Dependency rules
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.c) $< \
| sed "s^\($*\)\.o[ :]*^1.o $@ :/g\" > $@; \
[ -s $@ ] || rm -f $@'

```



```

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \
| sed \"s^\($*\)\.o[ :]*^1.o $@ : /g\" > $@; \
[ -s $@ ] || rm -f $@'

## Versioned libraries rules

%.${SO}.${SO_TARGET_VERSION_MAJOR}: %.${SO}.${SO_TARGET_VERSION}
$(RM) $@ && ln -s ${<F} $@
%.${SO}: %.${SO}.${SO_TARGET_VERSION_MAJOR}
$(RM) $@ && ln -s ${*F}.${SO}.${SO_TARGET_VERSION} $@

## Bind internal references

# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic

# Dependencies [i.e. map files] for the final library
BIR_DEPS=

## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =

## End BSD-specific setup

```

1.314 cxf-rt-rs-extension-providers 2.7.14

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1.317 tiles-request-freemarker 1.0.7

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1.318 cxf-rt-management 2.7.14

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1.320 xmltooling 1.4.4

1.321 elfutils 0.164 2.el6

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```
<one line to give the program's name and a brief idea of what it does.>  
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```

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```

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```

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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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Version 3, 29 June 2007

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1.322 Ivm2 2.02.143 12.el6_9.1

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1.324 json-java 20090211

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1.327 tevent 0.9.26-2.el6_7

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* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/util/ASMifierClassVisitor.java
* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/util/TraceClassVisitor.java
* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/tree/FieldInsnNode.java
* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/ClassVisitor.java
* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/Label.java
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* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/tree/AbstractInsnNode.java
* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/MethodAdapter.java
* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-

jar/org/objectweb/asm/util/TraceMethodVisitor.java
* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-
jar/org/objectweb/asm/tree/analysis/SourceValue.java
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jar/org/objectweb/asm/tree/InsnNode.java
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jar/org/objectweb/asm/tree/LineNumberNode.java
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- * /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/attrs/package.html
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1.332 gdbm 1.8.0-39.el6

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jar/com/amazonaws/util/IdempotentUtils.java
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jar/com/amazonaws/http/timers/package-info.java
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jar/com/amazonaws/util/CapacityManager.java
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jar/com/amazonaws/http/apache/request/impl/ApacheHttpRequestFactory.java
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jar/com/amazonaws/http/conn/ssl/ShouldClearSslSessionPredicate.java
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jar/com/amazonaws/internal/DateTimeJsonSerializer.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-
jar/com/amazonaws/http/apache/utils/ApacheUtils.java
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jar/com/amazonaws/annotation/SdkTestInternalApi.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-
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* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-
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* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-
jar/com/amazonaws/annotation/Beta.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-
jar/com/amazonaws/annotation/SdkInternalApi.java
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jar/com/amazonaws/retry/internal/CredentialsEndpointRetryPolicy.java
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jar/com/amazonaws/auth/ContainerCredentialsRetryPolicy.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-
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jar/com/amazonaws/internal/CredentialsEndpointProvider.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-
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* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-
jar/com/amazonaws/retry/internal/CredentialsEndpointRetryParameters.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-
jar/com/amazonaws/auth/EC2CredentialsFetcher.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-
jar/com/amazonaws/auth/ContainerCredentialsProvider.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-
jar/com/amazonaws/internal/ConnectionUtils.java
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* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-jar/com/amazonaws/internal/http/CompositeErrorCodeParser.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-jar/com/amazonaws/internal/http/IonErrorCodeParser.java
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* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-

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* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-
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* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-
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* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-
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* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-
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* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-
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* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-
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* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-
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* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-
jar/com/amazonaws/auth/profile/internal/AwsProfileNameLoader.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-
jar/com/amazonaws/transform/AbstractErrorUnmarshaller.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-
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* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-
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jar/com/amazonaws/util/TimingInfoFullSupport.java
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jar/com/amazonaws/protocol/json/JsonErrorResponseMetadata.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-

jar/com/amazonaws/regions/DefaultAwsRegionProviderChain.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-
jar/com/amazonaws/regions/InstanceMetadataRegionProvider.java
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* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-jar/com/amazonaws/metrics/MetricAdmin.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-jar/com/amazonaws/jmx/JmxInfoProviderSupport.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-jar/com/amazonaws/metrics/MetricAdminMBean.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-jar/com/amazonaws/util/ServiceClientHolderInputStream.java
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* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-jar/com/amazonaws/jmx/spi/JmxInfoProvider.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-jar/com/amazonaws/auth/AWSSessionCredentialsProvider.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-jar/com/amazonaws/jmx/spi/SdkMBeanRegistry.java

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* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-jar/com/amazonaws/partitions/PartitionsLoader.java

* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-jar/com/amazonaws/regions/RegionMetadataProvider.java

* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-jar/com/amazonaws/regions/AbstractRegionMetadataProvider.java

* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-jar/com/amazonaws/regions/LegacyRegionXmlLoadUtils.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-jar/com/amazonaws/partitions/model/Endpoint.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-jar/com/amazonaws/transform/SimpleTypeCborUnmarshaller.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-jar/com/amazonaws/partitions/PartitionMetadataProvider.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-jar/com/amazonaws/partitions/model/CredentialScope.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-jar/com/amazonaws/regions/InMemoryRegionImpl.java
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* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-jar/com/amazonaws/regions/RegionMetadataFactory.java
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* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-jar/com/amazonaws/http/apache/client/impl/CRC32ChecksumResponseInterceptor.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-jar/com/amazonaws/partitions/PartitionRegionImpl.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-jar/com/amazonaws/protocol/json/SdkStructuredIonFactory.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-jar/com/amazonaws/partitions/model/Service.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-jar/com/amazonaws/regions/RegionImpl.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-jar/com/amazonaws/http/apache/SdkProxyRoutePlanner.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-jar/com/amazonaws/regions/LegacyRegionXmlMetadataBuilder.java
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* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-jar/com/amazonaws/internal/config/JsonIndex.java

* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-jar/com/amazonaws/internal/config/SignerConfig.java

* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-jar/com/amazonaws/internal/config/Builder.java

* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-jar/com/amazonaws/internal/config/SignerConfigJsonHelper.java

* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-jar/com/amazonaws/util/ImmutableMapParameter.java

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* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-jar/com/amazonaws/internal/ReleasableInputStream.java

* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-jar/com/amazonaws/internal/ResettableInputStream.java

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jar/com/amazonaws/adapters/types/StringToByteBufferAdapter.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-
jar/com/amazonaws/util/MetadataCache.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-
jar/com/amazonaws/internal/auth/NoOpSignerProvider.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-
jar/com/amazonaws/internal/auth/SignerProviderContext.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-
jar/com/amazonaws/internal/auth/DefaultSignerProvider.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-
jar/com/amazonaws/adapters/types/StringToInputStreamAdapter.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-
jar/com/amazonaws/internal/auth/SignerProvider.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-
jar/com/amazonaws/adapters/types/TypeAdapter.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-
jar/com/amazonaws/util/NullResponseMetadataCache.java

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* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-jar/com/amazonaws/internal/CRC32MismatchException.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-jar/com/amazonaws/auth/DefaultAWSCredentialsProviderChain.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-jar/com/amazonaws/auth/ClasspathPropertiesFileCredentialsProvider.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-jar/com/amazonaws/internal/CustomBackoffStrategy.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-jar/com/amazonaws/auth/SystemPropertiesCredentialsProvider.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-jar/com/amazonaws/internal/DynamoDBBackoffStrategy.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-jar/com/amazonaws/util/AwsHostNameUtils.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-jar/com/amazonaws/internal/EC2MetadataClient.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-jar/com/amazonaws/http/IdleConnectionReaper.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-jar/com/amazonaws/auth/EnvironmentVariableCredentialsProvider.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-jar/com/amazonaws/auth/AWSCredentialsProviderChain.java

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* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-jar/com/amazonaws/transform/VoidUnmarshaller.java

* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-jar/com/amazonaws/AmazonClientException.java

* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-jar/com/amazonaws/auth/SignatureVersion.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-jar/com/amazonaws/transform/Unmarshaller.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-jar/com/amazonaws/auth/SigningAlgorithm.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-jar/com/amazonaws/http/HttpMethodName.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-jar/com/amazonaws/transform/LegacyErrorUnmarshaller.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-jar/com/amazonaws/transform/SimpleTypeUnmarshallers.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-jar/com/amazonaws/auth/AWSCredentials.java

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* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-jar/com/amazonaws/util/JodaTime.java

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- * /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-jar/com/amazonaws/regions/RegionMetadata.java
- * /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-jar/com/amazonaws/internal/SdkBufferedInputStream.java
- * /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-jar/com/amazonaws/util/IOUtils.java
- * /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-jar/com/amazonaws/internal/MetricAware.java
- * /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-jar/com/amazonaws/util/Base64.java
- * /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-jar/com/amazonaws/util/Base32Codec.java
- * /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-jar/com/amazonaws/util/Base64Codec.java
- * /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-jar/com/amazonaws/auth/AWS4Signer.java
- * /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-jar/com/amazonaws/internal/SdkDigestInputStream.java
- * /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-jar/com/amazonaws/AbortedException.java
- * /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-jar/com/amazonaws/util/EncodingSchemeEnum.java
- * /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-jar/com/amazonaws/util/Base32.java
- * /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-jar/com/amazonaws/util/AbstractBase32Codec.java
- * /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-jar/com/amazonaws/ResetException.java
- * /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-jar/com/amazonaws/util/Base16Codec.java
- * /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-jar/com/amazonaws/util/HttpClientWrappingInputStream.java
- * /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-jar/com/amazonaws/jmx/SdkMBeanRegistrySupport.java
- * /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-jar/com/amazonaws/util/EC2MetadataUtils.java
- * /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-jar/com/amazonaws/internal/SdkFilterInputStream.java
- * /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-jar/com/amazonaws/util/EncodingScheme.java
- * /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-jar/com/amazonaws/util/Throwables.java

* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-jar/com/amazonaws/internal/ListWithAutoConstructFlag.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-jar/com/amazonaws/util/Codec.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-jar/com/amazonaws/util/CodecUtils.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-jar/com/amazonaws/internal/SdkFilterOutputStream.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-jar/com/amazonaws/auth/ServiceAwareSigner.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-jar/com/amazonaws/util/SdkRuntime.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-jar/com/amazonaws/regions/RegionMetadataParser.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-jar/com/amazonaws/regions/RegionUtils.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-jar/com/amazonaws/regions/Region.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-jar/com/amazonaws/util/Base16.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-jar/com/amazonaws/auth/RegionAwareSigner.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-jar/com/amazonaws/internal/MetricsInputStream.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-jar/com/amazonaws/jmx/MBeans.java

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 * Interface for providing AWS region information. Implementations are free to use any strategy for
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 */
```

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```
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jar/com/amazonaws/http/conn/ssl/SdkTLSSocketFactory.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-
jar/com/amazonaws/http/conn/ssl/TLSProtocol.java
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* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-jar/com/amazonaws/util/BinaryUtils.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-jar/com/amazonaws/util/Classes.java

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* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-jar/com/amazonaws/log/CommonsLog.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-jar/com/amazonaws/internal/DelegateSocket.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-jar/com/amazonaws/internal/DelegateInputStream.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-jar/com/amazonaws/http/settings/HttpClientSettings.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-

jar/com/amazonaws/http/exception/HttpRequestTimeoutException.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-
jar/com/amazonaws/util/Base16Lower.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-
jar/com/amazonaws/handlers/StackedRequestHandler.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-
jar/com/amazonaws/SystemDefaultDnsResolver.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-
jar/com/amazonaws/http/timers/request/HttpRequestTimer.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-
jar/com/amazonaws/util/JavaVersionParser.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-
jar/com/amazonaws/internal/SdkInternalList.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-
jar/com/amazonaws/internal/SdkInternalMap.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-
jar/com/amazonaws/DnsResolver.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-
jar/com/amazonaws/http/timers/client/ClientExecutionAbortTaskImpl.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-
jar/com/amazonaws/log/InternalLog.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-
jar/com/amazonaws/internal/SdkSSLMetricsSocket.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-
jar/com/amazonaws/http/client/HttpClientFactory.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-
jar/com/amazonaws/http/conn/SdkConnectionKeepAliveStrategy.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-
jar/com/amazonaws/http/DelegatingDnsResolver.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-
jar/com/amazonaws/internal/http/JsonErrorCodeParser.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-
jar/com/amazonaws/http/timers/client/ClientExecutionAbortTrackerTaskImpl.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-
jar/com/amazonaws/SDKGlobalTime.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-
jar/com/amazonaws/http/timers/request/HttpRequestAbortTask.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-
jar/com/amazonaws/http/timers/TimeoutThreadPoolBuilder.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-
jar/com/amazonaws/internal/SdkIOUtils.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-
jar/com/amazonaws/http/timers/request/NoOpHttpRequestAbortTaskTracker.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-
jar/com/amazonaws/http/timers/client/ClientExecutionTimer.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-
jar/com/amazonaws/transform/JsonErrorUnmarshaller.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-

jar/com/amazonaws/http/JsonErrorResponseHandler.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-
jar/com/amazonaws/http/conn/ssl/MasterSecretValidators.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-
jar/com/amazonaws/http/client/ConnectionFactory.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-
jar/com/amazonaws/http/conn/ssl/privileged/PrivilegedMasterSecretValidator.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-
jar/com/amazonaws/util/UriResourcePathUtils.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-
jar/com/amazonaws/http/timers/client/ClientExecutionTimeoutException.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-
jar/com/amazonaws/log/CommonsLogFactory.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-
jar/com/amazonaws/http/timers/request/HttpRequestAbortTaskImpl.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-
jar/com/amazonaws/http/timers/client/ClientExecutionAbortTask.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-
jar/com/amazonaws/http/timers/client/NoOpClientExecutionAbortTrackerTask.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-
jar/com/amazonaws/http/timers/client/ClientExecutionAbortTrackerTask.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-
jar/com/amazonaws/PredefinedClientConfigurations.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-
jar/com/amazonaws/handlers/HandlerContextKey.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-
jar/com/amazonaws/util/ValidationUtils.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-
jar/com/amazonaws/util/SdkHttpUtils.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-
jar/com/amazonaws/log/JulLog.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-
jar/com/amazonaws/internal/http/JsonErrorMessageParser.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-
jar/com/amazonaws/http/timers/request/HttpRequestAbortTaskTracker.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-
jar/com/amazonaws/util/ComparableUtils.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-
jar/com/amazonaws/util/NumberUtils.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-
jar/com/amazonaws/log/JulLogFactory.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-
jar/com/amazonaws/ReadLimitInfo.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-
jar/com/amazonaws/http/timers/request/HttpRequestAbortTaskTrackerImpl.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-
jar/com/amazonaws/SignableRequest.java

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jar/com/amazonaws/transform/SimpleTypeIonUnmarshallers.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-
jar/com/amazonaws/protocol/json/IonParser.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-
jar/com/amazonaws/protocol/json/IonFactory.java
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* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-
jar/com/amazonaws/util/LengthCheckInputStream.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-
jar/com/amazonaws/event/ResponseProgressInputStream.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-
jar/com/amazonaws/auth/profile/internal/securitytoken/STSPProfileCredentialsServiceProvider.java
```

* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-jar/com/amazonaws/util/UnreliableFilterInputStream.java

* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-jar/com/amazonaws/event/DeliveryMode.java

* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-jar/com/amazonaws/event/request/ProgressSupport.java

* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-jar/com/amazonaws/http/UnreliableTestConfig.java

* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-jar/com/amazonaws/auth/profile/ProfileCredentialsProvider.java

* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-jar/com/amazonaws/auth/internal/SignerConstants.java

* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-jar/com/amazonaws/auth/profile/internal/securitytoken/RoleInfo.java

* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-jar/com/amazonaws/event/SDKProgressPublisher.java

* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-jar/com/amazonaws/event/SyncProgressListener.java

* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-jar/com/amazonaws/auth/profile/internal/securitytoken/STSPProfileCredentialsServiceLoader.java

* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-jar/com/amazonaws/auth/profile/ProfilesConfigFileWriter.java

* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-jar/com/amazonaws/auth/internal/AWS4SignerUtils.java

* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-jar/com/amazonaws/event/ProgressInputStream.java

* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-jar/com/amazonaws/auth/internal/AWS4SignerRequestParams.java

* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-jar/com/amazonaws/event/RequestProgressInputStream.java

* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-jar/com/amazonaws/event/ProgressEventFilter.java

* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-jar/com/amazonaws/auth/profile/package-info.java

* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-jar/com/amazonaws/auth/profile/ProfilesConfigFile.java

* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-jar/com/amazonaws/internal/FIFOCache.java

* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-jar/com/amazonaws/internal/DelegateSSLSocket.java

* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-jar/com/amazonaws/event/ProgressTracker.java

* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-jar/com/amazonaws/internal/SdkSSLSocket.java

* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-jar/com/amazonaws/auth/internal/SignerKey.java

* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-jar/com/amazonaws/internal/SdkSocket.java

```
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-
jar/com/amazonaws/internal/BoundedLinkedHashMap.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-
jar/com/amazonaws/event/request/Progress.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-
jar/com/amazonaws/internal/SdkInputStream.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-
jar/com/amazonaws/auth/profile/internal/BasicProfileConfigLoader.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-
jar/com/amazonaws/auth/profile/internal/AbstractProfilesConfigFileScanner.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-
jar/com/amazonaws/internal/Releasable.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-
jar/com/amazonaws/auth/profile/internal/securitytoken/ProfileCredentialsService.java
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-
jar/com/amazonaws/auth/profile/internal/Profile.java
```

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*/
/**
* Interface for providing AWS credentials. Implementations are free to use any
* strategy for providing AWS credentials, such as simply providing static
* credentials that don't change, or more complicated implementations, such as
* integrating with existing key management systems.
*/
```

Found in path(s):

```
* /opt/cola/permits/1263968425_1643733567.91/0/aws-java-sdk-core-1-11-61-sources-
jar/com/amazonaws/auth/AWSCredentialsProvider.java
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1.334 cxf-rt-ws-policy 2.7.14

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1.335 libxfont 7.5-21.el7

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```
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   written by Mark Eichin <eichin@kitten.gen.ma.us> September 1996.
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```

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* \$Id: AMCertPath.java,v 1.5 2009/07/16 00:02:24 beomsuk Exp \$

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Contributors to bttv:

Michael Chu <mmchu@pobox.com>

AverMedia fix and more flexible card recognition

Alan Cox <alan@redhat.com>
Video4Linux interface and 2.1.x kernel adaptation

Chris Kleitsch
Hardware I2C

Gerd Knorr <kraxel@cs.tu-berlin.de>
Radio card (ITT sound processor)

bigfoot <bigfoot@net-way.net>
Ragnar Hojland Espinosa <ragnar@macula.net>
ConferenceTV card

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Thanks go to the following people for patches and contributions:

Michael Hunold <m.hunold@gmx.de>
for the initial saa7146 driver and it's recent overhaul

Christian Theiss
for his work on the initial Linux DVB driver

Marcus Metzler <mocm@metzlerbros.de>
Ralph Metzler <rjkm@metzlerbros.de>
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Michael Holzt <kju@debian.org>
for his contributions to the dvb-net driver

Diego Picciani <d.picciani@novacomp.it>
for CyberLogin for Linux which allows logging onto EON
(in case you are wondering where CyberLogin is, EON changed its login procedure and CyberLogin is no longer used.)

Martin Schaller <martin@smurf.franken.de>
for patching the cable card decoder driver

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for various fixes regarding tuning, OSD and CI stuff and his work on VDR

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for his LIRC infrared handler

Andreas Oberritter <obi@linuxtv.org>
Dennis Noermann <dennis.noermann@noernet.de>
Felix Domke <tmbinc@elitedvb.net>
Florian Schirmer <jolt@tuxbox.org>
Ronny Strutz <3des@elitedvb.de>
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...and all the other dbox2 people
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Oliver Endriss <o.endriss@gmx.de>
for many bugfixes

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for the tda1004x frontend driver, and various bugfixes

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for the driver for the Technisat SkyStar2 PCI DVB card

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the module unloading problems, ...

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for his work on calculating and checking the crc's for the
TechnoTrend/Hauppage DEC driver firmware

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Kenneth Aafly <ke-aa@frisurf.no>
for adding support for Typhoon DVB-S budget card

Ernst Peinlich <e.peinlich@inode.at>
for tuning/DiSEqC support for the DEC 3000-s

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for the IR code for the ttusb-dec driver

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for the lgdt330x frontend driver, and various bugfixes

Michael Krufky <mkrufky@m1k.net>
for maintaining v4l/dvb inter-tree dependencies

Taylor Jacob <rtjacob@earthlink.net>
for the nxt2002 frontend driver

Jean-Francois Thibert <jeanfrancois@sagetv.com>
for the nxt2004 frontend driver

Kirk Lapray <kirk.lapray@gmail.com>
for the or51211 and or51132 frontend drivers, and
for merging the nxt2002 and nxt2004 modules into a
single nxt200x frontend driver.

(If you think you should be in this list, but you are not, drop a
line to the DVB mailing list)

```
/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
*
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
* http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
*
* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
```


* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
* combined, allow nicstar_free_rx_skb to be called to
* recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.

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* M. Welsh, 6 July 1996

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jar/com/sun/xml/fastinfoset/algorithm/HexadecimalEncodingAlgorithm.java
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jar/com/sun/xml/fastinfoset/sax/SAXDocumentParser.java
* /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-
jar/com/sun/xml/fastinfoset/algorithm/BuiltInEncodingAlgorithm.java
* /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-
jar/com/sun/xml/fastinfoset/algorithm/FloatEncodingAlgorithm.java
* /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-
jar/com/sun/xml/fastinfoset/stax/StAXDocumentParser.java
* /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-
jar/com/sun/xml/fastinfoset/algorithm/BooleanEncodingAlgorithm.java
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jar/com/sun/xml/fastinfoset/org/apache/xerces/util/XMLChar.java

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- * /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-jar/org/jvnet/fastinfoset/FastInfosetSerializer.java
- * /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-jar/com/sun/xml/fastinfoset/stax/EventLocation.java
- * /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-jar/org/jvnet/fastinfoset/sax/helpers/FastInfosetDefaultHandler.java
- * /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-jar/com/sun/xml/fastinfoset/QualifiedName.java
- * /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-jar/com/sun/xml/fastinfoset/util/FixedEntryStringIntMap.java
- * /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-jar/com/sun/xml/fastinfoset/util/ValueArrayResourceException.java
- * /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-jar/com/sun/xml/fastinfoset/alphabet/BuiltInRestrictedAlphabets.java
- * /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-jar/org/jvnet/fastinfoset/sax/EncodingAlgorithmContentHandler.java
- * /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-jar/com/sun/xml/fastinfoset/tools/FI_SAX_XML.java
- * /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-jar/com/sun/xml/fastinfoset/algorithm/LongEncodingAlgorithm.java
- * /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-jar/com/sun/xml/fastinfoset/util/LocalNameQualifiedNamesMap.java
- * /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-jar/com/sun/xml/fastinfoset/sax/SAXDocumentSerializerWithPrefixMapping.java
- * /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-jar/com/sun/xml/fastinfoset/tools/FI_SAX_Or_XML_SAX_DOM_SAX_SAXEvent.java
- * /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-jar/org/jvnet/fastinfoset/sax/EncodingAlgorithmAttributes.java
- * /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-jar/com/sun/xml/fastinfoset/util/ValueArray.java
- * /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-jar/org/jvnet/fastinfoset/sax/FastInfosetWriter.java
- * /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-jar/org/jvnet/fastinfoset/sax/PrimitiveTypeContentHandler.java
- * /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-jar/org/jvnet/fastinfoset/FastInfosetParser.java
- * /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-jar/com/sun/xml/fastinfoset/sax/SystemIdResolver.java
- * /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-

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* /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-
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* /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-
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* /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-
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* /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-
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* /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-
jar/com/sun/xml/fastinfoset/util/CharArrayString.java
* /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-
jar/com/sun/xml/fastinfoset/util/CharArrayIntMap.java
* /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-
jar/org/jvnet/fastinfoset/EncodingAlgorithm.java
* /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-
jar/com/sun/xml/fastinfoset/stax/events/EmptyIterator.java
* /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-
jar/com/sun/xml/fastinfoset/stax/factory/StAXEventFactory.java
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```

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```
Found in path(s):
* /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-
jar/com/sun/xml/fastinfoset/resources/ResourceBundle.properties
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- * /

Found in path(s):

- * /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-jar/com/sun/xml/fastinfoset/CommonResourceBundle.java
- * /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-jar/com/sun/xml/fastinfoset/stax/factory/StAXOutputFactory.java
- * /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-jar/com/sun/xml/fastinfoset/tools/SAXEventSerializer.java
- * /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-jar/com/sun/xml/fastinfoset/tools/TransformInputOutput.java
- * /opt/cola/permits/1000966784_1646171595.15/0/fastinfoset-1-2-13-sources-jar/com/sun/xml/fastinfoset/stax/events/StartElementEvent.java
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=====

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1.343 fuse 2.8.3

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1.345 xsdlib 2010.1

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Upstream Authors:

John Ellson, Lucent (TCL/tk and codegen extensions)
Emden Gansner, AT&T Research (dot, neat)
Eleftherios Koutsofios, AT&T Research (dotty, lefty, spline-o-matic)
John Mocenigo, AT&T Research (Grappa)
Stephen North, AT&T Research (dot, neat)
Gordon Woodhull (Montage)
and
David Dobkin (spline-o-matic)
Vladimir Alexiev (codegen improvements)

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2006-2008, Cyril Brulebois <cyril.brulebois@enst-bretagne.fr>

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```

```
<signature of Ty Coon>, 1 April 1989
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```

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@enumerate 0

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Mesa 3-D graphics library

Version: 7.0

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Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

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That's all there is to it!
GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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The "Compilation Process" transforms code entirely represented in non-intermediate languages designed for human-written code, and/or in Java Virtual Machine byte code, into Target Code. Thus, for example, use of source code generators and preprocessors need not be considered part of the Compilation Process, since the Compilation Process can be understood as starting with the output of the generators or preprocessors.

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@node Library Copying

@appendixsec GNU LESSER GENERAL PUBLIC LICENSE

@cindex LGPL, Lesser General Public License

@center Version 2.1, February 1999

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@appendixsubsec Preamble

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We call this license the @dfn{Lesser} General Public License because it does @emph{Less} to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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@appendixsubsec TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

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@ifinfo

@center GNU LESSER GENERAL PUBLIC LICENSE

@center TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

@end ifinfo

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative

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If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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```

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<signature of Ty Coon>, 1 April 1989
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Version 2.1, February 1999

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HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser.

The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM.

Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood.

Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code.

Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code.

Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and

Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.

Thomas Funke (thf@zelator.in-berlin.de(?)) and

Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.

Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.

Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader

specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and

Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and

Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.

Alistair G. Crooks(agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports.
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.
Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to
a Motorola 88K processor running CX/UX (Harris NightHawk).
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to
nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.
David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the
code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the experimentation that led to the
current typed allocation facility. (His dynamic type inference code hasn't
made it into the released version of the collector, yet.)

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derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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(For example, a function in a library to compute square roots has

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- c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
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Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this

when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

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```
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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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```
Client application for querying drivers' configuration information
Copyright (C) 2003 Felix Kuehling
```

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```
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```

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```
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under certain conditions; type `show c' for details.
```

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```
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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

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Directory native/fdlibm

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1998-05-11

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* m4/ax_func_which_gethostbyname_r.m4

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1.354 woden-api 1.0M9

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1.355 cxf-tools-wsdlto-frontend-jaxws 2.7.14

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xwd v1.0.7

xwd utility

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Gallium code	src/ gallium/	MIT
Ext headers	GL/ glxext.h	Khronos
	GL/ glxext.h	Khronos
	GL/ wglxext.h	Khronos
	KHR/ khrplatform.h	Khronos

include/GL/gl.h :

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include/GL/wglxext.h :

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Martin Richards
23 February 2007

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/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.11, January 15th, 2017

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  <PropertyGroup>
    <OutputType>Exe</OutputType>
    <ApplicationManifest>App.manifest</ApplicationManifest>
    <!-- Blocked on ILAsm supporting embedding resources. See https://github.com/dotnet/coreclr/issues/20819 -->
    <IlrtTestKind>BuildOnly</IlrtTestKind>
    <!-- Test unsupported outside of windows -->
    <TestUnsupportedOutsideWindows>true</TestUnsupportedOutsideWindows>
    <DisableProjectBuild Condition="'$(TargetsUnix)' == 'true'">true</DisableProjectBuild>
    <!-- This test would require the runincontext.exe to include App.manifest describing the COM interfaces -->
    <UnloadabilityIncompatible>true</UnloadabilityIncompatible>
  </PropertyGroup>
  <ItemGroup>
    <Compile Include="Program.cs" />
    <Compile Include="..\ServerContracts/Server.CoClasses.cs" />
    <Compile Include="..\ServerContracts/Server.Contracts.cs" />
    <Compile Include="..\ServerContracts/ServerGuids.cs" />
  </ItemGroup>
  <ItemGroup>
    <ProjectReference Include="..\NativeServer/CMakeLists.txt" />
    <ProjectReference Include="$(TestSourceDir)Common/CoreCLRTestLibrary/CoreCLRTestLibrary.csproj" />
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Content: <https://stackoverflow.com/a/769713>

Question author: Bob The Janitor -- <https://stackoverflow.com/users/55102/bob-the-janitor>

Answer author: harp -- <https://stackoverflow.com/users/4525/harpo>

Use:

<https://github.com/dotnet/coreclr/blob/a9074bce5e3814db67dbec1c56f477202164d162/tests/src/sizeondisk/sodbench/SoDBench.cs#L738>

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1.367 jaxp-api 1.4.2

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1.368 json-c 0.11

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```
## *-makefile-*-
```

```
## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
```

```
## Copyright (c) 1999-2009, International Business Machines Corporation and
```

```
## others. All Rights Reserved.
```

```
## Commands to generate dependency files
```

```
GEN_DEPS.c= $(CC) -E -MM $(DEFS) $(CPPFLAGS)
```

```
GEN_DEPS.cc= $(CXX) -E -MM $(DEFS) $(CPPFLAGS)
```

```
## Flags for position independent code
```

```
SHAREDLIBCFLAGS = -fPIC
```

```
SHAREDLIBCXXFLAGS = -fPIC
```

```
SHAREDLIBCPPFLAGS = -DPIC
```

```
## Additional flags when building libraries and with threads
```

```
THREADSCPPFLAGS = -D_REENTRANT
```

```
LIBCPPFLAGS =
```

```

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE= -Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix
SO = so

## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation rules
%.${STATIC_O}: $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%.${STATIC_O}: $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

## Dependency rules
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.c) $< \
| sed "s^\($*\)\.o[ :]*^1.o $@ : /g\" > $@; \
[ -s $@ ] || rm -f $@'

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \
| sed "s^\($*\)\.o[ :]*^1.o $@ : /g\" > $@; \
[ -s $@ ] || rm -f $@'

## Versioned libraries rules

%.${SO}.${SO_TARGET_VERSION_MAJOR}: %.${SO}.${SO_TARGET_VERSION}
$(RM) $@ && ln -s ${<F} $@
%.${SO}: %.${SO}.${SO_TARGET_VERSION_MAJOR}
$(RM) $@ && ln -s ${*F}.${SO}.${SO_TARGET_VERSION} $@

```


1.371 xsom 20110809

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1.372 hk2-locator 2.3.0-b05

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1.373 openssl 0.9.8zh

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```

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```
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1.374 struts2-config-browser-plugin 2.5.26

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1.375 cxf-api 2.7.14

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* Tim Martin

* Rob Earhart

* Rob Siemborski

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* Tim Martin

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Found in path(s):

* /opt/cola/permits/1136652359_1613848860.77/0/spring-beans-3-0-7-release-sources-3-jar/org/springframework/beans/factory/config/RuntimeBeanReference.java

* /opt/cola/permits/1136652359_1613848860.77/0/spring-beans-3-0-7-release-sources-3-jar/org/springframework/beans/factory/parsing/QualifierEntry.java

* /opt/cola/permits/1136652359_1613848860.77/0/spring-beans-3-0-7-release-sources-3-jar/org/springframework/beans/factory/support/AutowireCandidateQualifier.java

* /opt/cola/permits/1136652359_1613848860.77/0/spring-beans-3-0-7-release-sources-3-jar/org/springframework/beans/factory/wiring/BeanWiringInfo.java

* /opt/cola/permits/1136652359_1613848860.77/0/spring-beans-3-0-7-release-sources-3-jar/org/springframework/beans/factory/serviceloader/ServiceLoaderFactoryBean.java

* /opt/cola/permits/1136652359_1613848860.77/0/spring-beans-3-0-7-release-sources-3-jar/org/springframework/beans/factory/parsing/ReaderContext.java

* /opt/cola/permits/1136652359_1613848860.77/0/spring-beans-3-0-7-release-sources-3-jar/org/springframework/beans/propertyeditors/StringTrimmerEditor.java

* /opt/cola/permits/1136652359_1613848860.77/0/spring-beans-3-0-7-release-sources-3-jar/org/springframework/beans/factory/BeanDefinitionStoreException.java

* /opt/cola/permits/1136652359_1613848860.77/0/spring-beans-3-0-7-release-sources-3-jar/org/springframework/beans/factory/config/BeanReferenceFactoryBean.java

* /opt/cola/permits/1136652359_1613848860.77/0/spring-beans-3-0-7-release-sources-3-jar/org/springframework/beans/factory/BeanNotOfRequiredTypeException.java

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jar/org/springframework/beans/factory/xml/XmlReaderContext.java
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- * /opt/cola/permits/1136652359_1613848860.77/0/spring-beans-3-0-7-release-sources-3-jar/org/springframework/beans/factory/config/BeanDefinitionVisitor.java
- * /opt/cola/permits/1136652359_1613848860.77/0/spring-beans-3-0-7-release-sources-3-jar/org/springframework/beans/factory/annotation/AutowiredAnnotationBeanPostProcessor.java
- * /opt/cola/permits/1136652359_1613848860.77/0/spring-beans-3-0-7-release-sources-3-jar/org/springframework/beans/propertyeditors/CustomDateEditor.java
- * /opt/cola/permits/1136652359_1613848860.77/0/spring-beans-3-0-7-release-sources-3-jar/org/springframework/beans/factory/annotation/Configurable.java
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- * /opt/cola/permits/1136652359_1613848860.77/0/spring-beans-3-0-7-release-sources-3-jar/org/springframework/beans/factory/annotation/Value.java
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- * /opt/cola/permits/1136652359_1613848860.77/0/spring-beans-3-0-7-release-sources-3-jar/org/springframework/beans/propertyeditors/CurrencyEditor.java
- * /opt/cola/permits/1136652359_1613848860.77/0/spring-beans-3-0-7-release-sources-3-jar/org/springframework/beans/factory/annotation/InjectionMetadata.java
- * /opt/cola/permits/1136652359_1613848860.77/0/spring-beans-3-0-7-release-sources-3-jar/org/springframework/beans/factory/annotation/Autowired.java
- * /opt/cola/permits/1136652359_1613848860.77/0/spring-beans-3-0-7-release-sources-3-jar/org/springframework/beans/BeanWrapper.java
- * /opt/cola/permits/1136652359_1613848860.77/0/spring-beans-3-0-7-release-sources-3-jar/org/springframework/beans/factory/annotation/RequiredAnnotationBeanPostProcessor.java
- * /opt/cola/permits/1136652359_1613848860.77/0/spring-beans-3-0-7-release-sources-3-jar/org/springframework/beans/BeanWrapperImpl.java
- * /opt/cola/permits/1136652359_1613848860.77/0/spring-beans-3-0-7-release-sources-3-jar/org/springframework/beans/factory/support/AbstractBeanFactory.java
- * /opt/cola/permits/1136652359_1613848860.77/0/spring-beans-3-0-7-release-sources-3-jar/org/springframework/beans/factory/support/DefaultListableBeanFactory.java
- * /opt/cola/permits/1136652359_1613848860.77/0/spring-beans-3-0-7-release-sources-3-jar/org/springframework/beans/factory/annotation/Qualifier.java
- * /opt/cola/permits/1136652359_1613848860.77/0/spring-beans-3-0-7-release-sources-3-jar/org/springframework/beans/support/ResourceEditorRegistrar.java
- * /opt/cola/permits/1136652359_1613848860.77/0/spring-beans-3-0-7-release-sources-3-jar/org/springframework/beans/TypeConverterDelegate.java

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jar/org/springframework/beans/factory/support/ConstructorResolver.java
* /opt/cola/permits/1136652359_1613848860.77/0/spring-beans-3-0-7-release-sources-3-
jar/org/springframework/beans/propertyeditors/UIIDEditor.java
* /opt/cola/permits/1136652359_1613848860.77/0/spring-beans-3-0-7-release-sources-3-
jar/org/springframework/beans/factory/support/SimpleInstantiationStrategy.java
* /opt/cola/permits/1136652359_1613848860.77/0/spring-beans-3-0-7-release-sources-3-
jar/org/springframework/beans/factory/config/PropertyPlaceholderConfigurer.java
* /opt/cola/permits/1136652359_1613848860.77/0/spring-beans-3-0-7-release-sources-3-
jar/org/springframework/beans/PropertyEditorRegistrySupport.java
* /opt/cola/permits/1136652359_1613848860.77/0/spring-beans-3-0-7-release-sources-3-
jar/org/springframework/beans/PropertyAccessorUtils.java
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jar/org/springframework/beans/factory/support/FactoryBeanRegistrySupport.java
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* /opt/cola/permits/1136652359_1613848860.77/0/spring-beans-3-0-7-release-sources-3-
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jar/org/springframework/beans/support/PagedListHolder.java

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1.380 security 21.0.0-alpha-23

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```
* /opt/cola/permits/1135935623_1613639042.9/0/asm-all-3-3-1-sources-6-
jar/org/objectweb/asm/commons/JSRInlinerAdapter.java
* /opt/cola/permits/1135935623_1613639042.9/0/asm-all-3-3-1-sources-6-
```

jar/org/objectweb/asm/tree/MethodNode.java
* /opt/cola/permits/1135935623_1613639042.9/0/asm-all-3-3-1-sources-6-
jar/org/objectweb/asm/tree/analysis/SmallSet.java
* /opt/cola/permits/1135935623_1613639042.9/0/asm-all-3-3-1-sources-6-jar/org/objectweb/asm/ClassReader.java
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* /opt/cola/permits/1135935623_1613639042.9/0/asm-all-3-3-1-sources-6-jar/org/objectweb/asm/signature/SignatureVisitor.java
* /opt/cola/permits/1135935623_1613639042.9/0/asm-all-3-3-1-sources-6-jar/org/objectweb/asm/util/TraceSignatureVisitor.java
* /opt/cola/permits/1135935623_1613639042.9/0/asm-all-3-3-1-sources-6-jar/org/objectweb/asm/commons/AnalyzerAdapter.java
* /opt/cola/permits/1135935623_1613639042.9/0/asm-all-3-3-1-sources-6-jar/org/objectweb/asm/tree/FieldInsnNode.java
* /opt/cola/permits/1135935623_1613639042.9/0/asm-all-3-3-1-sources-6-jar/org/objectweb/asm/commons/Method.java
* /opt/cola/permits/1135935623_1613639042.9/0/asm-all-3-3-1-sources-6-jar/org/objectweb/asm/tree/analysis/Analyzer.java
* /opt/cola/permits/1135935623_1613639042.9/0/asm-all-3-3-1-sources-6-jar/org/objectweb/asm/util/TraceClassVisitor.java
* /opt/cola/permits/1135935623_1613639042.9/0/asm-all-3-3-1-sources-6-jar/org/objectweb/asm/tree/MemberNode.java

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* /opt/cola/permits/1135935623_1613639042.9/0/asm-all-3-3-1-sources-6-jar/org/objectweb/asm/tree/AbstractInsnNode.java
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* /opt/cola/permits/1135935623_1613639042.9/0/asm-all-3-3-1-sources-6-jar/org/objectweb/asm/commons/RemappingFieldAdapter.java
* /opt/cola/permits/1135935623_1613639042.9/0/asm-all-3-3-1-sources-6-jar/org/objectweb/asm/MethodWriter.java
* /opt/cola/permits/1135935623_1613639042.9/0/asm-all-3-3-1-sources-6-jar/org/objectweb/asm/tree/ClassNode.java
* /opt/cola/permits/1135935623_1613639042.9/0/asm-all-3-3-1-sources-6-jar/org/objectweb/asm/util/AbstractVisitor.java
* /opt/cola/permits/1135935623_1613639042.9/0/asm-all-3-3-1-sources-6-jar/org/objectweb/asm/util/TraceAbstractVisitor.java
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* /opt/cola/permits/1135935623_1613639042.9/0/asm-all-3-3-1-sources-6-jar/org/objectweb/asm/tree/InnerClassNode.java
* /opt/cola/permits/1135935623_1613639042.9/0/asm-all-3-3-1-sources-6-jar/org/objectweb/asm/tree/LineNumberNode.java
* /opt/cola/permits/1135935623_1613639042.9/0/asm-all-3-3-1-sources-6-jar/org/objectweb/asm/tree/analysis/SimpleVerifier.java
* /opt/cola/permits/1135935623_1613639042.9/0/asm-all-3-3-1-sources-6-jar/org/objectweb/asm/commons/RemappingMethodAdapter.java
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* /opt/cola/permits/1135935623_1613639042.9/0/asm-all-3-3-1-sources-6-
jar/org/objectweb/asm/xml/Processor.java
* /opt/cola/permits/1135935623_1613639042.9/0/asm-all-3-3-1-sources-6-
jar/org/objectweb/asm/xml/SAXClassAdapter.java
* /opt/cola/permits/1135935623_1613639042.9/0/asm-all-3-3-1-sources-6-
jar/org/objectweb/asm/xml/SAXAdapter.java
* /opt/cola/permits/1135935623_1613639042.9/0/asm-all-3-3-1-sources-6-
jar/org/objectweb/asm/xml/ASMContentHandler.java
* /opt/cola/permits/1135935623_1613639042.9/0/asm-all-3-3-1-sources-6-
jar/org/objectweb/asm/xml/SAXAnnotationAdapter.java
* /opt/cola/permits/1135935623_1613639042.9/0/asm-all-3-3-1-sources-6-
jar/org/objectweb/asm/xml/SAXFieldAdapter.java

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jar/org/objectweb/asm/commons/package.html
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jar/org/objectweb/asm/tree/analysis/package.html

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```
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```

```
<signature of Ty Coon>, 1 April 1989
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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

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1.391 jaxb-api 2.2.6

1.392 xmlrpc-c 1.16.24

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1.393 xz 5.1.3alpha

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1.398 tiles-autotag-core-runtime 1.2

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1.406 slf4j 1.7.30

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1.407 cxf-rt-ws-mex 2.7.14

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1.408 tomcat-jdbc 9.0.56

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How to contact the author:

email: byronn@insightdist.com (Byron Nikolaidis)

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is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work

under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application

to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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The primary ANTLR guy:

Terence Parr
parrt@cs.usfca.edu
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if (browserType) {document.write("<div class=" + browserType + ">");if (browserVer) {document.write("<div
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if (browserType) {if (browserVer) {document.write("</div>"); }document.write("</div>");} // --
></script></body></html>
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1.433 spring-asm 3.0.7.RELEASE

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- * /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-jar/org/springframework/jca/cci/object/EisOperation.java
- * /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-jar/org/springframework/transaction/SavepointManager.java
- * /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-jar/org/springframework/jca/cci/CciOperationNotSupportedException.java
- * /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-jar/org/springframework/jca/cci/CannotCreateRecordException.java
- * /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-jar/org/springframework/jca/cci/object/SimpleRecordOperation.java
- * /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-jar/org/springframework/jca/cci/RecordTypeNotSupportedException.java

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- * /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-jar/org/springframework/transaction/support/ResourceHolderSupport.java
- * /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-jar/org/springframework/transaction/PlatformTransactionManager.java
- * /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-jar/org/springframework/dao/TransientDataAccessResourceException.java
- * /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-jar/org/springframework/dao/NonTransientDataAccessException.java

* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-jar/org/springframework/transaction/support/ResourceHolder.java
* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-jar/org/springframework/jca/cci/core/InteractionCallback.java
* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-jar/org/springframework/transaction/interceptor/TransactionAttributeSourceAdvisor.java
* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-jar/org/springframework/jca/cci/connection/TransactionAwareConnectionFactoryProxy.java
* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-jar/org/springframework/transaction/support/DefaultTransactionDefinition.java
* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-jar/org/springframework/jca/cci/core/ConnectionCallback.java
* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-jar/org/springframework/jca/cci/core/support/CciDaoSupport.java
* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-jar/org/springframework/transaction/interceptor/TransactionAttributeSourceEditor.java
* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-jar/org/springframework/jca/cci/core/CciOperations.java
* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-jar/org/springframework/jca/cci/core/RecordExtractor.java
* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-jar/org/springframework/transaction/interceptor/BeanFactoryTransactionAttributeSourceAdvisor.java
* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-jar/org/springframework/transaction/interceptor/TransactionAttributeSourcePointcut.java
* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-jar/org/springframework/dao/RecoverableDataAccessException.java
* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-jar/org/springframework/jca/context/SpringContextResourceAdapter.java
* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-jar/org/springframework/jca/cci/core/CciTemplate.java
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* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-jar/org/springframework/dao/TransientDataAccessException.java
* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-jar/org/springframework/dao/support/ChainedPersistenceExceptionTranslator.java

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- * /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-jar/org/springframework/dao/DataIntegrityViolationException.java
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- * /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-jar/org/springframework/dao/TypeMismatchDataAccessException.java
- * /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-jar/org/springframework/transaction/UnexpectedRollbackException.java
- * /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-jar/org/springframework/dao/UncategorizedDataAccessException.java
- * /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-jar/org/springframework/transaction/InvalidTimeoutException.java
- * /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-jar/org/springframework/dao/InvalidDataAccessApiUsageException.java
- * /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-jar/org/springframework/transaction/InvalidIsolationLevelException.java
- * /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-jar/org/springframework/transaction/TransactionUsageException.java
- * /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-jar/org/springframework/transaction/TransactionTimedOutException.java
- * /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-jar/org/springframework/dao/EmptyResultDataAccessException.java
- * /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-jar/org/springframework/transaction/NoTransactionException.java
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- * /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-jar/org/springframework/dao/CleanupFailureDataAccessException.java
- * /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-jar/org/springframework/dao/InvalidDataAccessResourceUsageException.java
- * /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-jar/org/springframework/dao/OptimisticLockingFailureException.java
- * /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-jar/org/springframework/dao/DataAccessResourceFailureException.java
- * /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-jar/org/springframework/dao/DataAccessException.java
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- * /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-jar/org/springframework/dao/PermissionDeniedDataAccessException.java
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* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-
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* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-
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* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-
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* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-
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* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-
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* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-
jar/org/springframework/dao/IncorrectResultSizeDataAccessException.java
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* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-jar/org/springframework/transaction/support/TransactionSynchronization.java
* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-jar/org/springframework/transaction/annotation/Propagation.java
* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-jar/org/springframework/transaction/interceptor/TransactionAttribute.java
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* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-jar/org/springframework/transaction/config/JtaTransactionManagerBeanDefinitionParser.java
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* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-jar/org/springframework/transaction/support/TransactionOperations.java
* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-jar/org/springframework/transaction/support/CallbackPreferringPlatformTransactionManager.java
* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-jar/org/springframework/transaction/config/TxNamespaceHandler.java
* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-jar/org/springframework/dao/DuplicateKeyException.java
* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-jar/org/springframework/transaction/support/AbstractTransactionStatus.java
* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-jar/org/springframework/transaction/config/AnnotationDrivenBeanDefinitionParser.java
* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-jar/org/springframework/transaction/interceptor/TransactionProxyFactoryBean.java
* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-jar/org/springframework/transaction/support/TransactionSynchronizationUtils.java
* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-jar/org/springframework/jca/support/LocalConnectionFactoryBean.java
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* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-jar/org/springframework/transaction/jta/TransactionFactory.java
* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-jar/org/springframework/transaction/jta/JtaAfterCompletionSynchronization.java

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* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-jar/org/springframework/transaction/TransactionStatus.java
* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-jar/org/springframework/jca/work/SimpleTaskWorkManager.java
* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-jar/org/springframework/transaction/support/TransactionCallback.java
* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-jar/org/springframework/jca/support/ResourceAdapterFactoryBean.java
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* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-jar/org/springframework/transaction/annotation/SpringTransactionAnnotationParser.java
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* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-jar/org/springframework/transaction/interceptor/DelegatingTransactionAttribute.java
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* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-
jar/org/springframework/transaction/jta/SimpleTransactionFactory.java
* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-
jar/org/springframework/jca/work/jboss/JBossWorkManagerTaskExecutor.java
* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-
jar/org/springframework/transaction/interceptor/TransactionAspectSupport.java
* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-
jar/org/springframework/transaction/annotation/Transactional.java
* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-
jar/org/springframework/transaction/interceptor/TransactionInterceptor.java
* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-
jar/org/springframework/transaction/interceptor/AbstractFallbackTransactionAttributeSource.java
* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-
jar/org/springframework/jca/work/glassfish/GlassFishWorkManagerTaskExecutor.java

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jar/org/springframework/jca/support/SimpleBootstrapContext.java
* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-
jar/org/springframework/transaction/jta/SpringJtaSynchronizationAdapter.java
* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-
jar/org/springframework/jca/context/BootstrapContextAwareProcessor.java
* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-
jar/org/springframework/transaction/annotation/TransactionAnnotationParser.java
* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-
jar/org/springframework/jca/work/DelegatingWork.java
* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-
jar/org/springframework/jca/cci/connection/DelegatingConnectionFactory.java
* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-
jar/org/springframework/jca/endpoint/GenericMessageEndpointFactory.java
* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-
jar/org/springframework/transaction/support/ResourceTransactionManager.java
* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-
jar/org/springframework/transaction/TransactionSystemException.java
* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-
jar/org/springframework/transaction/interceptor/RollbackRuleAttribute.java
* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-
jar/org/springframework/jca/cci/connection/CciLocalTransactionManager.java
* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-
jar/org/springframework/jca/context/BootstrapContextAware.java
* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-
jar/org/springframework/dao/annotation/PersistenceExceptionTranslationAdvisor.java
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* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-jar/org/springframework/jca/cci/CannotGetCciConnectionException.java
* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-jar/org/springframework/jca/cci/core/RecordCreator.java
* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-jar/org/springframework/jca/cci/object/MappingRecordOperation.java
* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-jar/org/springframework/jca/cci/connection/ConnectionHolder.java
* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-jar/org/springframework/jca/cci/core/support/CommAreaRecord.java
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* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-jar/org/springframework/transaction/support/DefaultTransactionStatus.java

1.434 wsdl4j 1.6

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* /opt/cola/permits/1136687521_1613859265.27/0/spring-jms-3-0-7-release-sources-3-jar/org/springframework/jms/listener/SimpleMessageListenerContainer.java

* /opt/cola/permits/1136687521_1613859265.27/0/spring-jms-3-0-7-release-sources-3-jar/org/springframework/jms/connection/JmsResourceHolder.java

* /opt/cola/permits/1136687521_1613859265.27/0/spring-jms-3-0-7-release-sources-3-jar/org/springframework/jms/listener/AbstractMessageListenerContainer.java

* /opt/cola/permits/1136687521_1613859265.27/0/spring-jms-3-0-7-release-sources-3-jar/org/springframework/jms/listener/DefaultMessageListenerContainer.java

* /opt/cola/permits/1136687521_1613859265.27/0/spring-jms-3-0-7-release-sources-3-jar/org/springframework/jms/listener/endpoint/JmsActivationSpecConfig.java

* /opt/cola/permits/1136687521_1613859265.27/0/spring-jms-3-0-7-release-sources-3-jar/org/springframework/jms/connection/UserCredentialsConnectionFactoryAdapter.java

* /opt/cola/permits/1136687521_1613859265.27/0/spring-jms-3-0-7-release-sources-3-jar/org/springframework/jms/config/AbstractListenerContainerParser.java

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* /opt/cola/permits/1136687521_1613859265.27/0/spring-jms-3-0-7-release-sources-3-
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jar/org/springframework/jms/support/destination/DestinationResolutionException.java
* /opt/cola/permits/1136687521_1613859265.27/0/spring-jms-3-0-7-release-sources-3-
jar/org/springframework/jms/support/converter/MessageConversionException.java
```

* /opt/cola/permits/1136687521_1613859265.27/0/spring-jms-3-0-7-release-sources-3-jar/org/springframework/jms/listener/adapters/ListenerExecutionFailedException.java
* /opt/cola/permits/1136687521_1613859265.27/0/spring-jms-3-0-7-release-sources-3-jar/org/springframework/jms/connection/SynchedLocalTransactionFailedException.java
* /opt/cola/permits/1136687521_1613859265.27/0/spring-jms-3-0-7-release-sources-3-jar/org/springframework/jms/support/destination/DynamicDestinationResolver.java
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* /opt/cola/permits/1136687521_1613859265.27/0/spring-jms-3-0-7-release-sources-3-jar/org/springframework/jms/support/converter/MessageConverter.java

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jar/org/springframework/jms/listener/endpoint/JmsMessageEndpointManager.java
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jar/org/springframework/jms/JmsSecurityException.java
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jar/org/springframework/jms/InvalidSelectorException.java
* /opt/cola/permits/1136687521_1613859265.27/0/spring-jms-3-0-7-release-sources-3-
jar/org/springframework/jms/InvalidClientIDException.java
* /opt/cola/permits/1136687521_1613859265.27/0/spring-jms-3-0-7-release-sources-3-
jar/org/springframework/jms/ResourceAllocationException.java
* /opt/cola/permits/1136687521_1613859265.27/0/spring-jms-3-0-7-release-sources-3-
jar/org/springframework/jms/support/destination/DestinationResolver.java
* /opt/cola/permits/1136687521_1613859265.27/0/spring-jms-3-0-7-release-sources-3-
jar/org/springframework/jms/UncategorizedJmsException.java
* /opt/cola/permits/1136687521_1613859265.27/0/spring-jms-3-0-7-release-sources-3-
jar/org/springframework/jms/MessageEOFException.java
* /opt/cola/permits/1136687521_1613859265.27/0/spring-jms-3-0-7-release-sources-3-
jar/org/springframework/jms/MessageFormatException.java
* /opt/cola/permits/1136687521_1613859265.27/0/spring-jms-3-0-7-release-sources-3-
jar/org/springframework/jms/listener/endpoint/JmsActivationSpecFactory.java
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- * /opt/cola/permits/1136687521_1613859265.27/0/spring-jms-3-0-7-release-sources-3-jar/org/springframework/jms/listener/adapters/MessageListenerAdapter102.java
- * /opt/cola/permits/1136687521_1613859265.27/0/spring-jms-3-0-7-release-sources-3-jar/org/springframework/jms/listener/adapters/MessageListenerAdapter.java
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jar/org/springframework/jms/core/SessionCallback.java
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jar/org/springframework/jms/listener/LocallyExposedJmsResourceHolder.java
* /opt/cola/permits/1136687521_1613859265.27/0/spring-jms-3-0-7-release-sources-3-
jar/org/springframework/jms/connection/CachedMessageConsumer.java
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jar/org/springframework/jms/connection/CachedMessageProducer.java
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jar/org/springframework/jms/core/JmsOperations.java
* /opt/cola/permits/1136687521_1613859265.27/0/spring-jms-3-0-7-release-sources-3-
jar/org/springframework/jms/listener/SubscriptionNameProvider.java
* /opt/cola/permits/1136687521_1613859265.27/0/spring-jms-3-0-7-release-sources-3-
jar/org/springframework/jms/core/ProducerCallback.java

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jar/org/springframework/jms/connection/SessionProxy.java
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1.441 tomcat 9.0.56

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- javaee_web_services_1_2.xsd
- javaee_web_services_client_1_2.xsd
- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
- web-app_3_1.xsd
- web-common_3_1.xsd
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1.445 curl 7.21.2

1.445.1 Available under license :

License Mixing

=====

libcurl can be built to use a fair amount of various third party libraries, libraries that are written and provided by other parties that are distributed using their own licenses. Even libcurl itself contains code that may cause problems to some. This document attempts to describe what licenses libcurl and

the other libraries use and what possible dilemmas linking and mixing them all can lead to for end users.

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1.446 zlib 1.2.11

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/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.11, January 15th, 2017

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1.447 nss 3.44.0-4.el7

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Balzs Dn <balazs.dan@gmail.com>

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1.449 javaip 0.14

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1.450 axis2-xmlbeans 1.6.2

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jar/org/springframework/expression/Expression.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
jar/org/springframework/expression/spel/support/ReflectiveConstructorExecutor.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
jar/org/springframework/expression/spel/support/ReflectiveConstructorResolver.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
jar/org/springframework/expression/BeanResolver.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
jar/org/springframework/expression/spel/ast/InlineList.java
No license file was found, but licenses were detected in source scan.

" +

Found in path(s):

* "" for expression starting at character " + prefixIndex + "
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```
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*/
```

Found in path(s):

* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
jar/org/springframework/expression/ParserContext.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
jar/org/springframework/expression/spel/SpelParseException.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
jar/org/springframework/expression/spel/SpelEvaluationException.java
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Found in path(s):

* * <http>

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case '[': case '(':

Found in path(s):

* case '{'

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*/

Found in path(s):

* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-jar/org/springframework/expression/spel/ast/Operator.java

* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-jar/org/springframework/expression/spel/SpelParserConfiguration.java

* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-jar/org/springframework/expression/EvaluationException.java

* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-jar/org/springframework/expression/spel/ast/OperatorMatches.java

* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-jar/org/springframework/expression/spel/ast/NullLiteral.java

* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-jar/org/springframework/expression/spel/ast/TypeReference.java

* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-jar/org/springframework/expression/spel/ast/OpEQ.java

* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-jar/org/springframework/expression/spel/standard/TokenKind.java

* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-jar/org/springframework/expression/spel/ast/TypeCode.java

* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-jar/org/springframework/expression/MethodFilter.java

* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-jar/org/springframework/expression/PropertyAccessor.java

* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-

jar/org/springframework/expression/spel/ast/OpLE.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
jar/org/springframework/expression/ExpressionException.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
jar/org/springframework/expression/spel/ast/RealLiteral.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
jar/org/springframework/expression/spel/ast/QualifiedIdentifier.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
jar/org/springframework/expression/spel/standard/InternalSpelExpressionParser.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
jar/org/springframework/expression/spel/ast/Assign.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
jar/org/springframework/expression/spel/ast/OpLT.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
jar/org/springframework/expression/spel/ast/CompoundExpression.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
jar/org/springframework/expression/spel/support/BooleanTypedValue.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
jar/org/springframework/expression/spel/standard/SpelExpressionParser.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
jar/org/springframework/expression/spel/ast/OpDivide.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
jar/org/springframework/expression/spel/ast/OperatorNot.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
jar/org/springframework/expression/AccessException.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
jar/org/springframework/expression/ExpressionParser.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
jar/org/springframework/expression/spel/standard/Tokenizer.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
jar/org/springframework/expression/spel/ExpressionState.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
jar/org/springframework/expression/spel/standard/SpelExpression.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
jar/org/springframework/expression/spel/ast/OpNE.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
jar/org/springframework/expression/common/CompositeStringExpression.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
jar/org/springframework/expression/spel/standard/Token.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
jar/org/springframework/expression/spel/ast/OpAnd.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
jar/org/springframework/expression/TypeLocator.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
jar/org/springframework/expression/MethodExecutor.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
jar/org/springframework/expression/spel/ast/OpModulus.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-

jar/org/springframework/expression/spel/ast/Elvis.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
jar/org/springframework/expression/spel/ast/OperatorPower.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
jar/org/springframework/expression/TypeComparator.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
jar/org/springframework/expression/spel/ast/OpGE.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
jar/org/springframework/expression/common/LiteralExpression.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
jar/org/springframework/expression/spel/ast/Literal.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
jar/org/springframework/expression/spel/ast/OpPlus.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
jar/org/springframework/expression/common/TemplateAwareExpressionParser.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
jar/org/springframework/expression/spel/ast/OperatorBetween.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
jar/org/springframework/expression/spel/ast/SpelNodeImpl.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
jar/org/springframework/expression/spel/ast/StringLiteral.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
jar/org/springframework/expression/spel/ast/OpMultiply.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
jar/org/springframework/expression/spel/ast/OpOr.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
jar/org/springframework/expression/spel/ast/OperatorInstanceof.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
jar/org/springframework/expression/spel/ast/MethodReference.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
jar/org/springframework/expression/spel/ast/LongLiteral.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
jar/org/springframework/expression/Operation.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
jar/org/springframework/expression/spel/InternalParseException.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
jar/org/springframework/expression/spel/support/StandardOperatorOverloader.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
jar/org/springframework/expression/OperatorOverloader.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
jar/org/springframework/expression/spel/ast/OpGT.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
jar/org/springframework/expression/spel/SpelMessage.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
jar/org/springframework/expression/spel/ast/Identifier.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
jar/org/springframework/expression/spel/ast/OpMinus.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-

jar/org/springframework/expression/spel/support/ReflectionHelper.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
jar/org/springframework/expression/ConstructorExecutor.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
jar/org/springframework/expression/spel/ast/VariableReference.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
jar/org/springframework/expression/spel/ast/BooleanLiteral.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
jar/org/springframework/expression/ParseException.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
jar/org/springframework/expression/spel/ast/Ternary.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
jar/org/springframework/expression/spel/SpelNode.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
jar/org/springframework/expression/spel/support/StandardTypeComparator.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
jar/org/springframework/expression/spel/support/StandardTypeLocator.java
No license file was found, but licenses were detected in source scan.

"foo\${expr0}bar\${expr1}". The static

Found in path(s):

* * number of expressions all contained in "\${...}" markers. For instance
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* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
jar/org/springframework/expression/spel/support/StandardEvaluationContext.java
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case ']:case '):

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* case '}'

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* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-jar/org/springframework/expression/spel/ast/AstUtils.java

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1.455 slf4j 1.7.24

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1.456 icu 4.2.1-15.el6_10

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```
## *-makefile*-
```

```
## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
```

```
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```

```
## others. All Rights Reserved.
```

```
## Commands to generate dependency files
```

```
GEN_DEPS.c= $(CC) -E -MM $(DEFS) $(CPPFLAGS)
```

```
GEN_DEPS.cc= $(CXX) -E -MM $(DEFS) $(CPPFLAGS)
```

```
## Flags for position independent code
```

```
SHAREDLIBCFLAGS = -fPIC
```

```
SHAREDLIBCXXFLAGS = -fPIC
```

```
SHAREDLIBCPPFLAGS = -DPIC
```

```
## Additional flags when building libraries and with threads
```

```
THREADSCPPFLAGS = -D_REENTRANT
```

```
LIBCPPFLAGS =
```

```
## Compiler switch to embed a runtime search path
```

```
LD_RPATH=
```

```
LD_RPATH_PRE= -Wl,-rpath,
```

```
## Compiler switch to embed a library name
```

```
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))
```

```
## Shared object suffix
```

```
SO = so
```

```
## Non-shared intermediate object suffix
```

```
STATIC_O = ao
```

```
## Compilation rules
```

```
%. $(STATIC_O): $(srcdir)/%.c
```

```
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
```

```
%.o: $(srcdir)/%.c
```

```
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<
```

```
%. $(STATIC_O): $(srcdir)/%.cpp
```

```
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
```

```
%.o: $(srcdir)/%.cpp
```

```
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<
```



```

## Dependency rules
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.c) $< \
| sed "s^\($*\)\.o[ :]*\1.o $@ : /g\" > $@; \
[-s $@ ] || rm -f $@'

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \
| sed "s^\($*\)\.o[ :]*\1.o $@ : /g\" > $@; \
[-s $@ ] || rm -f $@'

## Versioned libraries rules

%.${SO}.${SO_TARGET_VERSION_MAJOR}: %.${SO}.${SO_TARGET_VERSION}
$(RM) $@ && ln -s ${<F} $@
%.${SO}: %.${SO}.${SO_TARGET_VERSION_MAJOR}
$(RM) $@ && ln -s ${*F}.${SO}.${SO_TARGET_VERSION} $@

## End FreeBSD-specific setup

```

1.457 ognl 3.1.28

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1.458 tiles-request-jsp 1.0.7

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1.462 ethtool 3.5

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1.463 jsch 0.1.54

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1.464 atk 1.30.0 1.e16

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1.471 stax 3.1.4

1.471.1 Available under license :

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```
/* Stax2 API extension for Streaming API for XML processing (StAX).
```

```
*
```

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```

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* /opt/cola/permits/1129090477_1612176217.67/0/stax2-api-3-1-4-sources-jar/org/codehaus/stax2/ri/dom/DOMWrappingReader.java

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/* Stax2 API extension for Streaming Api for Xml processing (StAX).

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* /opt/cola/permits/1129090477_1612176217.67/0/stax2-api-3-1-4-sources-jar/org/codehaus/stax2/ri/Stax2Util.java

* /opt/cola/permits/1129090477_1612176217.67/0/stax2-api-3-1-4-sources-jar/org/codehaus/stax2/ri/dom/DOMWrappingWriter.java

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* /opt/cola/permits/1129090477_1612176217.67/0/stax2-api-3-1-4-sources-jar/org/codehaus/stax2/ri/Stax2WriterAdapter.java

* /opt/cola/permits/1129090477_1612176217.67/0/stax2-api-3-1-4-sources-jar/org/codehaus/stax2/ri/Stax2WriterImpl.java

* /opt/cola/permits/1129090477_1612176217.67/0/stax2-api-3-1-4-sources-jar/org/codehaus/stax2/ri/Stax2ReaderImpl.java

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```
* /opt/cola/permits/1129090477_1612176217.67/0/stax2-api-3-1-4-sources-
jar/org/codehaus/stax2/ri/typed/Base64DecoderBase.java
* /opt/cola/permits/1129090477_1612176217.67/0/stax2-api-3-1-4-sources-
jar/org/codehaus/stax2/ri/typed/CharArrayBase64Decoder.java
* /opt/cola/permits/1129090477_1612176217.67/0/stax2-api-3-1-4-sources-
jar/org/codehaus/stax2/ri/typed/StringBase64Decoder.java
* /opt/cola/permits/1129090477_1612176217.67/0/stax2-api-3-1-4-sources-
jar/org/codehaus/stax2/util/StreamWriterDelegate.java
* /opt/cola/permits/1129090477_1612176217.67/0/stax2-api-3-1-4-sources-
jar/org/codehaus/stax2/ri/typed/NumberUtil.java
```

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* Stax2 extension API (for basic Stax API, JSR-173)
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* /opt/cola/permits/1129090477_1612176217.67/0/stax2-api-3-1-4-sources-
```

jar/org/codehaus/stax2/ri/typed/ValueEncoderFactory.java

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```
/* Stax2 extension for basic Stax API (JSR-173).
```

```
*
```

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*/
```

Found in path(s):

```
* /opt/cola/permits/1129090477_1612176217.67/0/stax2-api-3-1-4-sources-
```

```
jar/org/codehaus/stax2/typed/Base64Variant.java
```

```
* /opt/cola/permits/1129090477_1612176217.67/0/stax2-api-3-1-4-sources-
```

```
jar/org/codehaus/stax2/typed/Base64Variants.java
```

```
* /opt/cola/permits/1129090477_1612176217.67/0/stax2-api-3-1-4-sources-
```

```
jar/org/codehaus/stax2/XMLStreamReader2.java
```

```
* /opt/cola/permits/1129090477_1612176217.67/0/stax2-api-3-1-4-sources-
```

```
jar/org/codehaus/stax2/typed/TypedXMLStreamReader.java
```

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```
/* Reference Implementation of
```

```
* Stax2 extension API (for basic Stax API, JSR-173)
```

```
*
```

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```
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```

```
jar/org/codehaus/stax2/ri/typed/ValueDecoderFactory.java
```

```
* /opt/cola/permits/1129090477_1612176217.67/0/stax2-api-3-1-4-sources-  
jar/org/codehaus/stax2/ri/typed/AsciiValueEncoder.java
```

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```
/* Woodstox XML processor
```

```
*
```

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```

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```
* /opt/cola/permits/1129090477_1612176217.67/0/stax2-api-3-1-4-sources-  
jar/org/codehaus/stax2/ri/Stax2EventReaderImpl.java
```

1.472 kerberos 1.10

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```
cmd/krb5/iprop/iprop.x
```

cmd/krb5/iprop/iprop_hdr.h
cmd/krb5/kadmin/server/ipropd_svc.c
cmd/krb5/kproplog/kproplog.c
cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
lib/libgss/g_accept_sec_context.c
lib/libgss/g_acquire_cred.c
lib/libgss/g_canon_name.c
lib/libgss/g_compare_name.c
lib/libgss/g_context_time.c
lib/libgss/g_delete_sec_context.c
lib/libgss/g_dsp_name.c
lib/libgss/g_dsp_status.c
lib/libgss/g_dup_name.c
lib/libgss/g_exp_sec_context.c
lib/libgss/g_export_name.c
lib/libgss/g_glue.c
lib/libgss/g_imp_name.c
lib/libgss/g_imp_sec_context.c
lib/libgss/g_init_sec_context.c
lib/libgss/g_initialize.c
lib/libgss/g_inquire_context.c
lib/libgss/g_inquire_cred.c
lib/libgss/g_inquire_names.c
lib/libgss/g_process_context.c
lib/libgss/g_rel_buffer.c
lib/libgss/g_rel_cred.c
lib/libgss/g_rel_name.c
lib/libgss/g_rel_oid_set.c
lib/libgss/g_seal.c
lib/libgss/g_sign.c
lib/libgss/g_store_cred.c
lib/libgss/g_unseal.c
lib/libgss/g_userok.c
lib/libgss/g_utils.c
lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
uts/common/gssapi/include/mechglueP.h

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```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
```

```
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
  <meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
  <title>MIT Kerberos License information &#8212; MIT Kerberos Documentation</title>
  <link rel="stylesheet" href="_static/agogo.css" type="text/css" />
  <link rel="stylesheet" href="_static/pygments.css" type="text/css" />
  <link rel="stylesheet" href="_static/kerb.css" type="text/css" />
  <script type="text/javascript">
    var DOCUMENTATION_OPTIONS = {
      URL_ROOT: './',
      VERSION: '1.17',
      COLLAPSE_INDEX: false,
      FILE_SUFFIX: '.html',
      HAS_SOURCE: true,
      SOURCELINK_SUFFIX: '.txt'
    };
  </script>
  <script type="text/javascript" src="_static/jquery.js"></script>
  <script type="text/javascript" src="_static/underscore.js"></script>
  <script type="text/javascript" src="_static/doctools.js"></script>
  <link rel="author" title="About these documents" href="about.html" />
  <link rel="index" title="Index" href="genindex.html" />
  <link rel="search" title="Search" href="search.html" />
```



```

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<link rel="next" title="Copyright" href="copyright.html" />
<link rel="prev" title="MIT Kerberos features" href="mitK5features.html" />
</head>
<body>
  <div class="header-wrapper">
    <div class="header">

      <h1><a href="index.html">MIT Kerberos Documentation</a></h1>

      <div class="rel">

        <a href="index.html" title="Full Table of Contents"
          accesskey="C">Contents</a> |
        <a href="mitK5features.html" title="MIT Kerberos features"
          accesskey="P">previous</a> |
        <a href="copyright.html" title="Copyright"
          accesskey="N">next</a> |
        <a href="genindex.html" title="General Index"
          accesskey="I">index</a> |
        <a href="search.html" title="Enter search criteria"
          accesskey="S">Search</a> |
        <a href="mailto:krb5-bugs@mit.edu?subject=Documentation__MIT Kerberos License
information">feedback</a>
      </div>
    </div>
  </div>
  <div class="content-wrapper">
    <div class="content">
      <div class="document">

        <div class="documentwrapper">
          <div class="bodywrapper">
            <div class="body" role="main">

              <div class="section" id="mit-kerberos-license-information">
                <span id="mitk5license"></span><h1>MIT Kerberos License information<a class="headerlink" href="#mit-
kerberos-license-information" title="Permalink to this headline"></a></h1>
                <div class="toctree-wrapper compound">
                </div>
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modification, are permitted provided that the following conditions are
met:</p>
                <ul class="simple">

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`<pre>src/lib/gssapi</pre>`, including the following files:

`<pre>lib</pre>`
`<pre>gssapi</pre>`
`<pre>generic</pre>`
`<pre>gssapi_err_generic</pre>`
`<pre>et</pre>`

`<pre>lib</pre>`
`<pre>gssapi</pre>`
`<pre>mechglue</pre>`
`<pre>g_accept_sec_context</pre>`
`<pre>c</pre>`
`<pre>lib</pre>`
`<pre>gssapi</pre>`
`<pre>mechglue</pre>`
`<pre>g_acquire_cred</pre>`
`<pre>c</pre>`
`<pre>lib</pre>`
`<pre>gssapi</pre>`
`<pre>mechglue</pre>`


```
class="n">gssapiP_spnego</span><span class="o">.</span><span class="n">h</span>
<span class="n">lib</span><span class="o"></span><span class="n">gssapi</span><span
class="o"></span><span class="n">spnego</span><span class="o"></span><span
class="n">spnego_mech</span><span class="o">.</span><span class="n">c</span>
</pre></div>
</div>
```

<p>and the initial implementation of incremental propagation, including the following new or changed files:</p>

```
<div class="highlight-default"><div class="highlight"><pre><span></span><span class="n">include</span><span
class="o"></span><span class="n">iprop_hdr</span><span class="o">.</span><span class="n">h</span>
<span class="n">kadmin</span><span class="o"></span><span class="n">server</span><span
class="o"></span><span class="n">ipropd_svc</span><span class="o">.</span><span class="n">c</span>
<span class="n">lib</span><span class="o"></span><span class="n">kdb</span><span class="o"></span><span
class="n">iprop</span><span class="o">.</span><span class="n">x</span>
<span class="n">lib</span><span class="o"></span><span class="n">kdb</span><span class="o"></span><span
class="n">kdb_convert</span><span class="o">.</span><span class="n">c</span>
<span class="n">lib</span><span class="o"></span><span class="n">kdb</span><span class="o"></span><span
class="n">kdb_log</span><span class="o">.</span><span class="n">c</span>
<span class="n">lib</span><span class="o"></span><span class="n">kdb</span><span class="o"></span><span
class="n">kdb_log</span><span class="o">.</span><span class="n">h</span>
<span class="n">lib</span><span class="o"></span><span class="n">krb5</span><span
class="o"></span><span class="n">error_tables</span><span class="o"></span><span
class="n">kdb5_err</span><span class="o">.</span><span class="n">et</span>
<span class="n">kprop</span><span class="o"></span><span class="n">kpropd_rpc</span><span
class="o">.</span><span class="n">c</span>
<span class="n">kprop</span><span class="o"></span><span class="n">kproplog</span><span
class="o">.</span><span class="n">c</span>
</pre></div>
</div>
```

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</div>
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</div>
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</div>
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</div>
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</div>
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```
<div class="sidebar">
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```
<h2>On this page</h2>
```

```
<ul>
```

```
<li><a class="reference internal" href="#">MIT Kerberos License information</a></li>
```

```
</ul>
```

```
<br/>
```

```
<h2>Table of contents</h2>
<ul>
<li class="toctree-l1"><a class="reference internal" href="user/index.html">For users</a></li>
<li class="toctree-l1"><a class="reference internal" href="admin/index.html">For administrators</a></li>
<li class="toctree-l1"><a class="reference internal" href="appdev/index.html">For application developers</a></li>
<li class="toctree-l1"><a class="reference internal" href="plugindev/index.html">For plugin module
developers</a></li>
<li class="toctree-l1"><a class="reference internal" href="build/index.html">Building Kerberos V5</a></li>
<li class="toctree-l1"><a class="reference internal" href="basic/index.html">Kerberos V5 concepts</a></li>
<li class="toctree-l1"><a class="reference internal" href="formats/index.html">Protocols and file formats</a></li>
<li class="toctree-l1"><a class="reference internal" href="mitK5features.html">MIT Kerberos features</a></li>
<li class="toctree-l1"><a class="reference internal" href="build_this.html">How to build this documentation from
the source</a></li>
<li class="toctree-l1"><a class="reference internal" href="about.html">Contributing to the MIT Kerberos
Documentation</a></li>
<li class="toctree-l1"><a class="reference internal" href="resources.html">Resources</a></li>
</ul>
```

```
<br/>
```

```
<h4><a href="index.html">Full Table of Contents</a></h4>
```

```
<h4>Search</h4>
```

```
<form class="search" action="search.html" method="get">
  <input type="text" name="q" size="18" />
  <input type="submit" value="Go" />
  <input type="hidden" name="check_keywords" value="yes" />
  <input type="hidden" name="area" value="default" />
</form>
</div>
<div class="clearer"></div>
</div>
</div>
```

```
<div class="footer-wrapper">
```

```
  <div class="footer" >
```

```
    <div class="right" ><i>Release: 1.17</i><br />
```

```
      &copy; <a href="copyright.html">Copyright</a> 1985-2019, MIT.
```

```
    </div>
```

```
  <div class="left">
```

```
    <a href="index.html" title="Full Table of Contents"
  >Contents</a> |
```

```
    <a href="mitK5features.html" title="MIT Kerberos features"
  >previous</a> |
```

```
    <a href="copyright.html" title="Copyright"
  >next</a> |
```

```
    <a href="genindex.html" title="General Index"
  >index</a> |
```

```
    <a href="search.html" title="Enter search criteria"
```

```
>Search</a> |  
<a href="mailto:krb5-bugs@mit.edu?subject=Documentation__MIT Kerberos License  
information">feedback</a>  
</div>  
</div>  
</div>
```

```
</body>
```

```
</html>
```

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in ``src/lib/gssapi``, including the following files:

.. parsed-literal::

- lib/gssapi/generic/gssapi_err_generic.et
- lib/gssapi/mechglue/g_accept_sec_context.c
- lib/gssapi/mechglue/g_acquire_cred.c
- lib/gssapi/mechglue/g_canon_name.c
- lib/gssapi/mechglue/g_compare_name.c
- lib/gssapi/mechglue/g_context_time.c
- lib/gssapi/mechglue/g_delete_sec_context.c
- lib/gssapi/mechglue/g_dsp_name.c
- lib/gssapi/mechglue/g_dsp_status.c
- lib/gssapi/mechglue/g_dup_name.c
- lib/gssapi/mechglue/g_exp_sec_context.c
- lib/gssapi/mechglue/g_export_name.c
- lib/gssapi/mechglue/g_glue.c
- lib/gssapi/mechglue/g_imp_name.c
- lib/gssapi/mechglue/g_imp_sec_context.c
- lib/gssapi/mechglue/g_init_sec_context.c
- lib/gssapi/mechglue/g_initialize.c
- lib/gssapi/mechglue/g_inquire_context.c
- lib/gssapi/mechglue/g_inquire_cred.c
- lib/gssapi/mechglue/g_inquire_names.c
- lib/gssapi/mechglue/g_process_context.c
- lib/gssapi/mechglue/g_rel_buffer.c
- lib/gssapi/mechglue/g_rel_cred.c

lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation, including the following new or changed files:

.. parsed-literal::

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
kprop/kproplog.c

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"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
```

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<head>  
  <meta http-equiv="Content-Type" content="text/html; charset=utf-8" />  
  <title>Copyright &#8212; MIT Kerberos Documentation</title>  
  <link rel="stylesheet" href="_static/agogo.css" type="text/css" />  
  <link rel="stylesheet" href="_static/pygments.css" type="text/css" />  
  <link rel="stylesheet" href="_static/kerb.css" type="text/css" />
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  HAS_SOURCE: true,
  SOURCELINK_SUFFIX: '.txt'
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<script type="text/javascript" src="_static/underscore.js"></script>
<script type="text/javascript" src="_static/doctools.js"></script>
<link rel="author" title="About these documents" href="about.html" />
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<link rel="copyright" title="Copyright" href="#" />
<link rel="next" title="How to build this documentation from the source" href="build_this.html" />
<link rel="prev" title="MIT Kerberos License information" href="mitK5license.html" />
</head>
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<div class="header-wrapper">
  <div class="header">

    <h1><a href="index.html">MIT Kerberos Documentation</a></h1>

    <div class="rel">

      <a href="index.html" title="Full Table of Contents"
        accesskey="C">Contents</a> |
      <a href="mitK5license.html" title="MIT Kerberos License information"
        accesskey="P">previous</a> |
      <a href="build_this.html" title="How to build this documentation from the source"
        accesskey="N">next</a> |
      <a href="genindex.html" title="General Index"
        accesskey="I">index</a> |
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        accesskey="S">Search</a> |
      <a href="mailto:krb5-bugs@mit.edu?subject=Documentation__Copyright">feedback</a>
    </div>
  </div>
</div>

<div class="content-wrapper">
  <div class="content">
    <div class="document">

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<div class="documentwrapper">
  <div class="bodywrapper">
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      </div>

    </div>
  </div>
</div>

  <div class="sidebar">
    <h2>On this page</h2>
    <ul>
      <li><a class="reference internal" href="#">Copyright</a></li>
    </ul>

    <br/>
    <h2>Table of contents</h2>
    <ul>
      <li class="toctree-l1"><a class="reference internal" href="user/index.html">For users</a></li>
      <li class="toctree-l1"><a class="reference internal" href="admin/index.html">For administrators</a></li>
      <li class="toctree-l1"><a class="reference internal" href="appdev/index.html">For application developers</a></li>
      <li class="toctree-l1"><a class="reference internal" href="plugindev/index.html">For plugin module
      developers</a></li>
      <li class="toctree-l1"><a class="reference internal" href="build/index.html">Building Kerberos V5</a></li>
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    </ul>

    <br/>
    <h4><a href="index.html">Full Table of Contents</a></h4>
    <h4>Search</h4>
    <form class="search" action="search.html" method="get">
      <input type="text" name="q" size="18" />

```

```



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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in "src/lib/gssapi", including the following files:

lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation, including the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
kprop/kproplog.c

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```
import os
```

```
import sys
```

```
import re
```

```
def warn(fname, ln, msg):
```

```
    print '%s: %d: %s' % (fname, ln + 1, msg)
```

```
def indicates_license(line):
```

```
    return 'Copyright' in line or 'COPYRIGHT' in line or 'License' in line
```

```
# Check a comment for boilerplate violations. Return true if the comment
```

```
# is a license statement.
```

```
def check_comment(comment, fname, ln, code_seen, nonlicense_seen):
```

```
    text_seen = False
```

```
    is_license = False
```

```
    for line in comment:
```

```
        if not is_license and indicates_license(line):
```

```
            is_license = True
```

```
            if text_seen:
```

```
                warn(fname, ln, 'License begins after first line of comment')
```

```

elif code_seen:
    warn(fname, ln, 'License after code')
elif nonlicense_seen:
    warn(fname, ln, 'License after non-license comments')
break
# DB2 licenses start with '/*-' and we don't want to change them.
if line != " and line != '-':
    text_seen = True
return is_license

def check_file(lines, fname):
    # Skip emacs mode line if present.
    ln = 0
    if '-*- mode: c;' in lines[ln]:
        ln += 1

    # Check filename comment if present.
    m = re.match(r'^\* ([^ ]*)( - .*)? \*/', lines[ln])
    if m:
        if m.group(1) != fname:
            warn(fname, ln, 'Wrong filename in comment')
        ln += 1

    # Scan for license statements.
    in_comment = False
    code_seen = False
    nonlicense_seen = False
    for line in lines[ln:]:
        # Strip out whitespace and comments contained within a line.
        if not in_comment:
            line = re.sub(r'^\*.*?\*/', "", line)
            line = line.strip()

        if not in_comment and '/*' in line:
            (line, sep, comment_part) = line.partition('/*')
            comment = [comment_part.strip()]
            comment_starts_at = ln
            in_comment = True
        elif in_comment and '*/' not in line:
            comment.append(line.lstrip('*').rstrip())
        elif in_comment:
            (comment_part, sep, line) = line.partition('*/')
            comment.append(comment_part.strip())
            is_license = check_comment(comment, fname, comment_starts_at,
                                      code_seen, nonlicense_seen)
            nonlicense_seen = nonlicense_seen or not is_license
            in_comment = False
        elif line.strip() != "":

```

```

code_seen = True

ln += 1

for fname in sys.argv[1:]:
    if fname.startswith('./'):
        fname = fname[2:]
    f = open(fname)
    lines = f.readlines()
    f.close()
    check_file(lines, fname)
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=====

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   :hidden:

   copyright.rst

.. include:: notice.rst
/* -*- mode: c; c-basic-offset: 4; indent-tabs-mode: nil -*- */
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*/

1.473 jcip-annotation 1.0 1

1.473.1 Available under license :

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*/

Found in path(s):

* /opt/ws_local/PERMITS_SQL/1013822089_1591370825.53/0/jcip-annotations-1-0-1-sources-jar/net/jcip/annotations/NotThreadSafe.java

* /opt/ws_local/PERMITS_SQL/1013822089_1591370825.53/0/jcip-annotations-1-0-1-sources-jar/net/jcip/annotations/ThreadSafe.java

* /opt/ws_local/PERMITS_SQL/1013822089_1591370825.53/0/jcip-annotations-1-0-1-sources-jar/net/jcip/annotations/GuardedBy.java

* /opt/ws_local/PERMITS_SQL/1013822089_1591370825.53/0/jcip-annotations-1-0-1-sources-jar/net/jcip/annotations/Immutable.java

1.474 cxf-rt-features-clustering 2.7.14

1.474.1 Available under license :

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1.477 cxf-rt-javascript 2.7.14

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1.481 commons-daemon 1.0.7

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1.482 tiles-template 3.0.8

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1.484 pixman 0.15.2

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1.485 xerces-j 2.7.1

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1.486 grizzly-framework 2.3.24

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1.490 sizeof-agent 1.0.1

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1.491 i18n-core 1.4.2

1.492 curl 7.61.1

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1.493 open-ldap 2.4.40-16.el6

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1.494 jsp 2.3.FR

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* This file is based on code from bdf.c,v 1.22 2000/03/16 20:08:50  
*  
* taken from Mark Leisher's xmbdfed package  
*  
*/
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```
Benoit Sigoure <tsuna@google.com>
Bogdan Pilocla <boo@google.com>
Chandler Carruth <chandlerc@google.com>
Dave MacLachlan <dmaclach@gmail.com>
David Anderson <danderson@google.com>
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Gene Volovich <gv@cite.com>
Hal Burch <gmock@hburch.com>
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Jim Keller <jimkeller@google.com>
Joe Walnes <joe@truemesh.com>
Jon Wray <jwray@google.com>
Keir Mierle <mierle@gmail.com>
Keith Ray <keith.ray@gmail.com>
Kostya Serebryany <kcc@google.com>
```

Lev Makhlis
Manuel Klimek <klimek@google.com>
Mario Tanev <radix@google.com>
Mark Paskin
Markus Heule <markus.heule@gmail.com>
Matthew Simmons <simmonmt@acm.org>
Mike Bland <mbland@google.com>
Neal Norwitz <nnorwitz@gmail.com>
Nermin Ozkiranartli <nermin@google.com>
Owen Carlsen <ocarlsen@google.com>
Paneendra Ba <paneendra@google.com>
Paul Menage <menage@google.com>
Piotr Kaminski <piotr@google.com>
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Ajay Joshi <jaj@google.com>

Balzs Dn <balazs.dan@gmail.com>

Bharat Mediratta <bharat@menalto.com>

Chandler Carruth <chandlerc@google.com>

Chris Prince <cprince@google.com>

Chris Taylor <taylorc@google.com>

Dan Egnor <egnor@google.com>

Eric Roman <eroman@chromium.org>

Hady Zalek <hady.zalek@gmail.com>

Jeffrey Yasskin <jyasskin@google.com>

Ji Sigursson <joi@google.com>

Keir Mierle <mierle@gmail.com>

Keith Ray <keith.ray@gmail.com>

Kenton Varda <kenton@google.com>

Manuel Klimek <klimek@google.com>
Markus Heule <markus.heule@gmail.com>
Mika Raento <mikie@iki.fi>
Mikls Fazekas <mfazekas@szemafor.com>
Pasi Valminen <pasi.valminen@gmail.com>
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jQuery UI v1.12.1

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Comment UniqueID 43053

Comment VMusage 14482 68586

FontName Helvetica-BoldOblique

FullName Helvetica Bold Oblique

FamilyName Helvetica

Weight Bold

ItalicAngle -12

IsFixedPitch false

CharacterSet ExtendedRoman

FontBBox -174 -228 1114 962

UnderlinePosition -100

UnderlineThickness 50

Version 002.000

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EncodingScheme AdobeStandardEncoding

CapHeight 718

XHeight 532

Ascender 718

Descender -207

StdHW 118

StdVW 140

StartCharMetrics 315

C 32 ; WX 278 ; N space ; B 0 0 0 0 ;
C 33 ; WX 333 ; N exclam ; B 94 0 397 718 ;
C 34 ; WX 474 ; N quotedbl ; B 193 447 529 718 ;
C 35 ; WX 556 ; N numbersign ; B 60 0 644 698 ;
C 36 ; WX 556 ; N dollar ; B 67 -115 622 775 ;
C 37 ; WX 889 ; N percent ; B 136 -19 901 710 ;
C 38 ; WX 722 ; N ampersand ; B 89 -19 732 718 ;
C 39 ; WX 278 ; N quoteright ; B 167 445 362 718 ;
C 40 ; WX 333 ; N parenleft ; B 76 -208 470 734 ;
C 41 ; WX 333 ; N parenright ; B -25 -208 369 734 ;
C 42 ; WX 389 ; N asterisk ; B 146 387 481 718 ;
C 43 ; WX 584 ; N plus ; B 82 0 610 506 ;
C 44 ; WX 278 ; N comma ; B 28 -168 245 146 ;
C 45 ; WX 333 ; N hyphen ; B 73 215 379 345 ;
C 46 ; WX 278 ; N period ; B 64 0 245 146 ;
C 47 ; WX 278 ; N slash ; B -37 -19 468 737 ;
C 48 ; WX 556 ; N zero ; B 86 -19 617 710 ;
C 49 ; WX 556 ; N one ; B 173 0 529 710 ;
C 50 ; WX 556 ; N two ; B 26 0 619 710 ;
C 51 ; WX 556 ; N three ; B 65 -19 608 710 ;
C 52 ; WX 556 ; N four ; B 60 0 598 710 ;
C 53 ; WX 556 ; N five ; B 64 -19 636 698 ;
C 54 ; WX 556 ; N six ; B 85 -19 619 710 ;
C 55 ; WX 556 ; N seven ; B 125 0 676 698 ;
C 56 ; WX 556 ; N eight ; B 69 -19 616 710 ;
C 57 ; WX 556 ; N nine ; B 78 -19 615 710 ;
C 58 ; WX 333 ; N colon ; B 92 0 351 512 ;
C 59 ; WX 333 ; N semicolon ; B 56 -168 351 512 ;
C 60 ; WX 584 ; N less ; B 82 -8 655 514 ;
C 61 ; WX 584 ; N equal ; B 58 87 633 419 ;
C 62 ; WX 584 ; N greater ; B 36 -8 609 514 ;
C 63 ; WX 611 ; N question ; B 165 0 671 727 ;
C 64 ; WX 975 ; N at ; B 186 -19 954 737 ;
C 65 ; WX 722 ; N A ; B 20 0 702 718 ;
C 66 ; WX 722 ; N B ; B 76 0 764 718 ;
C 67 ; WX 722 ; N C ; B 107 -19 789 737 ;
C 68 ; WX 722 ; N D ; B 76 0 777 718 ;
C 69 ; WX 667 ; N E ; B 76 0 757 718 ;
C 70 ; WX 611 ; N F ; B 76 0 740 718 ;
C 71 ; WX 778 ; N G ; B 108 -19 817 737 ;
C 72 ; WX 722 ; N H ; B 71 0 804 718 ;
C 73 ; WX 278 ; N I ; B 64 0 367 718 ;
C 74 ; WX 556 ; N J ; B 60 -18 637 718 ;
C 75 ; WX 722 ; N K ; B 87 0 858 718 ;
C 76 ; WX 611 ; N L ; B 76 0 611 718 ;
C 77 ; WX 833 ; N M ; B 69 0 918 718 ;
C 78 ; WX 722 ; N N ; B 69 0 807 718 ;
C 79 ; WX 778 ; N O ; B 107 -19 823 737 ;

C 80 ; WX 667 ; N P ; B 76 0 738 718 ;
C 81 ; WX 778 ; N Q ; B 107 -52 823 737 ;
C 82 ; WX 722 ; N R ; B 76 0 778 718 ;
C 83 ; WX 667 ; N S ; B 81 -19 718 737 ;
C 84 ; WX 611 ; N T ; B 140 0 751 718 ;
C 85 ; WX 722 ; N U ; B 116 -19 804 718 ;
C 86 ; WX 667 ; N V ; B 172 0 801 718 ;
C 87 ; WX 944 ; N W ; B 169 0 1082 718 ;
C 88 ; WX 667 ; N X ; B 14 0 791 718 ;
C 89 ; WX 667 ; N Y ; B 168 0 806 718 ;
C 90 ; WX 611 ; N Z ; B 25 0 737 718 ;
C 91 ; WX 333 ; N bracketleft ; B 21 -196 462 722 ;
C 92 ; WX 278 ; N backslash ; B 124 -19 307 737 ;
C 93 ; WX 333 ; N bracketright ; B -18 -196 423 722 ;
C 94 ; WX 584 ; N asciicircum ; B 131 323 591 698 ;
C 95 ; WX 556 ; N underscore ; B -27 -125 540 -75 ;
C 96 ; WX 278 ; N quoteleft ; B 165 454 361 727 ;
C 97 ; WX 556 ; N a ; B 55 -14 583 546 ;
C 98 ; WX 611 ; N b ; B 61 -14 645 718 ;
C 99 ; WX 556 ; N c ; B 79 -14 599 546 ;
C 100 ; WX 611 ; N d ; B 82 -14 704 718 ;
C 101 ; WX 556 ; N e ; B 70 -14 593 546 ;
C 102 ; WX 333 ; N f ; B 87 0 469 727 ; L i fi ; L l fl ;
C 103 ; WX 611 ; N g ; B 38 -217 666 546 ;
C 104 ; WX 611 ; N h ; B 65 0 629 718 ;
C 105 ; WX 278 ; N i ; B 69 0 363 725 ;
C 106 ; WX 278 ; N j ; B -42 -214 363 725 ;
C 107 ; WX 556 ; N k ; B 69 0 670 718 ;
C 108 ; WX 278 ; N l ; B 69 0 362 718 ;
C 109 ; WX 889 ; N m ; B 64 0 909 546 ;
C 110 ; WX 611 ; N n ; B 65 0 629 546 ;
C 111 ; WX 611 ; N o ; B 82 -14 643 546 ;
C 112 ; WX 611 ; N p ; B 18 -207 645 546 ;
C 113 ; WX 611 ; N q ; B 80 -207 665 546 ;
C 114 ; WX 389 ; N r ; B 64 0 489 546 ;
C 115 ; WX 556 ; N s ; B 63 -14 584 546 ;
C 116 ; WX 333 ; N t ; B 100 -6 422 676 ;
C 117 ; WX 611 ; N u ; B 98 -14 658 532 ;
C 118 ; WX 556 ; N v ; B 126 0 656 532 ;
C 119 ; WX 778 ; N w ; B 123 0 882 532 ;
C 120 ; WX 556 ; N x ; B 15 0 648 532 ;
C 121 ; WX 556 ; N y ; B 42 -214 652 532 ;
C 122 ; WX 500 ; N z ; B 20 0 583 532 ;
C 123 ; WX 389 ; N braceleft ; B 94 -196 518 722 ;
C 124 ; WX 280 ; N bar ; B 36 -225 361 775 ;
C 125 ; WX 389 ; N braceright ; B -18 -196 407 722 ;
C 126 ; WX 584 ; N asciitilde ; B 115 163 577 343 ;
C 161 ; WX 333 ; N exclamdown ; B 50 -186 353 532 ;

C 162 ; WX 556 ; N cent ; B 79 -118 599 628 ;
C 163 ; WX 556 ; N sterling ; B 50 -16 635 718 ;
C 164 ; WX 167 ; N fraction ; B -174 -19 487 710 ;
C 165 ; WX 556 ; N yen ; B 60 0 713 698 ;
C 166 ; WX 556 ; N florin ; B -50 -210 669 737 ;
C 167 ; WX 556 ; N section ; B 61 -184 598 727 ;
C 168 ; WX 556 ; N currency ; B 27 76 680 636 ;
C 169 ; WX 238 ; N quotesingle ; B 165 447 321 718 ;
C 170 ; WX 500 ; N quotedblleft ; B 160 454 588 727 ;
C 171 ; WX 556 ; N guillemotleft ; B 135 76 571 484 ;
C 172 ; WX 333 ; N guilsinglleft ; B 130 76 353 484 ;
C 173 ; WX 333 ; N guilsinglright ; B 99 76 322 484 ;
C 174 ; WX 611 ; N fi ; B 87 0 696 727 ;
C 175 ; WX 611 ; N fl ; B 87 0 695 727 ;
C 177 ; WX 556 ; N endash ; B 48 227 627 333 ;
C 178 ; WX 556 ; N dagger ; B 118 -171 626 718 ;
C 179 ; WX 556 ; N daggerdbl ; B 46 -171 628 718 ;
C 180 ; WX 278 ; N periodcentered ; B 110 172 276 334 ;
C 182 ; WX 556 ; N paragraph ; B 98 -191 688 700 ;
C 183 ; WX 350 ; N bullet ; B 83 194 420 524 ;
C 184 ; WX 278 ; N quotesinglbase ; B 41 -146 236 127 ;
C 185 ; WX 500 ; N quotedblbase ; B 36 -146 463 127 ;
C 186 ; WX 500 ; N quotedblright ; B 162 445 589 718 ;
C 187 ; WX 556 ; N guillemotright ; B 104 76 540 484 ;
C 188 ; WX 1000 ; N ellipsis ; B 92 0 939 146 ;
C 189 ; WX 1000 ; N perthousand ; B 76 -19 1038 710 ;
C 191 ; WX 611 ; N questiondown ; B 53 -195 559 532 ;
C 193 ; WX 333 ; N grave ; B 136 604 353 750 ;
C 194 ; WX 333 ; N acute ; B 236 604 515 750 ;
C 195 ; WX 333 ; N circumflex ; B 118 604 471 750 ;
C 196 ; WX 333 ; N tilde ; B 113 610 507 737 ;
C 197 ; WX 333 ; N macron ; B 122 604 483 678 ;
C 198 ; WX 333 ; N breve ; B 156 604 494 750 ;
C 199 ; WX 333 ; N dotaccent ; B 235 614 385 729 ;
C 200 ; WX 333 ; N dieresis ; B 137 614 482 729 ;
C 202 ; WX 333 ; N ring ; B 200 568 420 776 ;
C 203 ; WX 333 ; N cedilla ; B -37 -228 220 0 ;
C 205 ; WX 333 ; N hungarumlaut ; B 137 604 645 750 ;
C 206 ; WX 333 ; N ogonek ; B 41 -228 264 0 ;
C 207 ; WX 333 ; N caron ; B 149 604 502 750 ;
C 208 ; WX 1000 ; N emdash ; B 48 227 1071 333 ;
C 225 ; WX 1000 ; N AE ; B 5 0 1100 718 ;
C 227 ; WX 370 ; N ordfeminine ; B 125 401 465 737 ;
C 232 ; WX 611 ; N Lslash ; B 34 0 611 718 ;
C 233 ; WX 778 ; N Oslash ; B 35 -27 894 745 ;
C 234 ; WX 1000 ; N OE ; B 99 -19 1114 737 ;
C 235 ; WX 365 ; N ordmasculine ; B 123 401 485 737 ;
C 241 ; WX 889 ; N ae ; B 56 -14 923 546 ;

C 245 ; WX 278 ; N dotlessi ; B 69 0 322 532 ;
C 248 ; WX 278 ; N lslash ; B 40 0 407 718 ;
C 249 ; WX 611 ; N oslash ; B 22 -29 701 560 ;
C 250 ; WX 944 ; N oe ; B 82 -14 977 546 ;
C 251 ; WX 611 ; N germandbls ; B 69 -14 657 731 ;
C -1 ; WX 278 ; N Idieresis ; B 64 0 494 915 ;
C -1 ; WX 556 ; N eacute ; B 70 -14 627 750 ;
C -1 ; WX 556 ; N abreve ; B 55 -14 606 750 ;
C -1 ; WX 611 ; N uhungarumlaut ; B 98 -14 784 750 ;
C -1 ; WX 556 ; N ecaron ; B 70 -14 614 750 ;
C -1 ; WX 667 ; N Ydieresis ; B 168 0 806 915 ;
C -1 ; WX 584 ; N divide ; B 82 -42 610 548 ;
C -1 ; WX 667 ; N Yacute ; B 168 0 806 936 ;
C -1 ; WX 722 ; N Acircumflex ; B 20 0 706 936 ;
C -1 ; WX 556 ; N aacute ; B 55 -14 627 750 ;
C -1 ; WX 722 ; N Ucircumflex ; B 116 -19 804 936 ;
C -1 ; WX 556 ; N yacute ; B 42 -214 652 750 ;
C -1 ; WX 556 ; N scommaaccent ; B 63 -228 584 546 ;
C -1 ; WX 556 ; N ecircumflex ; B 70 -14 593 750 ;
C -1 ; WX 722 ; N Uring ; B 116 -19 804 962 ;
C -1 ; WX 722 ; N Udieresis ; B 116 -19 804 915 ;
C -1 ; WX 556 ; N aogonek ; B 55 -224 583 546 ;
C -1 ; WX 722 ; N Uacute ; B 116 -19 804 936 ;
C -1 ; WX 611 ; N uogonek ; B 98 -228 658 532 ;
C -1 ; WX 667 ; N Edieresis ; B 76 0 757 915 ;
C -1 ; WX 722 ; N Dcroat ; B 62 0 777 718 ;
C -1 ; WX 250 ; N commaaccent ; B 16 -228 188 -50 ;
C -1 ; WX 737 ; N copyright ; B 56 -19 835 737 ;
C -1 ; WX 667 ; N Emacron ; B 76 0 757 864 ;
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C -1 ; WX 556 ; N aring ; B 55 -14 583 776 ;
C -1 ; WX 722 ; N Ncommaaccent ; B 69 -228 807 718 ;
C -1 ; WX 278 ; N lacute ; B 69 0 528 936 ;
C -1 ; WX 556 ; N agrave ; B 55 -14 583 750 ;
C -1 ; WX 611 ; N Tcommaaccent ; B 140 -228 751 718 ;
C -1 ; WX 722 ; N Cacute ; B 107 -19 789 936 ;
C -1 ; WX 556 ; N atilde ; B 55 -14 619 737 ;
C -1 ; WX 667 ; N Edotaccent ; B 76 0 757 915 ;
C -1 ; WX 556 ; N scaron ; B 63 -14 614 750 ;
C -1 ; WX 556 ; N scedilla ; B 63 -228 584 546 ;
C -1 ; WX 278 ; N iacute ; B 69 0 488 750 ;
C -1 ; WX 494 ; N lozenge ; B 90 0 564 745 ;
C -1 ; WX 722 ; N Rcaron ; B 76 0 778 936 ;
C -1 ; WX 778 ; N Gcommaaccent ; B 108 -228 817 737 ;
C -1 ; WX 611 ; N ucircumflex ; B 98 -14 658 750 ;
C -1 ; WX 556 ; N acircumflex ; B 55 -14 583 750 ;
C -1 ; WX 722 ; N Amacron ; B 20 0 718 864 ;
C -1 ; WX 389 ; N rcaron ; B 64 0 530 750 ;

C -1 ; WX 556 ; N ccedilla ; B 79 -228 599 546 ;
C -1 ; WX 611 ; N Zdotaccent ; B 25 0 737 915 ;
C -1 ; WX 667 ; N Thorn ; B 76 0 716 718 ;
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C -1 ; WX 722 ; N Racute ; B 76 0 778 936 ;
C -1 ; WX 667 ; N Sacute ; B 81 -19 722 936 ;
C -1 ; WX 743 ; N dcaron ; B 82 -14 903 718 ;
C -1 ; WX 722 ; N Umacron ; B 116 -19 804 864 ;
C -1 ; WX 611 ; N uring ; B 98 -14 658 776 ;
C -1 ; WX 333 ; N threesuperior ; B 91 271 441 710 ;
C -1 ; WX 778 ; N Ograve ; B 107 -19 823 936 ;
C -1 ; WX 722 ; N Agrave ; B 20 0 702 936 ;
C -1 ; WX 722 ; N Abreve ; B 20 0 729 936 ;
C -1 ; WX 584 ; N multiply ; B 57 1 635 505 ;
C -1 ; WX 611 ; N uacute ; B 98 -14 658 750 ;
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C -1 ; WX 494 ; N partialdiff ; B 43 -21 585 750 ;
C -1 ; WX 556 ; N ydieresis ; B 42 -214 652 729 ;
C -1 ; WX 722 ; N Nacute ; B 69 0 807 936 ;
C -1 ; WX 278 ; N icircumflex ; B 69 0 444 750 ;
C -1 ; WX 667 ; N Ecircumflex ; B 76 0 757 936 ;
C -1 ; WX 556 ; N adieresis ; B 55 -14 594 729 ;
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C -1 ; WX 611 ; N nacute ; B 65 0 654 750 ;
C -1 ; WX 611 ; N umacron ; B 98 -14 658 678 ;
C -1 ; WX 722 ; N Ncaron ; B 69 0 807 936 ;
C -1 ; WX 278 ; N Iacute ; B 64 0 528 936 ;
C -1 ; WX 584 ; N plusminus ; B 40 0 625 506 ;
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C -1 ; WX 278 ; N Idotaccent ; B 64 0 397 915 ;
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C -1 ; WX 611 ; N Zcaron ; B 25 0 737 936 ;
C -1 ; WX 549 ; N greaterequal ; B 26 0 629 704 ;
C -1 ; WX 722 ; N Eth ; B 62 0 777 718 ;
C -1 ; WX 722 ; N Ccedilla ; B 107 -228 789 737 ;
C -1 ; WX 278 ; N lcommaaccent ; B 30 -228 362 718 ;
C -1 ; WX 389 ; N tcaron ; B 100 -6 608 878 ;
C -1 ; WX 556 ; N eogonek ; B 70 -228 593 546 ;
C -1 ; WX 722 ; N Uogonek ; B 116 -228 804 718 ;
C -1 ; WX 722 ; N Aacute ; B 20 0 750 936 ;
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C -1 ; WX 278 ; N iogonek ; B -14 -224 363 725 ;
C -1 ; WX 778 ; N Oacute ; B 107 -19 823 936 ;
C -1 ; WX 611 ; N oacute ; B 82 -14 654 750 ;
C -1 ; WX 556 ; N amacron ; B 55 -14 595 678 ;
C -1 ; WX 556 ; N sacute ; B 63 -14 627 750 ;
C -1 ; WX 278 ; N idieresis ; B 69 0 455 729 ;
C -1 ; WX 778 ; N Ocircumflex ; B 107 -19 823 936 ;
C -1 ; WX 722 ; N Ugrave ; B 116 -19 804 936 ;
C -1 ; WX 612 ; N Delta ; B 6 0 608 688 ;
C -1 ; WX 611 ; N thorn ; B 18 -208 645 718 ;
C -1 ; WX 333 ; N twosuperior ; B 69 283 449 710 ;
C -1 ; WX 778 ; N Odieresis ; B 107 -19 823 915 ;
C -1 ; WX 611 ; N mu ; B 22 -207 658 532 ;
C -1 ; WX 278 ; N igrave ; B 69 0 326 750 ;
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C -1 ; WX 667 ; N Eogonek ; B 76 -224 757 718 ;
C -1 ; WX 611 ; N dcroat ; B 82 -14 789 718 ;
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C -1 ; WX 400 ; N lcaron ; B 69 0 561 718 ;
C -1 ; WX 722 ; N Kcommaaccent ; B 87 -228 858 718 ;
C -1 ; WX 611 ; N Lacute ; B 76 0 611 936 ;
C -1 ; WX 1000 ; N trademark ; B 179 306 1109 718 ;
C -1 ; WX 556 ; N edotaccent ; B 70 -14 593 729 ;
C -1 ; WX 278 ; N Igrave ; B 64 0 367 936 ;
C -1 ; WX 278 ; N Imacron ; B 64 0 496 864 ;
C -1 ; WX 611 ; N Lcaron ; B 76 0 643 718 ;
C -1 ; WX 834 ; N onehalf ; B 132 -19 858 710 ;
C -1 ; WX 549 ; N lessequal ; B 29 0 676 704 ;
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C -1 ; WX 722 ; N Uhungarumlaut ; B 116 -19 880 936 ;
C -1 ; WX 667 ; N Eacute ; B 76 0 757 936 ;
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C -1 ; WX 400 ; N degree ; B 175 426 467 712 ;
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C -1 ; WX 611 ; N ugrave ; B 98 -14 658 750 ;
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C -1 ; WX 389 ; N rcommaaccent ; B 26 -228 489 546 ;

C -1 ; WX 722 ; N Ntilde ; B 69 0 807 923 ;
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C -1 ; WX 611 ; N Lcommaaccent ; B 76 -228 611 718 ;
C -1 ; WX 722 ; N Atilde ; B 20 0 741 923 ;
C -1 ; WX 722 ; N Aogonek ; B 20 -224 702 718 ;
C -1 ; WX 722 ; N Aring ; B 20 0 702 962 ;
C -1 ; WX 778 ; N Otilde ; B 107 -19 823 923 ;
C -1 ; WX 500 ; N zdotaccent ; B 20 0 583 729 ;
C -1 ; WX 667 ; N Ecaron ; B 76 0 757 936 ;
C -1 ; WX 278 ; N Iogonek ; B -41 -228 367 718 ;
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C -1 ; WX 584 ; N minus ; B 82 197 610 309 ;
C -1 ; WX 278 ; N Icircumflex ; B 64 0 484 936 ;
C -1 ; WX 611 ; N ncaron ; B 65 0 641 750 ;
C -1 ; WX 333 ; N tcommaaccent ; B 58 -228 422 676 ;
C -1 ; WX 584 ; N logicalnot ; B 105 108 633 419 ;
C -1 ; WX 611 ; N odieresis ; B 82 -14 643 729 ;
C -1 ; WX 611 ; N udieresis ; B 98 -14 658 729 ;
C -1 ; WX 549 ; N notequal ; B 32 -49 630 570 ;
C -1 ; WX 611 ; N gcommaaccent ; B 38 -217 666 850 ;
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C -1 ; WX 611 ; N ncommaaccent ; B 65 -228 629 546 ;
C -1 ; WX 333 ; N onesuperior ; B 148 283 388 710 ;
C -1 ; WX 278 ; N imacron ; B 69 0 429 678 ;
C -1 ; WX 556 ; N Euro ; B 0 0 0 0 ;

EndCharMetrics

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StartKernPairs 2481

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KPX A Ocircumflex -40

KPX A Odieresis -40

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KPX A Oslash -40

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KPX A Q -40

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StartFontMetrics 4.1

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Comment UniqueID 43066

Comment VMusage 45874 56899

FontName Times-BoldItalic

FullName Times Bold Italic

FamilyName Times

Weight Bold

ItalicAngle -15

IsFixedPitch false

CharacterSet ExtendedRoman

FontBBox -200 -218 996 921

UnderlinePosition -100

UnderlineThickness 50

Version 002.000

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EncodingScheme AdobeStandardEncoding

CapHeight 669

XHeight 462

Ascender 683

Descender -217

StdHW 42

StdVW 121

StartCharMetrics 315

C 32 ; WX 250 ; N space ; B 0 0 0 0 ;
C 33 ; WX 389 ; N exclam ; B 67 -13 370 684 ;
C 34 ; WX 555 ; N quotedbl ; B 136 398 536 685 ;
C 35 ; WX 500 ; N numbersign ; B -33 0 533 700 ;
C 36 ; WX 500 ; N dollar ; B -20 -100 497 733 ;
C 37 ; WX 833 ; N percent ; B 39 -10 793 692 ;
C 38 ; WX 778 ; N ampersand ; B 5 -19 699 682 ;
C 39 ; WX 333 ; N quoteright ; B 98 369 302 685 ;
C 40 ; WX 333 ; N parenleft ; B 28 -179 344 685 ;
C 41 ; WX 333 ; N parenright ; B -44 -179 271 685 ;
C 42 ; WX 500 ; N asterisk ; B 65 249 456 685 ;
C 43 ; WX 570 ; N plus ; B 33 0 537 506 ;
C 44 ; WX 250 ; N comma ; B -60 -182 144 134 ;
C 45 ; WX 333 ; N hyphen ; B 2 166 271 282 ;
C 46 ; WX 250 ; N period ; B -9 -13 139 135 ;
C 47 ; WX 278 ; N slash ; B -64 -18 342 685 ;
C 48 ; WX 500 ; N zero ; B 17 -14 477 683 ;
C 49 ; WX 500 ; N one ; B 5 0 419 683 ;
C 50 ; WX 500 ; N two ; B -27 0 446 683 ;
C 51 ; WX 500 ; N three ; B -15 -13 450 683 ;
C 52 ; WX 500 ; N four ; B -15 0 503 683 ;
C 53 ; WX 500 ; N five ; B -11 -13 487 669 ;
C 54 ; WX 500 ; N six ; B 23 -15 509 679 ;
C 55 ; WX 500 ; N seven ; B 52 0 525 669 ;
C 56 ; WX 500 ; N eight ; B 3 -13 476 683 ;
C 57 ; WX 500 ; N nine ; B -12 -10 475 683 ;
C 58 ; WX 333 ; N colon ; B 23 -13 264 459 ;
C 59 ; WX 333 ; N semicolon ; B -25 -183 264 459 ;
C 60 ; WX 570 ; N less ; B 31 -8 539 514 ;
C 61 ; WX 570 ; N equal ; B 33 107 537 399 ;
C 62 ; WX 570 ; N greater ; B 31 -8 539 514 ;
C 63 ; WX 500 ; N question ; B 79 -13 470 684 ;
C 64 ; WX 832 ; N at ; B 63 -18 770 685 ;
C 65 ; WX 667 ; N A ; B -67 0 593 683 ;
C 66 ; WX 667 ; N B ; B -24 0 624 669 ;
C 67 ; WX 667 ; N C ; B 32 -18 677 685 ;
C 68 ; WX 722 ; N D ; B -46 0 685 669 ;
C 69 ; WX 667 ; N E ; B -27 0 653 669 ;
C 70 ; WX 667 ; N F ; B -13 0 660 669 ;
C 71 ; WX 722 ; N G ; B 21 -18 706 685 ;
C 72 ; WX 778 ; N H ; B -24 0 799 669 ;
C 73 ; WX 389 ; N I ; B -32 0 406 669 ;
C 74 ; WX 500 ; N J ; B -46 -99 524 669 ;
C 75 ; WX 667 ; N K ; B -21 0 702 669 ;
C 76 ; WX 611 ; N L ; B -22 0 590 669 ;
C 77 ; WX 889 ; N M ; B -29 -12 917 669 ;
C 78 ; WX 722 ; N N ; B -27 -15 748 669 ;

C 79 ; WX 722 ; N O ; B 27 -18 691 685 ;
C 80 ; WX 611 ; N P ; B -27 0 613 669 ;
C 81 ; WX 722 ; N Q ; B 27 -208 691 685 ;
C 82 ; WX 667 ; N R ; B -29 0 623 669 ;
C 83 ; WX 556 ; N S ; B 2 -18 526 685 ;
C 84 ; WX 611 ; N T ; B 50 0 650 669 ;
C 85 ; WX 722 ; N U ; B 67 -18 744 669 ;
C 86 ; WX 667 ; N V ; B 65 -18 715 669 ;
C 87 ; WX 889 ; N W ; B 65 -18 940 669 ;
C 88 ; WX 667 ; N X ; B -24 0 694 669 ;
C 89 ; WX 611 ; N Y ; B 73 0 659 669 ;
C 90 ; WX 611 ; N Z ; B -11 0 590 669 ;
C 91 ; WX 333 ; N bracketleft ; B -37 -159 362 674 ;
C 92 ; WX 278 ; N backslash ; B -1 -18 279 685 ;
C 93 ; WX 333 ; N bracketright ; B -56 -157 343 674 ;
C 94 ; WX 570 ; N asciicircum ; B 67 304 503 669 ;
C 95 ; WX 500 ; N underscore ; B 0 -125 500 -75 ;
C 96 ; WX 333 ; N quoteleft ; B 128 369 332 685 ;
C 97 ; WX 500 ; N a ; B -21 -14 455 462 ;
C 98 ; WX 500 ; N b ; B -14 -13 444 699 ;
C 99 ; WX 444 ; N c ; B -5 -13 392 462 ;
C 100 ; WX 500 ; N d ; B -21 -13 517 699 ;
C 101 ; WX 444 ; N e ; B 5 -13 398 462 ;
C 102 ; WX 333 ; N f ; B -169 -205 446 698 ; L i f i ; L l f l ;
C 103 ; WX 500 ; N g ; B -52 -203 478 462 ;
C 104 ; WX 556 ; N h ; B -13 -9 498 699 ;
C 105 ; WX 278 ; N i ; B 2 -9 263 684 ;
C 106 ; WX 278 ; N j ; B -189 -207 279 684 ;
C 107 ; WX 500 ; N k ; B -23 -8 483 699 ;
C 108 ; WX 278 ; N l ; B 2 -9 290 699 ;
C 109 ; WX 778 ; N m ; B -14 -9 722 462 ;
C 110 ; WX 556 ; N n ; B -6 -9 493 462 ;
C 111 ; WX 500 ; N o ; B -3 -13 441 462 ;
C 112 ; WX 500 ; N p ; B -120 -205 446 462 ;
C 113 ; WX 500 ; N q ; B 1 -205 471 462 ;
C 114 ; WX 389 ; N r ; B -21 0 389 462 ;
C 115 ; WX 389 ; N s ; B -19 -13 333 462 ;
C 116 ; WX 278 ; N t ; B -11 -9 281 594 ;
C 117 ; WX 556 ; N u ; B 15 -9 492 462 ;
C 118 ; WX 444 ; N v ; B 16 -13 401 462 ;
C 119 ; WX 667 ; N w ; B 16 -13 614 462 ;
C 120 ; WX 500 ; N x ; B -46 -13 469 462 ;
C 121 ; WX 444 ; N y ; B -94 -205 392 462 ;
C 122 ; WX 389 ; N z ; B -43 -78 368 449 ;
C 123 ; WX 348 ; N braceleft ; B 5 -187 436 686 ;
C 124 ; WX 220 ; N bar ; B 66 -218 154 782 ;
C 125 ; WX 348 ; N braceright ; B -129 -187 302 686 ;
C 126 ; WX 570 ; N asciitilde ; B 54 173 516 333 ;

C 161 ; WX 389 ; N exclamdown ; B 19 -205 322 492 ;
C 162 ; WX 500 ; N cent ; B 42 -143 439 576 ;
C 163 ; WX 500 ; N sterling ; B -32 -12 510 683 ;
C 164 ; WX 167 ; N fraction ; B -169 -14 324 683 ;
C 165 ; WX 500 ; N yen ; B 33 0 628 669 ;
C 166 ; WX 500 ; N florin ; B -87 -156 537 707 ;
C 167 ; WX 500 ; N section ; B 36 -143 459 685 ;
C 168 ; WX 500 ; N currency ; B -26 34 526 586 ;
C 169 ; WX 278 ; N quotesingle ; B 128 398 268 685 ;
C 170 ; WX 500 ; N quotedblleft ; B 53 369 513 685 ;
C 171 ; WX 500 ; N guillemotleft ; B 12 32 468 415 ;
C 172 ; WX 333 ; N guilsinglleft ; B 32 32 303 415 ;
C 173 ; WX 333 ; N guilsinglright ; B 10 32 281 415 ;
C 174 ; WX 556 ; N fi ; B -188 -205 514 703 ;
C 175 ; WX 556 ; N fl ; B -186 -205 553 704 ;
C 177 ; WX 500 ; N endash ; B -40 178 477 269 ;
C 178 ; WX 500 ; N dagger ; B 91 -145 494 685 ;
C 179 ; WX 500 ; N daggerdbl ; B 10 -139 493 685 ;
C 180 ; WX 250 ; N periodcentered ; B 51 257 199 405 ;
C 182 ; WX 500 ; N paragraph ; B -57 -193 562 669 ;
C 183 ; WX 350 ; N bullet ; B 0 175 350 525 ;
C 184 ; WX 333 ; N quotesinglbase ; B -5 -182 199 134 ;
C 185 ; WX 500 ; N quotedblbase ; B -57 -182 403 134 ;
C 186 ; WX 500 ; N quotedblright ; B 53 369 513 685 ;
C 187 ; WX 500 ; N guillemotright ; B 12 32 468 415 ;
C 188 ; WX 1000 ; N ellipsis ; B 40 -13 852 135 ;
C 189 ; WX 1000 ; N perthousand ; B 7 -29 996 706 ;
C 191 ; WX 500 ; N questiondown ; B 30 -205 421 492 ;
C 193 ; WX 333 ; N grave ; B 85 516 297 697 ;
C 194 ; WX 333 ; N acute ; B 139 516 379 697 ;
C 195 ; WX 333 ; N circumflex ; B 40 516 367 690 ;
C 196 ; WX 333 ; N tilde ; B 48 536 407 655 ;
C 197 ; WX 333 ; N macron ; B 51 553 393 623 ;
C 198 ; WX 333 ; N breve ; B 71 516 387 678 ;
C 199 ; WX 333 ; N dotaccent ; B 163 550 298 684 ;
C 200 ; WX 333 ; N dieresis ; B 55 550 402 684 ;
C 202 ; WX 333 ; N ring ; B 127 516 340 729 ;
C 203 ; WX 333 ; N cedilla ; B -80 -218 156 5 ;
C 205 ; WX 333 ; N hungarumlaut ; B 69 516 498 697 ;
C 206 ; WX 333 ; N ogonek ; B 15 -183 244 34 ;
C 207 ; WX 333 ; N caron ; B 79 516 411 690 ;
C 208 ; WX 1000 ; N emdash ; B -40 178 977 269 ;
C 225 ; WX 944 ; N AE ; B -64 0 918 669 ;
C 227 ; WX 266 ; N ordfeminine ; B 16 399 330 685 ;
C 232 ; WX 611 ; N Lslash ; B -22 0 590 669 ;
C 233 ; WX 722 ; N Oslash ; B 27 -125 691 764 ;
C 234 ; WX 944 ; N OE ; B 23 -8 946 677 ;
C 235 ; WX 300 ; N ordmasculine ; B 56 400 347 685 ;

C 241 ; WX 722 ; N ae ; B -5 -13 673 462 ;
C 245 ; WX 278 ; N dotlessi ; B 2 -9 238 462 ;
C 248 ; WX 278 ; N lslash ; B -7 -9 307 699 ;
C 249 ; WX 500 ; N oslash ; B -3 -119 441 560 ;
C 250 ; WX 722 ; N oe ; B 6 -13 674 462 ;
C 251 ; WX 500 ; N germandbls ; B -200 -200 473 705 ;
C -1 ; WX 389 ; N Idieresis ; B -32 0 450 862 ;
C -1 ; WX 444 ; N eacute ; B 5 -13 435 697 ;
C -1 ; WX 500 ; N abreve ; B -21 -14 471 678 ;
C -1 ; WX 556 ; N uhungarumlaut ; B 15 -9 610 697 ;
C -1 ; WX 444 ; N ecaron ; B 5 -13 467 690 ;
C -1 ; WX 611 ; N Ydieresis ; B 73 0 659 862 ;
C -1 ; WX 570 ; N divide ; B 33 -29 537 535 ;
C -1 ; WX 611 ; N Yacute ; B 73 0 659 904 ;
C -1 ; WX 667 ; N Acircumflex ; B -67 0 593 897 ;
C -1 ; WX 500 ; N aacute ; B -21 -14 463 697 ;
C -1 ; WX 722 ; N Ucircumflex ; B 67 -18 744 897 ;
C -1 ; WX 444 ; N yacute ; B -94 -205 435 697 ;
C -1 ; WX 389 ; N scommaaccent ; B -19 -218 333 462 ;
C -1 ; WX 444 ; N ecircumflex ; B 5 -13 423 690 ;
C -1 ; WX 722 ; N Uring ; B 67 -18 744 921 ;
C -1 ; WX 722 ; N Udieresis ; B 67 -18 744 862 ;
C -1 ; WX 500 ; N aogonek ; B -21 -183 455 462 ;
C -1 ; WX 722 ; N Uacute ; B 67 -18 744 904 ;
C -1 ; WX 556 ; N uogonek ; B 15 -183 492 462 ;
C -1 ; WX 667 ; N Edieresis ; B -27 0 653 862 ;
C -1 ; WX 722 ; N Dcroat ; B -31 0 700 669 ;
C -1 ; WX 250 ; N commaaccent ; B -36 -218 131 -50 ;
C -1 ; WX 747 ; N copyright ; B 30 -18 718 685 ;
C -1 ; WX 667 ; N Emacron ; B -27 0 653 830 ;
C -1 ; WX 444 ; N ccaron ; B -5 -13 467 690 ;
C -1 ; WX 500 ; N aring ; B -21 -14 455 729 ;
C -1 ; WX 722 ; N Ncommaaccent ; B -27 -218 748 669 ;
C -1 ; WX 278 ; N lacute ; B 2 -9 392 904 ;
C -1 ; WX 500 ; N agrave ; B -21 -14 455 697 ;
C -1 ; WX 611 ; N Tcommaaccent ; B 50 -218 650 669 ;
C -1 ; WX 667 ; N Cacute ; B 32 -18 677 904 ;
C -1 ; WX 500 ; N atilde ; B -21 -14 491 655 ;
C -1 ; WX 667 ; N Edotaccent ; B -27 0 653 862 ;
C -1 ; WX 389 ; N scaron ; B -19 -13 424 690 ;
C -1 ; WX 389 ; N scedilla ; B -19 -218 333 462 ;
C -1 ; WX 278 ; N iacute ; B 2 -9 352 697 ;
C -1 ; WX 494 ; N lozenge ; B 10 0 484 745 ;
C -1 ; WX 667 ; N Rcaron ; B -29 0 623 897 ;
C -1 ; WX 722 ; N Gcommaaccent ; B 21 -218 706 685 ;
C -1 ; WX 556 ; N ucircumflex ; B 15 -9 492 690 ;
C -1 ; WX 500 ; N acircumflex ; B -21 -14 455 690 ;
C -1 ; WX 667 ; N Amacron ; B -67 0 593 830 ;

C -1 ; WX 389 ; N rcaron ; B -21 0 424 690 ;
C -1 ; WX 444 ; N ccedilla ; B -5 -218 392 462 ;
C -1 ; WX 611 ; N Zdotaccent ; B -11 0 590 862 ;
C -1 ; WX 611 ; N Thorn ; B -27 0 573 669 ;
C -1 ; WX 722 ; N Omacron ; B 27 -18 691 830 ;
C -1 ; WX 667 ; N Racute ; B -29 0 623 904 ;
C -1 ; WX 556 ; N Sacute ; B 2 -18 531 904 ;
C -1 ; WX 608 ; N dcaron ; B -21 -13 675 708 ;
C -1 ; WX 722 ; N Umacron ; B 67 -18 744 830 ;
C -1 ; WX 556 ; N uring ; B 15 -9 492 729 ;
C -1 ; WX 300 ; N threesuperior ; B 17 265 321 683 ;
C -1 ; WX 722 ; N Ograve ; B 27 -18 691 904 ;
C -1 ; WX 667 ; N Agrave ; B -67 0 593 904 ;
C -1 ; WX 667 ; N Abreve ; B -67 0 593 885 ;
C -1 ; WX 570 ; N multiply ; B 48 16 522 490 ;
C -1 ; WX 556 ; N uacute ; B 15 -9 492 697 ;
C -1 ; WX 611 ; N Tcaron ; B 50 0 650 897 ;
C -1 ; WX 494 ; N partialdiff ; B 11 -21 494 750 ;
C -1 ; WX 444 ; N ydieresis ; B -94 -205 443 655 ;
C -1 ; WX 722 ; N Nacute ; B -27 -15 748 904 ;
C -1 ; WX 278 ; N icircumflex ; B -3 -9 324 690 ;
C -1 ; WX 667 ; N Ecircumflex ; B -27 0 653 897 ;
C -1 ; WX 500 ; N adieresis ; B -21 -14 476 655 ;
C -1 ; WX 444 ; N edieresis ; B 5 -13 448 655 ;
C -1 ; WX 444 ; N cacute ; B -5 -13 435 697 ;
C -1 ; WX 556 ; N nacute ; B -6 -9 493 697 ;
C -1 ; WX 556 ; N umacron ; B 15 -9 492 623 ;
C -1 ; WX 722 ; N Ncaron ; B -27 -15 748 897 ;
C -1 ; WX 389 ; N Iacute ; B -32 0 432 904 ;
C -1 ; WX 570 ; N plusminus ; B 33 0 537 506 ;
C -1 ; WX 220 ; N brokenbar ; B 66 -143 154 707 ;
C -1 ; WX 747 ; N registered ; B 30 -18 718 685 ;
C -1 ; WX 722 ; N Gbreve ; B 21 -18 706 885 ;
C -1 ; WX 389 ; N Idotaccent ; B -32 0 406 862 ;
C -1 ; WX 600 ; N summation ; B 14 -10 585 706 ;
C -1 ; WX 667 ; N Egrave ; B -27 0 653 904 ;
C -1 ; WX 389 ; N racute ; B -21 0 407 697 ;
C -1 ; WX 500 ; N omacron ; B -3 -13 462 623 ;
C -1 ; WX 611 ; N Zacute ; B -11 0 590 904 ;
C -1 ; WX 611 ; N Zcaron ; B -11 0 590 897 ;
C -1 ; WX 549 ; N greaterequal ; B 26 0 523 704 ;
C -1 ; WX 722 ; N Eth ; B -31 0 700 669 ;
C -1 ; WX 667 ; N Ccedilla ; B 32 -218 677 685 ;
C -1 ; WX 278 ; N lcommaaccent ; B -42 -218 290 699 ;
C -1 ; WX 366 ; N tcaron ; B -11 -9 434 754 ;
C -1 ; WX 444 ; N eogonek ; B 5 -183 398 462 ;
C -1 ; WX 722 ; N Uogonek ; B 67 -183 744 669 ;
C -1 ; WX 667 ; N Aacute ; B -67 0 593 904 ;

C -1 ; WX 667 ; N Adieresis ; B -67 0 593 862 ;
C -1 ; WX 444 ; N egrave ; B 5 -13 398 697 ;
C -1 ; WX 389 ; N zacute ; B -43 -78 407 697 ;
C -1 ; WX 278 ; N iogonek ; B -20 -183 263 684 ;
C -1 ; WX 722 ; N Oacute ; B 27 -18 691 904 ;
C -1 ; WX 500 ; N oacute ; B -3 -13 463 697 ;
C -1 ; WX 500 ; N amacron ; B -21 -14 467 623 ;
C -1 ; WX 389 ; N sacute ; B -19 -13 407 697 ;
C -1 ; WX 278 ; N idieresis ; B 2 -9 364 655 ;
C -1 ; WX 722 ; N Ocircumflex ; B 27 -18 691 897 ;
C -1 ; WX 722 ; N Ugrave ; B 67 -18 744 904 ;
C -1 ; WX 612 ; N Delta ; B 6 0 608 688 ;
C -1 ; WX 500 ; N thorn ; B -120 -205 446 699 ;
C -1 ; WX 300 ; N twosuperior ; B 2 274 313 683 ;
C -1 ; WX 722 ; N Odieresis ; B 27 -18 691 862 ;
C -1 ; WX 576 ; N mu ; B -60 -207 516 449 ;
C -1 ; WX 278 ; N igrave ; B 2 -9 259 697 ;
C -1 ; WX 500 ; N ohungarumlaut ; B -3 -13 582 697 ;
C -1 ; WX 667 ; N Eogonek ; B -27 -183 653 669 ;
C -1 ; WX 500 ; N dcroat ; B -21 -13 552 699 ;
C -1 ; WX 750 ; N threequarters ; B 7 -14 726 683 ;
C -1 ; WX 556 ; N Scedilla ; B 2 -218 526 685 ;
C -1 ; WX 382 ; N lcaron ; B 2 -9 448 708 ;
C -1 ; WX 667 ; N Kcommaaccent ; B -21 -218 702 669 ;
C -1 ; WX 611 ; N Lacute ; B -22 0 590 904 ;
C -1 ; WX 1000 ; N trademark ; B 32 263 968 669 ;
C -1 ; WX 444 ; N edotaccent ; B 5 -13 398 655 ;
C -1 ; WX 389 ; N Igrave ; B -32 0 406 904 ;
C -1 ; WX 389 ; N Imacron ; B -32 0 461 830 ;
C -1 ; WX 611 ; N Lcaron ; B -22 0 671 718 ;
C -1 ; WX 750 ; N onehalf ; B -9 -14 723 683 ;
C -1 ; WX 549 ; N lessequal ; B 29 0 526 704 ;
C -1 ; WX 500 ; N ocircumflex ; B -3 -13 451 690 ;
C -1 ; WX 556 ; N ntilde ; B -6 -9 504 655 ;
C -1 ; WX 722 ; N Uhungarumlaut ; B 67 -18 744 904 ;
C -1 ; WX 667 ; N Eacute ; B -27 0 653 904 ;
C -1 ; WX 444 ; N emacron ; B 5 -13 439 623 ;
C -1 ; WX 500 ; N gbreve ; B -52 -203 478 678 ;
C -1 ; WX 750 ; N onequarter ; B 7 -14 721 683 ;
C -1 ; WX 556 ; N Scaron ; B 2 -18 553 897 ;
C -1 ; WX 556 ; N Scommaaccent ; B 2 -218 526 685 ;
C -1 ; WX 722 ; N Ohungarumlaut ; B 27 -18 723 904 ;
C -1 ; WX 400 ; N degree ; B 83 397 369 683 ;
C -1 ; WX 500 ; N ograve ; B -3 -13 441 697 ;
C -1 ; WX 667 ; N Ccaron ; B 32 -18 677 897 ;
C -1 ; WX 556 ; N ugrave ; B 15 -9 492 697 ;
C -1 ; WX 549 ; N radical ; B 10 -46 512 850 ;
C -1 ; WX 722 ; N Dcaron ; B -46 0 685 897 ;

C -1 ; WX 389 ; N rcommaaccent ; B -67 -218 389 462 ;
C -1 ; WX 722 ; N Ntilde ; B -27 -15 748 862 ;
C -1 ; WX 500 ; N otilde ; B -3 -13 491 655 ;
C -1 ; WX 667 ; N Rcommaaccent ; B -29 -218 623 669 ;
C -1 ; WX 611 ; N Lcommaaccent ; B -22 -218 590 669 ;
C -1 ; WX 667 ; N Atilde ; B -67 0 593 862 ;
C -1 ; WX 667 ; N Aogonek ; B -67 -183 604 683 ;
C -1 ; WX 667 ; N Aring ; B -67 0 593 921 ;
C -1 ; WX 722 ; N Otilde ; B 27 -18 691 862 ;
C -1 ; WX 389 ; N zdotaccent ; B -43 -78 368 655 ;
C -1 ; WX 667 ; N Ecaron ; B -27 0 653 897 ;
C -1 ; WX 389 ; N Iogonek ; B -32 -183 406 669 ;
C -1 ; WX 500 ; N kcommaaccent ; B -23 -218 483 699 ;
C -1 ; WX 606 ; N minus ; B 51 209 555 297 ;
C -1 ; WX 389 ; N Icircumflex ; B -32 0 450 897 ;
C -1 ; WX 556 ; N ncaron ; B -6 -9 523 690 ;
C -1 ; WX 278 ; N tcommaaccent ; B -62 -218 281 594 ;
C -1 ; WX 606 ; N logicalnot ; B 51 108 555 399 ;
C -1 ; WX 500 ; N odieresis ; B -3 -13 471 655 ;
C -1 ; WX 556 ; N udieresis ; B 15 -9 499 655 ;
C -1 ; WX 549 ; N notequal ; B 15 -49 540 570 ;
C -1 ; WX 500 ; N gcommaaccent ; B -52 -203 478 767 ;
C -1 ; WX 500 ; N eth ; B -3 -13 454 699 ;
C -1 ; WX 389 ; N zcaron ; B -43 -78 424 690 ;
C -1 ; WX 556 ; N ncommaaccent ; B -6 -218 493 462 ;
C -1 ; WX 300 ; N onesuperior ; B 30 274 301 683 ;
C -1 ; WX 278 ; N imacron ; B 2 -9 294 623 ;
C -1 ; WX 500 ; N Euro ; B 0 0 0 0 ;

EndCharMetrics

StartKernData

StartKernPairs 2038

KPX A C -65

KPX A Cacute -65

KPX A Ccaron -65

KPX A Ccedilla -65

KPX A G -60

KPX A Gbreve -60

KPX A Gcommaaccent -60

KPX A O -50

KPX A Oacute -50

KPX A Ocircumflex -50

KPX A Odieresis -50

KPX A Ograve -50

KPX A Ohungarumlaut -50

KPX A Omacron -50

KPX A Oslash -50

KPX A Otilde -50

KPX A Q -55

KPX A T -55
KPX A Tcaron -55
KPX A Tcommaaccent -55
KPX A U -50
KPX A Uacute -50
KPX A Ucircumflex -50
KPX A Udieresis -50
KPX A Ugrave -50
KPX A Uhungarumlaut -50
KPX A Umacron -50
KPX A Uogonek -50
KPX A Uring -50
KPX A V -95
KPX A W -100
KPX A Y -70
KPX A Yacute -70
KPX A Ydieresis -70
KPX A quoteright -74
KPX A u -30
KPX A uacute -30
KPX A ucircumflex -30
KPX A udieresis -30
KPX A ugrave -30
KPX A uhungarumlaut -30
KPX A umacron -30
KPX A uogonek -30
KPX A uring -30
KPX A v -74
KPX A w -74
KPX A y -74
KPX A yacute -74
KPX A ydieresis -74
KPX Aacute C -65
KPX Aacute Cacute -65
KPX Aacute Ccaron -65
KPX Aacute Ccedilla -65
KPX Aacute G -60
KPX Aacute Gbreve -60
KPX Aacute Gcommaaccent -60
KPX Aacute O -50
KPX Aacute Oacute -50
KPX Aacute Ocircumflex -50
KPX Aacute Odieresis -50
KPX Aacute Ograve -50
KPX Aacute Ohungarumlaut -50
KPX Aacute Omacron -50
KPX Aacute Oslash -50
KPX Aacute Otilde -50

KPX Aacute Q -55
KPX Aacute T -55
KPX Aacute Tcaron -55
KPX Aacute Tcommaaccent -55
KPX Aacute U -50
KPX Aacute Uacute -50
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KPX Aacute Udieresis -50
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KPX Aacute Uhungarumlaut -50
KPX Aacute Umacron -50
KPX Aacute Uogonek -50
KPX Aacute Uring -50
KPX Aacute V -95
KPX Aacute W -100
KPX Aacute Y -70
KPX Aacute Yacute -70
KPX Aacute Ydieresis -70
KPX Aacute quoteright -74
KPX Aacute u -30
KPX Aacute uacute -30
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EndKernData
EndFontMetrics

Found in path(s):

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

StartFontMetrics 4.1

Comment Copyright (c) 1985, 1987, 1989, 1990, 1997 Adobe Systems Incorporated. All rights reserved.

Comment Creation Date: Thu May 1 15:12:25 1997

Comment UniqueID 43064

Comment VMusage 30820 39997

FontName Symbol

FullName Symbol

FamilyName Symbol

Weight Medium

ItalicAngle 0

IsFixedPitch false

CharacterSet Special

FontBBox -180 -293 1090 1010

UnderlinePosition -100

UnderlineThickness 50

Version 001.008

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EncodingScheme FontSpecific

StdHW 92

StdVW 85

StartCharMetrics 190

C 32 ; WX 250 ; N space ; B 0 0 0 0 ;

C 33 ; WX 333 ; N exclam ; B 128 -17 240 672 ;

C 34 ; WX 713 ; N universal ; B 31 0 681 705 ;

C 35 ; WX 500 ; N numbersign ; B 20 -16 481 673 ;

C 36 ; WX 549 ; N existential ; B 25 0 478 707 ;

C 37 ; WX 833 ; N percent ; B 63 -36 771 655 ;

C 38 ; WX 778 ; N ampersand ; B 41 -18 750 661 ;

C 39 ; WX 439 ; N suchthat ; B 48 -17 414 500 ;

C 40 ; WX 333 ; N parenleft ; B 53 -191 300 673 ;

C 41 ; WX 333 ; N parenright ; B 30 -191 277 673 ;

C 42 ; WX 500 ; N asteriskmath ; B 65 134 427 551 ;

C 43 ; WX 549 ; N plus ; B 10 0 539 533 ;

C 44 ; WX 250 ; N comma ; B 56 -152 194 104 ;

C 45 ; WX 549 ; N minus ; B 11 233 535 288 ;

C 46 ; WX 250 ; N period ; B 69 -17 181 95 ;
C 47 ; WX 278 ; N slash ; B 0 -18 254 646 ;
C 48 ; WX 500 ; N zero ; B 24 -14 476 685 ;
C 49 ; WX 500 ; N one ; B 117 0 390 673 ;
C 50 ; WX 500 ; N two ; B 25 0 475 685 ;
C 51 ; WX 500 ; N three ; B 43 -14 435 685 ;
C 52 ; WX 500 ; N four ; B 15 0 469 685 ;
C 53 ; WX 500 ; N five ; B 32 -14 445 690 ;
C 54 ; WX 500 ; N six ; B 34 -14 468 685 ;
C 55 ; WX 500 ; N seven ; B 24 -16 448 673 ;
C 56 ; WX 500 ; N eight ; B 56 -14 445 685 ;
C 57 ; WX 500 ; N nine ; B 30 -18 459 685 ;
C 58 ; WX 278 ; N colon ; B 81 -17 193 460 ;
C 59 ; WX 278 ; N semicolon ; B 83 -152 221 460 ;
C 60 ; WX 549 ; N less ; B 26 0 523 522 ;
C 61 ; WX 549 ; N equal ; B 11 141 537 390 ;
C 62 ; WX 549 ; N greater ; B 26 0 523 522 ;
C 63 ; WX 444 ; N question ; B 70 -17 412 686 ;
C 64 ; WX 549 ; N congruent ; B 11 0 537 475 ;
C 65 ; WX 722 ; N Alpha ; B 4 0 684 673 ;
C 66 ; WX 667 ; N Beta ; B 29 0 592 673 ;
C 67 ; WX 722 ; N Chi ; B -9 0 704 673 ;
C 68 ; WX 612 ; N Delta ; B 6 0 608 688 ;
C 69 ; WX 611 ; N Epsilon ; B 32 0 617 673 ;
C 70 ; WX 763 ; N Phi ; B 26 0 741 673 ;
C 71 ; WX 603 ; N Gamma ; B 24 0 609 673 ;
C 72 ; WX 722 ; N Eta ; B 39 0 729 673 ;
C 73 ; WX 333 ; N Iota ; B 32 0 316 673 ;
C 74 ; WX 631 ; N theta1 ; B 18 -18 623 689 ;
C 75 ; WX 722 ; N Kappa ; B 35 0 722 673 ;
C 76 ; WX 686 ; N Lambda ; B 6 0 680 688 ;
C 77 ; WX 889 ; N Mu ; B 28 0 887 673 ;
C 78 ; WX 722 ; N Nu ; B 29 -8 720 673 ;
C 79 ; WX 722 ; N Omicron ; B 41 -17 715 685 ;
C 80 ; WX 768 ; N Pi ; B 25 0 745 673 ;
C 81 ; WX 741 ; N Theta ; B 41 -17 715 685 ;
C 82 ; WX 556 ; N Rho ; B 28 0 563 673 ;
C 83 ; WX 592 ; N Sigma ; B 5 0 589 673 ;
C 84 ; WX 611 ; N Tau ; B 33 0 607 673 ;
C 85 ; WX 690 ; N Upsilon ; B -8 0 694 673 ;
C 86 ; WX 439 ; N sigma1 ; B 40 -233 436 500 ;
C 87 ; WX 768 ; N Omega ; B 34 0 736 688 ;
C 88 ; WX 645 ; N Xi ; B 40 0 599 673 ;
C 89 ; WX 795 ; N Psi ; B 15 0 781 684 ;
C 90 ; WX 611 ; N Zeta ; B 44 0 636 673 ;
C 91 ; WX 333 ; N bracketleft ; B 86 -155 299 674 ;
C 92 ; WX 863 ; N therefore ; B 163 0 701 487 ;
C 93 ; WX 333 ; N bracketright ; B 33 -155 246 674 ;

C 94 ; WX 658 ; N perpendicular ; B 15 0 652 674 ;
C 95 ; WX 500 ; N underscore ; B -2 -125 502 -75 ;
C 96 ; WX 500 ; N radicaless ; B 480 881 1090 917 ;
C 97 ; WX 631 ; N alpha ; B 41 -18 622 500 ;
C 98 ; WX 549 ; N beta ; B 61 -223 515 741 ;
C 99 ; WX 549 ; N chi ; B 12 -231 522 499 ;
C 100 ; WX 494 ; N delta ; B 40 -19 481 740 ;
C 101 ; WX 439 ; N epsilon ; B 22 -19 427 502 ;
C 102 ; WX 521 ; N phi ; B 28 -224 492 673 ;
C 103 ; WX 411 ; N gamma ; B 5 -225 484 499 ;
C 104 ; WX 603 ; N eta ; B 0 -202 527 514 ;
C 105 ; WX 329 ; N iota ; B 0 -17 301 503 ;
C 106 ; WX 603 ; N phi1 ; B 36 -224 587 499 ;
C 107 ; WX 549 ; N kappa ; B 33 0 558 501 ;
C 108 ; WX 549 ; N lambda ; B 24 -17 548 739 ;
C 109 ; WX 576 ; N mu ; B 33 -223 567 500 ;
C 110 ; WX 521 ; N nu ; B -9 -16 475 507 ;
C 111 ; WX 549 ; N omicron ; B 35 -19 501 499 ;
C 112 ; WX 549 ; N pi ; B 10 -19 530 487 ;
C 113 ; WX 521 ; N theta ; B 43 -17 485 690 ;
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C 116 ; WX 439 ; N tau ; B 10 -19 418 500 ;
C 117 ; WX 576 ; N upsilon ; B 7 -18 535 507 ;
C 118 ; WX 713 ; N omega1 ; B 12 -18 671 583 ;
C 119 ; WX 686 ; N omega ; B 42 -17 684 500 ;
C 120 ; WX 493 ; N xi ; B 27 -224 469 766 ;
C 121 ; WX 686 ; N psi ; B 12 -228 701 500 ;
C 122 ; WX 494 ; N zeta ; B 60 -225 467 756 ;
C 123 ; WX 480 ; N braceleft ; B 58 -183 397 673 ;
C 124 ; WX 200 ; N bar ; B 65 -293 135 707 ;
C 125 ; WX 480 ; N braceright ; B 79 -183 418 673 ;
C 126 ; WX 549 ; N similar ; B 17 203 529 307 ;
C 160 ; WX 750 ; N Euro ; B 20 -12 714 685 ;
C 161 ; WX 620 ; N Upsilon1 ; B -2 0 610 685 ;
C 162 ; WX 247 ; N minute ; B 27 459 228 735 ;
C 163 ; WX 549 ; N lesseqqual ; B 29 0 526 639 ;
C 164 ; WX 167 ; N fraction ; B -180 -12 340 677 ;
C 165 ; WX 713 ; N infinity ; B 26 124 688 404 ;
C 166 ; WX 500 ; N florin ; B 2 -193 494 686 ;
C 167 ; WX 753 ; N club ; B 86 -26 660 533 ;
C 168 ; WX 753 ; N diamond ; B 142 -36 600 550 ;
C 169 ; WX 753 ; N heart ; B 117 -33 631 532 ;
C 170 ; WX 753 ; N spade ; B 113 -36 629 548 ;
C 171 ; WX 1042 ; N arrowboth ; B 24 -15 1024 511 ;
C 172 ; WX 987 ; N arrowleft ; B 32 -15 942 511 ;
C 173 ; WX 603 ; N arrowup ; B 45 0 571 910 ;
C 174 ; WX 987 ; N arrowright ; B 49 -15 959 511 ;

C 175 ; WX 603 ; N arrowdown ; B 45 -22 571 888 ;
C 176 ; WX 400 ; N degree ; B 50 385 350 685 ;
C 177 ; WX 549 ; N plusminus ; B 10 0 539 645 ;
C 178 ; WX 411 ; N second ; B 20 459 413 737 ;
C 179 ; WX 549 ; N greaterequal ; B 29 0 526 639 ;
C 180 ; WX 549 ; N multiply ; B 17 8 533 524 ;
C 181 ; WX 713 ; N proportional ; B 27 123 639 404 ;
C 182 ; WX 494 ; N partialdiff ; B 26 -20 462 746 ;
C 183 ; WX 460 ; N bullet ; B 50 113 410 473 ;
C 184 ; WX 549 ; N divide ; B 10 71 536 456 ;
C 185 ; WX 549 ; N notequal ; B 15 -25 540 549 ;
C 186 ; WX 549 ; N equivalence ; B 14 82 538 443 ;
C 187 ; WX 549 ; N approxequal ; B 14 135 527 394 ;
C 188 ; WX 1000 ; N ellipsis ; B 111 -17 889 95 ;
C 189 ; WX 603 ; N arrowvertex ; B 280 -120 336 1010 ;
C 190 ; WX 1000 ; N arrowhorizex ; B -60 220 1050 276 ;
C 191 ; WX 658 ; N carriagereturn ; B 15 -16 602 629 ;
C 192 ; WX 823 ; N aleph ; B 175 -18 661 658 ;
C 193 ; WX 686 ; N Ifraktur ; B 10 -53 578 740 ;
C 194 ; WX 795 ; N Rfraktur ; B 26 -15 759 734 ;
C 195 ; WX 987 ; N weierstrass ; B 159 -211 870 573 ;
C 196 ; WX 768 ; N circlemultiply ; B 43 -17 733 673 ;
C 197 ; WX 768 ; N circleplus ; B 43 -15 733 675 ;
C 198 ; WX 823 ; N emptyset ; B 39 -24 781 719 ;
C 199 ; WX 768 ; N intersection ; B 40 0 732 509 ;
C 200 ; WX 768 ; N union ; B 40 -17 732 492 ;
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C 203 ; WX 713 ; N notsubset ; B 36 -70 690 540 ;
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C 206 ; WX 713 ; N element ; B 45 0 505 468 ;
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C 209 ; WX 713 ; N gradient ; B 36 -19 681 718 ;
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CharacterSet ExtendedRoman

FontBBox -170 -225 1116 931

UnderlinePosition -100

UnderlineThickness 50

Version 002.000

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EncodingScheme AdobeStandardEncoding

CapHeight 718

XHeight 523

Ascender 718

Descender -207

StdHW 76

StdVW 88

StartCharMetrics 315

C 32 ; WX 278 ; N space ; B 0 0 0 0 ;

C 33 ; WX 278 ; N exclam ; B 90 0 340 718 ;

C 34 ; WX 355 ; N quotedbl ; B 168 463 438 718 ;

C 35 ; WX 556 ; N numbersign ; B 73 0 631 688 ;

C 36 ; WX 556 ; N dollar ; B 69 -115 617 775 ;

C 37 ; WX 889 ; N percent ; B 147 -19 889 703 ;

C 38 ; WX 667 ; N ampersand ; B 77 -15 647 718 ;

C 39 ; WX 222 ; N quoteright ; B 151 463 310 718 ;

C 40 ; WX 333 ; N parenleft ; B 108 -207 454 733 ;

C 41 ; WX 333 ; N parenright ; B -9 -207 337 733 ;

C 42 ; WX 389 ; N asterisk ; B 165 431 475 718 ;

C 43 ; WX 584 ; N plus ; B 85 0 606 505 ;

C 44 ; WX 278 ; N comma ; B 56 -147 214 106 ;

C 45 ; WX 333 ; N hyphen ; B 93 232 357 322 ;

C 46 ; WX 278 ; N period ; B 87 0 214 106 ;

C 47 ; WX 278 ; N slash ; B -21 -19 452 737 ;

C 48 ; WX 556 ; N zero ; B 93 -19 608 703 ;

C 49 ; WX 556 ; N one ; B 207 0 508 703 ;

C 50 ; WX 556 ; N two ; B 26 0 617 703 ;

C 51 ; WX 556 ; N three ; B 75 -19 610 703 ;

C 52 ; WX 556 ; N four ; B 61 0 576 703 ;
C 53 ; WX 556 ; N five ; B 68 -19 621 688 ;
C 54 ; WX 556 ; N six ; B 91 -19 615 703 ;
C 55 ; WX 556 ; N seven ; B 137 0 669 688 ;
C 56 ; WX 556 ; N eight ; B 74 -19 607 703 ;
C 57 ; WX 556 ; N nine ; B 82 -19 609 703 ;
C 58 ; WX 278 ; N colon ; B 87 0 301 516 ;
C 59 ; WX 278 ; N semicolon ; B 56 -147 301 516 ;
C 60 ; WX 584 ; N less ; B 94 11 641 495 ;
C 61 ; WX 584 ; N equal ; B 63 115 628 390 ;
C 62 ; WX 584 ; N greater ; B 50 11 597 495 ;
C 63 ; WX 556 ; N question ; B 161 0 610 727 ;
C 64 ; WX 1015 ; N at ; B 215 -19 965 737 ;
C 65 ; WX 667 ; N A ; B 14 0 654 718 ;
C 66 ; WX 667 ; N B ; B 74 0 712 718 ;
C 67 ; WX 722 ; N C ; B 108 -19 782 737 ;
C 68 ; WX 722 ; N D ; B 81 0 764 718 ;
C 69 ; WX 667 ; N E ; B 86 0 762 718 ;
C 70 ; WX 611 ; N F ; B 86 0 736 718 ;
C 71 ; WX 778 ; N G ; B 111 -19 799 737 ;
C 72 ; WX 722 ; N H ; B 77 0 799 718 ;
C 73 ; WX 278 ; N I ; B 91 0 341 718 ;
C 74 ; WX 500 ; N J ; B 47 -19 581 718 ;
C 75 ; WX 667 ; N K ; B 76 0 808 718 ;
C 76 ; WX 556 ; N L ; B 76 0 555 718 ;
C 77 ; WX 833 ; N M ; B 73 0 914 718 ;
C 78 ; WX 722 ; N N ; B 76 0 799 718 ;
C 79 ; WX 778 ; N O ; B 105 -19 826 737 ;
C 80 ; WX 667 ; N P ; B 86 0 737 718 ;
C 81 ; WX 778 ; N Q ; B 105 -56 826 737 ;
C 82 ; WX 722 ; N R ; B 88 0 773 718 ;
C 83 ; WX 667 ; N S ; B 90 -19 713 737 ;
C 84 ; WX 611 ; N T ; B 148 0 750 718 ;
C 85 ; WX 722 ; N U ; B 123 -19 797 718 ;
C 86 ; WX 667 ; N V ; B 173 0 800 718 ;
C 87 ; WX 944 ; N W ; B 169 0 1081 718 ;
C 88 ; WX 667 ; N X ; B 19 0 790 718 ;
C 89 ; WX 667 ; N Y ; B 167 0 806 718 ;
C 90 ; WX 611 ; N Z ; B 23 0 741 718 ;
C 91 ; WX 278 ; N bracketleft ; B 21 -196 403 722 ;
C 92 ; WX 278 ; N backslash ; B 140 -19 291 737 ;
C 93 ; WX 278 ; N bracketright ; B -14 -196 368 722 ;
C 94 ; WX 469 ; N asciicircum ; B 42 264 539 688 ;
C 95 ; WX 556 ; N underscore ; B -27 -125 540 -75 ;
C 96 ; WX 222 ; N quoteleft ; B 165 470 323 725 ;
C 97 ; WX 556 ; N a ; B 61 -15 559 538 ;
C 98 ; WX 556 ; N b ; B 58 -15 584 718 ;
C 99 ; WX 500 ; N c ; B 74 -15 553 538 ;

C 100 ; WX 556 ; N d ; B 84 -15 652 718 ;
C 101 ; WX 556 ; N e ; B 84 -15 578 538 ;
C 102 ; WX 278 ; N f ; B 86 0 416 728 ; L i fi ; L l fl ;
C 103 ; WX 556 ; N g ; B 42 -220 610 538 ;
C 104 ; WX 556 ; N h ; B 65 0 573 718 ;
C 105 ; WX 222 ; N i ; B 67 0 308 718 ;
C 106 ; WX 222 ; N j ; B -60 -210 308 718 ;
C 107 ; WX 500 ; N k ; B 67 0 600 718 ;
C 108 ; WX 222 ; N l ; B 67 0 308 718 ;
C 109 ; WX 833 ; N m ; B 65 0 852 538 ;
C 110 ; WX 556 ; N n ; B 65 0 573 538 ;
C 111 ; WX 556 ; N o ; B 83 -14 585 538 ;
C 112 ; WX 556 ; N p ; B 14 -207 584 538 ;
C 113 ; WX 556 ; N q ; B 84 -207 605 538 ;
C 114 ; WX 333 ; N r ; B 77 0 446 538 ;
C 115 ; WX 500 ; N s ; B 63 -15 529 538 ;
C 116 ; WX 278 ; N t ; B 102 -7 368 669 ;
C 117 ; WX 556 ; N u ; B 94 -15 600 523 ;
C 118 ; WX 500 ; N v ; B 119 0 603 523 ;
C 119 ; WX 722 ; N w ; B 125 0 820 523 ;
C 120 ; WX 500 ; N x ; B 11 0 594 523 ;
C 121 ; WX 500 ; N y ; B 15 -214 600 523 ;
C 122 ; WX 500 ; N z ; B 31 0 571 523 ;
C 123 ; WX 334 ; N braceleft ; B 92 -196 445 722 ;
C 124 ; WX 260 ; N bar ; B 46 -225 332 775 ;
C 125 ; WX 334 ; N braceright ; B 0 -196 354 722 ;
C 126 ; WX 584 ; N asciitilde ; B 111 180 580 326 ;
C 161 ; WX 333 ; N exclamdown ; B 77 -195 326 523 ;
C 162 ; WX 556 ; N cent ; B 95 -115 584 623 ;
C 163 ; WX 556 ; N sterling ; B 49 -16 634 718 ;
C 164 ; WX 167 ; N fraction ; B -170 -19 482 703 ;
C 165 ; WX 556 ; N yen ; B 81 0 699 688 ;
C 166 ; WX 556 ; N florin ; B -52 -207 654 737 ;
C 167 ; WX 556 ; N section ; B 76 -191 584 737 ;
C 168 ; WX 556 ; N currency ; B 60 99 646 603 ;
C 169 ; WX 191 ; N quotesingle ; B 157 463 285 718 ;
C 170 ; WX 333 ; N quotedblleft ; B 138 470 461 725 ;
C 171 ; WX 556 ; N guillemotleft ; B 146 108 554 446 ;
C 172 ; WX 333 ; N guilsinglleft ; B 137 108 340 446 ;
C 173 ; WX 333 ; N guilsinglright ; B 111 108 314 446 ;
C 174 ; WX 500 ; N fi ; B 86 0 587 728 ;
C 175 ; WX 500 ; N fl ; B 86 0 585 728 ;
C 177 ; WX 556 ; N endash ; B 51 240 623 313 ;
C 178 ; WX 556 ; N dagger ; B 135 -159 622 718 ;
C 179 ; WX 556 ; N daggerdbl ; B 52 -159 623 718 ;
C 180 ; WX 278 ; N periodcentered ; B 129 190 257 315 ;
C 182 ; WX 537 ; N paragraph ; B 126 -173 650 718 ;
C 183 ; WX 350 ; N bullet ; B 91 202 413 517 ;

C 184 ; WX 222 ; N quotesinglbase ; B 21 -149 180 106 ;
C 185 ; WX 333 ; N quotedblbase ; B -6 -149 318 106 ;
C 186 ; WX 333 ; N quotedblright ; B 124 463 448 718 ;
C 187 ; WX 556 ; N guillemotright ; B 120 108 528 446 ;
C 188 ; WX 1000 ; N ellipsis ; B 115 0 908 106 ;
C 189 ; WX 1000 ; N perthousand ; B 88 -19 1029 703 ;
C 191 ; WX 611 ; N questiondown ; B 85 -201 534 525 ;
C 193 ; WX 333 ; N grave ; B 170 593 337 734 ;
C 194 ; WX 333 ; N acute ; B 248 593 475 734 ;
C 195 ; WX 333 ; N circumflex ; B 147 593 438 734 ;
C 196 ; WX 333 ; N tilde ; B 125 606 490 722 ;
C 197 ; WX 333 ; N macron ; B 143 627 468 684 ;
C 198 ; WX 333 ; N breve ; B 167 595 476 731 ;
C 199 ; WX 333 ; N dotaccent ; B 249 604 362 706 ;
C 200 ; WX 333 ; N dieresis ; B 168 604 443 706 ;
C 202 ; WX 333 ; N ring ; B 214 572 402 756 ;
C 203 ; WX 333 ; N cedilla ; B 2 -225 232 0 ;
C 205 ; WX 333 ; N hungarumlaut ; B 157 593 565 734 ;
C 206 ; WX 333 ; N ogonek ; B 43 -225 249 0 ;
C 207 ; WX 333 ; N caron ; B 177 593 468 734 ;
C 208 ; WX 1000 ; N emdash ; B 51 240 1067 313 ;
C 225 ; WX 1000 ; N AE ; B 8 0 1097 718 ;
C 227 ; WX 370 ; N ordfeminine ; B 127 405 449 737 ;
C 232 ; WX 556 ; N Lslash ; B 41 0 555 718 ;
C 233 ; WX 778 ; N Oslash ; B 43 -19 890 737 ;
C 234 ; WX 1000 ; N OE ; B 98 -19 1116 737 ;
C 235 ; WX 365 ; N ordmasculine ; B 141 405 468 737 ;
C 241 ; WX 889 ; N ae ; B 61 -15 909 538 ;
C 245 ; WX 278 ; N dotlessi ; B 95 0 294 523 ;
C 248 ; WX 222 ; N lslash ; B 41 0 347 718 ;
C 249 ; WX 611 ; N oslash ; B 29 -22 647 545 ;
C 250 ; WX 944 ; N oe ; B 83 -15 964 538 ;
C 251 ; WX 611 ; N germandbls ; B 67 -15 658 728 ;
C -1 ; WX 278 ; N Idieresis ; B 91 0 458 901 ;
C -1 ; WX 556 ; N eacute ; B 84 -15 587 734 ;
C -1 ; WX 556 ; N abreve ; B 61 -15 578 731 ;
C -1 ; WX 556 ; N uhungarumlaut ; B 94 -15 677 734 ;
C -1 ; WX 556 ; N ecaron ; B 84 -15 580 734 ;
C -1 ; WX 667 ; N Ydieresis ; B 167 0 806 901 ;
C -1 ; WX 584 ; N divide ; B 85 -19 606 524 ;
C -1 ; WX 667 ; N Yacute ; B 167 0 806 929 ;
C -1 ; WX 667 ; N Acircumflex ; B 14 0 654 929 ;
C -1 ; WX 556 ; N aacute ; B 61 -15 587 734 ;
C -1 ; WX 722 ; N Ucircumflex ; B 123 -19 797 929 ;
C -1 ; WX 500 ; N yacute ; B 15 -214 600 734 ;
C -1 ; WX 500 ; N scommaaccent ; B 63 -225 529 538 ;
C -1 ; WX 556 ; N ecircumflex ; B 84 -15 578 734 ;
C -1 ; WX 722 ; N Uring ; B 123 -19 797 931 ;

C -1 ; WX 722 ; N Udieresis ; B 123 -19 797 901 ;
C -1 ; WX 556 ; N aogonek ; B 61 -220 559 538 ;
C -1 ; WX 722 ; N Uacute ; B 123 -19 797 929 ;
C -1 ; WX 556 ; N uogonek ; B 94 -225 600 523 ;
C -1 ; WX 667 ; N Edieresis ; B 86 0 762 901 ;
C -1 ; WX 722 ; N Dcroat ; B 69 0 764 718 ;
C -1 ; WX 250 ; N commaaccent ; B 39 -225 172 -40 ;
C -1 ; WX 737 ; N copyright ; B 54 -19 837 737 ;
C -1 ; WX 667 ; N Emacron ; B 86 0 762 879 ;
C -1 ; WX 500 ; N ccaron ; B 74 -15 553 734 ;
C -1 ; WX 556 ; N aring ; B 61 -15 559 756 ;
C -1 ; WX 722 ; N Ncommaaccent ; B 76 -225 799 718 ;
C -1 ; WX 222 ; N lacute ; B 67 0 461 929 ;
C -1 ; WX 556 ; N agrave ; B 61 -15 559 734 ;
C -1 ; WX 611 ; N Tcommaaccent ; B 148 -225 750 718 ;
C -1 ; WX 722 ; N Cacute ; B 108 -19 782 929 ;
C -1 ; WX 556 ; N atilde ; B 61 -15 592 722 ;
C -1 ; WX 667 ; N Edotaccent ; B 86 0 762 901 ;
C -1 ; WX 500 ; N scaron ; B 63 -15 552 734 ;
C -1 ; WX 500 ; N scedilla ; B 63 -225 529 538 ;
C -1 ; WX 278 ; N iacute ; B 95 0 448 734 ;
C -1 ; WX 471 ; N lozenge ; B 88 0 540 728 ;
C -1 ; WX 722 ; N Rcaron ; B 88 0 773 929 ;
C -1 ; WX 778 ; N Gcommaaccent ; B 111 -225 799 737 ;
C -1 ; WX 556 ; N ucircumflex ; B 94 -15 600 734 ;
C -1 ; WX 556 ; N acircumflex ; B 61 -15 559 734 ;
C -1 ; WX 667 ; N Amacron ; B 14 0 677 879 ;
C -1 ; WX 333 ; N rcaron ; B 77 0 508 734 ;
C -1 ; WX 500 ; N ccedilla ; B 74 -225 553 538 ;
C -1 ; WX 611 ; N Zdotaccent ; B 23 0 741 901 ;
C -1 ; WX 667 ; N Thorn ; B 86 0 712 718 ;
C -1 ; WX 778 ; N Omacron ; B 105 -19 826 879 ;
C -1 ; WX 722 ; N Racute ; B 88 0 773 929 ;
C -1 ; WX 667 ; N Sacute ; B 90 -19 713 929 ;
C -1 ; WX 643 ; N dcaron ; B 84 -15 808 718 ;
C -1 ; WX 722 ; N Umacron ; B 123 -19 797 879 ;
C -1 ; WX 556 ; N uring ; B 94 -15 600 756 ;
C -1 ; WX 333 ; N threesuperior ; B 90 270 436 703 ;
C -1 ; WX 778 ; N Ograve ; B 105 -19 826 929 ;
C -1 ; WX 667 ; N Agrave ; B 14 0 654 929 ;
C -1 ; WX 667 ; N Abreve ; B 14 0 685 926 ;
C -1 ; WX 584 ; N multiply ; B 50 0 642 506 ;
C -1 ; WX 556 ; N uacute ; B 94 -15 600 734 ;
C -1 ; WX 611 ; N Tcaron ; B 148 0 750 929 ;
C -1 ; WX 476 ; N partialdiff ; B 41 -38 550 714 ;
C -1 ; WX 500 ; N ydieresis ; B 15 -214 600 706 ;
C -1 ; WX 722 ; N Nacute ; B 76 0 799 929 ;
C -1 ; WX 278 ; N icircumflex ; B 95 0 411 734 ;

C -1 ; WX 667 ; N Ecircumflex ; B 86 0 762 929 ;
C -1 ; WX 556 ; N adieresis ; B 61 -15 559 706 ;
C -1 ; WX 556 ; N edieresis ; B 84 -15 578 706 ;
C -1 ; WX 500 ; N cacute ; B 74 -15 559 734 ;
C -1 ; WX 556 ; N nacute ; B 65 0 587 734 ;
C -1 ; WX 556 ; N umacron ; B 94 -15 600 684 ;
C -1 ; WX 722 ; N Ncaron ; B 76 0 799 929 ;
C -1 ; WX 278 ; N Iacute ; B 91 0 489 929 ;
C -1 ; WX 584 ; N plusminus ; B 39 0 618 506 ;
C -1 ; WX 260 ; N brokenbar ; B 62 -150 316 700 ;
C -1 ; WX 737 ; N registered ; B 54 -19 837 737 ;
C -1 ; WX 778 ; N Gbreve ; B 111 -19 799 926 ;
C -1 ; WX 278 ; N Idotaccent ; B 91 0 377 901 ;
C -1 ; WX 600 ; N summation ; B 15 -10 671 706 ;
C -1 ; WX 667 ; N Egrave ; B 86 0 762 929 ;
C -1 ; WX 333 ; N racute ; B 77 0 475 734 ;
C -1 ; WX 556 ; N omacron ; B 83 -14 585 684 ;
C -1 ; WX 611 ; N Zacute ; B 23 0 741 929 ;
C -1 ; WX 611 ; N Zcaron ; B 23 0 741 929 ;
C -1 ; WX 549 ; N greaterequal ; B 26 0 620 674 ;
C -1 ; WX 722 ; N Eth ; B 69 0 764 718 ;
C -1 ; WX 722 ; N Ccedilla ; B 108 -225 782 737 ;
C -1 ; WX 222 ; N lcommaaccent ; B 25 -225 308 718 ;
C -1 ; WX 317 ; N tcaron ; B 102 -7 501 808 ;
C -1 ; WX 556 ; N eogonek ; B 84 -225 578 538 ;
C -1 ; WX 722 ; N Uogonek ; B 123 -225 797 718 ;
C -1 ; WX 667 ; N Aacute ; B 14 0 683 929 ;
C -1 ; WX 667 ; N Adieresis ; B 14 0 654 901 ;
C -1 ; WX 556 ; N egrave ; B 84 -15 578 734 ;
C -1 ; WX 500 ; N zacute ; B 31 0 571 734 ;
C -1 ; WX 222 ; N iogonek ; B -61 -225 308 718 ;
C -1 ; WX 778 ; N Oacute ; B 105 -19 826 929 ;
C -1 ; WX 556 ; N oacute ; B 83 -14 587 734 ;
C -1 ; WX 556 ; N amacron ; B 61 -15 580 684 ;
C -1 ; WX 500 ; N sacute ; B 63 -15 559 734 ;
C -1 ; WX 278 ; N idieresis ; B 95 0 416 706 ;
C -1 ; WX 778 ; N Ocircumflex ; B 105 -19 826 929 ;
C -1 ; WX 722 ; N Ugrave ; B 123 -19 797 929 ;
C -1 ; WX 612 ; N Delta ; B 6 0 608 688 ;
C -1 ; WX 556 ; N thorn ; B 14 -207 584 718 ;
C -1 ; WX 333 ; N twosuperior ; B 64 281 449 703 ;
C -1 ; WX 778 ; N Odieresis ; B 105 -19 826 901 ;
C -1 ; WX 556 ; N mu ; B 24 -207 600 523 ;
C -1 ; WX 278 ; N igrave ; B 95 0 310 734 ;
C -1 ; WX 556 ; N ohungarumlaut ; B 83 -14 677 734 ;
C -1 ; WX 667 ; N Eogonek ; B 86 -220 762 718 ;
C -1 ; WX 556 ; N dcroat ; B 84 -15 689 718 ;
C -1 ; WX 834 ; N threequarters ; B 130 -19 861 703 ;

C -1 ; WX 667 ; N Scedilla ; B 90 -225 713 737 ;
C -1 ; WX 299 ; N lcaron ; B 67 0 464 718 ;
C -1 ; WX 667 ; N Kcommaaccent ; B 76 -225 808 718 ;
C -1 ; WX 556 ; N Lacute ; B 76 0 555 929 ;
C -1 ; WX 1000 ; N trademark ; B 186 306 1056 718 ;
C -1 ; WX 556 ; N edotaccent ; B 84 -15 578 706 ;
C -1 ; WX 278 ; N Igrave ; B 91 0 351 929 ;
C -1 ; WX 278 ; N Imacron ; B 91 0 483 879 ;
C -1 ; WX 556 ; N Lcaron ; B 76 0 570 718 ;
C -1 ; WX 834 ; N onehalf ; B 114 -19 839 703 ;
C -1 ; WX 549 ; N lessequal ; B 26 0 666 674 ;
C -1 ; WX 556 ; N ocircumflex ; B 83 -14 585 734 ;
C -1 ; WX 556 ; N ntilde ; B 65 0 592 722 ;
C -1 ; WX 722 ; N Uhungarumlaut ; B 123 -19 801 929 ;
C -1 ; WX 667 ; N Eacute ; B 86 0 762 929 ;
C -1 ; WX 556 ; N emacron ; B 84 -15 580 684 ;
C -1 ; WX 556 ; N gbreve ; B 42 -220 610 731 ;
C -1 ; WX 834 ; N onequarter ; B 150 -19 802 703 ;
C -1 ; WX 667 ; N Scaron ; B 90 -19 713 929 ;
C -1 ; WX 667 ; N Scommaaccent ; B 90 -225 713 737 ;
C -1 ; WX 778 ; N Ohungarumlaut ; B 105 -19 829 929 ;
C -1 ; WX 400 ; N degree ; B 169 411 468 703 ;
C -1 ; WX 556 ; N ograve ; B 83 -14 585 734 ;
C -1 ; WX 722 ; N Ccaron ; B 108 -19 782 929 ;
C -1 ; WX 556 ; N ugrave ; B 94 -15 600 734 ;
C -1 ; WX 453 ; N radical ; B 79 -80 617 762 ;
C -1 ; WX 722 ; N Dcaron ; B 81 0 764 929 ;
C -1 ; WX 333 ; N rcommaaccent ; B 30 -225 446 538 ;
C -1 ; WX 722 ; N Ntilde ; B 76 0 799 917 ;
C -1 ; WX 556 ; N otilde ; B 83 -14 602 722 ;
C -1 ; WX 722 ; N Rcommaaccent ; B 88 -225 773 718 ;
C -1 ; WX 556 ; N Lcommaaccent ; B 76 -225 555 718 ;
C -1 ; WX 667 ; N Atilde ; B 14 0 699 917 ;
C -1 ; WX 667 ; N Aogonek ; B 14 -225 654 718 ;
C -1 ; WX 667 ; N Aring ; B 14 0 654 931 ;
C -1 ; WX 778 ; N Otilde ; B 105 -19 826 917 ;
C -1 ; WX 500 ; N zdotaccent ; B 31 0 571 706 ;
C -1 ; WX 667 ; N Ecaron ; B 86 0 762 929 ;
C -1 ; WX 278 ; N Iogonek ; B -33 -225 341 718 ;
C -1 ; WX 500 ; N kcommaaccent ; B 67 -225 600 718 ;
C -1 ; WX 584 ; N minus ; B 85 216 606 289 ;
C -1 ; WX 278 ; N Icircumflex ; B 91 0 452 929 ;
C -1 ; WX 556 ; N ncaron ; B 65 0 580 734 ;
C -1 ; WX 278 ; N tcommaaccent ; B 63 -225 368 669 ;
C -1 ; WX 584 ; N logicalnot ; B 106 108 628 390 ;
C -1 ; WX 556 ; N odieresis ; B 83 -14 585 706 ;
C -1 ; WX 556 ; N udieresis ; B 94 -15 600 706 ;
C -1 ; WX 549 ; N notequal ; B 34 -35 623 551 ;

C -1 ; WX 556 ; N gcommaaccent ; B 42 -220 610 822 ;
C -1 ; WX 556 ; N eth ; B 81 -15 617 737 ;
C -1 ; WX 500 ; N zcaron ; B 31 0 571 734 ;
C -1 ; WX 556 ; N ncommaaccent ; B 65 -225 573 538 ;
C -1 ; WX 333 ; N onesuperior ; B 166 281 371 703 ;
C -1 ; WX 278 ; N imacron ; B 95 0 417 684 ;
C -1 ; WX 556 ; N Euro ; B 0 0 0 0 ;

EndCharMetrics

StartKernData

StartKernPairs 2705

KPX A C -30

KPX A Cacute -30

KPX A Ccaron -30

KPX A Ccedilla -30

KPX A G -30

KPX A Gbreve -30

KPX A Gcommaaccent -30

KPX A O -30

KPX A Oacute -30

KPX A Ocircumflex -30

KPX A Odieresis -30

KPX A Ograve -30

KPX A Ohungarumlaut -30

KPX A Omacron -30

KPX A Oslash -30

KPX A Otilde -30

KPX A Q -30

KPX A T -120

KPX A Tcaron -120

KPX A Tcommaaccent -120

KPX A U -50

KPX A Uacute -50

KPX A Ucircumflex -50

KPX A Udieresis -50

KPX A Ugrave -50

KPX A Uhungarumlaut -50

KPX A Umacron -50

KPX A Uogonek -50

KPX A Uring -50

KPX A V -70

KPX A W -50

KPX A Y -100

KPX A Yacute -100

KPX A Ydieresis -100

KPX A u -30

KPX A uacute -30

KPX A ucircumflex -30

KPX A udieresis -30

KPX A ugrave -30
KPX A uhungarumlaut -30
KPX A umacron -30
KPX A uogonek -30
KPX A uring -30
KPX A v -40
KPX A w -40
KPX A y -40
KPX A yacute -40
KPX A ydieresis -40
KPX Aacute C -30
KPX Aacute Cacute -30
KPX Aacute Ccaron -30
KPX Aacute Ccedilla -30
KPX Aacute G -30
KPX Aacute Gbreve -30
KPX Aacute Gcommaaccent -30
KPX Aacute O -30
KPX Aacute Oacute -30
KPX Aacute Ocircumflex -30
KPX Aacute Odieresis -30
KPX Aacute Ograve -30
KPX Aacute Ohungarumlaut -30
KPX Aacute Omacron -30
KPX Aacute Oslash -30
KPX Aacute Otilde -30
KPX Aacute Q -30
KPX Aacute T -120
KPX Aacute Tcaron -120
KPX Aacute Tcommaaccent -120
KPX Aacute U -50
KPX Aacute Uacute -50
KPX Aacute Ucircumflex -50
KPX Aacute Udieresis -50
KPX Aacute Ugrave -50
KPX Aacute Uhungarumlaut -50
KPX Aacute Umacron -50
KPX Aacute Uogonek -50
KPX Aacute Uring -50
KPX Aacute V -70
KPX Aacute W -50
KPX Aacute Y -100
KPX Aacute Yacute -100
KPX Aacute Ydieresis -100
KPX Aacute u -30
KPX Aacute uacute -30
KPX Aacute ucircumflex -30
KPX Aacute udieresis -30

KPX Aacute ugrave -30
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KPX Aacute umacron -30
KPX Aacute uogonek -30
KPX Aacute uring -30
KPX Aacute v -40
KPX Aacute w -40
KPX Aacute y -40
KPX Aacute yacute -40
KPX Aacute ydieresis -40
KPX Abreve C -30
KPX Abreve Cacute -30
KPX Abreve Ccaron -30
KPX Abreve Ccedilla -30
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KPX Abreve Q -30
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KPX rcaron yacute 30
KPX rcaron ydieresis 30
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KPX rcommaaccent amacron -10
KPX rcommaaccent aogonek -10
KPX rcommaaccent aring -10
KPX rcommaaccent atilde -10
KPX rcommaaccent colon 30
KPX rcommaaccent comma -50
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KPX s period -15
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KPX sacute comma -15
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KPX v comma -80
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EndKernData
EndFontMetrics

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

StartFontMetrics 4.1

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Comment Creation Date: Thu May 1 12:56:55 1997

Comment UniqueID 43067

Comment VMusage 47727 58752

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FullName Times Italic

FamilyName Times

Weight Medium

ItalicAngle -15.5

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CharacterSet ExtendedRoman

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UnderlinePosition -100

UnderlineThickness 50

Version 002.000

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EncodingScheme AdobeStandardEncoding

CapHeight 653

XHeight 441

Ascender 683

Descender -217

StdHW 32

StdVW 76

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C 33 ; WX 333 ; N exclam ; B 39 -11 302 667 ;

C 34 ; WX 420 ; N quotedbl ; B 144 421 432 666 ;

C 35 ; WX 500 ; N numbersign ; B 2 0 540 676 ;

C 36 ; WX 500 ; N dollar ; B 31 -89 497 731 ;

C 37 ; WX 833 ; N percent ; B 79 -13 790 676 ;

C 38 ; WX 778 ; N ampersand ; B 76 -18 723 666 ;

C 39 ; WX 333 ; N quoteright ; B 151 436 290 666 ;

C 40 ; WX 333 ; N parenleft ; B 42 -181 315 669 ;

C 41 ; WX 333 ; N parenright ; B 16 -180 289 669 ;

C 42 ; WX 500 ; N asterisk ; B 128 255 492 666 ;

C 43 ; WX 675 ; N plus ; B 86 0 590 506 ;

C 44 ; WX 250 ; N comma ; B -4 -129 135 101 ;

C 45 ; WX 333 ; N hyphen ; B 49 192 282 255 ;

C 46 ; WX 250 ; N period ; B 27 -11 138 100 ;

C 47 ; WX 278 ; N slash ; B -65 -18 386 666 ;

C 48 ; WX 500 ; N zero ; B 32 -7 497 676 ;

C 49 ; WX 500 ; N one ; B 49 0 409 676 ;

C 50 ; WX 500 ; N two ; B 12 0 452 676 ;

C 51 ; WX 500 ; N three ; B 15 -7 465 676 ;

C 52 ; WX 500 ; N four ; B 1 0 479 676 ;

C 53 ; WX 500 ; N five ; B 15 -7 491 666 ;

C 54 ; WX 500 ; N six ; B 30 -7 521 686 ;

C 55 ; WX 500 ; N seven ; B 75 -8 537 666 ;

C 56 ; WX 500 ; N eight ; B 30 -7 493 676 ;

C 57 ; WX 500 ; N nine ; B 23 -17 492 676 ;

C 58 ; WX 333 ; N colon ; B 50 -11 261 441 ;

C 59 ; WX 333 ; N semicolon ; B 27 -129 261 441 ;

C 60 ; WX 675 ; N less ; B 84 -8 592 514 ;

C 61 ; WX 675 ; N equal ; B 86 120 590 386 ;

C 62 ; WX 675 ; N greater ; B 84 -8 592 514 ;

C 63 ; WX 500 ; N question ; B 132 -12 472 664 ;

C 64 ; WX 920 ; N at ; B 118 -18 806 666 ;

C 65 ; WX 611 ; N A ; B -51 0 564 668 ;

C 66 ; WX 611 ; N B ; B -8 0 588 653 ;

C 67 ; WX 667 ; N C ; B 66 -18 689 666 ;
C 68 ; WX 722 ; N D ; B -8 0 700 653 ;
C 69 ; WX 611 ; N E ; B -1 0 634 653 ;
C 70 ; WX 611 ; N F ; B 8 0 645 653 ;
C 71 ; WX 722 ; N G ; B 52 -18 722 666 ;
C 72 ; WX 722 ; N H ; B -8 0 767 653 ;
C 73 ; WX 333 ; N I ; B -8 0 384 653 ;
C 74 ; WX 444 ; N J ; B -6 -18 491 653 ;
C 75 ; WX 667 ; N K ; B 7 0 722 653 ;
C 76 ; WX 556 ; N L ; B -8 0 559 653 ;
C 77 ; WX 833 ; N M ; B -18 0 873 653 ;
C 78 ; WX 667 ; N N ; B -20 -15 727 653 ;
C 79 ; WX 722 ; N O ; B 60 -18 699 666 ;
C 80 ; WX 611 ; N P ; B 0 0 605 653 ;
C 81 ; WX 722 ; N Q ; B 59 -182 699 666 ;
C 82 ; WX 611 ; N R ; B -13 0 588 653 ;
C 83 ; WX 500 ; N S ; B 17 -18 508 667 ;
C 84 ; WX 556 ; N T ; B 59 0 633 653 ;
C 85 ; WX 722 ; N U ; B 102 -18 765 653 ;
C 86 ; WX 611 ; N V ; B 76 -18 688 653 ;
C 87 ; WX 833 ; N W ; B 71 -18 906 653 ;
C 88 ; WX 611 ; N X ; B -29 0 655 653 ;
C 89 ; WX 556 ; N Y ; B 78 0 633 653 ;
C 90 ; WX 556 ; N Z ; B -6 0 606 653 ;
C 91 ; WX 389 ; N bracketleft ; B 21 -153 391 663 ;
C 92 ; WX 278 ; N backslash ; B -41 -18 319 666 ;
C 93 ; WX 389 ; N bracketright ; B 12 -153 382 663 ;
C 94 ; WX 422 ; N asciicircum ; B 0 301 422 666 ;
C 95 ; WX 500 ; N underscore ; B 0 -125 500 -75 ;
C 96 ; WX 333 ; N quoteleft ; B 171 436 310 666 ;
C 97 ; WX 500 ; N a ; B 17 -11 476 441 ;
C 98 ; WX 500 ; N b ; B 23 -11 473 683 ;
C 99 ; WX 444 ; N c ; B 30 -11 425 441 ;
C 100 ; WX 500 ; N d ; B 15 -13 527 683 ;
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C 102 ; WX 278 ; N f ; B -147 -207 424 678 ; L i f i ; L l f l ;
C 103 ; WX 500 ; N g ; B 8 -206 472 441 ;
C 104 ; WX 500 ; N h ; B 19 -9 478 683 ;
C 105 ; WX 278 ; N i ; B 49 -11 264 654 ;
C 106 ; WX 278 ; N j ; B -124 -207 276 654 ;
C 107 ; WX 444 ; N k ; B 14 -11 461 683 ;
C 108 ; WX 278 ; N l ; B 41 -11 279 683 ;
C 109 ; WX 722 ; N m ; B 12 -9 704 441 ;
C 110 ; WX 500 ; N n ; B 14 -9 474 441 ;
C 111 ; WX 500 ; N o ; B 27 -11 468 441 ;
C 112 ; WX 500 ; N p ; B -75 -205 469 441 ;
C 113 ; WX 500 ; N q ; B 25 -209 483 441 ;
C 114 ; WX 389 ; N r ; B 45 0 412 441 ;

C 115 ; WX 389 ; N s ; B 16 -13 366 442 ;
C 116 ; WX 278 ; N t ; B 37 -11 296 546 ;
C 117 ; WX 500 ; N u ; B 42 -11 475 441 ;
C 118 ; WX 444 ; N v ; B 21 -18 426 441 ;
C 119 ; WX 667 ; N w ; B 16 -18 648 441 ;
C 120 ; WX 444 ; N x ; B -27 -11 447 441 ;
C 121 ; WX 444 ; N y ; B -24 -206 426 441 ;
C 122 ; WX 389 ; N z ; B -2 -81 380 428 ;
C 123 ; WX 400 ; N braceleft ; B 51 -177 407 687 ;
C 124 ; WX 275 ; N bar ; B 105 -217 171 783 ;
C 125 ; WX 400 ; N braceright ; B -7 -177 349 687 ;
C 126 ; WX 541 ; N asciitilde ; B 40 183 502 323 ;
C 161 ; WX 389 ; N exclamdown ; B 59 -205 322 473 ;
C 162 ; WX 500 ; N cent ; B 77 -143 472 560 ;
C 163 ; WX 500 ; N sterling ; B 10 -6 517 670 ;
C 164 ; WX 167 ; N fraction ; B -169 -10 337 676 ;
C 165 ; WX 500 ; N yen ; B 27 0 603 653 ;
C 166 ; WX 500 ; N florin ; B 25 -182 507 682 ;
C 167 ; WX 500 ; N section ; B 53 -162 461 666 ;
C 168 ; WX 500 ; N currency ; B -22 53 522 597 ;
C 169 ; WX 214 ; N quotesingle ; B 132 421 241 666 ;
C 170 ; WX 556 ; N quotedblleft ; B 166 436 514 666 ;
C 171 ; WX 500 ; N guillemotleft ; B 53 37 445 403 ;
C 172 ; WX 333 ; N guilsinglleft ; B 51 37 281 403 ;
C 173 ; WX 333 ; N guilsinglright ; B 52 37 282 403 ;
C 174 ; WX 500 ; N fi ; B -141 -207 481 681 ;
C 175 ; WX 500 ; N fl ; B -141 -204 518 682 ;
C 177 ; WX 500 ; N endash ; B -6 197 505 243 ;
C 178 ; WX 500 ; N dagger ; B 101 -159 488 666 ;
C 179 ; WX 500 ; N daggerdbl ; B 22 -143 491 666 ;
C 180 ; WX 250 ; N periodcentered ; B 70 199 181 310 ;
C 182 ; WX 523 ; N paragraph ; B 55 -123 616 653 ;
C 183 ; WX 350 ; N bullet ; B 40 191 310 461 ;
C 184 ; WX 333 ; N quotesinglbase ; B 44 -129 183 101 ;
C 185 ; WX 556 ; N quotedblbase ; B 57 -129 405 101 ;
C 186 ; WX 556 ; N quotedblright ; B 151 436 499 666 ;
C 187 ; WX 500 ; N guillemotright ; B 55 37 447 403 ;
C 188 ; WX 889 ; N ellipsis ; B 57 -11 762 100 ;
C 189 ; WX 1000 ; N perthousand ; B 25 -19 1010 706 ;
C 191 ; WX 500 ; N questiondown ; B 28 -205 368 471 ;
C 193 ; WX 333 ; N grave ; B 121 492 311 664 ;
C 194 ; WX 333 ; N acute ; B 180 494 403 664 ;
C 195 ; WX 333 ; N circumflex ; B 91 492 385 661 ;
C 196 ; WX 333 ; N tilde ; B 100 517 427 624 ;
C 197 ; WX 333 ; N macron ; B 99 532 411 583 ;
C 198 ; WX 333 ; N breve ; B 117 492 418 650 ;
C 199 ; WX 333 ; N dotaccent ; B 207 548 305 646 ;
C 200 ; WX 333 ; N dieresis ; B 107 548 405 646 ;

C 202 ; WX 333 ; N ring ; B 155 492 355 691 ;
C 203 ; WX 333 ; N cedilla ; B -30 -217 182 0 ;
C 205 ; WX 333 ; N hungarumlaut ; B 93 494 486 664 ;
C 206 ; WX 333 ; N ogonek ; B 20 -169 203 40 ;
C 207 ; WX 333 ; N caron ; B 121 492 426 661 ;
C 208 ; WX 889 ; N emdash ; B -6 197 894 243 ;
C 225 ; WX 889 ; N AE ; B -27 0 911 653 ;
C 227 ; WX 276 ; N ordfeminine ; B 42 406 352 676 ;
C 232 ; WX 556 ; N Lslash ; B -8 0 559 653 ;
C 233 ; WX 722 ; N Oslash ; B 60 -105 699 722 ;
C 234 ; WX 944 ; N OE ; B 49 -8 964 666 ;
C 235 ; WX 310 ; N ordmasculine ; B 67 406 362 676 ;
C 241 ; WX 667 ; N ae ; B 23 -11 640 441 ;
C 245 ; WX 278 ; N dotlessi ; B 49 -11 235 441 ;
C 248 ; WX 278 ; N lslash ; B 41 -11 312 683 ;
C 249 ; WX 500 ; N oslash ; B 28 -135 469 554 ;
C 250 ; WX 667 ; N oe ; B 20 -12 646 441 ;
C 251 ; WX 500 ; N germandbls ; B -168 -207 493 679 ;
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C -1 ; WX 675 ; N divide ; B 86 -11 590 517 ;
C -1 ; WX 556 ; N Yacute ; B 78 0 633 876 ;
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C -1 ; WX 760 ; N copyright ; B 41 -18 719 666 ;
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C -1 ; WX 278 ; N iacute ; B 49 -11 355 664 ;
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C -1 ; WX 444 ; N edieresis ; B 31 -11 451 606 ;
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C -1 ; WX 667 ; N Ncaron ; B -20 -15 727 873 ;
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C -1 ; WX 675 ; N plusminus ; B 86 0 590 506 ;
C -1 ; WX 275 ; N brokenbar ; B 105 -142 171 708 ;
C -1 ; WX 760 ; N registered ; B 41 -18 719 666 ;
C -1 ; WX 722 ; N Gbreve ; B 52 -18 722 862 ;
C -1 ; WX 333 ; N Idotaccent ; B -8 0 384 818 ;
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C -1 ; WX 667 ; N Ccedilla ; B 66 -217 689 666 ;
C -1 ; WX 278 ; N lcommaaccent ; B 22 -217 279 683 ;
C -1 ; WX 300 ; N tcaron ; B 37 -11 407 681 ;
C -1 ; WX 444 ; N eogonek ; B 31 -169 412 441 ;
C -1 ; WX 722 ; N Uogonek ; B 102 -184 765 653 ;
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C -1 ; WX 389 ; N zacute ; B -2 -81 431 664 ;
C -1 ; WX 278 ; N iogonek ; B 49 -169 264 654 ;
C -1 ; WX 722 ; N Oacute ; B 60 -18 699 876 ;
C -1 ; WX 500 ; N oacute ; B 27 -11 487 664 ;
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C -1 ; WX 722 ; N Ugrave ; B 102 -18 765 876 ;
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KPX space W -40
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KPX space Yacute -75
KPX space Ydieresis -75
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KPX v period -74
KPX w comma -74
KPX w period -74
KPX y comma -55
KPX y period -55
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EndKernData
EndFontMetrics

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

StartFontMetrics 4.1

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Comment Creation Date: Thu May 1 12:49:17 1997

Comment UniqueID 43068

Comment VMusage 43909 54934

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FullName Times Roman

FamilyName Times

Weight Roman

ItalicAngle 0

IsFixedPitch false

CharacterSet ExtendedRoman

FontBBox -168 -218 1000 898

UnderlinePosition -100

UnderlineThickness 50

Version 002.000

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EncodingScheme AdobeStandardEncoding

CapHeight 662

XHeight 450

Ascender 683

Descender -217

StdHW 28

StdVW 84

StartCharMetrics 315

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C 34 ; WX 408 ; N quotedbl ; B 77 431 331 676 ;
C 35 ; WX 500 ; N numbersign ; B 5 0 496 662 ;
C 36 ; WX 500 ; N dollar ; B 44 -87 457 727 ;
C 37 ; WX 833 ; N percent ; B 61 -13 772 676 ;
C 38 ; WX 778 ; N ampersand ; B 42 -13 750 676 ;
C 39 ; WX 333 ; N quoteright ; B 79 433 218 676 ;
C 40 ; WX 333 ; N parenleft ; B 48 -177 304 676 ;
C 41 ; WX 333 ; N parenright ; B 29 -177 285 676 ;
C 42 ; WX 500 ; N asterisk ; B 69 265 432 676 ;
C 43 ; WX 564 ; N plus ; B 30 0 534 506 ;
C 44 ; WX 250 ; N comma ; B 56 -141 195 102 ;
C 45 ; WX 333 ; N hyphen ; B 39 194 285 257 ;
C 46 ; WX 250 ; N period ; B 70 -11 181 100 ;
C 47 ; WX 278 ; N slash ; B -9 -14 287 676 ;
C 48 ; WX 500 ; N zero ; B 24 -14 476 676 ;
C 49 ; WX 500 ; N one ; B 111 0 394 676 ;
C 50 ; WX 500 ; N two ; B 30 0 475 676 ;
C 51 ; WX 500 ; N three ; B 43 -14 431 676 ;
C 52 ; WX 500 ; N four ; B 12 0 472 676 ;
C 53 ; WX 500 ; N five ; B 32 -14 438 688 ;
C 54 ; WX 500 ; N six ; B 34 -14 468 684 ;
C 55 ; WX 500 ; N seven ; B 20 -8 449 662 ;
C 56 ; WX 500 ; N eight ; B 56 -14 445 676 ;
C 57 ; WX 500 ; N nine ; B 30 -22 459 676 ;
C 58 ; WX 278 ; N colon ; B 81 -11 192 459 ;
C 59 ; WX 278 ; N semicolon ; B 80 -141 219 459 ;
C 60 ; WX 564 ; N less ; B 28 -8 536 514 ;
C 61 ; WX 564 ; N equal ; B 30 120 534 386 ;
C 62 ; WX 564 ; N greater ; B 28 -8 536 514 ;
C 63 ; WX 444 ; N question ; B 68 -8 414 676 ;
C 64 ; WX 921 ; N at ; B 116 -14 809 676 ;
C 65 ; WX 722 ; N A ; B 15 0 706 674 ;
C 66 ; WX 667 ; N B ; B 17 0 593 662 ;
C 67 ; WX 667 ; N C ; B 28 -14 633 676 ;
C 68 ; WX 722 ; N D ; B 16 0 685 662 ;
C 69 ; WX 611 ; N E ; B 12 0 597 662 ;
C 70 ; WX 556 ; N F ; B 12 0 546 662 ;
C 71 ; WX 722 ; N G ; B 32 -14 709 676 ;
C 72 ; WX 722 ; N H ; B 19 0 702 662 ;
C 73 ; WX 333 ; N I ; B 18 0 315 662 ;
C 74 ; WX 389 ; N J ; B 10 -14 370 662 ;
C 75 ; WX 722 ; N K ; B 34 0 723 662 ;
C 76 ; WX 611 ; N L ; B 12 0 598 662 ;
C 77 ; WX 889 ; N M ; B 12 0 863 662 ;
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C 79 ; WX 722 ; N O ; B 34 -14 688 676 ;
C 80 ; WX 556 ; N P ; B 16 0 542 662 ;
C 81 ; WX 722 ; N Q ; B 34 -178 701 676 ;

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C 83 ; WX 556 ; N S ; B 42 -14 491 676 ;
C 84 ; WX 611 ; N T ; B 17 0 593 662 ;
C 85 ; WX 722 ; N U ; B 14 -14 705 662 ;
C 86 ; WX 722 ; N V ; B 16 -11 697 662 ;
C 87 ; WX 944 ; N W ; B 5 -11 932 662 ;
C 88 ; WX 722 ; N X ; B 10 0 704 662 ;
C 89 ; WX 722 ; N Y ; B 22 0 703 662 ;
C 90 ; WX 611 ; N Z ; B 9 0 597 662 ;
C 91 ; WX 333 ; N bracketleft ; B 88 -156 299 662 ;
C 92 ; WX 278 ; N backslash ; B -9 -14 287 676 ;
C 93 ; WX 333 ; N bracketright ; B 34 -156 245 662 ;
C 94 ; WX 469 ; N asciicircum ; B 24 297 446 662 ;
C 95 ; WX 500 ; N underscore ; B 0 -125 500 -75 ;
C 96 ; WX 333 ; N quoteleft ; B 115 433 254 676 ;
C 97 ; WX 444 ; N a ; B 37 -10 442 460 ;
C 98 ; WX 500 ; N b ; B 3 -10 468 683 ;
C 99 ; WX 444 ; N c ; B 25 -10 412 460 ;
C 100 ; WX 500 ; N d ; B 27 -10 491 683 ;
C 101 ; WX 444 ; N e ; B 25 -10 424 460 ;
C 102 ; WX 333 ; N f ; B 20 0 383 683 ; L i fi ; L l fl ;
C 103 ; WX 500 ; N g ; B 28 -218 470 460 ;
C 104 ; WX 500 ; N h ; B 9 0 487 683 ;
C 105 ; WX 278 ; N i ; B 16 0 253 683 ;
C 106 ; WX 278 ; N j ; B -70 -218 194 683 ;
C 107 ; WX 500 ; N k ; B 7 0 505 683 ;
C 108 ; WX 278 ; N l ; B 19 0 257 683 ;
C 109 ; WX 778 ; N m ; B 16 0 775 460 ;
C 110 ; WX 500 ; N n ; B 16 0 485 460 ;
C 111 ; WX 500 ; N o ; B 29 -10 470 460 ;
C 112 ; WX 500 ; N p ; B 5 -217 470 460 ;
C 113 ; WX 500 ; N q ; B 24 -217 488 460 ;
C 114 ; WX 333 ; N r ; B 5 0 335 460 ;
C 115 ; WX 389 ; N s ; B 51 -10 348 460 ;
C 116 ; WX 278 ; N t ; B 13 -10 279 579 ;
C 117 ; WX 500 ; N u ; B 9 -10 479 450 ;
C 118 ; WX 500 ; N v ; B 19 -14 477 450 ;
C 119 ; WX 722 ; N w ; B 21 -14 694 450 ;
C 120 ; WX 500 ; N x ; B 17 0 479 450 ;
C 121 ; WX 500 ; N y ; B 14 -218 475 450 ;
C 122 ; WX 444 ; N z ; B 27 0 418 450 ;
C 123 ; WX 480 ; N braceleft ; B 100 -181 350 680 ;
C 124 ; WX 200 ; N bar ; B 67 -218 133 782 ;
C 125 ; WX 480 ; N braceright ; B 130 -181 380 680 ;
C 126 ; WX 541 ; N asciitilde ; B 40 183 502 323 ;
C 161 ; WX 333 ; N exclamdown ; B 97 -218 205 467 ;
C 162 ; WX 500 ; N cent ; B 53 -138 448 579 ;
C 163 ; WX 500 ; N sterling ; B 12 -8 490 676 ;

C 164 ; WX 167 ; N fraction ; B -168 -14 331 676 ;
C 165 ; WX 500 ; N yen ; B -53 0 512 662 ;
C 166 ; WX 500 ; N florin ; B 7 -189 490 676 ;
C 167 ; WX 500 ; N section ; B 70 -148 426 676 ;
C 168 ; WX 500 ; N currency ; B -22 58 522 602 ;
C 169 ; WX 180 ; N quotesingle ; B 48 431 133 676 ;
C 170 ; WX 444 ; N quotedblleft ; B 43 433 414 676 ;
C 171 ; WX 500 ; N guillemotleft ; B 42 33 456 416 ;
C 172 ; WX 333 ; N guilsinglleft ; B 63 33 285 416 ;
C 173 ; WX 333 ; N guilsinglright ; B 48 33 270 416 ;
C 174 ; WX 556 ; N fi ; B 31 0 521 683 ;
C 175 ; WX 556 ; N fl ; B 32 0 521 683 ;
C 177 ; WX 500 ; N endash ; B 0 201 500 250 ;
C 178 ; WX 500 ; N dagger ; B 59 -149 442 676 ;
C 179 ; WX 500 ; N daggerdbl ; B 58 -153 442 676 ;
C 180 ; WX 250 ; N periodcentered ; B 70 199 181 310 ;
C 182 ; WX 453 ; N paragraph ; B -22 -154 450 662 ;
C 183 ; WX 350 ; N bullet ; B 40 196 310 466 ;
C 184 ; WX 333 ; N quotesinglbase ; B 79 -141 218 102 ;
C 185 ; WX 444 ; N quotedblbase ; B 45 -141 416 102 ;
C 186 ; WX 444 ; N quotedblright ; B 30 433 401 676 ;
C 187 ; WX 500 ; N guillemotright ; B 44 33 458 416 ;
C 188 ; WX 1000 ; N ellipsis ; B 111 -11 888 100 ;
C 189 ; WX 1000 ; N perthousand ; B 7 -19 994 706 ;
C 191 ; WX 444 ; N questiondown ; B 30 -218 376 466 ;
C 193 ; WX 333 ; N grave ; B 19 507 242 678 ;
C 194 ; WX 333 ; N acute ; B 93 507 317 678 ;
C 195 ; WX 333 ; N circumflex ; B 11 507 322 674 ;
C 196 ; WX 333 ; N tilde ; B 1 532 331 638 ;
C 197 ; WX 333 ; N macron ; B 11 547 322 601 ;
C 198 ; WX 333 ; N breve ; B 26 507 307 664 ;
C 199 ; WX 333 ; N dotaccent ; B 118 581 216 681 ;
C 200 ; WX 333 ; N dieresis ; B 18 581 315 681 ;
C 202 ; WX 333 ; N ring ; B 67 512 266 711 ;
C 203 ; WX 333 ; N cedilla ; B 52 -215 261 0 ;
C 205 ; WX 333 ; N hungarumlaut ; B -3 507 377 678 ;
C 206 ; WX 333 ; N ogonek ; B 62 -165 243 0 ;
C 207 ; WX 333 ; N caron ; B 11 507 322 674 ;
C 208 ; WX 1000 ; N emdash ; B 0 201 1000 250 ;
C 225 ; WX 889 ; N AE ; B 0 0 863 662 ;
C 227 ; WX 276 ; N ordfeminine ; B 4 394 270 676 ;
C 232 ; WX 611 ; N Lslash ; B 12 0 598 662 ;
C 233 ; WX 722 ; N Oslash ; B 34 -80 688 734 ;
C 234 ; WX 889 ; N OE ; B 30 -6 885 668 ;
C 235 ; WX 310 ; N ordmasculine ; B 6 394 304 676 ;
C 241 ; WX 667 ; N ae ; B 38 -10 632 460 ;
C 245 ; WX 278 ; N dotlessi ; B 16 0 253 460 ;
C 248 ; WX 278 ; N lslash ; B 19 0 259 683 ;

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C 250 ; WX 722 ; N oe ; B 30 -10 690 460 ;
C 251 ; WX 500 ; N germandbls ; B 12 -9 468 683 ;
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C -1 ; WX 564 ; N divide ; B 30 -10 534 516 ;
C -1 ; WX 722 ; N Yacute ; B 22 0 703 890 ;
C -1 ; WX 722 ; N Acircumflex ; B 15 0 706 886 ;
C -1 ; WX 444 ; N aacute ; B 37 -10 442 678 ;
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C -1 ; WX 722 ; N Ncaron ; B 12 -11 707 886 ;
C -1 ; WX 333 ; N Iacute ; B 18 0 317 890 ;
C -1 ; WX 564 ; N plusminus ; B 30 0 534 506 ;
C -1 ; WX 200 ; N brokenbar ; B 67 -143 133 707 ;
C -1 ; WX 760 ; N registered ; B 38 -14 722 676 ;
C -1 ; WX 722 ; N Gbreve ; B 32 -14 709 876 ;
C -1 ; WX 333 ; N Idotaccent ; B 18 0 315 835 ;
C -1 ; WX 600 ; N summation ; B 15 -10 585 706 ;
C -1 ; WX 611 ; N Egrave ; B 12 0 597 890 ;
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C -1 ; WX 500 ; N omacron ; B 29 -10 470 601 ;
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C -1 ; WX 611 ; N Zcaron ; B 9 0 597 886 ;
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C -1 ; WX 722 ; N Eth ; B 16 0 685 662 ;
C -1 ; WX 667 ; N Ccedilla ; B 28 -215 633 676 ;
C -1 ; WX 278 ; N lcommaaccent ; B 19 -218 257 683 ;
C -1 ; WX 326 ; N tcaron ; B 13 -10 318 722 ;
C -1 ; WX 444 ; N eogonek ; B 25 -165 424 460 ;
C -1 ; WX 722 ; N Uogonek ; B 14 -165 705 662 ;
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C -1 ; WX 444 ; N zacute ; B 27 0 418 678 ;

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C -1 ; WX 722 ; N Oacute ; B 34 -14 688 890 ;
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C -1 ; WX 278 ; N idieresis ; B -9 0 288 623 ;
C -1 ; WX 722 ; N Ocircumflex ; B 34 -14 688 886 ;
C -1 ; WX 722 ; N Ugrave ; B 14 -14 705 890 ;
C -1 ; WX 612 ; N Delta ; B 6 0 608 688 ;
C -1 ; WX 500 ; N thorn ; B 5 -217 470 683 ;
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C -1 ; WX 278 ; N igrave ; B -8 0 253 678 ;
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C -1 ; WX 611 ; N Eogonek ; B 12 -165 597 662 ;
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C -1 ; WX 556 ; N Scedilla ; B 42 -215 491 676 ;
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C -1 ; WX 611 ; N Lcaron ; B 12 0 598 676 ;
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C -1 ; WX 556 ; N Scaron ; B 42 -14 491 886 ;
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C -1 ; WX 500 ; N otilde ; B 29 -10 470 638 ;

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C -1 ; WX 722 ; N Aring ; B 15 0 706 898 ;
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C -1 ; WX 444 ; N zdotaccent ; B 27 0 418 623 ;
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C -1 ; WX 564 ; N minus ; B 30 220 534 286 ;
C -1 ; WX 333 ; N Icircumflex ; B 11 0 322 886 ;
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C -1 ; WX 564 ; N logicalnot ; B 30 108 534 386 ;
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C -1 ; WX 300 ; N onesuperior ; B 57 270 248 676 ;
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EndCharMetrics

StartKernData

StartKernPairs 2073

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KPX w omacron -10
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KPX y comma -65
KPX y period -65
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KPX ydieresis comma -65
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EndKernData
EndFontMetrics

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

StartFontMetrics 4.1

Comment Copyright (c) 1985, 1987, 1989, 1990, 1997 Adobe Systems Incorporated. All Rights Reserved.

Comment Creation Date: Thu May 1 12:43:52 1997

Comment UniqueID 43052
Comment VMusage 37169 48194
FontName Helvetica-Bold
FullName Helvetica Bold
FamilyName Helvetica
Weight Bold
ItalicAngle 0
IsFixedPitch false
CharacterSet ExtendedRoman
FontBBox -170 -228 1003 962
UnderlinePosition -100
UnderlineThickness 50
Version 002.000
Notice Copyright (c) 1985, 1987, 1989, 1990, 1997 Adobe Systems Incorporated. All Rights Reserved. Helvetica is a trademark of Linotype-Hell AG and/or its subsidiaries.
EncodingScheme AdobeStandardEncoding
CapHeight 718
XHeight 532
Ascender 718
Descender -207
StdHW 118
StdVW 140
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C 36 ; WX 556 ; N dollar ; B 30 -115 523 775 ;
C 37 ; WX 889 ; N percent ; B 28 -19 861 710 ;
C 38 ; WX 722 ; N ampersand ; B 54 -19 701 718 ;
C 39 ; WX 278 ; N quoteright ; B 69 445 209 718 ;
C 40 ; WX 333 ; N parenleft ; B 35 -208 314 734 ;
C 41 ; WX 333 ; N parenright ; B 19 -208 298 734 ;
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C 43 ; WX 584 ; N plus ; B 40 0 544 506 ;
C 44 ; WX 278 ; N comma ; B 64 -168 214 146 ;
C 45 ; WX 333 ; N hyphen ; B 27 215 306 345 ;
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C 47 ; WX 278 ; N slash ; B -33 -19 311 737 ;
C 48 ; WX 556 ; N zero ; B 32 -19 524 710 ;
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C 57 ; WX 556 ; N nine ; B 30 -19 522 710 ;
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C 59 ; WX 333 ; N semicolon ; B 92 -168 242 512 ;
C 60 ; WX 584 ; N less ; B 38 -8 546 514 ;
C 61 ; WX 584 ; N equal ; B 40 87 544 419 ;
C 62 ; WX 584 ; N greater ; B 38 -8 546 514 ;
C 63 ; WX 611 ; N question ; B 60 0 556 727 ;
C 64 ; WX 975 ; N at ; B 118 -19 856 737 ;
C 65 ; WX 722 ; N A ; B 20 0 702 718 ;
C 66 ; WX 722 ; N B ; B 76 0 669 718 ;
C 67 ; WX 722 ; N C ; B 44 -19 684 737 ;
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C 71 ; WX 778 ; N G ; B 44 -19 713 737 ;
C 72 ; WX 722 ; N H ; B 71 0 651 718 ;
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C 83 ; WX 667 ; N S ; B 39 -19 629 737 ;
C 84 ; WX 611 ; N T ; B 14 0 598 718 ;
C 85 ; WX 722 ; N U ; B 72 -19 651 718 ;
C 86 ; WX 667 ; N V ; B 19 0 648 718 ;
C 87 ; WX 944 ; N W ; B 16 0 929 718 ;
C 88 ; WX 667 ; N X ; B 14 0 653 718 ;
C 89 ; WX 667 ; N Y ; B 15 0 653 718 ;
C 90 ; WX 611 ; N Z ; B 25 0 586 718 ;
C 91 ; WX 333 ; N bracketleft ; B 63 -196 309 722 ;
C 92 ; WX 278 ; N backslash ; B -33 -19 311 737 ;
C 93 ; WX 333 ; N bracketright ; B 24 -196 270 722 ;
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C 95 ; WX 556 ; N underscore ; B 0 -125 556 -75 ;
C 96 ; WX 278 ; N quoteleft ; B 69 454 209 727 ;
C 97 ; WX 556 ; N a ; B 29 -14 527 546 ;
C 98 ; WX 611 ; N b ; B 61 -14 578 718 ;
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C 100 ; WX 611 ; N d ; B 34 -14 551 718 ;
C 101 ; WX 556 ; N e ; B 23 -14 528 546 ;
C 102 ; WX 333 ; N f ; B 10 0 318 727 ; L i fi ; L l fl ;
C 103 ; WX 611 ; N g ; B 40 -217 553 546 ;
C 104 ; WX 611 ; N h ; B 65 0 546 718 ;

C 105 ; WX 278 ; N i ; B 69 0 209 725 ;
C 106 ; WX 278 ; N j ; B 3 -214 209 725 ;
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C 108 ; WX 278 ; N l ; B 69 0 209 718 ;
C 109 ; WX 889 ; N m ; B 64 0 826 546 ;
C 110 ; WX 611 ; N n ; B 65 0 546 546 ;
C 111 ; WX 611 ; N o ; B 34 -14 578 546 ;
C 112 ; WX 611 ; N p ; B 62 -207 578 546 ;
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C 115 ; WX 556 ; N s ; B 30 -14 519 546 ;
C 116 ; WX 333 ; N t ; B 10 -6 309 676 ;
C 117 ; WX 611 ; N u ; B 66 -14 545 532 ;
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C 122 ; WX 500 ; N z ; B 20 0 480 532 ;
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C 124 ; WX 280 ; N bar ; B 84 -225 196 775 ;
C 125 ; WX 389 ; N braceright ; B 24 -196 341 722 ;
C 126 ; WX 584 ; N asciitilde ; B 61 163 523 343 ;
C 161 ; WX 333 ; N exclamdown ; B 90 -186 244 532 ;
C 162 ; WX 556 ; N cent ; B 34 -118 524 628 ;
C 163 ; WX 556 ; N sterling ; B 28 -16 541 718 ;
C 164 ; WX 167 ; N fraction ; B -170 -19 336 710 ;
C 165 ; WX 556 ; N yen ; B -9 0 565 698 ;
C 166 ; WX 556 ; N florin ; B -10 -210 516 737 ;
C 167 ; WX 556 ; N section ; B 34 -184 522 727 ;
C 168 ; WX 556 ; N currency ; B -3 76 559 636 ;
C 169 ; WX 238 ; N quotesingle ; B 70 447 168 718 ;
C 170 ; WX 500 ; N quotedblleft ; B 64 454 436 727 ;
C 171 ; WX 556 ; N guillemotleft ; B 88 76 468 484 ;
C 172 ; WX 333 ; N guilsinglleft ; B 83 76 250 484 ;
C 173 ; WX 333 ; N guilsinglright ; B 83 76 250 484 ;
C 174 ; WX 611 ; N fi ; B 10 0 542 727 ;
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C 177 ; WX 556 ; N endash ; B 0 227 556 333 ;
C 178 ; WX 556 ; N dagger ; B 36 -171 520 718 ;
C 179 ; WX 556 ; N daggerdbl ; B 36 -171 520 718 ;
C 180 ; WX 278 ; N periodcentered ; B 58 172 220 334 ;
C 182 ; WX 556 ; N paragraph ; B -8 -191 539 700 ;
C 183 ; WX 350 ; N bullet ; B 10 194 340 524 ;
C 184 ; WX 278 ; N quotesinglbase ; B 69 -146 209 127 ;
C 185 ; WX 500 ; N quotedblbase ; B 64 -146 436 127 ;
C 186 ; WX 500 ; N quotedblright ; B 64 445 436 718 ;
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C 188 ; WX 1000 ; N ellipsis ; B 92 0 908 146 ;

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C 191 ; WX 611 ; N questiondown ; B 55 -195 551 532 ;
C 193 ; WX 333 ; N grave ; B -23 604 225 750 ;
C 194 ; WX 333 ; N acute ; B 108 604 356 750 ;
C 195 ; WX 333 ; N circumflex ; B -10 604 343 750 ;
C 196 ; WX 333 ; N tilde ; B -17 610 350 737 ;
C 197 ; WX 333 ; N macron ; B -6 604 339 678 ;
C 198 ; WX 333 ; N breve ; B -2 604 335 750 ;
C 199 ; WX 333 ; N dotaccent ; B 104 614 230 729 ;
C 200 ; WX 333 ; N dieresis ; B 6 614 327 729 ;
C 202 ; WX 333 ; N ring ; B 59 568 275 776 ;
C 203 ; WX 333 ; N cedilla ; B 6 -228 245 0 ;
C 205 ; WX 333 ; N hungarumlaut ; B 9 604 486 750 ;
C 206 ; WX 333 ; N ogonek ; B 71 -228 304 0 ;
C 207 ; WX 333 ; N caron ; B -10 604 343 750 ;
C 208 ; WX 1000 ; N emdash ; B 0 227 1000 333 ;
C 225 ; WX 1000 ; N AE ; B 5 0 954 718 ;
C 227 ; WX 370 ; N ordfeminine ; B 22 401 347 737 ;
C 232 ; WX 611 ; N Lslash ; B -20 0 583 718 ;
C 233 ; WX 778 ; N Oslash ; B 33 -27 744 745 ;
C 234 ; WX 1000 ; N OE ; B 37 -19 961 737 ;
C 235 ; WX 365 ; N ordmasculine ; B 6 401 360 737 ;
C 241 ; WX 889 ; N ae ; B 29 -14 858 546 ;
C 245 ; WX 278 ; N dotlessi ; B 69 0 209 532 ;
C 248 ; WX 278 ; N lslash ; B -18 0 296 718 ;
C 249 ; WX 611 ; N oslash ; B 22 -29 589 560 ;
C 250 ; WX 944 ; N oe ; B 34 -14 912 546 ;
C 251 ; WX 611 ; N germandbls ; B 69 -14 579 731 ;
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C -1 ; WX 556 ; N eacute ; B 23 -14 528 750 ;
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C -1 ; WX 611 ; N uhungarumlaut ; B 66 -14 625 750 ;
C -1 ; WX 556 ; N ecaron ; B 23 -14 528 750 ;
C -1 ; WX 667 ; N Ydieresis ; B 15 0 653 915 ;
C -1 ; WX 584 ; N divide ; B 40 -42 544 548 ;
C -1 ; WX 667 ; N Yacute ; B 15 0 653 936 ;
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C -1 ; WX 556 ; N aacute ; B 29 -14 527 750 ;
C -1 ; WX 722 ; N Ucircumflex ; B 72 -19 651 936 ;
C -1 ; WX 556 ; N yacute ; B 10 -214 539 750 ;
C -1 ; WX 556 ; N scommaaccent ; B 30 -228 519 546 ;
C -1 ; WX 556 ; N ecircumflex ; B 23 -14 528 750 ;
C -1 ; WX 722 ; N Uring ; B 72 -19 651 962 ;
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C -1 ; WX 611 ; N otilde ; B 34 -14 578 737 ;
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C -1 ; WX 722 ; N Aogonek ; B 20 -224 742 718 ;
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C -1 ; WX 500 ; N zdotaccent ; B 20 0 480 729 ;
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C -1 ; WX 556 ; N kcommaaccent ; B 69 -228 562 718 ;
C -1 ; WX 584 ; N minus ; B 40 197 544 309 ;
C -1 ; WX 278 ; N Icircumflex ; B -37 0 316 936 ;
C -1 ; WX 611 ; N ncaron ; B 65 0 546 750 ;
C -1 ; WX 333 ; N tcommaaccent ; B 10 -228 309 676 ;
C -1 ; WX 584 ; N logicalnot ; B 40 108 544 419 ;
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C -1 ; WX 611 ; N udieresis ; B 66 -14 545 729 ;
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KPX A T -90

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StartFontMetrics 4.1

Comment Copyright (c) 1985, 1987, 1988, 1989, 1997 Adobe Systems Incorporated. All Rights Reserved.

Comment Creation Date: Thu May 1 15:14:13 1997

Comment UniqueID 43082

Comment VMusage 45775 55535

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FullName ITC Zapf Dingbats

FamilyName ZapfDingbats

Weight Medium

ItalicAngle 0

IsFixedPitch false

CharacterSet Special

FontBBox -1 -143 981 820

UnderlinePosition -100

UnderlineThickness 50

Version 002.000

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EncodingScheme FontSpecific

StdHW 28

StdVW 90

StartCharMetrics 202

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Comment Copyright (c) 1989, 1990, 1991, 1993, 1997 Adobe Systems Incorporated. All Rights Reserved.

Comment Creation Date: Mon Jun 23 16:28:46 1997

Comment UniqueID 43049

Comment VMusage 17529 79244

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FullName Courier Bold Oblique

FamilyName Courier

Weight Bold

ItalicAngle -12

IsFixedPitch true

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FontBBox -57 -250 869 801
UnderlinePosition -100
UnderlineThickness 50
Version 003.000
Notice Copyright (c) 1989, 1990, 1991, 1993, 1997 Adobe Systems Incorporated. All Rights Reserved.
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XHeight 439
Ascender 629
Descender -157
StdHW 84
StdVW 106
StartCharMetrics 315
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C 34 ; WX 600 ; N quotedbl ; B 211 277 585 562 ;
C 35 ; WX 600 ; N numbersign ; B 88 -45 641 651 ;
C 36 ; WX 600 ; N dollar ; B 87 -126 630 666 ;
C 37 ; WX 600 ; N percent ; B 101 -15 625 616 ;
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C 40 ; WX 600 ; N parenleft ; B 265 -102 592 616 ;
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C 43 ; WX 600 ; N plus ; B 114 39 596 478 ;
C 44 ; WX 600 ; N comma ; B 99 -111 430 174 ;
C 45 ; WX 600 ; N hyphen ; B 143 203 567 313 ;
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C 122 ; WX 600 ; N z ; B 81 0 614 439 ;
C 123 ; WX 600 ; N braceleft ; B 203 -102 595 616 ;
C 124 ; WX 600 ; N bar ; B 201 -250 505 750 ;
C 125 ; WX 600 ; N braceright ; B 114 -102 506 616 ;
C 126 ; WX 600 ; N asciitilde ; B 120 153 590 356 ;
C 161 ; WX 600 ; N exclamdown ; B 196 -146 477 449 ;
C 162 ; WX 600 ; N cent ; B 121 -49 605 614 ;
C 163 ; WX 600 ; N sterling ; B 106 -28 650 611 ;
C 164 ; WX 600 ; N fraction ; B 22 -60 708 661 ;
C 165 ; WX 600 ; N yen ; B 98 0 710 562 ;
C 166 ; WX 600 ; N florin ; B -57 -131 702 616 ;
C 167 ; WX 600 ; N section ; B 74 -70 620 580 ;
C 168 ; WX 600 ; N currency ; B 77 49 644 517 ;
C 169 ; WX 600 ; N quotesingle ; B 303 277 493 562 ;
C 170 ; WX 600 ; N quotedblleft ; B 190 277 594 562 ;
C 171 ; WX 600 ; N guillemotleft ; B 62 70 639 446 ;
C 172 ; WX 600 ; N guilsinglleft ; B 195 70 545 446 ;
C 173 ; WX 600 ; N guilsinglright ; B 165 70 514 446 ;
C 174 ; WX 600 ; N fi ; B 12 0 644 626 ;
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C 178 ; WX 600 ; N dagger ; B 175 -70 586 580 ;
C 179 ; WX 600 ; N daggerdbl ; B 121 -70 587 580 ;
C 180 ; WX 600 ; N periodcentered ; B 248 165 461 351 ;
C 182 ; WX 600 ; N paragraph ; B 61 -70 700 580 ;
C 183 ; WX 600 ; N bullet ; B 196 132 523 430 ;
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C 185 ; WX 600 ; N quotedblbase ; B 34 -142 560 143 ;
C 186 ; WX 600 ; N quotedblright ; B 119 277 645 562 ;
C 187 ; WX 600 ; N guillemotright ; B 71 70 647 446 ;
C 188 ; WX 600 ; N ellipsis ; B 35 -15 587 116 ;
C 189 ; WX 600 ; N perthousand ; B -45 -15 743 616 ;
C 191 ; WX 600 ; N questiondown ; B 100 -146 509 449 ;
C 193 ; WX 600 ; N grave ; B 272 508 503 661 ;
C 194 ; WX 600 ; N acute ; B 312 508 609 661 ;
C 195 ; WX 600 ; N circumflex ; B 212 483 607 657 ;
C 196 ; WX 600 ; N tilde ; B 199 493 643 636 ;
C 197 ; WX 600 ; N macron ; B 195 505 637 585 ;
C 198 ; WX 600 ; N breve ; B 217 468 652 631 ;
C 199 ; WX 600 ; N dotaccent ; B 348 498 493 638 ;

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C 203 ; WX 600 ; N cedilla ; B 168 -206 368 0 ;
C 205 ; WX 600 ; N hungarumlaut ; B 171 488 729 661 ;
C 206 ; WX 600 ; N ogonek ; B 143 -199 367 0 ;
C 207 ; WX 600 ; N caron ; B 238 493 633 667 ;
C 208 ; WX 600 ; N emdash ; B 33 203 677 313 ;
C 225 ; WX 600 ; N AE ; B -29 0 708 562 ;
C 227 ; WX 600 ; N ordfeminine ; B 188 196 526 580 ;
C 232 ; WX 600 ; N Lslash ; B 39 0 636 562 ;
C 233 ; WX 600 ; N Oslash ; B 48 -22 673 584 ;
C 234 ; WX 600 ; N OE ; B 26 0 701 562 ;
C 235 ; WX 600 ; N ordmasculine ; B 188 196 543 580 ;
C 241 ; WX 600 ; N ae ; B 21 -15 652 454 ;
C 245 ; WX 600 ; N dotlessi ; B 77 0 546 439 ;
C 248 ; WX 600 ; N lslash ; B 77 0 587 626 ;
C 249 ; WX 600 ; N oslash ; B 54 -24 638 463 ;
C 250 ; WX 600 ; N oe ; B 18 -15 662 454 ;
C 251 ; WX 600 ; N germandbls ; B 22 -15 629 626 ;
C -1 ; WX 600 ; N Idieresis ; B 77 0 643 761 ;
C -1 ; WX 600 ; N eacute ; B 81 -15 609 661 ;
C -1 ; WX 600 ; N abreve ; B 61 -15 658 661 ;
C -1 ; WX 600 ; N uhungarumlaut ; B 70 -15 769 661 ;
C -1 ; WX 600 ; N ecaron ; B 81 -15 633 667 ;
C -1 ; WX 600 ; N Ydieresis ; B 109 0 709 761 ;
C -1 ; WX 600 ; N divide ; B 114 16 596 500 ;
C -1 ; WX 600 ; N Yacute ; B 109 0 709 784 ;
C -1 ; WX 600 ; N Acircumflex ; B -9 0 632 780 ;
C -1 ; WX 600 ; N aacute ; B 61 -15 609 661 ;
C -1 ; WX 600 ; N Ucircumflex ; B 101 -18 716 780 ;
C -1 ; WX 600 ; N yacute ; B -21 -142 695 661 ;
C -1 ; WX 600 ; N scommaaccent ; B 66 -250 608 459 ;
C -1 ; WX 600 ; N ecircumflex ; B 81 -15 607 657 ;
C -1 ; WX 600 ; N Uring ; B 101 -18 716 801 ;
C -1 ; WX 600 ; N Udieresis ; B 101 -18 716 761 ;
C -1 ; WX 600 ; N aogonek ; B 61 -199 593 454 ;
C -1 ; WX 600 ; N Uacute ; B 101 -18 716 784 ;
C -1 ; WX 600 ; N uogonek ; B 70 -199 592 439 ;
C -1 ; WX 600 ; N Edieresis ; B 25 0 670 761 ;
C -1 ; WX 600 ; N Dcroat ; B 30 0 664 562 ;
C -1 ; WX 600 ; N commaaccent ; B 151 -250 385 -57 ;
C -1 ; WX 600 ; N copyright ; B 53 -18 667 580 ;
C -1 ; WX 600 ; N Emacron ; B 25 0 670 708 ;
C -1 ; WX 600 ; N ccaron ; B 81 -15 633 667 ;
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C -1 ; WX 600 ; N Ncommaaccent ; B 8 -250 730 562 ;
C -1 ; WX 600 ; N lacute ; B 77 0 639 801 ;
C -1 ; WX 600 ; N agrave ; B 61 -15 593 661 ;

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C -1 ; WX 600 ; N Edotaccent ; B 25 0 670 761 ;
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C -1 ; WX 600 ; N scedilla ; B 66 -206 608 459 ;
C -1 ; WX 600 ; N iacute ; B 77 0 609 661 ;
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C -1 ; WX 600 ; N Omacron ; B 74 -18 663 708 ;
C -1 ; WX 600 ; N Racute ; B 24 0 665 784 ;
C -1 ; WX 600 ; N Sacute ; B 54 -22 673 784 ;
C -1 ; WX 600 ; N dcaron ; B 60 -15 861 626 ;
C -1 ; WX 600 ; N Umacron ; B 101 -18 716 708 ;
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C -1 ; WX 600 ; N uacute ; B 70 -15 599 661 ;
C -1 ; WX 600 ; N Tcaron ; B 86 0 679 790 ;
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C -1 ; WX 600 ; N ydieresis ; B -21 -142 695 638 ;
C -1 ; WX 600 ; N Nacute ; B 8 -12 730 784 ;
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C -1 ; WX 600 ; N Ecircumflex ; B 25 0 670 780 ;
C -1 ; WX 600 ; N adieresis ; B 61 -15 595 638 ;
C -1 ; WX 600 ; N edieresis ; B 81 -15 605 638 ;
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C -1 ; WX 600 ; N Zacute ; B 62 0 665 784 ;
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C -1 ; WX 600 ; N greaterequal ; B 26 0 627 696 ;
C -1 ; WX 600 ; N Eth ; B 30 0 664 562 ;
C -1 ; WX 600 ; N Ccedilla ; B 74 -206 675 580 ;
C -1 ; WX 600 ; N lcommaaccent ; B 77 -250 546 626 ;
C -1 ; WX 600 ; N tcaron ; B 118 -15 627 703 ;
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C -1 ; WX 600 ; N Ocircumflex ; B 74 -18 645 780 ;
C -1 ; WX 600 ; N Ugrave ; B 101 -18 716 784 ;
C -1 ; WX 600 ; N Delta ; B 6 0 594 688 ;
C -1 ; WX 600 ; N thorn ; B -32 -142 622 626 ;
C -1 ; WX 600 ; N twosuperior ; B 191 230 542 616 ;
C -1 ; WX 600 ; N Odieresis ; B 74 -18 645 761 ;
C -1 ; WX 600 ; N mu ; B 49 -142 592 439 ;
C -1 ; WX 600 ; N igrave ; B 77 0 546 661 ;
C -1 ; WX 600 ; N ohungarumlaut ; B 71 -15 809 661 ;
C -1 ; WX 600 ; N Eogonek ; B 25 -199 670 562 ;
C -1 ; WX 600 ; N dcroat ; B 60 -15 712 626 ;
C -1 ; WX 600 ; N threequarters ; B 8 -60 699 661 ;
C -1 ; WX 600 ; N Scedilla ; B 54 -206 673 582 ;
C -1 ; WX 600 ; N lcaron ; B 77 0 731 626 ;
C -1 ; WX 600 ; N Kcommaaccent ; B 21 -250 692 562 ;
C -1 ; WX 600 ; N Lacute ; B 39 0 636 784 ;
C -1 ; WX 600 ; N trademark ; B 86 230 869 562 ;
C -1 ; WX 600 ; N edotaccent ; B 81 -15 605 638 ;
C -1 ; WX 600 ; N Igrave ; B 77 0 643 784 ;
C -1 ; WX 600 ; N Imacron ; B 77 0 663 708 ;
C -1 ; WX 600 ; N Lcaron ; B 39 0 757 562 ;
C -1 ; WX 600 ; N onehalf ; B 22 -60 716 661 ;
C -1 ; WX 600 ; N lessequal ; B 26 0 671 696 ;
C -1 ; WX 600 ; N ocircumflex ; B 71 -15 622 657 ;
C -1 ; WX 600 ; N ntilde ; B 18 0 643 636 ;
C -1 ; WX 600 ; N Uhungarumlaut ; B 101 -18 805 784 ;

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C -1 ; WX 600 ; N gbreve ; B 40 -146 674 661 ;
C -1 ; WX 600 ; N onequarter ; B 13 -60 707 661 ;
C -1 ; WX 600 ; N Scaron ; B 54 -22 689 790 ;
C -1 ; WX 600 ; N Scommaaccent ; B 54 -250 673 582 ;
C -1 ; WX 600 ; N Ohungarumlaut ; B 74 -18 795 784 ;
C -1 ; WX 600 ; N degree ; B 173 243 570 616 ;
C -1 ; WX 600 ; N ograve ; B 71 -15 622 661 ;
C -1 ; WX 600 ; N Ccaron ; B 74 -18 689 790 ;
C -1 ; WX 600 ; N ugrave ; B 70 -15 592 661 ;
C -1 ; WX 600 ; N radical ; B 67 -104 635 778 ;
C -1 ; WX 600 ; N Dcaron ; B 30 0 664 790 ;
C -1 ; WX 600 ; N rcommaaccent ; B 47 -250 655 454 ;
C -1 ; WX 600 ; N Ntilde ; B 8 -12 730 759 ;
C -1 ; WX 600 ; N otilde ; B 71 -15 643 636 ;
C -1 ; WX 600 ; N Rcommaaccent ; B 24 -250 617 562 ;
C -1 ; WX 600 ; N Lcommaaccent ; B 39 -250 636 562 ;
C -1 ; WX 600 ; N Atilde ; B -9 0 669 759 ;
C -1 ; WX 600 ; N Aogonek ; B -9 -199 632 562 ;
C -1 ; WX 600 ; N Aring ; B -9 0 632 801 ;
C -1 ; WX 600 ; N Otilde ; B 74 -18 669 759 ;
C -1 ; WX 600 ; N zdotaccent ; B 81 0 614 638 ;
C -1 ; WX 600 ; N Ecaron ; B 25 0 670 790 ;
C -1 ; WX 600 ; N Iogonek ; B 77 -199 643 562 ;
C -1 ; WX 600 ; N kcommaaccent ; B 33 -250 643 626 ;
C -1 ; WX 600 ; N minus ; B 114 203 596 313 ;
C -1 ; WX 600 ; N Icircumflex ; B 77 0 643 780 ;
C -1 ; WX 600 ; N ncaron ; B 18 0 633 667 ;
C -1 ; WX 600 ; N tcommaaccent ; B 118 -250 567 562 ;
C -1 ; WX 600 ; N logicalnot ; B 135 103 617 413 ;
C -1 ; WX 600 ; N odieresis ; B 71 -15 622 638 ;
C -1 ; WX 600 ; N udieresis ; B 70 -15 595 638 ;
C -1 ; WX 600 ; N notequal ; B 30 -47 626 563 ;
C -1 ; WX 600 ; N gcommaaccent ; B 40 -146 674 714 ;
C -1 ; WX 600 ; N eth ; B 93 -27 661 626 ;
C -1 ; WX 600 ; N zcaron ; B 81 0 643 667 ;
C -1 ; WX 600 ; N ncommaaccent ; B 18 -250 615 454 ;
C -1 ; WX 600 ; N onesuperior ; B 212 230 514 616 ;
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FullName Courier Bold

FamilyName Courier

Weight Bold

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CharacterSet ExtendedRoman

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UnderlinePosition -100

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EncodingScheme AdobeStandardEncoding

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XHeight 439

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Descender -157

StdHW 84

StdVW 106

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C 36 ; WX 600 ; N dollar ; B 82 -126 519 666 ;

C 37 ; WX 600 ; N percent ; B 5 -15 595 616 ;

C 38 ; WX 600 ; N ampersand ; B 36 -15 546 543 ;

C 39 ; WX 600 ; N quoteright ; B 171 277 423 562 ;

C 40 ; WX 600 ; N parenleft ; B 219 -102 461 616 ;

C 41 ; WX 600 ; N parenright ; B 139 -102 381 616 ;

C 42 ; WX 600 ; N asterisk ; B 91 219 509 601 ;

C 43 ; WX 600 ; N plus ; B 71 39 529 478 ;

C 44 ; WX 600 ; N comma ; B 123 -111 393 174 ;

C 45 ; WX 600 ; N hyphen ; B 100 203 500 313 ;

C 46 ; WX 600 ; N period ; B 192 -15 408 171 ;

C 47 ; WX 600 ; N slash ; B 98 -77 502 626 ;

C 48 ; WX 600 ; N zero ; B 87 -15 513 616 ;

C 49 ; WX 600 ; N one ; B 81 0 539 616 ;

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C 53 ; WX 600 ; N five ; B 70 -15 521 601 ;

C 54 ; WX 600 ; N six ; B 90 -15 521 616 ;

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C 56 ; WX 600 ; N eight ; B 83 -15 517 616 ;
C 57 ; WX 600 ; N nine ; B 79 -15 510 616 ;
C 58 ; WX 600 ; N colon ; B 191 -15 407 425 ;
C 59 ; WX 600 ; N semicolon ; B 123 -111 408 425 ;
C 60 ; WX 600 ; N less ; B 66 15 523 501 ;
C 61 ; WX 600 ; N equal ; B 71 118 529 398 ;
C 62 ; WX 600 ; N greater ; B 77 15 534 501 ;
C 63 ; WX 600 ; N question ; B 98 -14 501 580 ;
C 64 ; WX 600 ; N at ; B 16 -15 584 616 ;
C 65 ; WX 600 ; N A ; B -9 0 609 562 ;
C 66 ; WX 600 ; N B ; B 30 0 573 562 ;
C 67 ; WX 600 ; N C ; B 22 -18 560 580 ;
C 68 ; WX 600 ; N D ; B 30 0 594 562 ;
C 69 ; WX 600 ; N E ; B 25 0 560 562 ;
C 70 ; WX 600 ; N F ; B 39 0 570 562 ;
C 71 ; WX 600 ; N G ; B 22 -18 594 580 ;
C 72 ; WX 600 ; N H ; B 20 0 580 562 ;
C 73 ; WX 600 ; N I ; B 77 0 523 562 ;
C 74 ; WX 600 ; N J ; B 37 -18 601 562 ;
C 75 ; WX 600 ; N K ; B 21 0 599 562 ;
C 76 ; WX 600 ; N L ; B 39 0 578 562 ;
C 77 ; WX 600 ; N M ; B -2 0 602 562 ;
C 78 ; WX 600 ; N N ; B 8 -12 610 562 ;
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C 80 ; WX 600 ; N P ; B 48 0 559 562 ;
C 81 ; WX 600 ; N Q ; B 32 -138 578 580 ;
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C 90 ; WX 600 ; N Z ; B 62 0 539 562 ;
C 91 ; WX 600 ; N bracketleft ; B 245 -102 475 616 ;
C 92 ; WX 600 ; N backslash ; B 99 -77 503 626 ;
C 93 ; WX 600 ; N bracketright ; B 125 -102 355 616 ;
C 94 ; WX 600 ; N asciicircum ; B 108 250 492 616 ;
C 95 ; WX 600 ; N underscore ; B 0 -125 600 -75 ;
C 96 ; WX 600 ; N quoteleft ; B 178 277 428 562 ;
C 97 ; WX 600 ; N a ; B 35 -15 570 454 ;
C 98 ; WX 600 ; N b ; B 0 -15 584 626 ;
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C 122 ; WX 600 ; N z ; B 81 0 520 439 ;
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C 124 ; WX 600 ; N bar ; B 255 -250 345 750 ;
C 125 ; WX 600 ; N braceright ; B 136 -102 440 616 ;
C 126 ; WX 600 ; N asciitilde ; B 71 153 530 356 ;
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C 165 ; WX 600 ; N yen ; B 10 0 590 562 ;
C 166 ; WX 600 ; N florin ; B -30 -131 572 616 ;
C 167 ; WX 600 ; N section ; B 83 -70 517 580 ;
C 168 ; WX 600 ; N currency ; B 54 49 546 517 ;
C 169 ; WX 600 ; N quotesingle ; B 227 277 373 562 ;
C 170 ; WX 600 ; N quotedblleft ; B 71 277 535 562 ;
C 171 ; WX 600 ; N guillemotleft ; B 8 70 553 446 ;
C 172 ; WX 600 ; N guilsinglleft ; B 141 70 459 446 ;
C 173 ; WX 600 ; N guilsinglright ; B 141 70 459 446 ;
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C 178 ; WX 600 ; N dagger ; B 106 -70 494 580 ;
C 179 ; WX 600 ; N daggerdbl ; B 106 -70 494 580 ;
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C 182 ; WX 600 ; N paragraph ; B 6 -70 576 580 ;
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C 185 ; WX 600 ; N quotedblbase ; B 65 -142 529 143 ;
C 186 ; WX 600 ; N quotedblright ; B 61 277 525 562 ;

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C 188 ; WX 600 ; N ellipsis ; B 26 -15 574 116 ;
C 189 ; WX 600 ; N perthousand ; B -113 -15 713 616 ;
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C 227 ; WX 600 ; N ordfeminine ; B 147 196 453 580 ;
C 232 ; WX 600 ; N Lslash ; B 39 0 578 562 ;
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C 234 ; WX 600 ; N OE ; B -25 0 595 562 ;
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C 241 ; WX 600 ; N ae ; B -4 -15 601 454 ;
C 245 ; WX 600 ; N dotlessi ; B 77 0 523 439 ;
C 248 ; WX 600 ; N lslash ; B 77 0 523 626 ;
C 249 ; WX 600 ; N oslash ; B 30 -24 570 463 ;
C 250 ; WX 600 ; N oe ; B -18 -15 611 454 ;
C 251 ; WX 600 ; N germandbls ; B 22 -15 596 626 ;
C -1 ; WX 600 ; N Idieresis ; B 77 0 523 761 ;
C -1 ; WX 600 ; N eacute ; B 40 -15 563 661 ;
C -1 ; WX 600 ; N abreve ; B 35 -15 570 661 ;
C -1 ; WX 600 ; N uhungarumlaut ; B -1 -15 628 661 ;
C -1 ; WX 600 ; N ecaron ; B 40 -15 563 667 ;
C -1 ; WX 600 ; N Ydieresis ; B 12 0 589 761 ;
C -1 ; WX 600 ; N divide ; B 71 16 529 500 ;
C -1 ; WX 600 ; N Yacute ; B 12 0 589 784 ;
C -1 ; WX 600 ; N Acircumflex ; B -9 0 609 780 ;
C -1 ; WX 600 ; N aacute ; B 35 -15 570 661 ;
C -1 ; WX 600 ; N Ucircumflex ; B 4 -18 596 780 ;
C -1 ; WX 600 ; N yacute ; B -4 -142 601 661 ;
C -1 ; WX 600 ; N scommaaccent ; B 68 -250 535 459 ;
C -1 ; WX 600 ; N ecircumflex ; B 40 -15 563 657 ;
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C -1 ; WX 600 ; N Udieresis ; B 4 -18 596 761 ;
C -1 ; WX 600 ; N aogonek ; B 35 -199 586 454 ;
C -1 ; WX 600 ; N Uacute ; B 4 -18 596 784 ;

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C -1 ; WX 600 ; N Edieresis ; B 25 0 560 761 ;
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C -1 ; WX 600 ; N commaaccent ; B 205 -250 397 -57 ;
C -1 ; WX 600 ; N copyright ; B 0 -18 600 580 ;
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C -1 ; WX 600 ; N aring ; B 35 -15 570 678 ;
C -1 ; WX 600 ; N Ncommaaccent ; B 8 -250 610 562 ;
C -1 ; WX 600 ; N lacute ; B 77 0 523 801 ;
C -1 ; WX 600 ; N agrave ; B 35 -15 570 661 ;
C -1 ; WX 600 ; N Tcommaaccent ; B 21 -250 579 562 ;
C -1 ; WX 600 ; N Cacute ; B 22 -18 560 784 ;
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C -1 ; WX 600 ; N Edotaccent ; B 25 0 560 761 ;
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C -1 ; WX 600 ; N scedilla ; B 68 -206 535 459 ;
C -1 ; WX 600 ; N iacute ; B 77 0 523 661 ;
C -1 ; WX 600 ; N lozenge ; B 66 0 534 740 ;
C -1 ; WX 600 ; N Rcaron ; B 24 0 599 790 ;
C -1 ; WX 600 ; N Gcommaaccent ; B 22 -250 594 580 ;
C -1 ; WX 600 ; N ucircumflex ; B -1 -15 569 657 ;
C -1 ; WX 600 ; N acircumflex ; B 35 -15 570 657 ;
C -1 ; WX 600 ; N Amacron ; B -9 0 609 708 ;
C -1 ; WX 600 ; N rcaron ; B 47 0 580 667 ;
C -1 ; WX 600 ; N ccedilla ; B 40 -206 545 459 ;
C -1 ; WX 600 ; N Zdotaccent ; B 62 0 539 761 ;
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C -1 ; WX 600 ; N Omacron ; B 22 -18 578 708 ;
C -1 ; WX 600 ; N Racute ; B 24 0 599 784 ;
C -1 ; WX 600 ; N Sacute ; B 47 -22 553 784 ;
C -1 ; WX 600 ; N dcaron ; B 20 -15 727 626 ;
C -1 ; WX 600 ; N Umacron ; B 4 -18 596 708 ;
C -1 ; WX 600 ; N uring ; B -1 -15 569 678 ;
C -1 ; WX 600 ; N threesuperior ; B 138 222 433 616 ;
C -1 ; WX 600 ; N Ograve ; B 22 -18 578 784 ;
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C -1 ; WX 600 ; N Abreve ; B -9 0 609 784 ;
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C -1 ; WX 600 ; N uacute ; B -1 -15 569 661 ;
C -1 ; WX 600 ; N Tcaron ; B 21 0 579 790 ;
C -1 ; WX 600 ; N partialdiff ; B 63 -38 537 728 ;
C -1 ; WX 600 ; N ydieresis ; B -4 -142 601 638 ;
C -1 ; WX 600 ; N Nacute ; B 8 -12 610 784 ;
C -1 ; WX 600 ; N icircumflex ; B 73 0 523 657 ;
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C -1 ; WX 600 ; N Idotaccent ; B 77 0 523 761 ;
C -1 ; WX 600 ; N summation ; B 15 -10 586 706 ;
C -1 ; WX 600 ; N Egrave ; B 25 0 560 784 ;
C -1 ; WX 600 ; N racute ; B 47 0 580 661 ;
C -1 ; WX 600 ; N omacron ; B 30 -15 570 585 ;
C -1 ; WX 600 ; N Zacute ; B 62 0 539 784 ;
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C -1 ; WX 600 ; N greaterequal ; B 26 0 523 696 ;
C -1 ; WX 600 ; N Eth ; B 30 0 594 562 ;
C -1 ; WX 600 ; N Ccedilla ; B 22 -206 560 580 ;
C -1 ; WX 600 ; N lcommaaccent ; B 77 -250 523 626 ;
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C -1 ; WX 600 ; N eogonek ; B 40 -199 563 454 ;
C -1 ; WX 600 ; N Uogonek ; B 4 -199 596 562 ;
C -1 ; WX 600 ; N Aacute ; B -9 0 609 784 ;
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C -1 ; WX 600 ; N egrave ; B 40 -15 563 661 ;
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C -1 ; WX 600 ; N amacron ; B 35 -15 570 585 ;
C -1 ; WX 600 ; N sacute ; B 68 -17 535 661 ;
C -1 ; WX 600 ; N idieresis ; B 77 0 523 618 ;
C -1 ; WX 600 ; N Ocircumflex ; B 22 -18 578 780 ;
C -1 ; WX 600 ; N Ugrave ; B 4 -18 596 784 ;
C -1 ; WX 600 ; N Delta ; B 6 0 594 688 ;
C -1 ; WX 600 ; N thorn ; B -14 -142 570 626 ;
C -1 ; WX 600 ; N twosuperior ; B 143 230 436 616 ;
C -1 ; WX 600 ; N Odieresis ; B 22 -18 578 761 ;
C -1 ; WX 600 ; N mu ; B -1 -142 569 439 ;
C -1 ; WX 600 ; N igrave ; B 77 0 523 661 ;
C -1 ; WX 600 ; N ohungarumlaut ; B 30 -15 668 661 ;
C -1 ; WX 600 ; N Eogonek ; B 25 -199 576 562 ;
C -1 ; WX 600 ; N dcroat ; B 20 -15 591 626 ;
C -1 ; WX 600 ; N threequarters ; B -47 -60 648 661 ;
C -1 ; WX 600 ; N Scedilla ; B 47 -206 553 582 ;
C -1 ; WX 600 ; N lcaron ; B 77 0 597 626 ;
C -1 ; WX 600 ; N Kcommaaccent ; B 21 -250 599 562 ;

C -1 ; WX 600 ; N Lacute ; B 39 0 578 784 ;
C -1 ; WX 600 ; N trademark ; B -9 230 749 562 ;
C -1 ; WX 600 ; N edotaccent ; B 40 -15 563 638 ;
C -1 ; WX 600 ; N Igrave ; B 77 0 523 784 ;
C -1 ; WX 600 ; N Imacron ; B 77 0 523 708 ;
C -1 ; WX 600 ; N Lcaron ; B 39 0 637 562 ;
C -1 ; WX 600 ; N onehalf ; B -47 -60 648 661 ;
C -1 ; WX 600 ; N lessequal ; B 26 0 523 696 ;
C -1 ; WX 600 ; N ocircumflex ; B 30 -15 570 657 ;
C -1 ; WX 600 ; N ntilde ; B 18 0 592 636 ;
C -1 ; WX 600 ; N Uhungarumlaut ; B 4 -18 638 784 ;
C -1 ; WX 600 ; N Eacute ; B 25 0 560 784 ;
C -1 ; WX 600 ; N emacron ; B 40 -15 563 585 ;
C -1 ; WX 600 ; N gbreve ; B 30 -146 580 661 ;
C -1 ; WX 600 ; N onequarter ; B -56 -60 656 661 ;
C -1 ; WX 600 ; N Scaron ; B 47 -22 553 790 ;
C -1 ; WX 600 ; N Scommaaccent ; B 47 -250 553 582 ;
C -1 ; WX 600 ; N Ohungarumlaut ; B 22 -18 628 784 ;
C -1 ; WX 600 ; N degree ; B 86 243 474 616 ;
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C -1 ; WX 600 ; N radical ; B -19 -104 473 778 ;
C -1 ; WX 600 ; N Dcaron ; B 30 0 594 790 ;
C -1 ; WX 600 ; N rcommaaccent ; B 47 -250 580 454 ;
C -1 ; WX 600 ; N Ntilde ; B 8 -12 610 759 ;
C -1 ; WX 600 ; N otilde ; B 30 -15 570 636 ;
C -1 ; WX 600 ; N Rcommaaccent ; B 24 -250 599 562 ;
C -1 ; WX 600 ; N Lcommaaccent ; B 39 -250 578 562 ;
C -1 ; WX 600 ; N Atilde ; B -9 0 609 759 ;
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C -1 ; WX 600 ; N Aring ; B -9 0 609 801 ;
C -1 ; WX 600 ; N Otilde ; B 22 -18 578 759 ;
C -1 ; WX 600 ; N zdotaccent ; B 81 0 520 638 ;
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C -1 ; WX 600 ; N tcommaaccent ; B 47 -250 532 562 ;
C -1 ; WX 600 ; N logicalnot ; B 71 103 529 413 ;
C -1 ; WX 600 ; N odieresis ; B 30 -15 570 638 ;
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C -1 ; WX 600 ; N notequal ; B 12 -47 537 563 ;
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XHeight 461

Ascender 683

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StdVW 139

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C 37 ; WX 1000 ; N percent ; B 124 -14 877 692 ;

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C 44 ; WX 250 ; N comma ; B 39 -180 223 155 ;
C 45 ; WX 333 ; N hyphen ; B 44 171 287 287 ;
C 46 ; WX 250 ; N period ; B 41 -13 210 156 ;
C 47 ; WX 278 ; N slash ; B -24 -19 302 691 ;
C 48 ; WX 500 ; N zero ; B 24 -13 476 688 ;
C 49 ; WX 500 ; N one ; B 65 0 442 688 ;
C 50 ; WX 500 ; N two ; B 17 0 478 688 ;
C 51 ; WX 500 ; N three ; B 16 -14 468 688 ;
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C 55 ; WX 500 ; N seven ; B 17 0 477 676 ;
C 56 ; WX 500 ; N eight ; B 28 -13 472 688 ;
C 57 ; WX 500 ; N nine ; B 26 -13 473 688 ;
C 58 ; WX 333 ; N colon ; B 82 -13 251 472 ;
C 59 ; WX 333 ; N semicolon ; B 82 -180 266 472 ;
C 60 ; WX 570 ; N less ; B 31 -8 539 514 ;
C 61 ; WX 570 ; N equal ; B 33 107 537 399 ;
C 62 ; WX 570 ; N greater ; B 31 -8 539 514 ;
C 63 ; WX 500 ; N question ; B 57 -13 445 689 ;
C 64 ; WX 930 ; N at ; B 108 -19 822 691 ;
C 65 ; WX 722 ; N A ; B 9 0 689 690 ;
C 66 ; WX 667 ; N B ; B 16 0 619 676 ;
C 67 ; WX 722 ; N C ; B 49 -19 687 691 ;
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C 71 ; WX 778 ; N G ; B 37 -19 755 691 ;
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C 74 ; WX 500 ; N J ; B 3 -96 479 676 ;
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C 83 ; WX 556 ; N S ; B 35 -19 513 692 ;
C 84 ; WX 667 ; N T ; B 31 0 636 676 ;
C 85 ; WX 722 ; N U ; B 16 -19 701 676 ;
C 86 ; WX 722 ; N V ; B 16 -18 701 676 ;
C 87 ; WX 1000 ; N W ; B 19 -15 981 676 ;
C 88 ; WX 722 ; N X ; B 16 0 699 676 ;
C 89 ; WX 722 ; N Y ; B 15 0 699 676 ;
C 90 ; WX 667 ; N Z ; B 28 0 634 676 ;

C 91 ; WX 333 ; N bracketleft ; B 67 -149 301 678 ;
C 92 ; WX 278 ; N backslash ; B -25 -19 303 691 ;
C 93 ; WX 333 ; N bracketright ; B 32 -149 266 678 ;
C 94 ; WX 581 ; N asciicircum ; B 73 311 509 676 ;
C 95 ; WX 500 ; N underscore ; B 0 -125 500 -75 ;
C 96 ; WX 333 ; N quoteleft ; B 70 356 254 691 ;
C 97 ; WX 500 ; N a ; B 25 -14 488 473 ;
C 98 ; WX 556 ; N b ; B 17 -14 521 676 ;
C 99 ; WX 444 ; N c ; B 25 -14 430 473 ;
C 100 ; WX 556 ; N d ; B 25 -14 534 676 ;
C 101 ; WX 444 ; N e ; B 25 -14 426 473 ;
C 102 ; WX 333 ; N f ; B 14 0 389 691 ; L i f i ; L l f l ;
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C 107 ; WX 556 ; N k ; B 22 0 543 676 ;
C 108 ; WX 278 ; N l ; B 16 0 255 676 ;
C 109 ; WX 833 ; N m ; B 16 0 814 473 ;
C 110 ; WX 556 ; N n ; B 21 0 539 473 ;
C 111 ; WX 500 ; N o ; B 25 -14 476 473 ;
C 112 ; WX 556 ; N p ; B 19 -205 524 473 ;
C 113 ; WX 556 ; N q ; B 34 -205 536 473 ;
C 114 ; WX 444 ; N r ; B 29 0 434 473 ;
C 115 ; WX 389 ; N s ; B 25 -14 361 473 ;
C 116 ; WX 333 ; N t ; B 20 -12 332 630 ;
C 117 ; WX 556 ; N u ; B 16 -14 537 461 ;
C 118 ; WX 500 ; N v ; B 21 -14 485 461 ;
C 119 ; WX 722 ; N w ; B 23 -14 707 461 ;
C 120 ; WX 500 ; N x ; B 12 0 484 461 ;
C 121 ; WX 500 ; N y ; B 16 -205 480 461 ;
C 122 ; WX 444 ; N z ; B 21 0 420 461 ;
C 123 ; WX 394 ; N braceleft ; B 22 -175 340 698 ;
C 124 ; WX 220 ; N bar ; B 66 -218 154 782 ;
C 125 ; WX 394 ; N braceright ; B 54 -175 372 698 ;
C 126 ; WX 520 ; N asciitilde ; B 29 173 491 333 ;
C 161 ; WX 333 ; N exclamdown ; B 82 -203 252 501 ;
C 162 ; WX 500 ; N cent ; B 53 -140 458 588 ;
C 163 ; WX 500 ; N sterling ; B 21 -14 477 684 ;
C 164 ; WX 167 ; N fraction ; B -168 -12 329 688 ;
C 165 ; WX 500 ; N yen ; B -64 0 547 676 ;
C 166 ; WX 500 ; N florin ; B 0 -155 498 706 ;
C 167 ; WX 500 ; N section ; B 57 -132 443 691 ;
C 168 ; WX 500 ; N currency ; B -26 61 526 613 ;
C 169 ; WX 278 ; N quotesingle ; B 75 404 204 691 ;
C 170 ; WX 500 ; N quotedblleft ; B 32 356 486 691 ;
C 171 ; WX 500 ; N guillemotleft ; B 23 36 473 415 ;
C 172 ; WX 333 ; N guilsinglleft ; B 51 36 305 415 ;

C 173 ; WX 333 ; N guilsinglright ; B 28 36 282 415 ;
C 174 ; WX 556 ; N fi ; B 14 0 536 691 ;
C 175 ; WX 556 ; N fl ; B 14 0 536 691 ;
C 177 ; WX 500 ; N endash ; B 0 181 500 271 ;
C 178 ; WX 500 ; N dagger ; B 47 -134 453 691 ;
C 179 ; WX 500 ; N daggerdbl ; B 45 -132 456 691 ;
C 180 ; WX 250 ; N periodcentered ; B 41 248 210 417 ;
C 182 ; WX 540 ; N paragraph ; B 0 -186 519 676 ;
C 183 ; WX 350 ; N bullet ; B 35 198 315 478 ;
C 184 ; WX 333 ; N quotesinglbase ; B 79 -180 263 155 ;
C 185 ; WX 500 ; N quotedblbase ; B 14 -180 468 155 ;
C 186 ; WX 500 ; N quotedblright ; B 14 356 468 691 ;
C 187 ; WX 500 ; N guillemotright ; B 27 36 477 415 ;
C 188 ; WX 1000 ; N ellipsis ; B 82 -13 917 156 ;
C 189 ; WX 1000 ; N perthousand ; B 7 -29 995 706 ;
C 191 ; WX 500 ; N questiondown ; B 55 -201 443 501 ;
C 193 ; WX 333 ; N grave ; B 8 528 246 713 ;
C 194 ; WX 333 ; N acute ; B 86 528 324 713 ;
C 195 ; WX 333 ; N circumflex ; B -2 528 335 704 ;
C 196 ; WX 333 ; N tilde ; B -16 547 349 674 ;
C 197 ; WX 333 ; N macron ; B 1 565 331 637 ;
C 198 ; WX 333 ; N breve ; B 15 528 318 691 ;
C 199 ; WX 333 ; N dotaccent ; B 103 536 258 691 ;
C 200 ; WX 333 ; N dieresis ; B -2 537 335 667 ;
C 202 ; WX 333 ; N ring ; B 60 527 273 740 ;
C 203 ; WX 333 ; N cedilla ; B 68 -218 294 0 ;
C 205 ; WX 333 ; N hungarumlaut ; B -13 528 425 713 ;
C 206 ; WX 333 ; N ogonek ; B 90 -193 319 24 ;
C 207 ; WX 333 ; N caron ; B -2 528 335 704 ;
C 208 ; WX 1000 ; N emdash ; B 0 181 1000 271 ;
C 225 ; WX 1000 ; N AE ; B 4 0 951 676 ;
C 227 ; WX 300 ; N ordfeminine ; B -1 397 301 688 ;
C 232 ; WX 667 ; N Lslash ; B 19 0 638 676 ;
C 233 ; WX 778 ; N Oslash ; B 35 -74 743 737 ;
C 234 ; WX 1000 ; N OE ; B 22 -5 981 684 ;
C 235 ; WX 330 ; N ordmasculine ; B 18 397 312 688 ;
C 241 ; WX 722 ; N ae ; B 33 -14 693 473 ;
C 245 ; WX 278 ; N dotlessi ; B 16 0 255 461 ;
C 248 ; WX 278 ; N lslash ; B -22 0 303 676 ;
C 249 ; WX 500 ; N oslash ; B 25 -92 476 549 ;
C 250 ; WX 722 ; N oe ; B 22 -14 696 473 ;
C 251 ; WX 556 ; N germandbls ; B 19 -12 517 691 ;
C -1 ; WX 389 ; N Idieresis ; B 20 0 370 877 ;
C -1 ; WX 444 ; N eacute ; B 25 -14 426 713 ;
C -1 ; WX 500 ; N abreve ; B 25 -14 488 691 ;
C -1 ; WX 556 ; N uhungarumlaut ; B 16 -14 557 713 ;
C -1 ; WX 444 ; N ecaron ; B 25 -14 426 704 ;
C -1 ; WX 722 ; N Ydieresis ; B 15 0 699 877 ;

C -1 ; WX 570 ; N divide ; B 33 -31 537 537 ;
C -1 ; WX 722 ; N Yacute ; B 15 0 699 923 ;
C -1 ; WX 722 ; N Acircumflex ; B 9 0 689 914 ;
C -1 ; WX 500 ; N aacute ; B 25 -14 488 713 ;
C -1 ; WX 722 ; N Ucircumflex ; B 16 -19 701 914 ;
C -1 ; WX 500 ; N yacute ; B 16 -205 480 713 ;
C -1 ; WX 389 ; N scommaaccent ; B 25 -218 361 473 ;
C -1 ; WX 444 ; N ecircumflex ; B 25 -14 426 704 ;
C -1 ; WX 722 ; N Uring ; B 16 -19 701 935 ;
C -1 ; WX 722 ; N Udieresis ; B 16 -19 701 877 ;
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C -1 ; WX 722 ; N Uacute ; B 16 -19 701 923 ;
C -1 ; WX 556 ; N uogonek ; B 16 -193 539 461 ;
C -1 ; WX 667 ; N Edieresis ; B 16 0 641 877 ;
C -1 ; WX 722 ; N Dcroat ; B 6 0 690 676 ;
C -1 ; WX 250 ; N commaaccent ; B 47 -218 203 -50 ;
C -1 ; WX 747 ; N copyright ; B 26 -19 721 691 ;
C -1 ; WX 667 ; N Emacron ; B 16 0 641 847 ;
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C -1 ; WX 500 ; N aring ; B 25 -14 488 740 ;
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C -1 ; WX 389 ; N scaron ; B 25 -14 363 704 ;
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C -1 ; WX 494 ; N lozenge ; B 10 0 484 745 ;
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C -1 ; WX 722 ; N Amacron ; B 9 0 689 847 ;
C -1 ; WX 444 ; N rcaron ; B 29 0 434 704 ;
C -1 ; WX 444 ; N ccedilla ; B 25 -218 430 473 ;
C -1 ; WX 667 ; N Zdotaccent ; B 28 0 634 901 ;
C -1 ; WX 611 ; N Thorn ; B 16 0 600 676 ;
C -1 ; WX 778 ; N Omacron ; B 35 -19 743 847 ;
C -1 ; WX 722 ; N Racute ; B 26 0 715 923 ;
C -1 ; WX 556 ; N Sacute ; B 35 -19 513 923 ;
C -1 ; WX 672 ; N dcaron ; B 25 -14 681 682 ;
C -1 ; WX 722 ; N Umacron ; B 16 -19 701 847 ;
C -1 ; WX 556 ; N uring ; B 16 -14 537 740 ;
C -1 ; WX 300 ; N threesuperior ; B 3 268 297 688 ;
C -1 ; WX 778 ; N Ograve ; B 35 -19 743 923 ;

C -1 ; WX 722 ; N Agrave ; B 9 0 689 923 ;
C -1 ; WX 722 ; N Abreve ; B 9 0 689 901 ;
C -1 ; WX 570 ; N multiply ; B 48 16 522 490 ;
C -1 ; WX 556 ; N uacute ; B 16 -14 537 713 ;
C -1 ; WX 667 ; N Tcaron ; B 31 0 636 914 ;
C -1 ; WX 494 ; N partialdiff ; B 11 -21 494 750 ;
C -1 ; WX 500 ; N ydieresis ; B 16 -205 480 667 ;
C -1 ; WX 722 ; N Nacute ; B 16 -18 701 923 ;
C -1 ; WX 278 ; N icircumflex ; B -37 0 300 704 ;
C -1 ; WX 667 ; N Ecircumflex ; B 16 0 641 914 ;
C -1 ; WX 500 ; N adieresis ; B 25 -14 488 667 ;
C -1 ; WX 444 ; N edieresis ; B 25 -14 426 667 ;
C -1 ; WX 444 ; N cacute ; B 25 -14 430 713 ;
C -1 ; WX 556 ; N nacute ; B 21 0 539 713 ;
C -1 ; WX 556 ; N umacron ; B 16 -14 537 637 ;
C -1 ; WX 722 ; N Ncaron ; B 16 -18 701 914 ;
C -1 ; WX 389 ; N Iacute ; B 20 0 370 923 ;
C -1 ; WX 570 ; N plusminus ; B 33 0 537 506 ;
C -1 ; WX 220 ; N brokenbar ; B 66 -143 154 707 ;
C -1 ; WX 747 ; N registered ; B 26 -19 721 691 ;
C -1 ; WX 778 ; N Gbreve ; B 37 -19 755 901 ;
C -1 ; WX 389 ; N Idotaccent ; B 20 0 370 901 ;
C -1 ; WX 600 ; N summation ; B 14 -10 585 706 ;
C -1 ; WX 667 ; N Egrave ; B 16 0 641 923 ;
C -1 ; WX 444 ; N racute ; B 29 0 434 713 ;
C -1 ; WX 500 ; N omacron ; B 25 -14 476 637 ;
C -1 ; WX 667 ; N Zacute ; B 28 0 634 923 ;
C -1 ; WX 667 ; N Zcaron ; B 28 0 634 914 ;
C -1 ; WX 549 ; N greaterequal ; B 26 0 523 704 ;
C -1 ; WX 722 ; N Eth ; B 6 0 690 676 ;
C -1 ; WX 722 ; N Ccedilla ; B 49 -218 687 691 ;
C -1 ; WX 278 ; N lcommaaccent ; B 16 -218 255 676 ;
C -1 ; WX 416 ; N tcaron ; B 20 -12 425 815 ;
C -1 ; WX 444 ; N eogonek ; B 25 -193 426 473 ;
C -1 ; WX 722 ; N Uogonek ; B 16 -193 701 676 ;
C -1 ; WX 722 ; N Aacute ; B 9 0 689 923 ;
C -1 ; WX 722 ; N Adieresis ; B 9 0 689 877 ;
C -1 ; WX 444 ; N egrave ; B 25 -14 426 713 ;
C -1 ; WX 444 ; N zacute ; B 21 0 420 713 ;
C -1 ; WX 278 ; N iogonek ; B 16 -193 274 691 ;
C -1 ; WX 778 ; N Oacute ; B 35 -19 743 923 ;
C -1 ; WX 500 ; N oacute ; B 25 -14 476 713 ;
C -1 ; WX 500 ; N amacron ; B 25 -14 488 637 ;
C -1 ; WX 389 ; N sacute ; B 25 -14 361 713 ;
C -1 ; WX 278 ; N idieresis ; B -37 0 300 667 ;
C -1 ; WX 778 ; N Ocircumflex ; B 35 -19 743 914 ;
C -1 ; WX 722 ; N Ugrave ; B 16 -19 701 923 ;
C -1 ; WX 612 ; N Delta ; B 6 0 608 688 ;

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C -1 ; WX 300 ; N twosuperior ; B 0 275 300 688 ;
C -1 ; WX 778 ; N Odieresis ; B 35 -19 743 877 ;
C -1 ; WX 556 ; N mu ; B 33 -206 536 461 ;
C -1 ; WX 278 ; N igrave ; B -27 0 255 713 ;
C -1 ; WX 500 ; N ohungarumlaut ; B 25 -14 529 713 ;
C -1 ; WX 667 ; N Eogonek ; B 16 -193 644 676 ;
C -1 ; WX 556 ; N dcroat ; B 25 -14 534 676 ;
C -1 ; WX 750 ; N threequarters ; B 23 -12 733 688 ;
C -1 ; WX 556 ; N Scedilla ; B 35 -218 513 692 ;
C -1 ; WX 394 ; N lcaron ; B 16 0 412 682 ;
C -1 ; WX 778 ; N Kcommaaccent ; B 30 -218 769 676 ;
C -1 ; WX 667 ; N Lacute ; B 19 0 638 923 ;
C -1 ; WX 1000 ; N trademark ; B 24 271 977 676 ;
C -1 ; WX 444 ; N edotaccent ; B 25 -14 426 691 ;
C -1 ; WX 389 ; N Igrave ; B 20 0 370 923 ;
C -1 ; WX 389 ; N Imacron ; B 20 0 370 847 ;
C -1 ; WX 667 ; N Lcaron ; B 19 0 652 682 ;
C -1 ; WX 750 ; N onehalf ; B -7 -12 775 688 ;
C -1 ; WX 549 ; N lessequal ; B 29 0 526 704 ;
C -1 ; WX 500 ; N ocircumflex ; B 25 -14 476 704 ;
C -1 ; WX 556 ; N ntilde ; B 21 0 539 674 ;
C -1 ; WX 722 ; N Uhungarumlaut ; B 16 -19 701 923 ;
C -1 ; WX 667 ; N Eacute ; B 16 0 641 923 ;
C -1 ; WX 444 ; N emacron ; B 25 -14 426 637 ;
C -1 ; WX 500 ; N gbreve ; B 28 -206 483 691 ;
C -1 ; WX 750 ; N onequarter ; B 28 -12 743 688 ;
C -1 ; WX 556 ; N Scaron ; B 35 -19 513 914 ;
C -1 ; WX 556 ; N Scommaaccent ; B 35 -218 513 692 ;
C -1 ; WX 778 ; N Ohungarumlaut ; B 35 -19 743 923 ;
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C -1 ; WX 500 ; N ograve ; B 25 -14 476 713 ;
C -1 ; WX 722 ; N Ccaron ; B 49 -19 687 914 ;
C -1 ; WX 556 ; N ugrave ; B 16 -14 537 713 ;
C -1 ; WX 549 ; N radical ; B 10 -46 512 850 ;
C -1 ; WX 722 ; N Dcaron ; B 14 0 690 914 ;
C -1 ; WX 444 ; N rcommaaccent ; B 29 -218 434 473 ;
C -1 ; WX 722 ; N Ntilde ; B 16 -18 701 884 ;
C -1 ; WX 500 ; N otilde ; B 25 -14 476 674 ;
C -1 ; WX 722 ; N Rcommaaccent ; B 26 -218 715 676 ;
C -1 ; WX 667 ; N Lcommaaccent ; B 19 -218 638 676 ;
C -1 ; WX 722 ; N Atilde ; B 9 0 689 884 ;
C -1 ; WX 722 ; N Aogonek ; B 9 -193 699 690 ;
C -1 ; WX 722 ; N Aring ; B 9 0 689 935 ;
C -1 ; WX 778 ; N Otilde ; B 35 -19 743 884 ;
C -1 ; WX 444 ; N zdotaccent ; B 21 0 420 691 ;
C -1 ; WX 667 ; N Ecaron ; B 16 0 641 914 ;
C -1 ; WX 389 ; N Iogonek ; B 20 -193 370 676 ;

C -1 ; WX 556 ; N kcommaaccent ; B 22 -218 543 676 ;
C -1 ; WX 570 ; N minus ; B 33 209 537 297 ;
C -1 ; WX 389 ; N Icircumflex ; B 20 0 370 914 ;
C -1 ; WX 556 ; N ncaron ; B 21 0 539 704 ;
C -1 ; WX 333 ; N tcommaaccent ; B 20 -218 332 630 ;
C -1 ; WX 570 ; N logicalnot ; B 33 108 537 399 ;
C -1 ; WX 500 ; N odieresis ; B 25 -14 476 667 ;
C -1 ; WX 556 ; N udieresis ; B 16 -14 537 667 ;
C -1 ; WX 549 ; N notequal ; B 15 -49 540 570 ;
C -1 ; WX 500 ; N gcommaaccent ; B 28 -206 483 829 ;
C -1 ; WX 500 ; N eth ; B 25 -14 476 691 ;
C -1 ; WX 444 ; N zcaron ; B 21 0 420 704 ;
C -1 ; WX 556 ; N ncommaaccent ; B 21 -218 539 473 ;
C -1 ; WX 300 ; N onesuperior ; B 28 275 273 688 ;
C -1 ; WX 278 ; N imacron ; B -8 0 272 637 ;
C -1 ; WX 500 ; N Euro ; B 0 0 0 0 ;

EndCharMetrics

StartKernData

StartKernPairs 2242

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KPX A Ccedilla -55

KPX A G -55

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KPX A Gcommaaccent -55

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KPX A Oacute -45

KPX A Ocircumflex -45

KPX A Odieresis -45

KPX A Ograve -45

KPX A Ohungarumlaut -45

KPX A Omacron -45

KPX A Oslash -45

KPX A Otilde -45

KPX A Q -45

KPX A T -95

KPX A Tcaron -95

KPX A Tcommaaccent -95

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KPX A Uacute -50

KPX A Ucircumflex -50

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KPX r oslash -18
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KPX r period -100
KPX r q -18
KPX r v -10
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KPX racute ccedilla -18
KPX racute comma -92
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EndKernData
EndFontMetrics

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StartFontMetrics 4.1

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Comment Creation Date: Thu May 1 17:27:09 1997

Comment UniqueID 43050

Comment VMusage 39754 50779

FontName Courier

FullName Courier

FamilyName Courier

Weight Medium

ItalicAngle 0

IsFixedPitch true

CharacterSet ExtendedRoman

FontBBox -23 -250 715 805

UnderlinePosition -100

UnderlineThickness 50

Version 003.000

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EncodingScheme AdobeStandardEncoding

CapHeight 562

XHeight 426

Ascender 629

Descender -157

StdHW 51

StdVW 51

StartCharMetrics 315

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C 33 ; WX 600 ; N exclam ; B 236 -15 364 572 ;

C 34 ; WX 600 ; N quotedbl ; B 187 328 413 562 ;

C 35 ; WX 600 ; N numbersign ; B 93 -32 507 639 ;

C 36 ; WX 600 ; N dollar ; B 105 -126 496 662 ;

C 37 ; WX 600 ; N percent ; B 81 -15 518 622 ;

C 38 ; WX 600 ; N ampersand ; B 63 -15 538 543 ;

C 39 ; WX 600 ; N quoteright ; B 213 328 376 562 ;

C 40 ; WX 600 ; N parenleft ; B 269 -108 440 622 ;

C 41 ; WX 600 ; N parenright ; B 160 -108 331 622 ;

C 42 ; WX 600 ; N asterisk ; B 116 257 484 607 ;
C 43 ; WX 600 ; N plus ; B 80 44 520 470 ;
C 44 ; WX 600 ; N comma ; B 181 -112 344 122 ;
C 45 ; WX 600 ; N hyphen ; B 103 231 497 285 ;
C 46 ; WX 600 ; N period ; B 229 -15 371 109 ;
C 47 ; WX 600 ; N slash ; B 125 -80 475 629 ;
C 48 ; WX 600 ; N zero ; B 106 -15 494 622 ;
C 49 ; WX 600 ; N one ; B 96 0 505 622 ;
C 50 ; WX 600 ; N two ; B 70 0 471 622 ;
C 51 ; WX 600 ; N three ; B 75 -15 466 622 ;
C 52 ; WX 600 ; N four ; B 78 0 500 622 ;
C 53 ; WX 600 ; N five ; B 92 -15 497 607 ;
C 54 ; WX 600 ; N six ; B 111 -15 497 622 ;
C 55 ; WX 600 ; N seven ; B 82 0 483 607 ;
C 56 ; WX 600 ; N eight ; B 102 -15 498 622 ;
C 57 ; WX 600 ; N nine ; B 96 -15 489 622 ;
C 58 ; WX 600 ; N colon ; B 229 -15 371 385 ;
C 59 ; WX 600 ; N semicolon ; B 181 -112 371 385 ;
C 60 ; WX 600 ; N less ; B 41 42 519 472 ;
C 61 ; WX 600 ; N equal ; B 80 138 520 376 ;
C 62 ; WX 600 ; N greater ; B 66 42 544 472 ;
C 63 ; WX 600 ; N question ; B 129 -15 492 572 ;
C 64 ; WX 600 ; N at ; B 77 -15 533 622 ;
C 65 ; WX 600 ; N A ; B 3 0 597 562 ;
C 66 ; WX 600 ; N B ; B 43 0 559 562 ;
C 67 ; WX 600 ; N C ; B 41 -18 540 580 ;
C 68 ; WX 600 ; N D ; B 43 0 574 562 ;
C 69 ; WX 600 ; N E ; B 53 0 550 562 ;
C 70 ; WX 600 ; N F ; B 53 0 545 562 ;
C 71 ; WX 600 ; N G ; B 31 -18 575 580 ;
C 72 ; WX 600 ; N H ; B 32 0 568 562 ;
C 73 ; WX 600 ; N I ; B 96 0 504 562 ;
C 74 ; WX 600 ; N J ; B 34 -18 566 562 ;
C 75 ; WX 600 ; N K ; B 38 0 582 562 ;
C 76 ; WX 600 ; N L ; B 47 0 554 562 ;
C 77 ; WX 600 ; N M ; B 4 0 596 562 ;
C 78 ; WX 600 ; N N ; B 7 -13 593 562 ;
C 79 ; WX 600 ; N O ; B 43 -18 557 580 ;
C 80 ; WX 600 ; N P ; B 79 0 558 562 ;
C 81 ; WX 600 ; N Q ; B 43 -138 557 580 ;
C 82 ; WX 600 ; N R ; B 38 0 588 562 ;
C 83 ; WX 600 ; N S ; B 72 -20 529 580 ;
C 84 ; WX 600 ; N T ; B 38 0 563 562 ;
C 85 ; WX 600 ; N U ; B 17 -18 583 562 ;
C 86 ; WX 600 ; N V ; B -4 -13 604 562 ;
C 87 ; WX 600 ; N W ; B -3 -13 603 562 ;
C 88 ; WX 600 ; N X ; B 23 0 577 562 ;
C 89 ; WX 600 ; N Y ; B 24 0 576 562 ;

C 90 ; WX 600 ; N Z ; B 86 0 514 562 ;
C 91 ; WX 600 ; N bracketleft ; B 269 -108 442 622 ;
C 92 ; WX 600 ; N backslash ; B 118 -80 482 629 ;
C 93 ; WX 600 ; N bracketright ; B 158 -108 331 622 ;
C 94 ; WX 600 ; N asciicircum ; B 94 354 506 622 ;
C 95 ; WX 600 ; N underscore ; B 0 -125 600 -75 ;
C 96 ; WX 600 ; N quoteleft ; B 224 328 387 562 ;
C 97 ; WX 600 ; N a ; B 53 -15 559 441 ;
C 98 ; WX 600 ; N b ; B 14 -15 575 629 ;
C 99 ; WX 600 ; N c ; B 66 -15 529 441 ;
C 100 ; WX 600 ; N d ; B 45 -15 591 629 ;
C 101 ; WX 600 ; N e ; B 66 -15 548 441 ;
C 102 ; WX 600 ; N f ; B 114 0 531 629 ; L i f i ; L l f l ;
C 103 ; WX 600 ; N g ; B 45 -157 566 441 ;
C 104 ; WX 600 ; N h ; B 18 0 582 629 ;
C 105 ; WX 600 ; N i ; B 95 0 505 657 ;
C 106 ; WX 600 ; N j ; B 82 -157 410 657 ;
C 107 ; WX 600 ; N k ; B 43 0 580 629 ;
C 108 ; WX 600 ; N l ; B 95 0 505 629 ;
C 109 ; WX 600 ; N m ; B -5 0 605 441 ;
C 110 ; WX 600 ; N n ; B 26 0 575 441 ;
C 111 ; WX 600 ; N o ; B 62 -15 538 441 ;
C 112 ; WX 600 ; N p ; B 9 -157 555 441 ;
C 113 ; WX 600 ; N q ; B 45 -157 591 441 ;
C 114 ; WX 600 ; N r ; B 60 0 559 441 ;
C 115 ; WX 600 ; N s ; B 80 -15 513 441 ;
C 116 ; WX 600 ; N t ; B 87 -15 530 561 ;
C 117 ; WX 600 ; N u ; B 21 -15 562 426 ;
C 118 ; WX 600 ; N v ; B 10 -10 590 426 ;
C 119 ; WX 600 ; N w ; B -4 -10 604 426 ;
C 120 ; WX 600 ; N x ; B 20 0 580 426 ;
C 121 ; WX 600 ; N y ; B 7 -157 592 426 ;
C 122 ; WX 600 ; N z ; B 99 0 502 426 ;
C 123 ; WX 600 ; N braceleft ; B 182 -108 437 622 ;
C 124 ; WX 600 ; N bar ; B 275 -250 326 750 ;
C 125 ; WX 600 ; N braceright ; B 163 -108 418 622 ;
C 126 ; WX 600 ; N asciitilde ; B 63 197 540 320 ;
C 161 ; WX 600 ; N exclamdown ; B 236 -157 364 430 ;
C 162 ; WX 600 ; N cent ; B 96 -49 500 614 ;
C 163 ; WX 600 ; N sterling ; B 84 -21 521 611 ;
C 164 ; WX 600 ; N fraction ; B 92 -57 509 665 ;
C 165 ; WX 600 ; N yen ; B 26 0 574 562 ;
C 166 ; WX 600 ; N florin ; B 4 -143 539 622 ;
C 167 ; WX 600 ; N section ; B 113 -78 488 580 ;
C 168 ; WX 600 ; N currency ; B 73 58 527 506 ;
C 169 ; WX 600 ; N quotesingle ; B 259 328 341 562 ;
C 170 ; WX 600 ; N quotedblleft ; B 143 328 471 562 ;
C 171 ; WX 600 ; N guillemotleft ; B 37 70 563 446 ;

C 172 ; WX 600 ; N guilsinglleft ; B 149 70 451 446 ;
C 173 ; WX 600 ; N guilsinglright ; B 149 70 451 446 ;
C 174 ; WX 600 ; N fi ; B 3 0 597 629 ;
C 175 ; WX 600 ; N fl ; B 3 0 597 629 ;
C 177 ; WX 600 ; N endash ; B 75 231 525 285 ;
C 178 ; WX 600 ; N dagger ; B 141 -78 459 580 ;
C 179 ; WX 600 ; N daggerdbl ; B 141 -78 459 580 ;
C 180 ; WX 600 ; N periodcentered ; B 222 189 378 327 ;
C 182 ; WX 600 ; N paragraph ; B 50 -78 511 562 ;
C 183 ; WX 600 ; N bullet ; B 172 130 428 383 ;
C 184 ; WX 600 ; N quotesinglbase ; B 213 -134 376 100 ;
C 185 ; WX 600 ; N quotedblbase ; B 143 -134 457 100 ;
C 186 ; WX 600 ; N quotedblright ; B 143 328 457 562 ;
C 187 ; WX 600 ; N guillemotright ; B 37 70 563 446 ;
C 188 ; WX 600 ; N ellipsis ; B 37 -15 563 111 ;
C 189 ; WX 600 ; N perthousand ; B 3 -15 600 622 ;
C 191 ; WX 600 ; N questiondown ; B 108 -157 471 430 ;
C 193 ; WX 600 ; N grave ; B 151 497 378 672 ;
C 194 ; WX 600 ; N acute ; B 242 497 469 672 ;
C 195 ; WX 600 ; N circumflex ; B 124 477 476 654 ;
C 196 ; WX 600 ; N tilde ; B 105 489 503 606 ;
C 197 ; WX 600 ; N macron ; B 120 525 480 565 ;
C 198 ; WX 600 ; N breve ; B 153 501 447 609 ;
C 199 ; WX 600 ; N dotaccent ; B 249 537 352 640 ;
C 200 ; WX 600 ; N dieresis ; B 148 537 453 640 ;
C 202 ; WX 600 ; N ring ; B 218 463 382 627 ;
C 203 ; WX 600 ; N cedilla ; B 224 -151 362 10 ;
C 205 ; WX 600 ; N hungarumlaut ; B 133 497 540 672 ;
C 206 ; WX 600 ; N ogonek ; B 211 -172 407 4 ;
C 207 ; WX 600 ; N caron ; B 124 492 476 669 ;
C 208 ; WX 600 ; N emdash ; B 0 231 600 285 ;
C 225 ; WX 600 ; N AE ; B 3 0 550 562 ;
C 227 ; WX 600 ; N ordfeminine ; B 156 249 442 580 ;
C 232 ; WX 600 ; N Lslash ; B 47 0 554 562 ;
C 233 ; WX 600 ; N Oslash ; B 43 -80 557 629 ;
C 234 ; WX 600 ; N OE ; B 7 0 567 562 ;
C 235 ; WX 600 ; N ordmasculine ; B 157 249 443 580 ;
C 241 ; WX 600 ; N ae ; B 19 -15 570 441 ;
C 245 ; WX 600 ; N dotlessi ; B 95 0 505 426 ;
C 248 ; WX 600 ; N lslash ; B 95 0 505 629 ;
C 249 ; WX 600 ; N oslash ; B 62 -80 538 506 ;
C 250 ; WX 600 ; N oe ; B 19 -15 559 441 ;
C 251 ; WX 600 ; N germandbls ; B 48 -15 588 629 ;
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C -1 ; WX 600 ; N eacute ; B 66 -15 548 672 ;
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C -1 ; WX 600 ; N Ocircumflex ; B 43 -18 557 787 ;
C -1 ; WX 600 ; N Ugrave ; B 17 -18 583 805 ;

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C -1 ; WX 600 ; N twosuperior ; B 177 249 424 622 ;
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C -1 ; WX 600 ; N mu ; B 21 -157 562 426 ;
C -1 ; WX 600 ; N igrave ; B 95 0 505 672 ;
C -1 ; WX 600 ; N ohungarumlaut ; B 62 -15 580 672 ;
C -1 ; WX 600 ; N Eogonek ; B 53 -172 561 562 ;
C -1 ; WX 600 ; N dcroat ; B 45 -15 591 629 ;
C -1 ; WX 600 ; N threequarters ; B 8 -56 593 666 ;
C -1 ; WX 600 ; N Scedilla ; B 72 -151 529 580 ;
C -1 ; WX 600 ; N lcaron ; B 95 0 533 629 ;
C -1 ; WX 600 ; N Kcommaaccent ; B 38 -250 582 562 ;
C -1 ; WX 600 ; N Lacute ; B 47 0 554 805 ;
C -1 ; WX 600 ; N trademark ; B -23 263 623 562 ;
C -1 ; WX 600 ; N edotaccent ; B 66 -15 548 620 ;
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C -1 ; WX 600 ; N Lcaron ; B 47 0 554 562 ;
C -1 ; WX 600 ; N onehalf ; B 0 -57 611 665 ;
C -1 ; WX 600 ; N lessequal ; B 98 0 502 710 ;
C -1 ; WX 600 ; N ocircumflex ; B 62 -15 538 654 ;
C -1 ; WX 600 ; N ntilde ; B 26 0 575 606 ;
C -1 ; WX 600 ; N Uhungarumlaut ; B 17 -18 590 805 ;
C -1 ; WX 600 ; N Eacute ; B 53 0 550 805 ;
C -1 ; WX 600 ; N emacron ; B 66 -15 548 565 ;
C -1 ; WX 600 ; N gbreve ; B 45 -157 566 609 ;
C -1 ; WX 600 ; N onequarter ; B 0 -57 600 665 ;
C -1 ; WX 600 ; N Scaron ; B 72 -20 529 802 ;
C -1 ; WX 600 ; N Scommaaccent ; B 72 -250 529 580 ;
C -1 ; WX 600 ; N Ohungarumlaut ; B 43 -18 580 805 ;
C -1 ; WX 600 ; N degree ; B 123 269 477 622 ;
C -1 ; WX 600 ; N ograve ; B 62 -15 538 672 ;
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C -1 ; WX 600 ; N ugrave ; B 21 -15 562 672 ;
C -1 ; WX 600 ; N radical ; B 3 -15 597 792 ;
C -1 ; WX 600 ; N Dcaron ; B 43 0 574 802 ;
C -1 ; WX 600 ; N rcommaaccent ; B 60 -250 559 441 ;
C -1 ; WX 600 ; N Ntilde ; B 7 -13 593 729 ;
C -1 ; WX 600 ; N otilde ; B 62 -15 538 606 ;
C -1 ; WX 600 ; N Rcommaaccent ; B 38 -250 588 562 ;
C -1 ; WX 600 ; N Lcommaaccent ; B 47 -250 554 562 ;
C -1 ; WX 600 ; N Atilde ; B 3 0 597 729 ;
C -1 ; WX 600 ; N Aogonek ; B 3 -172 608 562 ;
C -1 ; WX 600 ; N Aring ; B 3 0 597 750 ;
C -1 ; WX 600 ; N Otilde ; B 43 -18 557 729 ;
C -1 ; WX 600 ; N zdotaccent ; B 99 0 502 620 ;
C -1 ; WX 600 ; N Ecaron ; B 53 0 550 802 ;

C -1 ; WX 600 ; N Iogonek ; B 96 -172 504 562 ;
C -1 ; WX 600 ; N kcommaaccent ; B 43 -250 580 629 ;
C -1 ; WX 600 ; N minus ; B 80 232 520 283 ;
C -1 ; WX 600 ; N Icircumflex ; B 96 0 504 787 ;
C -1 ; WX 600 ; N ncaron ; B 26 0 575 669 ;
C -1 ; WX 600 ; N tcommaaccent ; B 87 -250 530 561 ;
C -1 ; WX 600 ; N logicalnot ; B 87 108 513 369 ;
C -1 ; WX 600 ; N odieresis ; B 62 -15 538 620 ;
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C -1 ; WX 600 ; N notequal ; B 15 -16 540 529 ;
C -1 ; WX 600 ; N gcommaaccent ; B 45 -157 566 708 ;
C -1 ; WX 600 ; N eth ; B 62 -15 538 629 ;
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C -1 ; WX 600 ; N ncommaaccent ; B 26 -250 575 441 ;
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Comment UniqueID 43054

Comment VMusage 37069 48094

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FullName Helvetica

FamilyName Helvetica

Weight Medium

ItalicAngle 0

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CharacterSet ExtendedRoman

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UnderlinePosition -100

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Version 002.000

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EncodingScheme AdobeStandardEncoding

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XHeight 523

Ascender 718

Descender -207

StdHW 76

StdVW 88

StartCharMetrics 315

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C 34 ; WX 355 ; N quotedbl ; B 70 463 285 718 ;
C 35 ; WX 556 ; N numbersign ; B 28 0 529 688 ;
C 36 ; WX 556 ; N dollar ; B 32 -115 520 775 ;
C 37 ; WX 889 ; N percent ; B 39 -19 850 703 ;
C 38 ; WX 667 ; N ampersand ; B 44 -15 645 718 ;
C 39 ; WX 222 ; N quoteright ; B 53 463 157 718 ;
C 40 ; WX 333 ; N parenleft ; B 68 -207 299 733 ;
C 41 ; WX 333 ; N parenright ; B 34 -207 265 733 ;
C 42 ; WX 389 ; N asterisk ; B 39 431 349 718 ;
C 43 ; WX 584 ; N plus ; B 39 0 545 505 ;
C 44 ; WX 278 ; N comma ; B 87 -147 191 106 ;
C 45 ; WX 333 ; N hyphen ; B 44 232 289 322 ;
C 46 ; WX 278 ; N period ; B 87 0 191 106 ;
C 47 ; WX 278 ; N slash ; B -17 -19 295 737 ;
C 48 ; WX 556 ; N zero ; B 37 -19 519 703 ;
C 49 ; WX 556 ; N one ; B 101 0 359 703 ;
C 50 ; WX 556 ; N two ; B 26 0 507 703 ;
C 51 ; WX 556 ; N three ; B 34 -19 522 703 ;
C 52 ; WX 556 ; N four ; B 25 0 523 703 ;
C 53 ; WX 556 ; N five ; B 32 -19 514 688 ;
C 54 ; WX 556 ; N six ; B 38 -19 518 703 ;
C 55 ; WX 556 ; N seven ; B 37 0 523 688 ;
C 56 ; WX 556 ; N eight ; B 38 -19 517 703 ;
C 57 ; WX 556 ; N nine ; B 42 -19 514 703 ;
C 58 ; WX 278 ; N colon ; B 87 0 191 516 ;
C 59 ; WX 278 ; N semicolon ; B 87 -147 191 516 ;
C 60 ; WX 584 ; N less ; B 48 11 536 495 ;
C 61 ; WX 584 ; N equal ; B 39 115 545 390 ;
C 62 ; WX 584 ; N greater ; B 48 11 536 495 ;
C 63 ; WX 556 ; N question ; B 56 0 492 727 ;
C 64 ; WX 1015 ; N at ; B 147 -19 868 737 ;
C 65 ; WX 667 ; N A ; B 14 0 654 718 ;
C 66 ; WX 667 ; N B ; B 74 0 627 718 ;
C 67 ; WX 722 ; N C ; B 44 -19 681 737 ;
C 68 ; WX 722 ; N D ; B 81 0 674 718 ;
C 69 ; WX 667 ; N E ; B 86 0 616 718 ;
C 70 ; WX 611 ; N F ; B 86 0 583 718 ;
C 71 ; WX 778 ; N G ; B 48 -19 704 737 ;
C 72 ; WX 722 ; N H ; B 77 0 646 718 ;
C 73 ; WX 278 ; N I ; B 91 0 188 718 ;
C 74 ; WX 500 ; N J ; B 17 -19 428 718 ;
C 75 ; WX 667 ; N K ; B 76 0 663 718 ;
C 76 ; WX 556 ; N L ; B 76 0 537 718 ;
C 77 ; WX 833 ; N M ; B 73 0 761 718 ;

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C 79 ; WX 778 ; N O ; B 39 -19 739 737 ;
C 80 ; WX 667 ; N P ; B 86 0 622 718 ;
C 81 ; WX 778 ; N Q ; B 39 -56 739 737 ;
C 82 ; WX 722 ; N R ; B 88 0 684 718 ;
C 83 ; WX 667 ; N S ; B 49 -19 620 737 ;
C 84 ; WX 611 ; N T ; B 14 0 597 718 ;
C 85 ; WX 722 ; N U ; B 79 -19 644 718 ;
C 86 ; WX 667 ; N V ; B 20 0 647 718 ;
C 87 ; WX 944 ; N W ; B 16 0 928 718 ;
C 88 ; WX 667 ; N X ; B 19 0 648 718 ;
C 89 ; WX 667 ; N Y ; B 14 0 653 718 ;
C 90 ; WX 611 ; N Z ; B 23 0 588 718 ;
C 91 ; WX 278 ; N bracketleft ; B 63 -196 250 722 ;
C 92 ; WX 278 ; N backslash ; B -17 -19 295 737 ;
C 93 ; WX 278 ; N bracketright ; B 28 -196 215 722 ;
C 94 ; WX 469 ; N asciicircum ; B -14 264 483 688 ;
C 95 ; WX 556 ; N underscore ; B 0 -125 556 -75 ;
C 96 ; WX 222 ; N quoteleft ; B 65 470 169 725 ;
C 97 ; WX 556 ; N a ; B 36 -15 530 538 ;
C 98 ; WX 556 ; N b ; B 58 -15 517 718 ;
C 99 ; WX 500 ; N c ; B 30 -15 477 538 ;
C 100 ; WX 556 ; N d ; B 35 -15 499 718 ;
C 101 ; WX 556 ; N e ; B 40 -15 516 538 ;
C 102 ; WX 278 ; N f ; B 14 0 262 728 ; L i fi ; L l fl ;
C 103 ; WX 556 ; N g ; B 40 -220 499 538 ;
C 104 ; WX 556 ; N h ; B 65 0 491 718 ;
C 105 ; WX 222 ; N i ; B 67 0 155 718 ;
C 106 ; WX 222 ; N j ; B -16 -210 155 718 ;
C 107 ; WX 500 ; N k ; B 67 0 501 718 ;
C 108 ; WX 222 ; N l ; B 67 0 155 718 ;
C 109 ; WX 833 ; N m ; B 65 0 769 538 ;
C 110 ; WX 556 ; N n ; B 65 0 491 538 ;
C 111 ; WX 556 ; N o ; B 35 -14 521 538 ;
C 112 ; WX 556 ; N p ; B 58 -207 517 538 ;
C 113 ; WX 556 ; N q ; B 35 -207 494 538 ;
C 114 ; WX 333 ; N r ; B 77 0 332 538 ;
C 115 ; WX 500 ; N s ; B 32 -15 464 538 ;
C 116 ; WX 278 ; N t ; B 14 -7 257 669 ;
C 117 ; WX 556 ; N u ; B 68 -15 489 523 ;
C 118 ; WX 500 ; N v ; B 8 0 492 523 ;
C 119 ; WX 722 ; N w ; B 14 0 709 523 ;
C 120 ; WX 500 ; N x ; B 11 0 490 523 ;
C 121 ; WX 500 ; N y ; B 11 -214 489 523 ;
C 122 ; WX 500 ; N z ; B 31 0 469 523 ;
C 123 ; WX 334 ; N braceleft ; B 42 -196 292 722 ;
C 124 ; WX 260 ; N bar ; B 94 -225 167 775 ;
C 125 ; WX 334 ; N braceright ; B 42 -196 292 722 ;

C 126 ; WX 584 ; N asciitilde ; B 61 180 523 326 ;
C 161 ; WX 333 ; N exclamdown ; B 118 -195 215 523 ;
C 162 ; WX 556 ; N cent ; B 51 -115 513 623 ;
C 163 ; WX 556 ; N sterling ; B 33 -16 539 718 ;
C 164 ; WX 167 ; N fraction ; B -166 -19 333 703 ;
C 165 ; WX 556 ; N yen ; B 3 0 553 688 ;
C 166 ; WX 556 ; N florin ; B -11 -207 501 737 ;
C 167 ; WX 556 ; N section ; B 43 -191 512 737 ;
C 168 ; WX 556 ; N currency ; B 28 99 528 603 ;
C 169 ; WX 191 ; N quotesingle ; B 59 463 132 718 ;
C 170 ; WX 333 ; N quotedblleft ; B 38 470 307 725 ;
C 171 ; WX 556 ; N guillemotleft ; B 97 108 459 446 ;
C 172 ; WX 333 ; N guilsinglleft ; B 88 108 245 446 ;
C 173 ; WX 333 ; N guilsinglright ; B 88 108 245 446 ;
C 174 ; WX 500 ; N fi ; B 14 0 434 728 ;
C 175 ; WX 500 ; N fl ; B 14 0 432 728 ;
C 177 ; WX 556 ; N endash ; B 0 240 556 313 ;
C 178 ; WX 556 ; N dagger ; B 43 -159 514 718 ;
C 179 ; WX 556 ; N daggerdbl ; B 43 -159 514 718 ;
C 180 ; WX 278 ; N periodcentered ; B 77 190 202 315 ;
C 182 ; WX 537 ; N paragraph ; B 18 -173 497 718 ;
C 183 ; WX 350 ; N bullet ; B 18 202 333 517 ;
C 184 ; WX 222 ; N quotesinglbase ; B 53 -149 157 106 ;
C 185 ; WX 333 ; N quotedblbase ; B 26 -149 295 106 ;
C 186 ; WX 333 ; N quotedblright ; B 26 463 295 718 ;
C 187 ; WX 556 ; N guillemotright ; B 97 108 459 446 ;
C 188 ; WX 1000 ; N ellipsis ; B 115 0 885 106 ;
C 189 ; WX 1000 ; N perthousand ; B 7 -19 994 703 ;
C 191 ; WX 611 ; N questiondown ; B 91 -201 527 525 ;
C 193 ; WX 333 ; N grave ; B 14 593 211 734 ;
C 194 ; WX 333 ; N acute ; B 122 593 319 734 ;
C 195 ; WX 333 ; N circumflex ; B 21 593 312 734 ;
C 196 ; WX 333 ; N tilde ; B -4 606 337 722 ;
C 197 ; WX 333 ; N macron ; B 10 627 323 684 ;
C 198 ; WX 333 ; N breve ; B 13 595 321 731 ;
C 199 ; WX 333 ; N dotaccent ; B 121 604 212 706 ;
C 200 ; WX 333 ; N dieresis ; B 40 604 293 706 ;
C 202 ; WX 333 ; N ring ; B 75 572 259 756 ;
C 203 ; WX 333 ; N cedilla ; B 45 -225 259 0 ;
C 205 ; WX 333 ; N hungarumlaut ; B 31 593 409 734 ;
C 206 ; WX 333 ; N ogonek ; B 73 -225 287 0 ;
C 207 ; WX 333 ; N caron ; B 21 593 312 734 ;
C 208 ; WX 1000 ; N emdash ; B 0 240 1000 313 ;
C 225 ; WX 1000 ; N AE ; B 8 0 951 718 ;
C 227 ; WX 370 ; N ordfeminine ; B 24 405 346 737 ;
C 232 ; WX 556 ; N Lslash ; B -20 0 537 718 ;
C 233 ; WX 778 ; N Oslash ; B 39 -19 740 737 ;
C 234 ; WX 1000 ; N OE ; B 36 -19 965 737 ;

C 235 ; WX 365 ; N ordmasculine ; B 25 405 341 737 ;
C 241 ; WX 889 ; N ae ; B 36 -15 847 538 ;
C 245 ; WX 278 ; N dotlessi ; B 95 0 183 523 ;
C 248 ; WX 222 ; N lslash ; B -20 0 242 718 ;
C 249 ; WX 611 ; N oslash ; B 28 -22 537 545 ;
C 250 ; WX 944 ; N oe ; B 35 -15 902 538 ;
C 251 ; WX 611 ; N germandbls ; B 67 -15 571 728 ;
C -1 ; WX 278 ; N Idieresis ; B 13 0 266 901 ;
C -1 ; WX 556 ; N eacute ; B 40 -15 516 734 ;
C -1 ; WX 556 ; N abreve ; B 36 -15 530 731 ;
C -1 ; WX 556 ; N uhungarumlaut ; B 68 -15 521 734 ;
C -1 ; WX 556 ; N ecaron ; B 40 -15 516 734 ;
C -1 ; WX 667 ; N Ydieresis ; B 14 0 653 901 ;
C -1 ; WX 584 ; N divide ; B 39 -19 545 524 ;
C -1 ; WX 667 ; N Yacute ; B 14 0 653 929 ;
C -1 ; WX 667 ; N Acircumflex ; B 14 0 654 929 ;
C -1 ; WX 556 ; N aacute ; B 36 -15 530 734 ;
C -1 ; WX 722 ; N Ucircumflex ; B 79 -19 644 929 ;
C -1 ; WX 500 ; N yacute ; B 11 -214 489 734 ;
C -1 ; WX 500 ; N scommaaccent ; B 32 -225 464 538 ;
C -1 ; WX 556 ; N ecircumflex ; B 40 -15 516 734 ;
C -1 ; WX 722 ; N Uring ; B 79 -19 644 931 ;
C -1 ; WX 722 ; N Udieresis ; B 79 -19 644 901 ;
C -1 ; WX 556 ; N aogonek ; B 36 -220 547 538 ;
C -1 ; WX 722 ; N Uacute ; B 79 -19 644 929 ;
C -1 ; WX 556 ; N uogonek ; B 68 -225 519 523 ;
C -1 ; WX 667 ; N Edieresis ; B 86 0 616 901 ;
C -1 ; WX 722 ; N Dcroat ; B 0 0 674 718 ;
C -1 ; WX 250 ; N commaaccent ; B 87 -225 181 -40 ;
C -1 ; WX 737 ; N copyright ; B -14 -19 752 737 ;
C -1 ; WX 667 ; N Emacron ; B 86 0 616 879 ;
C -1 ; WX 500 ; N ccaron ; B 30 -15 477 734 ;
C -1 ; WX 556 ; N aring ; B 36 -15 530 756 ;
C -1 ; WX 722 ; N Ncommaaccent ; B 76 -225 646 718 ;
C -1 ; WX 222 ; N lacute ; B 67 0 264 929 ;
C -1 ; WX 556 ; N agrave ; B 36 -15 530 734 ;
C -1 ; WX 611 ; N Tcommaaccent ; B 14 -225 597 718 ;
C -1 ; WX 722 ; N Cacute ; B 44 -19 681 929 ;
C -1 ; WX 556 ; N atilde ; B 36 -15 530 722 ;
C -1 ; WX 667 ; N Edotaccent ; B 86 0 616 901 ;
C -1 ; WX 500 ; N scaron ; B 32 -15 464 734 ;
C -1 ; WX 500 ; N scedilla ; B 32 -225 464 538 ;
C -1 ; WX 278 ; N iacute ; B 95 0 292 734 ;
C -1 ; WX 471 ; N lozenge ; B 10 0 462 728 ;
C -1 ; WX 722 ; N Rcaron ; B 88 0 684 929 ;
C -1 ; WX 778 ; N Gcommaaccent ; B 48 -225 704 737 ;
C -1 ; WX 556 ; N ucircumflex ; B 68 -15 489 734 ;
C -1 ; WX 556 ; N acircumflex ; B 36 -15 530 734 ;

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C -1 ; WX 333 ; N rcaron ; B 61 0 352 734 ;
C -1 ; WX 500 ; N ccedilla ; B 30 -225 477 538 ;
C -1 ; WX 611 ; N Zdotaccent ; B 23 0 588 901 ;
C -1 ; WX 667 ; N Thorn ; B 86 0 622 718 ;
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C -1 ; WX 722 ; N Racute ; B 88 0 684 929 ;
C -1 ; WX 667 ; N Sacute ; B 49 -19 620 929 ;
C -1 ; WX 643 ; N dcaron ; B 35 -15 655 718 ;
C -1 ; WX 722 ; N Umacron ; B 79 -19 644 879 ;
C -1 ; WX 556 ; N uring ; B 68 -15 489 756 ;
C -1 ; WX 333 ; N threesuperior ; B 5 270 325 703 ;
C -1 ; WX 778 ; N Ograve ; B 39 -19 739 929 ;
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C -1 ; WX 584 ; N multiply ; B 39 0 545 506 ;
C -1 ; WX 556 ; N uacute ; B 68 -15 489 734 ;
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C -1 ; WX 476 ; N partialdiff ; B 13 -38 463 714 ;
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C -1 ; WX 722 ; N Nacute ; B 76 0 646 929 ;
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C -1 ; WX 667 ; N Ecircumflex ; B 86 0 616 929 ;
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C -1 ; WX 556 ; N edieresis ; B 40 -15 516 706 ;
C -1 ; WX 500 ; N cacute ; B 30 -15 477 734 ;
C -1 ; WX 556 ; N nacute ; B 65 0 491 734 ;
C -1 ; WX 556 ; N umacron ; B 68 -15 489 684 ;
C -1 ; WX 722 ; N Ncaron ; B 76 0 646 929 ;
C -1 ; WX 278 ; N Iacute ; B 91 0 292 929 ;
C -1 ; WX 584 ; N plusminus ; B 39 0 545 506 ;
C -1 ; WX 260 ; N brokenbar ; B 94 -150 167 700 ;
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C -1 ; WX 778 ; N Gbreve ; B 48 -19 704 926 ;
C -1 ; WX 278 ; N Idotaccent ; B 91 0 188 901 ;
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C -1 ; WX 667 ; N Egrave ; B 86 0 616 929 ;
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C -1 ; WX 722 ; N Ccedilla ; B 44 -225 681 737 ;
C -1 ; WX 222 ; N lcommaaccent ; B 67 -225 167 718 ;
C -1 ; WX 317 ; N tcaron ; B 14 -7 329 808 ;
C -1 ; WX 556 ; N eogonek ; B 40 -225 516 538 ;
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C -1 ; WX 667 ; N Adieresis ; B 14 0 654 901 ;
C -1 ; WX 556 ; N egrave ; B 40 -15 516 734 ;
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C -1 ; WX 778 ; N Oacute ; B 39 -19 739 929 ;
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C -1 ; WX 556 ; N amacron ; B 36 -15 530 684 ;
C -1 ; WX 500 ; N sacute ; B 32 -15 464 734 ;
C -1 ; WX 278 ; N idieresis ; B 13 0 266 706 ;
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C -1 ; WX 722 ; N Ugrave ; B 79 -19 644 929 ;
C -1 ; WX 612 ; N Delta ; B 6 0 608 688 ;
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C -1 ; WX 778 ; N Odieresis ; B 39 -19 739 901 ;
C -1 ; WX 556 ; N mu ; B 68 -207 489 523 ;
C -1 ; WX 278 ; N igrave ; B -13 0 184 734 ;
C -1 ; WX 556 ; N ohungarumlaut ; B 35 -14 521 734 ;
C -1 ; WX 667 ; N Eogonek ; B 86 -220 633 718 ;
C -1 ; WX 556 ; N dcroat ; B 35 -15 550 718 ;
C -1 ; WX 834 ; N threequarters ; B 45 -19 810 703 ;
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C -1 ; WX 556 ; N ntilde ; B 65 0 491 722 ;
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C -1 ; WX 556 ; N ugrave ; B 68 -15 489 734 ;
C -1 ; WX 453 ; N radical ; B -4 -80 458 762 ;

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C -1 ; WX 333 ; N rcommaaccent ; B 77 -225 332 538 ;
C -1 ; WX 722 ; N Ntilde ; B 76 0 646 917 ;
C -1 ; WX 556 ; N otilde ; B 35 -14 521 722 ;
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C -1 ; WX 778 ; N Otilde ; B 39 -19 739 917 ;
C -1 ; WX 500 ; N zdotaccent ; B 31 0 469 706 ;
C -1 ; WX 667 ; N Ecaron ; B 86 0 616 929 ;
C -1 ; WX 278 ; N Iogonek ; B -3 -225 211 718 ;
C -1 ; WX 500 ; N kcommaaccent ; B 67 -225 501 718 ;
C -1 ; WX 584 ; N minus ; B 39 216 545 289 ;
C -1 ; WX 278 ; N Icircumflex ; B -6 0 285 929 ;
C -1 ; WX 556 ; N ncaron ; B 65 0 491 734 ;
C -1 ; WX 278 ; N tcommaaccent ; B 14 -225 257 669 ;
C -1 ; WX 584 ; N logicalnot ; B 39 108 545 390 ;
C -1 ; WX 556 ; N odieresis ; B 35 -14 521 706 ;
C -1 ; WX 556 ; N udieresis ; B 68 -15 489 706 ;
C -1 ; WX 549 ; N notequal ; B 12 -35 537 551 ;
C -1 ; WX 556 ; N gcommaaccent ; B 40 -220 499 822 ;
C -1 ; WX 556 ; N eth ; B 35 -15 522 737 ;
C -1 ; WX 500 ; N zcaron ; B 31 0 469 734 ;
C -1 ; WX 556 ; N ncommaaccent ; B 65 -225 491 538 ;
C -1 ; WX 333 ; N onesuperior ; B 43 281 222 703 ;
C -1 ; WX 278 ; N imacron ; B 5 0 272 684 ;
C -1 ; WX 556 ; N Euro ; B 0 0 0 0 ;

EndCharMetrics

StartKernData

StartKernPairs 2705

KPX A C -30

KPX A Cacute -30

KPX A Ccaron -30

KPX A Ccedilla -30

KPX A G -30

KPX A Gbreve -30

KPX A Gcommaaccent -30

KPX A O -30

KPX A Oacute -30

KPX A Ocircumflex -30

KPX A Odieresis -30

KPX A Ograve -30

KPX A Ohungarumlaut -30

KPX A Omacron -30

KPX A Oslash -30

KPX A Otilde -30

KPX A Q -30
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KPX A V -70
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KPX A Y -100
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KPX A ucircumflex -30
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KPX A ugrave -30
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KPX A umacron -30
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KPX A uring -30
KPX A v -40
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KPX A y -40
KPX A yacute -40
KPX A ydieresis -40
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KPX Aacute Ccaron -30
KPX Aacute Ccedilla -30
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KPX Aacute Gcommaaccent -30
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EndKernPairs

EndKernData

EndFontMetrics

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* /opt/cola/permits/1022970885_1618843459.05/0/itext-jar/com/lowagie/text/pdf/fonts/Helvetica.afm

1.506 jersey-guava 2.10.1

1.506.1 Available under license :

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

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* /opt/cola/permits/1136687796_1613859500.91/0/ jersey-guava-2-10-1-sources-1-jar/ jersey/repackaged/com/google/common/collect/Ranges.java

* /opt/cola/permits/1136687796_1613859500.91/0/ jersey-guava-2-10-1-sources-1-jar/ jersey/repackaged/com/google/common/util/concurrent/AbstractService.java

* /opt/cola/permits/1136687796_1613859500.91/0/ jersey-guava-2-10-1-sources-1-jar/ jersey/repackaged/com/google/common/collect/EmptyImmutableSetMultimap.java

* /opt/cola/permits/1136687796_1613859500.91/0/ jersey-guava-2-10-1-sources-1-jar/ jersey/repackaged/com/google/common/util/concurrent/Callables.java

* /opt/cola/permits/1136687796_1613859500.91/0/ jersey-guava-2-10-1-sources-1-jar/ jersey/repackaged/com/google/common/collect/SingletonImmutableList.java

* /opt/cola/permits/1136687796_1613859500.91/0/ jersey-guava-2-10-1-sources-1-jar/ jersey/repackaged/com/google/common/collect/ComputationException.java

* /opt/cola/permits/1136687796_1613859500.91/0/ jersey-guava-2-10-1-sources-1-jar/ jersey/repackaged/com/google/common/collect/ImmutableSortedMapFauxverideShim.java

* /opt/cola/permits/1136687796_1613859500.91/0/ jersey-guava-2-10-1-sources-1-jar/ jersey/repackaged/com/google/common/annotations/GwtIncompatible.java

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* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
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* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
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* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
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* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
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* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
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* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
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* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
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* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
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* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
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* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/io/ByteProcessor.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/collect/ImmutableSortedSetFauxverideShim.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/util/concurrent/SettableFuture.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/io/ByteArrayDataOutput.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/reflect/TypeResolver.java
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* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-

jar/jersey/repackaged/com/google/common/collect/ImmutableSortedAsList.java

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 */
/*
 * This method was rewritten in Java from an intermediate step of the Murmur hash function in
 * http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp, which contained the
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* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-

jar/jersey/repackaged/com/google/common/base/SmallCharMatcher.java

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* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/base/internal/Finalizer.java
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* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/primitives/AndroidInteger.java
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* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/io/NullOutputStream.java
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* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/collect/ImmutableRangeSet.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/io/GwtWorkarounds.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/io/BaseEncoding.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/collect/CartesianList.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/hash/ChecksumHashFunction.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/collect/ImmutableRangeMap.java
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* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/collect/SortedIterables.java
```

* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/collect/RangeSet.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/collect/RegularImmutableSortedMultiset.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/collect/ImmutableSortedMultisetFauxverideShim.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/primitives/UnsignedLong.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/collect/AbstractRangeSet.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/primitives/UnsignedInts.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/primitives/UnsignedInteger.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/primitives/ParseRequest.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/collect/SortedIterable.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/primitives/UnsignedLongs.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/collect/ImmutableSortedMultiset.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/collect/GeneralRange.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/collect/Count.java

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```

```
*/
```

```
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 *
 * As of 2010/06/11, this method is identical to the (package private) hash
 * method in OpenJDK 7's java.util.HashMap class.
 */
```

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```
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/util/concurrent/Striped.java
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jar/jersey/repackaged/com/google/common/cache/Weigher.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/math/MathPreconditions.java
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jar/jersey/repackaged/com/google/common/reflect/MutableTypeToInstanceMap.java  
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-  
jar/jersey/repackaged/com/google/common/collect/FilteredMultimap.java  
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-  
jar/jersey/repackaged/com/google/common/hash/AbstractByteHasher.java  
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-  
jar/jersey/repackaged/com/google/common/collect/UnmodifiableSortedMultiset.java  
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-  
jar/jersey/repackaged/com/google/common/collect/AbstractSortedKeySortedSetMultimap.java  
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-  
jar/jersey/repackaged/com/google/common/reflect/TypeToInstanceMap.java  
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-  
jar/jersey/repackaged/com/google/common/collect/ForwardingImmutableMap.java  
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-  
jar/jersey/repackaged/com/google/common/reflect/Element.java  
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-  
jar/jersey/repackaged/com/google/common/cache/LongAddable.java  
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-  
jar/jersey/repackaged/com/google/common/collect/DescendingImmutableSortedSet.java  
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-  
jar/jersey/repackaged/com/google/common/io/FileWriteMode.java  
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-  
jar/jersey/repackaged/com/google/common/collect/RangeMap.java  
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-  
jar/jersey/repackaged/com/google/common/collect/TransformedListIterator.java
```

* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/io/CharSink.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/collect/ForwardingNavigableMap.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/collect/AbstractMultimap.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/io/CharSource.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/collect/AllEqualOrdering.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/reflect/ClassPath.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/reflect/Invokable.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/collect/ForwardingImmutableSet.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/cache/LongAddables.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/reflect/ImmutableTypeToInstanceMap.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/collect/RegularImmutableSortedMap.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/reflect/TypeCapture.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/reflect/Parameter.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/collect/TreeRangeMap.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/collect/RegularImmutableAsList.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/collect/EmptyImmutableSortedMap.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/collect/TransformedIterator.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/collect/ImmutableEnumMap.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/io/ByteSink.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/collect/FilteredEntryMultimap.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/collect/ForwardingNavigableSet.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/util/concurrent/RateLimiter.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/collect/ForwardingImmutableList.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/reflect/package-info.java

* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/io/Closer.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/collect/ForwardingBlockingDeque.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/reflect/AbstractInvocationHandler.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/collect/FilteredKeyMultimap.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/collect/DescendingMultiset.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/collect/AbstractNavigableMap.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/collect/SortedMultisetBridge.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/util/concurrent/ServiceManager.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/io/ByteSource.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/collect/ForwardingDeque.java
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jar/jersey/repackaged/com/google/common/reflect/Reflection.java
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/*
* This file is a modified version of
* [http://gee.cs.oswego.edu/cgi-
bin/viewcvs.cgi/jsr166/src/main/java/util/concurrent/AbstractExecutorService.java?revision=1.35](http://gee.cs.oswego.edu/cgi-bin/viewcvs.cgi/jsr166/src/main/java/util/concurrent/AbstractExecutorService.java?revision=1.35)
* which contained the following notice:
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*
* Rationale for copying:
* Guava targets JDK5, whose AbstractExecutorService class lacks the newTaskFor protected
* customization methods needed by MoreExecutors.listeningDecorator. This class is a copy of
* AbstractExecutorService from the JSR166 CVS repository. It contains the desired methods.
*/

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* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/util/concurrent/AbstractListeningExecutorService.java
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* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/collect/HashBiMap.java

* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/collect/EnumMultiset.java

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/*

* This following method is a modified version of one found in

* <http://gee.cs.oswego.edu/cgi-bin/viewcvs.cgi/jsr166/src/test/tck/AbstractExecutorServiceTest.java?revision=1.30>

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jar/jersey/repackaged/com/google/common/collect/MapMakerInternalMap.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/collect/MapMaker.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/collect/Cut.java
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jar/jersey/repackaged/com/google/common/primitives/Booleans.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/collect/EmptyImmutableListMultimap.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/collect/Platform.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/collect/ImmutableListMultimap.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/base/Joiner.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/collect/ImmutableSortedSet.java

* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/util/concurrent/ListenableFutureTask.java

* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/primitives/Doubles.java

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* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/collect/ImmutableEntry.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/collect/ImmutableMapEntrySet.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/collect/FluentIterable.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/collect/ImmutableMultiset.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/collect/ImmutableMap.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/collect/EmptyImmutableBiMap.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/base/Stopwatch.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/collect/Table.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/collect/PeekingIterator.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/collect/ImmutableMapValues.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/collect/EmptyImmutableSortedSet.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/collect/ImmutableCollection.java
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* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/net/TldPatterns.java
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jar/jersey/repackaged/com/google/common/util/concurrent/UncheckedTimeoutException.java
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jar/jersey/repackaged/com/google/common/util/concurrent/FakeTimeLimiter.java
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jar/jersey/repackaged/com/google/common/reflect/TypeToken.java
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jar/jersey/repackaged/com/google/common/base/CaseFormat.java
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jar/jersey/repackaged/com/google/common/io/AppendableWriter.java
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jar/jersey/repackaged/com/google/common/util/concurrent/Futures.java
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jar/jersey/repackaged/com/google/common/util/concurrent/TimeLimiter.java
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jar/jersey/repackaged/com/google/common/io/PatternFilenameFilter.java
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jar/jersey/repackaged/com/google/common/annotations/VisibleForTesting.java

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jar/jersey/repackaged/com/google/common/collect/Iterators.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/eventbus/package-info.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/collect/ExplicitOrdering.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/collect/ForwardingQueue.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/collect/ListMultimap.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/collect/ImmutableList.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/collect/ForwardingSet.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/io/Resources.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/io/LimitInputStream.java
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jar/jersey/repackaged/com/google/common/collect/ForwardingSortedSet.java
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jar/jersey/repackaged/com/google/common/base/FinalizablePhantomReference.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/collect/LinkedHashMultiset.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/collect/LinkedListMultimap.java
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jar/jersey/repackaged/com/google/common/base/FinalizableReference.java
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jar/jersey/repackaged/com/google/common/collect/TreeMultiset.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/base/package-info.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/io/InputSupplier.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/collect/ByFunctionOrdering.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/util/concurrent/ListenableFuture.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/base/Predicates.java
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jar/jersey/repackaged/com/google/common/collect/SetMultimap.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/collect/AbstractMapBasedMultimap.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/base/AbstractIterator.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
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* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
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* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/base/Functions.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/collect/package-info.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/io/LittleEndianDataOutputStream.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/collect/EnumHashBiMap.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/eventbus/Subscribe.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/collect/MapConstraint.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/collect/ForwardingConcurrentMap.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/base/Function.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/collect/ForwardingSortedMap.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/eventbus/HandlerFindingStrategy.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-

jar/jersey/repackaged/com/google/common/collect/ForwardingMapEntry.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/collect/UsingToStringOrdering.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
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* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
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* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
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* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/base/Suppliers.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/collect/AbstractIterator.java
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* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
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* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
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* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/eventbus/SynchronizedEventHandler.java
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* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-

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* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
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* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
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* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
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* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
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* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/collect/ForwardingObject.java
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* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-

jar/jersey/repackaged/com/google/common/collect/ComputingConcurrentHashMap.java

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jar/jersey/repackaged/com/google/common/collect/GenericMapMaker.java

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* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/cache/AbstractLoadingCache.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/cache/RemovalCause.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/cache/CacheBuilderSpec.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/reflect/Types.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/collect/GwtTransient.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/cache/LoadingCache.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/cache/ForwardingLoadingCache.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/collect/RegularImmutableMultiset.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/net/HostAndPort.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/base/Absent.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/util/concurrent/ForwardingListeningExecutorService.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/base/PairwiseEquivalence.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/net/HttpHeaders.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/base/Enums.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
```

jar/jersey/repackaged/com/google/common/cache/CacheStats.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/hash/AbstractNonStreamingHashFunction.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/cache/CacheLoader.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/base/Present.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/util/concurrent/ExecutionError.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/math/IntMath.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/cache/RemovalNotification.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/net/MediaType.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/util/concurrent/ListeningScheduledExecutorService.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/math/DoubleMath.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/reflect/TypeParameter.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/util/concurrent/AsyncFunction.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/cache/ForwardingCache.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/math/LongMath.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/util/concurrent/UncheckedExecutionException.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/cache/RemovalListeners.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/util/concurrent/FutureCallback.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/cache/Cache.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/base/Ticker.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/hash/AbstractCompositeHashFunction.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/util/concurrent/Uninterruptibles.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/util/concurrent/ForwardingExecutorService.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/collect/WellBehavedMap.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/cache/RemovalListener.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-

jar/jersey/repackaged/com/google/common/util/concurrent/AtomicLongMap.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/math/BigIntegerMath.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/base/Optional.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/util/concurrent/CycleDetectingLockFactory.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/util/concurrent/FutureFallback.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/cache/package-info.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/util/concurrent/ForwardingCheckedFuture.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/util/concurrent/AbstractScheduledService.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/cache/AbstractCache.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/math/DoubleUtils.java
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jar/jersey/repackaged/com/google/common/collect/TreeRangeSet.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/collect/BoundType.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/hash/BloomFilterStrategies.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/hash/AbstractHasher.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/collect/RegularContiguousSet.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-

jar/jersey/repackaged/com/google/common/hash/HashFunction.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/hash/BloomFilter.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/hash/Murmur3_32HashFunction.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/hash/MessageDigestHashFunction.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/hash/AbstractStreamingHashFunction.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/collect/AbstractSortedMultiset.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/hash/PrimitiveSink.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/collect/EmptyImmutableSortedMultiset.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/hash/Hashing.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/collect/Queues.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/collect/DescendingImmutableSortedMultiset.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/hash/Funnels.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/hash/HashCode.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/hash/Murmur3_128HashFunction.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/hash/Funnel.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/hash/Hasher.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/hash/HashCodes.java
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* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/collect/Sets.java
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* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/collect/ForwardingSortedSetMultimap.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/collect/DiscreteDomains.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/primitives/package-info.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/collect/UnmodifiableListIterator.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/collect/SortedMapDifference.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/util/concurrent/Monitor.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/collect/AbstractSequentialIterator.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/net/package-info.java
```

* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/util/concurrent/ForwardingBlockingQueue.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/collect/RowSortedTable.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/annotations/Beta.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/util/concurrent/UncaughtExceptionHandler.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/annotations/package-info.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/util/concurrent/ListeningExecutorService.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/collect/MinMaxPriorityQueue.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/collect/ForwardingListMultimap.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/util/concurrent/ThreadFactoryBuilder.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/base/Equivalence.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/collect/ForwardingSetMultimap.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/base/Strings.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/util/concurrent/Atomics.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/base/Ascii.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/collect/ForwardingImmutableCollection.java
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jar/jersey/repackaged/com/google/common/base/FunctionalEquivalence.java
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*/opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/cache/LongAdder.java
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*/opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
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*/
```

Found in path(s):

```
*/opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-  
jar/jersey/repackaged/com/google/common/collect/SortedMultiset.java
```

1.507 open-ws 1.5.1

1.507.1 Available under license :

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

```
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```

Found in path(s):

```
*/opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-  
jar/org/opensaml/util/storage/MapBasedStorageService.java
```

* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/wstrust/Entropy.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/wsaddressing/impl/FaultToImpl.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/wstrust/impl/AllowPostdatingBuilder.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/wstrust/impl/AuthenticationTypeUnmarshaller.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/wstrust/impl/EncryptionAlgorithmImpl.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/wstrust/impl/BinaryExchangeUnmarshaller.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/wsaddressing/ProblemAction.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/soap/util/SOAPHelper.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/wssecurity/impl/SecurityBuilder.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/message/handler/HandlerChainResolver.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/wsaddressing/impl/MetadataUnmarshaller.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/wsaddressing/impl/AttributedURIMarshaller.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/wsaddressing/impl/EndpointReferenceBuilder.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/wstrust/impl/CancelTargetImpl.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/wstrust/Primary.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/wssecurity/impl/AttributedURIUnmarshaller.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/wstrust/impl/ReasonImpl.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/wsaddressing/impl/AbstractWSAddressingObject.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/wstrust/RequestedSecurityToken.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/wspolicy/impl/ExactlyOneUnmarshaller.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/wsfed/WSFedConstants.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/util/resource/AbstractFilteredResource.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/soap/soap11/impl/DetailMarshaller.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/security/provider/StaticSecurityPolicyResolver.java

* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/wssecurity/WSSecurityConstants.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/wspolicy/impl/PolicyAttachmentMarshaller.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/wsaddressing/impl/SoapActionImpl.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/soap/client/SOAPFaultException.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/wssecurity/EncodedString.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/wspolicy/impl/AllBuilder.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/wstrust/impl/ComputedKeyAlgorithmUnmarshaller.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/message/MessageException.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/wstrust/impl/OnBehalfOfMarshaller.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/soap/soap11/Detail.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/soap/client/http/HttpSOAPRequestParameters.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/transport/http/HTTPOutTransport.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/wssecurity/impl/SaltBuilder.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/wsaddressing/impl/ProblemHeaderQNameUnmarshaller.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/util/resource/ChainingResourceFilter.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/wsaddressing/impl/EndpointReferenceTypeUnmarshaller.java
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* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/wstrust/AuthenticationType.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/wstrust/IssuedTokens.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/wspolicy/impl/ExactlyOneImpl.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/wsfed/impl/RequestSecurityTokenResponseUnmarshaller.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/transport/InTransport.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/wssecurity/impl/TransformationParametersBuilder.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/wstrust/impl/CodeMarshaller.java

* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/message/handler/HandlerChain.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/wstrust/impl/BinaryExchangeMarshaller.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/wstrust/impl/RequestSecurityTokenResponseCollectionMarshaller.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/wstrust/impl/SignatureAlgorithmImpl.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/wsaddressing/impl/AddressImpl.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/wssecurity/impl/ReferenceMarshaller.java
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* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/wstrust/impl/ComputedKeyBuilder.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/wspolicy/impl/AbstractWSPolicyObjectUnmarshaller.java
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* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/soap/soap11/encoder/http/HTTPSOAP11Encoder.java
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* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/wsaddressing/impl/FromBuilder.java
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* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/wssecurity/impl/PasswordMarshaller.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/message/handler/BasicHandlerChain.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/wstrust/impl/EncryptionImpl.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/wsaddressing/impl/AbstractWSAddressingObjectUnmarshaller.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/wstrust/impl/KeyTypeImpl.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/wstrust/impl/SignChallengeUnmarshaller.java

* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/wssecurity/EncryptedHeader.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/wstrust/WSTrustObjectBuilder.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/wstrust/impl/SignWithUnmarshaller.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/wstrust/SignatureAlgorithm.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/wssecurity/impl/UsernameTokenUnmarshaller.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/wstrust/EncryptWith.java
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* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/soap/soap11/impl/FaultStringBuilder.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/wsaddressing/SoapAction.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/message/handler/BasicPhasedHandlerChain.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/wsaddressing/impl/ProblemIRIImpl.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/soap/soap12/RoleBearing.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/wssecurity/impl/AttributedStringImpl.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/util/resource/PropertyReplacementResourceFilter.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/util/resource/ResourceException.java
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* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/wsfed/Address.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/wstrust/KeyType.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/wsaddressing/impl/ActionUnmarshaller.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/wstrust/impl/EntropyBuilder.java
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* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/wssecurity/impl/SecurityTokenReferenceUnmarshaller.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/wstrust/impl/RequestedReferenceTypeUnmarshaller.java

* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/wssecurity/UsernameToken.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/wsfed/impl/RequestSecurityTokenResponseImpl.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/soap/common/SOAPObject.java
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* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/wsaddressing/impl/SoapActionMarshaller.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/security/SecurityPolicy.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/wstrust/impl/DelegateToImpl.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/soap/soap11/FaultCode.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/wspolicy/Policy.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/wssecurity/TokenTypeBearing.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/wstrust/impl/EncryptionBuilder.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/wspolicy/impl/PolicyReferenceImpl.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/wstrust/impl/CanonicalizationAlgorithmUnmarshaller.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/wspolicy/WSPolicyConstants.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/soap/client/http/HttpClientBuilder.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/wssecurity/impl/SecurityMarshaller.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/wstrust/impl/RenewingUnmarshaller.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/wstrust/impl/SignChallengeResponseMarshaller.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/wssecurity/impl/TimestampMarshaller.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/wstrust/impl/EncryptWithBuilder.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/security/ServletRequestX509CredentialAdapter.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/wstrust/impl/CombinedHashUnmarshaller.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/wsaddressing/impl/ToBuilder.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/wstrust/impl/StatusImpl.java

* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/wstrust/impl/BinarySecretBuilder.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/wssecurity/impl/NonceMarshaller.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/wssecurity/impl/AbstractWSSecurityObjectMarshaller.java
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* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/util/storage/ExpiringObject.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/soap/soap11/decoder/SOAP11Decoder.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/wstrust/impl/KeySizeBuilder.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/wssecurity/impl/UsernameUnmarshaller.java
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* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/soap/soap11/impl/FaultStringImpl.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/wstrust/RequestSecurityToken.java
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* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-jar/org/opensaml/ws/wstrust/Code.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-

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jar/org/opensaml/ws/wstrust/impl/ParticipantTypeMarshaller.java
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* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-
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jar/org/opensaml/ws/wsaddressing/impl/AttributedUnsignedLongImpl.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-
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* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-
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* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-
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* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-
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jar/org/opensaml/ws/wstrust/SignWith.java
* /opt/cola/permits/1136474371_1613772404.24/0/openws-1-5-1-sources-2-
jar/org/opensaml/ws/wspolicy/AppliesTo.java

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*/

/**

* Indicates whether this encoder, given the current message context, provides end-to-end message confidentiality.

*

* @param messageContext the current message context

*

* @return true if the encoder provides end-to-end message confidentiality, false if not

*

* @throws MessageEncodingException thrown if the encoder encounter an error while attempt to evaluate its
ability

* to provide message confidentiality.

*/

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*/

/**

* Gets whether the transport represents a confidential connection (e.g. an SSL connection).

*

* @return whether the transport represents a confidential connection

*/

/**

* Sets whether the transport represents a confidential connection.

*

* @param isConfidential whether the transport represents a confidential connection

*/

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jar/org/opensaml/ws/transport/Transport.java

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<p>

XMLObject interfaces for WS-Security 2004 elements.

</p>

<p>

The OASIS [Web Services Security: SOAP Message Security 1.1 \(WS-Security 2004\)](http://docs.oasis-open.org/wss/v1.1/wss-v1.1-spec-os-SOAPMessageSecurity.pdf) specification describes enhancements to SOAP messaging to provide message integrity and confidentiality. This specification also provides a general-purpose mechanism for associating security tokens with message content.

</p>

<p>

The security token profiles currently supported are:

Web Services Security UsernameToken Profile 1.1

Web Services Security: SAML Token Profile 1.1

Web Services Security X.509 Certificate Token Profile 1.1

Web Services Security Kerberos Token Profile 1.1

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/** Confidential flag. */

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1.508 api-descriptor 21.0.0-alpha-23

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```
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# contribution to the Google C++ Testing Framework project. People
# who commit code to the project are encouraged to add their names
# here. Please keep the list sorted by first names.
```

```
Ajay Joshi <jaj@google.com>
Balzs Dn <balazs.dan@gmail.com>
Bharat Mediratta <bharat@menalto.com>
Chandler Carruth <chandlerc@google.com>
Chris Prince <cprince@google.com>
Chris Taylor <taylorc@google.com>
Dan Egnor <egnor@google.com>
Eric Roman <eroman@chromium.org>
Hady Zalek <hady.zalek@gmail.com>
Jeffrey Yasskin <jyasskin@google.com>
Ji Sigursson <joi@google.com>
Keir Mierle <mierle@gmail.com>
Keith Ray <keith.ray@gmail.com>
Kenton Varda <kenton@google.com>
Manuel Klimek <klimek@google.com>
Markus Heule <markus.heule@gmail.com>
Mika Raento <mikie@iki.fi>
Mikls Fazekas <mfazekas@szemafor.com>
Pasi Valminen <pasi.valminen@gmail.com>
Patrick Hanna <phanna@google.com>
Patrick Riley <pfr@google.com>
Peter Kaminski <piotrk@google.com>
Preston Jackson <preston.a.jackson@gmail.com>
Rainer Klaffenboeck <rainer.klaffenboeck@dynatrace.com>
Russ Cox <rsc@google.com>
Russ Rufer <russ@pentad.com>
Sean McAfee <eefacm@gmail.com>
```

Sigurur sgeirsson <siggi@google.com>
Tracy Bialik <tracy@pentad.com>
Vadim Berman <vadimb@google.com>
Vlad Losev <vladl@google.com>
Zhanyong Wan <wan@google.com>

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Ext headers	GL/glxt.h	Khronos
	GL/glxt.h	Khronos
	GL/wglxt.h	Khronos
	KHR/khrplatform.h	Khronos

include/GL/gl.h :

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include/GL/glxt.h
include/GL/wglxt.h :
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Martin Richards
23 February 2007

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/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.11, January 15th, 2017

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By Sean Eron Anderson
seander@cs.stanford.edu

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  <PropertyGroup>
    <OutputType>Exe</OutputType>
    <ApplicationManifest>App.manifest</ApplicationManifest>
    <!-- Blocked on ILAsm supporting embedding resources. See https://github.com/dotnet/coreclr/issues/20819 -->
    <IlrtTestKind>BuildOnly</IlrtTestKind>
    <!-- Test unsupported outside of windows -->
    <TestUnsupportedOutsideWindows>true</TestUnsupportedOutsideWindows>
    <DisableProjectBuild Condition="'$(TargetsUnix)' == 'true'">true</DisableProjectBuild>
    <!-- This test would require the runincontext.exe to include App.manifest describing the COM interfaces -->
    <UnloadabilityIncompatible>true</UnloadabilityIncompatible>
  </PropertyGroup>
  <ItemGroup>
    <Compile Include="Program.cs" />
    <Compile Include="..\ServerContracts/Server.CoClasses.cs" />
    <Compile Include="..\ServerContracts/Server.Contracts.cs" />
    <Compile Include="..\ServerContracts/ServerGuids.cs" />
  </ItemGroup>
  <ItemGroup>
    <ProjectReference Include="..\NativeServer/CMakeLists.txt" />
    <ProjectReference Include="$(TestSourceDir)Common/CoreCLRTestLibrary/CoreCLRTestLibrary.csproj" />
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