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Text Part Number: 78EE117C99-1237461416

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1.4 bouncy-castle 1.43

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1.5 jackson-core 1.9.2

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```

Found in path(s):

```

* /opt/cola/permits/1020252227_1614939438.31/0/jackson-core-asl-1-9-2-sources-
jar/org/codehaus/jackson/Base64Variant.java
* /opt/cola/permits/1020252227_1614939438.31/0/jackson-core-asl-1-9-2-sources-
jar/org/codehaus/jackson/JsonParser.java
* /opt/cola/permits/1020252227_1614939438.31/0/jackson-core-asl-1-9-2-sources-
jar/org/codehaus/jackson/JsonFactory.java
* /opt/cola/permits/1020252227_1614939438.31/0/jackson-core-asl-1-9-2-sources-
jar/org/codehaus/jackson/Base64Variants.java
* /opt/cola/permits/1020252227_1614939438.31/0/jackson-core-asl-1-9-2-sources-
jar/org/codehaus/jackson/JsonStreamContext.java
* /opt/cola/permits/1020252227_1614939438.31/0/jackson-core-asl-1-9-2-sources-
jar/org/codehaus/jackson/util/ByteArrayBuilder.java
* /opt/cola/permits/1020252227_1614939438.31/0/jackson-core-asl-1-9-2-sources-
jar/org/codehaus/jackson/JsonGenerator.java

```

1.6 Lucene-grouping 8.9.0

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The snowball stemmers in `analysis/common/src/java/net/sf/snowball` were developed by Martin Porter and Richard Boulton.

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The full snowball package is available from <http://snowball.tartarus.org/>

The KStem stemmer in `analysis/common/src/org/apache/lucene/analysis/en` was developed by Bob Krovetz and Sergio Guzman-Lara (CIIR-UMass Amherst) under the BSD-license.

The Arabic,Persian,Romanian,Bulgarian, Hindi and Bengali analyzers (`common`) come with a default stopword list that is BSD-licensed created by Jacques Savoy. These files reside in:
`analysis/common/src/resources/org/apache/lucene/analysis/ar/stopwords.txt`,
`analysis/common/src/resources/org/apache/lucene/analysis/fa/stopwords.txt`,
`analysis/common/src/resources/org/apache/lucene/analysis/ro/stopwords.txt`,

analysis/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/bn/stopwords.txt
See <http://members.unine.ch/jacques.savoy/clef/index.html>.

The German, Spanish, Finnish, French, Hungarian, Italian, Portuguese, Russian and Swedish light stemmers (common) are based on BSD-licensed reference implementations created by Jacques Savoy and Ljiljana Dolamic. These files reside in:

analysis/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/de/GermanMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fin/FinnishLightStemmer.java
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analysis/common/src/java/org/apache/lucene/analysis/ru/RussianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/sv/SwedishLightStemmer.java

The Stempel analyzer (stempel) includes BSD-licensed software developed by the Egothor project <http://egothor.sf.net/>, created by Leo Galambos, Martin Kvapil, and Edmond Nolan.

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1.7 jsr107 1.1.0

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* /opt/cola/permits/1241104348_1639450840.12/0/netty-transport-native-unix-common-4-1-67-final-sources-jar/netty_unix_buffer.h
* /opt/cola/permits/1241104348_1639450840.12/0/netty-transport-native-unix-common-4-1-67-final-sources-jar/netty_unix_buffer.c
* /opt/cola/permits/1241104348_1639450840.12/0/netty-transport-native-unix-common-4-1-67-final-sources-jar/io/netty/channel/unix/PreferredDirectByteBufferAllocator.java

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Found in path(s):

* /opt/cola/permits/1241104348_1639450840.12/0/netty-transport-native-unix-common-4-1-67-final-sources-jar/io/netty/channel/unix/IovArray.java
* /opt/cola/permits/1241104348_1639450840.12/0/netty-transport-native-unix-common-4-1-67-final-sources-jar/io/netty/channel/unix/package-info.java
* /opt/cola/permits/1241104348_1639450840.12/0/netty-transport-native-unix-common-4-1-67-final-sources-jar/io/netty/channel/unix/UnixChannelOption.java
* /opt/cola/permits/1241104348_1639450840.12/0/netty-transport-native-unix-common-4-1-67-final-sources-jar/io/netty/channel/unix/Unix.java

1.9 apache-hadoop-hdfs-client 3.3.1

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sha@2.0.1
URL: <https://github.com/ForbesLindesay/sha.git>

(LGPL-2.0 or MIT)
xmldom@0.1.31
URL: <git://github.com/xmldom/xmldom.git>
VendorName: jindw
VendorUrl: <https://github.com/xmldom/xmldom>

(MIT AND JSON)
jshint@2.10.3
URL: <https://github.com/jshint/jshint.git>
VendorName: Anton Kovalyov
VendorUrl: <http://jshint.com/>

(MIT OR Apache-2.0)
ember-test-helpers@0.5.34
URL: <https://github.com/switchfly/ember-test-helpers.git>

(WTFPL OR MIT)
opener@1.4.3
URL: <https://github.com/domenic/opener.git>
VendorName: Domenic Denicola
VendorUrl: <https://domenic.me/>

path-is-inside@1.0.2
URL: <https://github.com/domenic/path-is-inside.git>
VendorName: Domenic Denicola
VendorUrl: <https://domenic.me>

Apache-2.0
aws-sign2@0.6.0
URL: <https://github.com/mikeal/aws-sign>
VendorName: Mikeal Rogers
VendorUrl: <http://www.futurealooof.com>

aws-sign2@0.7.0
URL: <https://github.com/mikeal/aws-sign>
VendorName: Mikeal Rogers
VendorUrl: <http://www.futurealooof.com>

bser@2.1.1
URL: <https://github.com/facebook/watchman>
VendorName: Wez Furlong
VendorUrl: <https://facebook.github.io/watchman/docs/bser.html>

caseless@0.11.0
URL: <https://github.com/mikeal/caseless>
VendorName: Mikeal Rogers

caseless@0.12.0
URL: <https://github.com/mikeal/caseless>
VendorName: Mikeal Rogers

fb-watchman@2.0.1
URL: <git@github.com:facebook/watchman.git>
VendorName: Wez Furlong

VendorUrl: <https://facebook.github.io/watchman/>
forever-agent@0.6.1
URL: <https://github.com/mikeal/forever-agent>
VendorName: Mikeal Rogers
VendorUrl: <http://www.futurealooof.com>
kew@0.7.0
URL: <https://github.com/Medium/kew.git>
VendorUrl: <https://github.com/Medium/kew>
less@2.7.3
URL: <https://github.com/less/less.js.git>
VendorName: Alexis Sellier
VendorUrl: <http://lesscss.org/>
oauth-sign@0.8.2
URL: <https://github.com/mikeal/oauth-sign>
VendorName: Mikeal Rogers
VendorUrl: <http://www.futurealooof.com>
oauth-sign@0.9.0
URL: <https://github.com/mikeal/oauth-sign>
VendorName: Mikeal Rogers
VendorUrl: <http://www.futurealooof.com>
phantomjs-prebuilt@2.1.13
URL: <git://github.com/Medium/phantomjs.git>
VendorName: Dan Papius
VendorUrl: <https://github.com/Medium/phantomjs>
request@2.65.0
URL: <https://github.com/request/request.git>
VendorName: Mikeal Rogers
request@2.74.0
URL: <https://github.com/request/request.git>
VendorName: Mikeal Rogers
request@2.81.0
URL: <https://github.com/request/request.git>
VendorName: Mikeal Rogers
request@2.88.0
URL: <https://github.com/request/request.git>
VendorName: Mikeal Rogers
spdx-correct@3.1.0
URL: <https://github.com/jslicense/spdx-correct.js.git>
VendorName: Kyle E. Mitchell
VendorUrl: <https://kemitchell.com>
spdx@0.4.3
URL: <https://github.com/kemitchell/spdx.js.git>
VendorName: Kyle E. Mitchell
VendorUrl: <https://github.com/kemitchell/spdx.js>
true-case-path@1.0.3
URL: <git+https://github.com/barsh/true-case-path.git>
VendorName: barsh
VendorUrl: <https://github.com/barsh/true-case-path#readme>

tunnel-agent@0.4.3
URL: <https://github.com/mikeal/tunnel-agent>
VendorName: Mikeal Rogers
VendorUrl: <http://www.futurealoof.com>

tunnel-agent@0.6.0
URL: <https://github.com/mikeal/tunnel-agent>
VendorName: Mikeal Rogers
VendorUrl: <http://www.futurealoof.com>

validate-npm-package-license@3.0.4
URL: <https://github.com/kemitchell/validate-npm-package-license.js.git>
VendorName: Kyle E. Mitchell
VendorUrl: <https://kemitchell.com>

walker@1.0.7
URL: <https://github.com/daaku/nodejs-walker>
VendorName: Naitik Shah
VendorUrl: <https://github.com/daaku/nodejs-walker>

websocket-driver@0.7.3
URL: <git://github.com/faye/websocket-driver-node.git>
VendorName: James Coglan
VendorUrl: <https://github.com/faye/websocket-driver-node>

workerpool@2.3.3
URL: <git://github.com/josdejong/workerpool.git>
VendorName: Jos de Jong
VendorUrl: <https://github.com/josdejong/workerpool>

Apache*

watch@0.10.0
URL: <git://github.com/mikeal/watch.git>
VendorName: Mikeal Rogers
VendorUrl: <https://github.com/mikeal/watch>

Artistic-2.0

npm@2.14.10
URL: <https://github.com/npm/npm>
VendorName: Isaac Z. Schlueter
VendorUrl: <https://docs.npmjs.com/>

BSD

graceful-fs@2.0.3
URL: <git://github.com/isaacs/node-graceful-fs.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me>

mute-stream@0.0.4
URL: <git://github.com/isaacs/mute-stream>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

osenv@0.0.3
URL: <git://github.com/isaacs/osenv>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

tar@1.0.3

URL: [git://github.com/isaacs/node-tar.git](https://github.com/isaacs/node-tar.git)
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

BSD-2-Clause

cmd-shim@2.0.2
URL: <https://github.com/ForbesLindesay/cmd-shim.git>

configstore@1.2.1
URL: <https://github.com/yeoman/configstore.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

domelementtype@1.3.1
URL: [git://github.com/fb55/domelementtype.git](https://github.com/fb55/domelementtype.git)
VendorName: Felix Boehm

domelementtype@2.0.1
URL: [git://github.com/fb55/domelementtype.git](https://github.com/fb55/domelementtype.git)
VendorName: Felix Boehm

domhandler@2.3.0
URL: [git://github.com/fb55/DomHandler.git](https://github.com/fb55/DomHandler.git)
VendorName: Felix Boehm

domutils@1.5.1
URL: [git://github.com/FB55/domutils.git](https://github.com/FB55/domutils.git)
VendorName: Felix Boehm

entities@1.0.0
URL: [git://github.com/fb55/node-entities.git](https://github.com/fb55/node-entities.git)
VendorName: Felix Boehm

entities@1.1.2
URL: [git://github.com/fb55/entities.git](https://github.com/fb55/entities.git)
VendorName: Felix Boehm

entities@2.0.0
URL: [git://github.com/fb55/entities.git](https://github.com/fb55/entities.git)
VendorName: Felix Boehm

esprima@2.7.3
URL: <https://github.com/jquery/esprima.git>
VendorName: Ariya Hidayat
VendorUrl: <http://esprima.org/>

esprima@3.1.3
URL: <https://github.com/jquery/esprima.git>
VendorName: Ariya Hidayat
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esprima@4.0.1
URL: <https://github.com/jquery/esprima.git>
VendorName: Ariya Hidayat
VendorUrl: <http://esprima.org/>

esutils@2.0.3
URL: [http://github.com/estools/esutils.git](https://github.com/estools/esutils.git)
VendorUrl: <https://github.com/estools/esutils>

extract-zip@1.5.0
URL: [git+ssh://git@github.com/maxogden/extract-zip.git](https://github.com/maxogden/extract-zip.git)

VendorName: max ogden
VendorUrl: <https://github.com/maxogden/extract-zip>
github-url-from-username-repo@1.0.2
URL: <git@github.com:robertkowalski/github-url-from-username-repo.git>
VendorName: Robert Kowalski
normalize-package-data@2.3.8
URL: <git://github.com/npm/normalize-package-data.git>
VendorName: Meryn Stol
normalize-package-data@2.5.0
URL: <git://github.com/npm/normalize-package-data.git>
VendorName: Meryn Stol
npm-install-checks@1.0.7
URL: <git://github.com/npm/npm-install-checks.git>
VendorName: Robert Kowalski
VendorUrl: <https://github.com/npm/npm-install-checks>
npm-user-validate@0.1.5
URL: <git://github.com/npm/npm-user-validate.git>
VendorName: Robert Kowalski
regenerator@0.8.40
URL: <git://github.com/facebook/regenerator.git>
VendorName: Ben Newman
VendorUrl: <http://github.com/facebook/regenerator>
regjsparser@0.1.5
URL: <git@github.com:jviereck/regjsparser.git>
VendorName: 'Julian Viereck'
VendorUrl: <https://github.com/jviereck/regjsparser>
uglify-js@2.8.29
URL: <https://github.com/mishoo/UglifyJS2.git>
VendorName: Mihai Bazon
VendorUrl: <http://lisperator.net/uglifyjs>
uri-js@4.2.2
URL: <http://github.com/garycourt/uri-js>
VendorName: Gary Court
VendorUrl: <https://github.com/garycourt/uri-js>
BSD-3-Clause
bcrypt-pbkdf@1.0.2
URL: <git://github.com/joyent/node-bcrypt-pbkdf.git>
boom@2.10.1
URL: <git://github.com/hapijs/boom>
cpr@0.4.2
URL: <http://github.com/davglass/cpr.git>
VendorName: Dav Glass
cryptiles@2.0.5
URL: <git://github.com/hapijs/cryptiles>
hawk@3.1.3
URL: <git://github.com/hueniverse/hawk>
VendorName: Eran Hammer
VendorUrl: <http://hueniverse.com>

hoek@2.16.3
URL: [git://github.com/hapijs/hoek](https://github.com/hapijs/hoek)

js-base64@2.5.1
URL: [git://github.com/dankogai/js-base64.git](https://github.com/dankogai/js-base64.git)
VendorName: Dan Kogai

makeerror@1.0.11
URL: <https://github.com/daaku/nodejs-makeerror>
VendorName: Naitik Shah

printf@0.2.5
URL: <https://github.com/wdavidw/node-printf.git>
VendorName: David Worms
VendorUrl: <http://www.adaltas.com/projects/node-printf>

qs@5.1.0
URL: <https://github.com/hapijs/qs.git>
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qs@5.2.0
URL: <https://github.com/hapijs/qs.git>
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qs@5.2.1
URL: <https://github.com/hapijs/qs.git>
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qs@6.2.3
URL: <https://github.com/ljharb/qs.git>
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qs@6.4.0
URL: <https://github.com/ljharb/qs.git>
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qs@6.5.2
URL: <https://github.com/ljharb/qs.git>
VendorUrl: <https://github.com/ljharb/qs>

qs@6.7.0
URL: <https://github.com/ljharb/qs.git>
VendorUrl: <https://github.com/ljharb/qs>

shelljs@0.3.0
URL: [git://github.com/arturadib/shelljs.git](https://github.com/arturadib/shelljs.git)
VendorName: Artur Adib
VendorUrl: <http://github.com/arturadib/shelljs>

source-map@0.1.32
URL: <http://github.com/mozilla/source-map.git>
VendorName: Nick Fitzgerald
VendorUrl: <https://github.com/mozilla/source-map>

source-map@0.1.43
URL: <http://github.com/mozilla/source-map.git>
VendorName: Nick Fitzgerald
VendorUrl: <https://github.com/mozilla/source-map>

source-map@0.4.4
URL: <http://github.com/mozilla/source-map.git>
VendorName: Nick Fitzgerald

VendorUrl: <https://github.com/mozilla/source-map>
source-map@0.5.7
URL: <http://github.com/mozilla/source-map.git>
VendorName: Nick Fitzgerald
VendorUrl: <https://github.com/mozilla/source-map>
sprintf-js@1.0.3
URL: <https://github.com/alexei/sprintf.js.git>
VendorName: Alexandru Marasteanu
VendorUrl: <http://alexei.ro/>
sprintf-js@1.1.2
URL: <https://github.com/alexei/sprintf.js.git>
VendorName: Alexandru Mrteanu
tmpl@1.0.4
URL: <https://github.com/daaku/nodejs-tmpl>
VendorName: Naitik Shah
VendorUrl: <https://github.com/nshah/nodejs-tmpl>
tough-cookie@2.2.2
URL: <git://github.com/SalesforceEng/tough-cookie.git>
VendorName: Jeremy Stashewsky
VendorUrl: <https://github.com/SalesforceEng/tough-cookie>
tough-cookie@2.3.4
URL: <git://github.com/salesforce/tough-cookie.git>
VendorName: Jeremy Stashewsky
VendorUrl: <https://github.com/salesforce/tough-cookie>
tough-cookie@2.4.3
URL: <git://github.com/salesforce/tough-cookie.git>
VendorName: Jeremy Stashewsky
VendorUrl: <https://github.com/salesforce/tough-cookie>
BSD-3-Clause OR MIT
amdefine@1.0.1
URL: <https://github.com/jrburke/amdefine.git>
VendorName: James Burke
VendorUrl: <http://github.com/jrburke/amdefine>
BSD*
diff@1.4.0
URL: <git://github.com/kpdecker/jsdiff.git>
esprima-fb@12001.1.0-dev-harmony-fb
URL: <http://github.com/facebook/esprima.git>
VendorName: Ariya Hidayat
VendorUrl: <https://github.com/facebook/esprima/tree/fb-harmony>
esprima-fb@15001.1001.0-dev-harmony-fb
URL: <http://github.com/facebook/esprima.git>
VendorName: Ariya Hidayat
VendorUrl: <https://github.com/facebook/esprima/tree/fb-harmony>
json-schema@0.2.3
URL: <http://github.com/kriszyp/json-schema>
VendorName: Kris Zyp
CC-BY-3.0

spdx-exceptions@2.2.0
URL: <https://github.com/kemitchell/spdx-exceptions.json.git>
VendorName: The Linux Foundation

CC0-1.0

spdx-license-ids@3.0.5
URL: <https://github.com/shinnn/spdx-license-ids.git>
VendorName: Shinnosuke Watanabe
VendorUrl: <https://github.com/shinnn>

ISC

abbrev@1.0.9
URL: <http://github.com/isaacs/abbrev-js>
VendorName: Isaac Z. Schlueter

abbrev@1.1.1
URL: <http://github.com/isaacs/abbrev-js>
VendorName: Isaac Z. Schlueter

anymatch@1.3.2
URL: <https://github.com/es128/anymatch>
VendorName: Elan Shanker
VendorUrl: <https://github.com/es128/anymatch>

aproba@1.2.0
URL: <https://github.com/iarna/aproba>
VendorName: Rebecca Turner
VendorUrl: <https://github.com/iarna/aproba>

are-we-there-yet@1.0.6
URL: <https://github.com/iarna/are-we-there-yet.git>
VendorName: Rebecca Turner
VendorUrl: <https://github.com/iarna/are-we-there-yet>

are-we-there-yet@1.1.5
URL: <https://github.com/iarna/are-we-there-yet.git>
VendorName: Rebecca Turner
VendorUrl: <https://github.com/iarna/are-we-there-yet>

async-some@1.0.2
URL: <https://github.com/othiym23/async-some.git>
VendorName: Forrest L Norvell
VendorUrl: <https://github.com/othiym23/async-some>

block-stream@0.0.8
URL: <git://github.com/isaacs/block-stream.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

block-stream@0.0.9
URL: <git://github.com/isaacs/block-stream.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

broccoli-viz@2.0.1
URL: <https://github.com/stefanpenner/broccoli-viz.git>
VendorName: Stefan Penner
VendorUrl: <https://github.com/stefanpenner/broccoli-viz>

char-spinner@1.0.1

URL: [git://github.com/isaacs/char-spinner](https://github.com/isaacs/char-spinner)
VendorName: Isaac Z. Schlueter
VendorUrl: <https://github.com/isaacs/char-spinner>
chmodr@1.0.2
URL: [git://github.com/isaacs/chmodr.git](https://github.com/isaacs/chmodr.git)
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>
chownr@1.0.1
URL: [git://github.com/isaacs/chownr.git](https://github.com/isaacs/chownr.git)
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>
chownr@1.1.3
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VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>
clean-base-url@1.0.0
URL: [git+ssh://git@github.com/stefanpenner/clean-base-url.git](https://github.com/stefanpenner/clean-base-url.git)
VendorName: Stefan Penner
VendorUrl: <https://github.com/stefanpenner/clean-base-url#readme>
cliui@2.1.0
URL: [http://github.com/bcoe/cliui.git](https://github.com/bcoe/cliui.git)
VendorName: Ben Coe
cliui@3.2.0
URL: [http://github.com/yargs/cliui.git](https://github.com/yargs/cliui.git)
VendorName: Ben Coe
console-control-strings@1.1.0
URL: <https://github.com/iarna/console-control-strings>
VendorName: Rebecca Turner
VendorUrl: <http://re-becca.org/>
d@1.0.1
URL: [git://github.com/medikoo/d.git](https://github.com/medikoo/d.git)
VendorName: Mariusz Nowak
VendorUrl: <http://www.medikoo.com/>
dezalgo@1.0.3
URL: <https://github.com/npm/dezalgo>
VendorName: Isaac Z. Schlueter
VendorUrl: <https://github.com/npm/dezalgo>
ember-cli-get-dependency-depth@1.0.0
URL: [git+https://github.com/ember-cli/get-dependency-depth.git](https://github.com/ember-cli/get-dependency-depth.git)
VendorName: ember-cli Contributors
VendorUrl: <https://github.com/ember-cli/get-dependency-depth#readme>
ember-cli-is-package-missing@1.0.0
URL: [git+https://github.com/ember-cli/ember-cli.git](https://github.com/ember-cli/ember-cli.git)
VendorName: ember-cli contributors
VendorUrl: <https://github.com/ember-cli/ember-cli#readme>
ember-cli-normalize-entity-name@1.0.0
URL: [git+https://github.com/ember-cli/ember-cli.git](https://github.com/ember-cli/ember-cli.git)
VendorName: ember-cli contributors

VendorUrl: <https://github.com/ember-cli/ember-cli#readme>
ember-cli-path-utils@1.0.0
URL: [git+https://github.com/ember-cli/ember-cli-path-utils.git](https://github.com/ember-cli/ember-cli-path-utils.git)
VendorName: ember-cli contributors
VendorUrl: <https://github.com/ember-cli/ember-cli-path-utils#readme>
ember-cli-preprocess-registry@1.1.0
URL: [git+https://github.com/ember-cli/ember-cli-preprocessor-registry.git](https://github.com/ember-cli/ember-cli-preprocessor-registry.git)
VendorName: ember-cli Contributors
VendorUrl: <https://github.com/ember-cli/ember-cli-preprocessor-registry#readme>
ember-cli-string-utils@1.1.0
URL: [git+https://github.com/ember-cli/ember-cli-string-utils.git](https://github.com/ember-cli/ember-cli-string-utils.git)
VendorName: ember-cli contributors
VendorUrl: <https://github.com/ember-cli/ember-cli-string-utils#readme>
ember-cli-test-info@1.0.0
URL: [git+https://github.com/ember-cli/ember-cli-test-info.git](https://github.com/ember-cli/ember-cli-test-info.git)
VendorName: ember-cli contributors
VendorUrl: <https://github.com/ember-cli/ember-cli-test-info#readme>
ensure-posix-path@1.1.1
URL: [git+https://github.com/stefanpenner/ensure-posix-path.git](https://github.com/stefanpenner/ensure-posix-path.git)
VendorName: Stefan Penner
VendorUrl: <https://github.com/stefanpenner/ensure-posix-path#readme>
es5-ext@0.10.53
URL: <https://github.com/medikoo/es5-ext.git>
VendorName: Mariusz Nowak
VendorUrl: <http://www.medikoo.com/>
es6-symbol@3.1.3
URL: [git://github.com/medikoo/es6-symbol.git](https://github.com/medikoo/es6-symbol.git)
VendorName: Mariusz Nowak
VendorUrl: <http://www.medikoo.com/>
events-to-array@1.1.2
URL: <https://github.com/isaacs/events-to-array>
VendorName: Isaac Z. Schlueter
VendorUrl: <https://github.com/isaacs/events-to-array>
exists-sync@0.0.3
URL: [git+https://github.com/ember-cli/exists-sync.git](https://github.com/ember-cli/exists-sync.git)
VendorName: Jake Bixby
VendorUrl: <https://github.com/ember-cli/exists-sync#readme>
exists-sync@0.0.4
URL: [git+https://github.com/ember-cli/exists-sync.git](https://github.com/ember-cli/exists-sync.git)
VendorName: Jake Bixby
VendorUrl: <https://github.com/ember-cli/exists-sync#readme>
ext@1.4.0
URL: <https://github.com/medikoo/es5-ext/tree/ext>
VendorName: Mariusz Nowak
VendorUrl: <http://www.medikoo.com/>
fast-ordered-set@1.0.3
fs-monitor-stack@1.1.1
URL: [git+https://github.com/stefanpenner/fs-monitor-stack.git](https://github.com/stefanpenner/fs-monitor-stack.git)

VendorName: Stefan Penner
VendorUrl: <https://github.com/stefanpenner/fs-monitor-stack#readme>
fs-vacuum@1.2.10
URL: <https://github.com/npm/fs-vacuum.git>
VendorName: Forrest L Norvell
VendorUrl: <https://github.com/npm/fs-vacuum>
fs-write-stream-atomic@1.0.10
URL: <https://github.com/npm/fs-write-stream-atomic>
VendorName: Isaac Z. Schlueter
VendorUrl: <https://github.com/npm/fs-write-stream-atomic>
fs.realpath@1.0.0
URL: <git+https://github.com/isaacs/fs.realpath.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>
fstream-ignore@1.0.5
URL: <git://github.com/isaacs/fstream-ignore.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>
fstream-npm@1.0.7
URL: <https://github.com/npm/fstream-npm.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>
fstream@1.0.12
URL: <https://github.com/npm/fstream.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>
gauge@1.2.7
URL: <https://github.com/iarna/gauge>
VendorName: Rebecca Turner
VendorUrl: <https://github.com/iarna/gauge>
gauge@2.7.4
URL: <https://github.com/iarna/gauge>
VendorName: Rebecca Turner
VendorUrl: <https://github.com/iarna/gauge>
get-caller-file@1.0.3
URL: <git+https://github.com/stefanpenner/get-caller-file.git>
VendorName: Stefan Penner
VendorUrl: <https://github.com/stefanpenner/get-caller-file#readme>
glob-parent@2.0.0
URL: <https://github.com/es128/glob-parent>
VendorName: Elan Shanker
VendorUrl: <https://github.com/es128/glob-parent>
glob@4.3.5
URL: <git://github.com/isaacs/node-glob.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>
glob@4.5.3
URL: <git://github.com/isaacs/node-glob.git>

VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>
glob@5.0.13
URL: <git://github.com/isaacs/node-glob.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>
glob@5.0.15
URL: <git://github.com/isaacs/node-glob.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>
glob@6.0.4
URL: <git://github.com/isaacs/node-glob.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>
glob@7.1.6
URL: <git://github.com/isaacs/node-glob.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>
graceful-fs@3.0.12
URL: <git://github.com/isaacs/node-graceful-fs.git>
VendorName: Isaac Z. Schlueter
VendorUrl: http://blog.izs.me
graceful-fs@4.1.15
URL: <https://github.com/isaacs/node-graceful-fs>
graceful-fs@4.2.3
URL: <https://github.com/isaacs/node-graceful-fs>
har-schema@1.0.5
URL: <https://github.com/ahmadnassri/har-schema.git>
VendorName: Ahmad Nassri
VendorUrl: <https://github.com/ahmadnassri/har-schema>
har-schema@2.0.0
URL: <https://github.com/ahmadnassri/har-schema.git>
VendorName: Ahmad Nassri
VendorUrl: <https://github.com/ahmadnassri/har-schema>
har-validator@2.0.6
URL: <https://github.com/ahmadnassri/har-validator.git>
VendorName: Ahmad Nassri
VendorUrl: <https://github.com/ahmadnassri/har-validator>
har-validator@4.2.1
URL: <https://github.com/ahmadnassri/har-validator.git>
VendorName: Ahmad Nassri
VendorUrl: <https://github.com/ahmadnassri/har-validator>
has-binary-data@0.1.3
VendorName: Kevin Roark
has-unicode@2.0.1
URL: <https://github.com/iarna/has-unicode>
VendorName: Rebecca Turner
VendorUrl: <https://github.com/iarna/has-unicode>

hash-for-dep@1.5.1
URL: git+https://github.com/stefanpenner/hash-for-dep.git
VendorName: Stefan Penner
VendorUrl: https://github.com/stefanpenner/hash-for-dep#readme

hosted-git-info@2.1.5
URL: git+https://github.com/npm/hosted-git-info.git
VendorName: Rebecca Turner
VendorUrl: https://github.com/npm/hosted-git-info

hosted-git-info@2.8.5
URL: git+https://github.com/npm/hosted-git-info.git
VendorName: Rebecca Turner
VendorUrl: https://github.com/npm/hosted-git-info

in-publish@2.0.0
URL: https://github.com/iarna/in-publish
VendorName: Rebecca Turner
VendorUrl: https://github.com/iarna/in-publish

inflight@1.0.6
URL: https://github.com/npm/inflight.git
VendorName: Isaac Z. Schlueter
VendorUrl: https://github.com/isaacs/inflight

inherits@2.0.3
URL: git://github.com/isaacs/inherits

inherits@2.0.4
URL: git://github.com/isaacs/inherits

ini@1.3.5
URL: git://github.com/isaacs/ini.git
VendorName: Isaac Z. Schlueter
VendorUrl: http://blog.izs.me/

init-package-json@1.9.6
URL: https://github.com/npm/init-package-json.git
VendorName: Isaac Z. Schlueter
VendorUrl: http://blog.izs.me/

isexe@2.0.0
URL: git+https://github.com/isaacs/isexe.git
VendorName: Isaac Z. Schlueter
VendorUrl: https://github.com/isaacs/isexe#readme

json-stringify-safe@5.0.1
URL: git://github.com/isaacs/json-stringify-safe
VendorName: Isaac Z. Schlueter
VendorUrl: https://github.com/isaacs/json-stringify-safe

lockfile@1.0.4
URL: https://github.com/npm/lockfile.git
VendorName: Isaac Z. Schlueter
VendorUrl: http://blog.izs.me/

lru-cache@2.7.3
URL: git://github.com/isaacs/node-lru-cache.git
VendorName: Isaac Z. Schlueter

lru-cache@4.1.5

URL: [git://github.com/isaacs/node-lru-cache](https://github.com/isaacs/node-lru-cache).git
VendorName: Isaac Z. Schlueter
matcher-collection@1.1.2
URL: [git+https://github.com/stefanpenner/matcher-collection](https://github.com/stefanpenner/matcher-collection).git
VendorName: Stefan Penner
VendorUrl: <https://github.com/stefanpenner/matcher-collection#readme>
minimatch@2.0.10
URL: [git://github.com/isaacs/minimatch](https://github.com/isaacs/minimatch).git
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me>
minimatch@3.0.4
URL: [git://github.com/isaacs/minimatch](https://github.com/isaacs/minimatch).git
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me>
mute-stream@0.0.8
URL: [git://github.com/isaacs/mute-stream](https://github.com/isaacs/mute-stream)
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>
natives@1.1.6
URL: [git+https://github.com/addaleax/natives](https://github.com/addaleax/natives).git
VendorName: Isaac Z. Schlueter
VendorUrl: <https://github.com/addaleax/natives#readme>
node-modules-path@1.0.2
URL: [git+https://github.com/ember-cli/node-modules-path](https://github.com/ember-cli/node-modules-path).git
VendorName: Stefan Penner
VendorUrl: <https://github.com/ember-cli/node-modules-path#readme>
nopt@3.0.6
URL: <https://github.com/npm/nopt>.git
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>
normalize-git-url@3.0.2
URL: <https://github.com/npm/normalize-git-url>.git
VendorName: Forrest L Norvell
VendorUrl: <https://github.com/npm/normalize-git-url>
npm-cache-filename@1.0.2
URL: [git://github.com/npm/npm-cache-filename](https://github.com/npm/npm-cache-filename)
VendorName: Isaac Z. Schlueter
VendorUrl: <https://github.com/npm/npm-cache-filename>
npm-normalize-package-bin@1.0.1
URL: [git+https://github.com/npm/npm-normalize-package-bin](https://github.com/npm/npm-normalize-package-bin)
VendorName: Isaac Z. Schlueter
VendorUrl: <https://izs.me>
npm-package-arg@4.0.2
URL: <https://github.com/npm/npm-package-arg>
VendorName: Isaac Z. Schlueter
VendorUrl: <https://github.com/npm/npm-package-arg>
npm-package-arg@4.2.1
URL: <https://github.com/npm/npm-package-arg>

VendorName: Isaac Z. Schlueter
VendorUrl: <https://github.com/npm/npm-package-arg>
npm-package-arg@5.1.2
URL: <https://github.com/npm/npm-package-arg>
VendorName: Isaac Z. Schlueter
VendorUrl: <https://github.com/npm/npm-package-arg>
npm-registry-client@7.0.9
URL: <https://github.com/npm/npm-registry-client.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>
npmlog@1.2.1
URL: <git://github.com/isaacs/npmlog.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>
npmlog@2.0.4
URL: <https://github.com/npm/npmlog.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>
npmlog@4.1.2
URL: <https://github.com/npm/npmlog.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>
once@1.3.3
URL: <git://github.com/isaacs/once>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>
once@1.4.0
URL: <git://github.com/isaacs/once>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>
osenv@0.1.5
URL: <https://github.com/npm/osenv>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>
path-posix@1.0.0
URL: <git@github.com:jden/node-path-posix.git>
VendorName: jden
pleasant-progress@1.1.0
URL: <https://github.com/stefanpenner/pleasant-progress.git>
VendorName: Stefan Penner
VendorUrl: <https://github.com/stefanpenner/pleasant-progress>
process-relative-require@1.0.0
URL: <git+https://github.com/ember-cli/process-relative-require.git>
VendorName: Stefan Penner
VendorUrl: <https://github.com/ember-cli/process-relative-require#readme>
promzard@0.3.0
URL: <git://github.com/isaacs/promzard>
VendorName: Isaac Z. Schlueter

VendorUrl: <http://blog.izs.me/>
proto-list@1.2.4
URL: <https://github.com/isaacs/proto-list>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>
pseudomap@1.0.2
URL: <git+https://github.com/isaacs/pseudomap.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <https://github.com/isaacs/pseudomap#readme>
read-installed@4.0.3
URL: <git://github.com/isaacs/read-installed>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>
read-package-json@2.0.13
URL: <https://github.com/npm/read-package-json.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>
read-package-json@2.1.1
URL: <https://github.com/npm/read-package-json.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>
read@1.0.7
URL: <git://github.com/isaacs/read.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>
readdir-scoped-modules@1.1.0
URL: <https://github.com/npm/readdir-scoped-modules>
VendorName: Isaac Z. Schlueter
VendorUrl: <https://github.com/npm/readdir-scoped-modules>
realize-package-specifier@3.0.3
URL: <https://github.com/npm/realize-package-specifier.git>
VendorName: Rebecca Turner
VendorUrl: <https://github.com/npm/realize-package-specifier>
remove-trailing-separator@1.1.0
URL: <git+https://github.com/darsain/remove-trailing-separator.git>
VendorName: darsain
VendorUrl: <https://github.com/darsain/remove-trailing-separator#readme>
require-main-filename@1.0.1
URL: <git+ssh://git@github.com/yargs/require-main-filename.git>
VendorName: Ben Coe
VendorUrl: <https://github.com/yargs/require-main-filename#readme>
rimraf@2.4.5
URL: <git://github.com/isaacs/rimraf.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>
rimraf@2.7.1
URL: <git://github.com/isaacs/rimraf.git>
VendorName: Isaac Z. Schlueter

VendorUrl: <http://blog.izs.me/>
semver@4.3.6
URL: <git://github.com/npm/node-semver.git>
semver@5.0.3
URL: <https://github.com/npm/node-semver>
semver@5.3.0
URL: <https://github.com/npm/node-semver>
semver@5.7.1
URL: <https://github.com/npm/node-semver>
set-blocking@2.0.0
URL: <git+https://github.com/yargs/set-blocking.git>
VendorName: Ben Coe
VendorUrl: <https://github.com/yargs/set-blocking#readme>
setprototypeof@1.1.1
URL: <https://github.com/wesleytodd/setprototypeof.git>
VendorName: Wes Todd
VendorUrl: <https://github.com/wesleytodd/setprototypeof>
sigmund@1.0.1
URL: <git://github.com/isaacs/sigmund>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>
signal-exit@3.0.2
URL: <https://github.com/tapjs/signal-exit.git>
VendorName: Ben Coe
VendorUrl: <https://github.com/tapjs/signal-exit>
silent-error@1.1.1
URL: <git+https://github.com/stefanpenner/silent-error.git>
VendorName: Stefan Penner
VendorUrl: <https://github.com/stefanpenner/silent-error#readme>
slide@1.1.6
URL: <git://github.com/isaacs/slide-flow-control.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>
tar@2.2.2
URL: <git://github.com/isaacs/node-tar.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>
timers-ext@0.1.7
URL: <git://github.com/medikoo/timers-ext.git>
VendorName: Mariusz Nowak
VendorUrl: <http://www.medikoo.com/>
tree-sync@1.4.0
URL: <https://github.com/stefanpenner/tree-sync/>
VendorName: Stefan Penner
type@1.2.0
URL: <https://github.com/medikoo/type.git>
VendorName: Mariusz Nowak
VendorUrl: <https://www.medikoo.com/>

type@2.0.0
URL: <https://github.com/medikoo/type.git>
VendorName: Mariusz Nowak
VendorUrl: <https://www.medikoo.com/>

uid-number@0.0.6
URL: <git://github.com/isaacs/uid-number.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

validate-npm-package-name@2.2.2
URL: <https://github.com/npm/validate-npm-package-name>
VendorName: zeke
VendorUrl: <https://github.com/npm/validate-npm-package-name>

validate-npm-package-name@3.0.0
URL: <https://github.com/npm/validate-npm-package-name>
VendorName: zeke
VendorUrl: <https://github.com/npm/validate-npm-package-name>

which-module@1.0.0
URL: <git+https://github.com/nexdrew/which-module.git>
VendorName: nexdrew
VendorUrl: <https://github.com/nexdrew/which-module#readme>

which@1.2.14
URL: <git://github.com/isaacs/node-which.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me>

which@1.3.1
URL: <git://github.com/isaacs/node-which.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me>

wide-align@1.1.3
URL: <https://github.com/iarna/wide-align>
VendorName: Rebecca Turner
VendorUrl: <http://re-becca.org/>

wrappy@1.0.2
URL: <https://github.com/npm/wrappy>
VendorName: Isaac Z. Schlueter
VendorUrl: <https://github.com/npm/wrappy>

write-file-atomic@1.1.4
URL: <git@github.com:iarna/write-file-atomic.git>
VendorName: Rebecca Turner
VendorUrl: <https://github.com/iarna/write-file-atomic>

write-file-atomic@1.3.4
URL: <git@github.com:iarna/write-file-atomic.git>
VendorName: Rebecca Turner
VendorUrl: <https://github.com/iarna/write-file-atomic>

y18n@3.2.2
URL: <git@github.com:yargs/y18n.git>
VendorName: Ben Coe
VendorUrl: <https://github.com/yargs/y18n>

yallist@2.1.2

URL: [git+https://github.com/isaacs/yallist.git](https://github.com/isaacs/yallist)

VendorName: Isaac Z. Schlueter

VendorUrl: <http://blog.izs.me/>

yargs-parser@5.0.0

URL: [git@github.com:yargs/yargs-parser.git](https://github.com/yargs/yargs-parser)

VendorName: Ben Coe

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@sailshq/lodash@3.10.4

URL: [git://github.com/treelinehq/lodash.git](https://github.com/treelinehq/lodash)

VendorName: Mike McNeil

accepts@1.3.7

URL: [https://github.com/jshttp/accepts.git](https://github.com/jshttp/accepts)

acorn@5.7.3

URL: [https://github.com/acornjs/acorn.git](https://github.com/acornjs/acorn)

VendorUrl: <https://github.com/acornjs/acorn>

ajv@4.11.8

URL: [https://github.com/epoberezkin/ajv.git](https://github.com/epoberezkin/ajv)

VendorName: Evgeny Poberezkin

VendorUrl: <https://github.com/epoberezkin/ajv>

ajv@6.10.2

URL: [https://github.com/epoberezkin/ajv.git](https://github.com/epoberezkin/ajv)

VendorName: Evgeny Poberezkin

VendorUrl: <https://github.com/epoberezkin/ajv>

align-text@0.1.4

URL: [git://github.com/jonschlinkert/align-text.git](https://github.com/jonschlinkert/align-text)

VendorName: Jon Schlinkert

VendorUrl: <https://github.com/jonschlinkert/align-text>

alter@0.2.0

URL: [https://github.com/olov/alter.git](https://github.com/olov/alter)

VendorName: Olov Lassus

amd-name-resolver@0.0.2

VendorName: Ember CLI contributors

ansi-regex@0.2.1

URL: [https://github.com/sindresorhus/ansi-regex.git](https://github.com/sindresorhus/ansi-regex)

VendorName: Sindre Sorhus

VendorUrl: <http://sindresorhus.com>

ansi-regex@1.1.1

URL: [https://github.com/sindresorhus/ansi-regex.git](https://github.com/sindresorhus/ansi-regex)

VendorName: Sindre Sorhus

VendorUrl: <http://sindresorhus.com>

ansi-regex@2.1.1

URL: [https://github.com/chalk/ansi-regex.git](https://github.com/chalk/ansi-regex)

VendorName: Sindre Sorhus

VendorUrl: sindresorhus.com

ansi-regex@3.0.0

URL: [https://github.com/chalk/ansi-regex.git](https://github.com/chalk/ansi-regex)

VendorName: Sindre Sorhus

VendorUrl: sindresorhus.com
ansi-styles@1.0.0
URL: git://github.com/sindresorhus/ansi-styles.git
VendorName: Sindre Sorhus
VendorUrl: https://github.com/sindresorhus/ansi-styles
ansi-styles@1.1.0
URL: https://github.com/sindresorhus/ansi-styles.git
VendorName: Sindre Sorhus
VendorUrl: http://sindresorhus.com
ansi-styles@2.2.1
URL: https://github.com/chalk/ansi-styles.git
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
ansi-styles@3.2.1
URL: https://github.com/chalk/ansi-styles.git
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
ansi@0.3.1
URL: git://github.com/TooTallNate/ansi.js.git
VendorName: Nathan Rajlich
VendorUrl: http://tootallnate.net
ansicolors@0.2.1
URL: git://github.com/thlorenz/ansicolors.git
VendorName: Thorsten Lorenz
VendorUrl: thlorenz.com
ansicolors@0.3.2
URL: git://github.com/thlorenz/ansicolors.git
VendorName: Thorsten Lorenz
VendorUrl: thlorenz.com
ansistyles@0.1.3
URL: git://github.com/thlorenz/ansistyles.git
VendorName: Thorsten Lorenz
VendorUrl: thlorenz.com
archy@1.0.0
URL: http://github.com/substack/node-archy.git
VendorName: James Halliday
VendorUrl: http://substack.net
argparse@1.0.10
URL: https://github.com/nodeca/argparse.git
arr-diff@2.0.0
URL: https://github.com/jonschlinkert/arr-diff.git
VendorName: Jon Schlinkert
VendorUrl: https://github.com/jonschlinkert/arr-diff
arr-flatten@1.1.0
URL: https://github.com/jonschlinkert/arr-flatten.git
VendorName: Jon Schlinkert
VendorUrl: https://github.com/jonschlinkert/arr-flatten
array-equal@1.0.0

URL: <https://github.com/component/array-equal.git>
VendorName: Jonathan Ong
VendorUrl: <http://jongleberry.com>

array-find-index@1.0.2
URL: <https://github.com/sindresorhus/array-find-index.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

array-flatten@1.1.1
URL: [git://github.com/blakeembrey/array-flatten.git](https://github.com/blakeembrey/array-flatten.git)
VendorName: Blake Embrey
VendorUrl: <https://github.com/blakeembrey/array-flatten>

array-index@1.0.0
URL: [git://github.com/TooTallNate/array-index.git](https://github.com/TooTallNate/array-index.git)
VendorName: Nathan Rajlich
VendorUrl: <http://tootallnate.net>

array-unique@0.2.1
URL: [git://github.com/jonschlinkert/array-unique.git](https://github.com/jonschlinkert/array-unique.git)
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/array-unique>

arraybuffer.slice@0.0.6
URL: [git@github.com:rase-/arraybuffer.slice.git](https://github.com/rase-/arraybuffer.slice.git)
VendorUrl: <https://github.com/rase-/arraybuffer.slice>

asap@2.0.6
URL: <https://github.com/krisKowal/asap.git>

asn1@0.1.11
URL: [git://github.com/mcavage/node-asn1.git](https://github.com/mcavage/node-asn1.git)
VendorName: Mark Cavage

asn1@0.2.4
URL: [git://github.com/joyent/node-asn1.git](https://github.com/joyent/node-asn1.git)
VendorName: Joyent
VendorUrl: joyent.com

assert-plus@0.2.0
URL: <https://github.com/mcavage/node-assert-plus.git>
VendorName: Mark Cavage

assert-plus@1.0.0
URL: <https://github.com/mcavage/node-assert-plus.git>
VendorName: Mark Cavage

ast-traverse@0.1.1
URL: <https://github.com/olov/ast-traverse.git>
VendorName: Olov Lassus

ast-types@0.8.12
URL: [git://github.com/benjamn/ast-types.git](https://github.com/benjamn/ast-types.git)
VendorName: Ben Newman
VendorUrl: <http://github.com/benjamn/ast-types>

ast-types@0.8.15
URL: [git://github.com/benjamn/ast-types.git](https://github.com/benjamn/ast-types.git)
VendorName: Ben Newman
VendorUrl: <http://github.com/benjamn/ast-types>

ast-types@0.9.6
URL: [git://github.com/benjamn/ast-types.git](https://github.com/benjamn/ast-types.git)
VendorName: Ben Newman
VendorUrl: <http://github.com/benjamn/ast-types>

async-disk-cache@1.3.5
URL: <https://github.com/stefanpenner/async-disk-cache.git>
VendorName: Stefan Penner

async-promise-queue@1.0.5
URL: <https://github.com/stefanpenner/async-promise-queue>
VendorName: Stefan Penner

async@0.2.10
URL: <https://github.com/caolan/async.git>
VendorName: Caolan McMahon

async@0.8.0
URL: <https://github.com/caolan/async.git>
VendorName: Caolan McMahon

async@0.9.0
URL: <https://github.com/caolan/async.git>
VendorName: Caolan McMahon

async@1.5.2
URL: <https://github.com/caolan/async.git>
VendorName: Caolan McMahon

async@2.6.3
URL: <https://github.com/caolan/async.git>
VendorName: Caolan McMahon
VendorUrl: <https://caolan.github.io/async/>

asynckit@0.4.0
URL: [git+https://github.com/alexindigo/asynckit.git](https://github.com/alexindigo/asynckit.git)
VendorName: Alex Indigo
VendorUrl: <https://github.com/alexindigo/asynckit#readme>

aws4@1.9.0
URL: <https://github.com/mhart/aws4.git>
VendorName: Michael Hart
VendorUrl: <http://github.com/mhart>

babel-core@5.8.38
URL: <https://github.com/babel/babel.git>
VendorName: Sebastian McKenzie
VendorUrl: <https://babeljs.io/>

babel-plugin-constant-folding@1.0.1
URL: <https://github.com/babel-plugins/babel-plugin-constant-folding.git>

babel-plugin-dead-code-elimination@1.0.2
URL: <https://github.com/babel-plugins/babel-plugin-dead-code-elimination.git>

babel-plugin-eval@1.0.1
URL: <https://github.com/babel-plugins/babel-plugin-eval.git>

babel-plugin-htmlbars-inline-precompile@0.0.5
URL: <https://github.com/pangratz/babel-plugin-htmlbars-inline-precompile>
VendorName: Clemens Miller

babel-plugin-inline-environment-variables@1.0.1

URL: <https://github.com/babel-plugins/babel-plugin-inline-environment-variables.git>
babel-plugin-jscript@1.0.4
URL: <https://github.com/babel-plugins/babel-plugin-jscript.git>
babel-plugin-member-expression-literals@1.0.1
URL: <https://github.com/babel-plugins/babel-plugin-member-expression-literals.git>
babel-plugin-property-literals@1.0.1
URL: <https://github.com/babel-plugins/babel-plugin-property-literals.git>
babel-plugin-proto-to-assign@1.0.4
URL: <https://github.com/babel-plugins/babel-plugin-proto-to-assign.git>
babel-plugin-react-constant-elements@1.0.3
URL: <https://github.com/babel-plugins/babel-plugin-react-constant-elements.git>
babel-plugin-react-display-name@1.0.3
URL: <https://github.com/babel-plugins/babel-plugin-react-display-name.git>
babel-plugin-remove-console@1.0.1
URL: <https://github.com/babel-plugins/babel-plugin-remove-console.git>
babel-plugin-remove-debugger@1.0.1
URL: <https://github.com/babel-plugins/babel-plugin-remove-debugger.git>
babel-plugin-runtime@1.0.7
URL: <https://github.com/babel-plugins/babel-plugin-runtime.git>
babel-plugin-undeclared-variables-check@1.0.2
URL: <https://github.com/babel-plugins/babel-plugin-undeclared-variables-check.git>
babel-plugin-undefined-to-void@1.1.6
URL: <https://github.com/babel-plugins/babel-plugin-undefined-to-void.git>
babylon@5.8.38
URL: <https://github.com/babel/babel.git>
VendorName: Sebastian McKenzie
VendorUrl: <https://babeljs.io/>
backbone@1.4.0
URL: <https://github.com/jashkenas/backbone.git>
VendorName: Jeremy Ashkenas
backo2@1.0.2
URL: <https://github.com/mokesmokes/backo.git>
balanced-match@1.0.0
URL: <git://github.com/juliangruber/balanced-match.git>
VendorName: Julian Gruber
VendorUrl: <https://github.com/juliangruber/balanced-match>
base64-arraybuffer@0.1.2
URL: <https://github.com/niklasvh/base64-arraybuffer>
VendorName: Niklas von Hertzen
VendorUrl: <https://github.com/niklasvh/base64-arraybuffer>
basic-auth@2.0.1
URL: <https://github.com/jshttp/basic-auth.git>
benchmark@1.0.0
URL: <https://github.com/bestiejs/benchmark.js.git>
VendorName: Mathias Bynens
VendorUrl: <http://benchmarkjs.com/>
better-assert@1.0.2
URL: <https://github.com/visionmedia/better-assert.git>

VendorName: TJ Holowaychuk
binaryextensions@2.2.0
URL: <https://github.com/bevry/binaryextensions.git>
VendorName: 2013+ Bevry Pty Ltd
VendorUrl: <https://github.com/bevry/binaryextensions>
bl@1.0.3
URL: <https://github.com/rvagg/bl.git>
VendorUrl: <https://github.com/rvagg/bl>
bl@1.1.2
URL: <https://github.com/rvagg/bl.git>
VendorUrl: <https://github.com/rvagg/bl>
blank-object@1.0.2
URL: <git+https://github.com/stefanpenner/blank-object.git>
VendorName: Stefan Penner
VendorUrl: <https://github.com/stefanpenner/blank-object#readme>
bluebird@2.11.0
URL: <git://github.com/petkaantonov/bluebird.git>
VendorName: Petka Antonov
VendorUrl: <https://github.com/petkaantonov/bluebird>
body-parser@1.14.2
URL: <https://github.com/expressjs/body-parser.git>
body-parser@1.19.0
URL: <https://github.com/expressjs/body-parser.git>
bower-config@0.6.1
URL: <git://github.com/bower/config.git>
VendorName: Twitter
VendorUrl: <http://bower.io/>
bower-endpoint-parser@0.2.2
URL: <git://github.com/bower/endpoint-parser.git>
VendorName: Twitter
bower-shrinkwrap-resolver-ext@0.1.0
URL: <https://github.com/sreenaths/bower-shrinkwrap-resolver-ext>
bower@1.8.8
URL: <https://github.com/bower/bower.git>
VendorName: Twitter
VendorUrl: <http://bower.io/>
brace-expansion@1.1.11
URL: <git://github.com/juliangruber/brace-expansion.git>
VendorName: Julian Gruber
VendorUrl: <https://github.com/juliangruber/brace-expansion>
braces@1.8.5
URL: <https://github.com/jonschlinkert/braces.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/braces>
breakable@1.0.0
URL: <https://github.com/olov/breakable.git>
VendorName: Olov Lassus
broccoli-asset-rev@2.4.2

URL: [git://github.com/rickharrison/broccoli-asset-rewrite](https://github.com/rickharrison/broccoli-asset-rewrite)
VendorName: Rick Harrison
VendorUrl: <https://github.com/rickharrison/broccoli-asset-rewrite>
broccoli-asset-rewrite@1.1.0
URL: [git://github.com/rickharrison/broccoli-asset-rewrite](https://github.com/rickharrison/broccoli-asset-rewrite)
VendorName: Rick Harrison
VendorUrl: <https://github.com/rickharrison/broccoli-asset-rewrite>
broccoli-babel-transpiler@5.7.4
URL: <https://github.com/babel/broccoli-babel-transpiler>.git
VendorName: nightire
VendorUrl: <https://github.com/babel/broccoli-babel-transpiler>
broccoli-caching-writer@2.3.1
URL: <https://github.com/ember-cli/broccoli-caching-writer>.git
VendorName: Robert Jackson
broccoli-caching-writer@3.0.3
URL: <https://github.com/ember-cli/broccoli-caching-writer>.git
VendorName: Robert Jackson
broccoli-clean-css@0.2.0
URL: <https://github.com/shinnnn/broccoli-clean-css>.git
VendorName: Shinnosuke Watanabe
VendorUrl: <https://github.com/shinnnn/broccoli-clean-css>
broccoli-config-loader@1.0.1
URL: [git+https://github.com/ember-cli/broccoli-config-loader](https://github.com/ember-cli/broccoli-config-loader).git
VendorName: yaymukund
VendorUrl: <https://github.com/ember-cli/broccoli-config-loader#readme>
broccoli-config-replace@1.1.2
URL: <https://github.com/ember-cli/broccoli-config-replace>
VendorName: yaymukund
VendorUrl: <https://github.com/ember-cli/broccoli-config-replace#readme>
broccoli-debug@0.6.5
URL: <https://github.com/broccolijs/broccoli-debug>.git
VendorName: Robert Jackson
VendorUrl: [http:](http://)
broccoli-filter@0.1.14
URL: <https://github.com/broccolijs/broccoli-filter>
VendorName: Jo Liss
broccoli-filter@1.3.0
URL: <https://github.com/broccolijs/broccoli-filter>
broccoli-funnel@1.0.1
URL: <https://github.com/broccolijs/broccoli-funnel>.git
VendorName: Robert Jackson
broccoli-funnel@1.2.0
URL: <https://github.com/broccolijs/broccoli-funnel>.git
VendorName: Robert Jackson
broccoli-funnel@2.0.2
URL: <https://github.com/broccolijs/broccoli-funnel>.git
VendorName: Robert Jackson
broccoli-jshint@1.2.0

URL: <https://github.com/rwjblue/broccoli-jshint.git>
VendorName: Robert Jackson
broccoli-kitchen-sink-helpers@0.2.9
URL: <https://github.com/broccolijs/broccoli-kitchen-sink-helpers>
VendorName: Jo Liss
broccoli-kitchen-sink-helpers@0.3.1
URL: <https://github.com/broccolijs/broccoli-kitchen-sink-helpers>
VendorName: Jo Liss
broccoli-less-single@0.6.4
URL: <https://github.com/gabrielgrant/broccoli-less-single>
VendorName: Gabriel Grant
VendorUrl: <https://github.com/gabrielgrant/broccoli-less-single>
broccoli-merge-trees@1.1.1
URL: <https://github.com/broccolijs/broccoli-merge-trees>
VendorName: Jo Liss
broccoli-merge-trees@1.2.4
URL: <https://github.com/broccolijs/broccoli-merge-trees>
VendorName: Jo Liss
broccoli-merge-trees@2.0.1
URL: <https://github.com/broccolijs/broccoli-merge-trees>
VendorName: Jo Liss
broccoli-persistent-filter@1.4.6
URL: <git+https://github.com/stefanpenner/broccoli-persistent-filter.git>
VendorName: Stefan Penner
VendorUrl: <https://github.com/stefanpenner/broccoli-persistent-filter#readme>
broccoli-plugin@1.1.0
URL: <https://github.com/broccolijs/broccoli-plugin>
VendorName: Jo Liss
broccoli-plugin@1.3.1
URL: <https://github.com/broccolijs/broccoli-plugin>
VendorName: Jo Liss
broccoli-sane-watcher@1.1.5
URL: <https://github.com/broccolijs/broccoli-sane-watcher.git>
VendorName: Kris Selden
VendorUrl: <https://github.com/broccolijs/broccoli-sane-watcher>
broccoli-sass-source-maps@2.2.0
URL: <https://github.com/aexmachina/broccoli-sass-source-maps>
VendorName: Jo Liss
broccoli-slow-trees@1.1.0
URL: <https://github.com/rwjblue/broccoli-slow-trees.git>
VendorName: Robert Jackson
VendorUrl: <https://github.com/rwjblue/broccoli-slow-trees>
broccoli-source@1.1.0
URL: <https://github.com/broccolijs/broccoli-source>
VendorName: Jo Liss
broccoli-sourcemap-concat@1.1.6
URL: <https://github.com/ef4/broccoli-sourcemap-concat>
VendorName: Edward Faulkner

broccoli-sourcemap-concat@2.0.2
URL: <https://github.com/ef4/broccoli-sourcemap-concat>
VendorName: Edward Faulkner

broccoli-sri-hash@1.2.2
URL: <https://github.com/jonathanKingston/broccoli-sri-hash.git>
VendorName: Jonathan Kingston

broccoli-stew@1.6.0
URL: <https://github.com/stefanpenner/broccoli-stew.git>
VendorName: Stefan Penner & Robert Jackson
VendorUrl: <https://github.com/stefanpenner/broccoli-stew>

broccoli-uglify-sourcemap@1.5.2
URL: <git+https://github.com/ember-cli/broccoli-uglify-sourcemap.git>
VendorName: Edward Faulkner
VendorUrl: <https://github.com/ember-cli/broccoli-uglify-sourcemap#readme>

broccoli-unwatched-tree@0.1.3
URL: <https://github.com/rjackson/broccoli-unwatched-tree.git>
VendorName: Robert Jackson

broccoli-writer@0.1.1
URL: <https://github.com/joliss/broccoli-writer>
VendorName: Jo Liss

broccoli@0.16.8
URL: <https://github.com/broccolijs/broccoli>
VendorName: Jo Liss
VendorUrl: <https://github.com/broccolijs/broccoli>

buffer-from@1.1.1
URL: <https://github.com/LinusU/buffer-from.git>

builtin-modules@1.1.1
URL: <https://github.com/sindresorhus/builtin-modules.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

builtins@0.0.7
URL: <https://github.com/juliangruber/builtins.git>

builtins@1.0.3
URL: <https://github.com/juliangruber/builtins.git>

bytes@2.2.0
URL: <https://github.com/visionmedia/bytes.js.git>
VendorName: TJ Holowaychuk
VendorUrl: <http://tjholowaychuk.com>

bytes@2.4.0
URL: <https://github.com/visionmedia/bytes.js.git>
VendorName: TJ Holowaychuk
VendorUrl: <http://tjholowaychuk.com>

bytes@3.0.0
URL: <https://github.com/visionmedia/bytes.js.git>
VendorName: TJ Holowaychuk
VendorUrl: <http://tjholowaychuk.com>

bytes@3.1.0
URL: <https://github.com/visionmedia/bytes.js.git>

VendorName: TJ Holowaychuk
VendorUrl: <http://tjholowaychuk.com>
camelcase-keys@2.1.0
URL: <https://github.com/sindresorhus/camelcase-keys.git>
VendorName: Sindre Sorhus
VendorUrl: <http://sindresorhus.com>
camelcase@1.2.1
URL: <https://github.com/sindresorhus/camelcase.git>
VendorName: Sindre Sorhus
VendorUrl: <http://sindresorhus.com>
camelcase@2.1.1
URL: <https://github.com/sindresorhus/camelcase.git>
VendorName: Sindre Sorhus
VendorUrl: <http://sindresorhus.com>
camelcase@3.0.0
URL: <https://github.com/sindresorhus/camelcase.git>
VendorName: Sindre Sorhus
VendorUrl: <http://sindresorhus.com>
can-symlink@1.0.0
URL: <https://github.com/raytiley/can-symlink>
VendorName: raytiley
cardinal@0.5.0
URL: <git://github.com/thlorenz/cardinal.git>
VendorName: Thorsten Lorenz
VendorUrl: thlorenz.com
center-align@0.1.3
URL: <https://github.com/jonschlinkert/center-align.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/center-align>
chalk@0.4.0
URL: <https://github.com/sindresorhus/chalk.git>
VendorName: Sindre Sorhus
VendorUrl: <http://sindresorhus.com>
chalk@0.5.1
URL: <https://github.com/sindresorhus/chalk.git>
chalk@1.1.0
URL: <https://github.com/chalk/chalk.git>
chalk@1.1.3
URL: <https://github.com/chalk/chalk.git>
chalk@2.4.2
URL: <https://github.com/chalk/chalk.git>
charm@1.0.2
URL: <http://github.com/substack/node-charm.git>
VendorName: James Halliday
VendorUrl: <http://substack.net>
clean-css@2.2.23
URL: <https://github.com/GoalSmashers/clean-css.git>
VendorName: Jakub Pawlowicz

VendorUrl: <https://github.com/GoalSmashers/clean-css>
cli-color@0.3.3
URL: <git://github.com/medikoo/cli-color.git>
VendorName: Mariusz Nowak
VendorUrl: <http://www.medikoo.com/>

cli-table@0.3.1
URL: <https://github.com/Automattic/cli-table.git>
VendorName: Guillermo Rauch

cli@1.0.1
URL: <http://github.com/node-js-libs/cli.git>
VendorName: Chris O'Hara
VendorUrl: <http://github.com/node-js-libs/cli>

clone@0.2.0
URL: <git://github.com/pvorb/node-clone.git>
VendorName: Paul Vorbach
VendorUrl: <http://paul.vorba.ch/>

clone@1.0.4
URL: <git://github.com/pvorb/node-clone.git>
VendorName: Paul Vorbach
VendorUrl: <http://paul.vorba.ch/>

clone@2.1.2
URL: <git://github.com/pvorb/node-clone.git>
VendorName: Paul Vorbach
VendorUrl: <http://paul.vorba.ch/>

co@4.6.0
URL: <https://github.com/tj/co.git>

code-point-at@1.1.0
URL: <https://github.com/sindresorhus/code-point-at.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

color-convert@1.9.3
URL: <https://github.com/Qix-/color-convert.git>
VendorName: Heather Arthur

color-name@1.1.3
URL: <git@github.com:dfcreative/color-name.git>
VendorName: DY
VendorUrl: <https://github.com/dfcreative/color-name>

colors@1.0.3
URL: <http://github.com/Marak/colors.js.git>
VendorName: Marak Squires
VendorUrl: <https://github.com/Marak/colors.js>

columnify@1.5.4
URL: <git://github.com/timoxley/columnify.git>
VendorName: Tim Oxley
VendorUrl: <https://github.com/timoxley/columnify>

combined-stream@1.0.8
URL: <git://github.com/felixge/node-combined-stream.git>
VendorName: Felix Geisendrfer

VendorUrl: <https://github.com/felixge/node-combined-stream>
commander@2.1.0
URL: <https://github.com/visionmedia/commander.js.git>
VendorName: TJ Holowaychuk
commander@2.2.0
URL: <https://github.com/visionmedia/commander.js.git>
VendorName: TJ Holowaychuk
commander@2.20.3
URL: <https://github.com/tj/commander.js.git>
VendorName: TJ Holowaychuk
commoner@0.10.8
URL: <git://github.com/benjamn/commoner.git>
VendorName: Ben Newman
VendorUrl: <http://github.com/benjamn/commoner>
compressible@2.0.17
URL: <https://github.com/jshttp/compressible.git>
compression@1.7.4
URL: <https://github.com/expressjs/compression.git>
concat-map@0.0.1
URL: <git://github.com/substack/node-concat-map.git>
VendorName: James Halliday
VendorUrl: <http://substack.net>
concat-stream@1.5.0
URL: <http://github.com/maxogden/concat-stream.git>
VendorName: Max Ogden
concat-stream@1.6.2
URL: <http://github.com/maxogden/concat-stream.git>
VendorName: Max Ogden
config-chain@1.1.12
URL: <https://github.com/dominictarr/config-chain.git>
VendorName: Dominic Tarr
VendorUrl: <http://github.com/dominictarr/config-chain>
connect@3.7.0
URL: <https://github.com/senchalabs/connect.git>
VendorName: TJ Holowaychuk
VendorUrl: <http://tjholowaychuk.com>
console-browserify@1.1.0
URL: <git://github.com/Raynos/console-browserify.git>
VendorName: Raynos
VendorUrl: <https://github.com/Raynos/console-browserify>
consolidate@0.13.1
URL: <https://github.com/visionmedia/consolidate.js.git>
VendorName: TJ Holowaychuk
content-disposition@0.5.3
URL: <https://github.com/jshttp/content-disposition.git>
VendorName: Douglas Christopher Wilson
content-type@1.0.4
URL: <https://github.com/jshttp/content-type.git>

VendorName: Douglas Christopher Wilson
convert-source-map@1.7.0
URL: [git://github.com/thlorenz/convert-source-map.git](https://github.com/thlorenz/convert-source-map)
VendorName: Thorsten Lorenz
VendorUrl: <https://github.com/thlorenz/convert-source-map>
cookie-signature@1.0.6
URL: [https://github.com/visionmedia/node-cookie-signature.git](https://github.com/visionmedia/node-cookie-signature)
VendorName: TJ Holowaychuk
cookie@0.4.0
URL: [https://github.com/jshttp/cookie.git](https://github.com/jshttp/cookie)
VendorName: Roman Shtylman
copy-dereference@1.0.0
URL: <https://github.com/broccolijs/node-copy-dereference>
VendorName: Jo Liss
core-js@1.2.7
URL: [https://github.com/zloirock/core-js.git](https://github.com/zloirock/core-js)
core-object@0.0.2
URL: [https://github.com/stefanpenner/core_object.git](https://github.com/stefanpenner/core_object)
VendorName: Ember core team and ember cli contributors
VendorUrl: https://github.com/stefanpenner/core_object
core-util-is@1.0.2
URL: [git://github.com/isaacs/core-util-is](https://github.com/isaacs/core-util-is)
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>
cross-spawn-async@2.2.5
URL: [git://github.com/IndigoUnited/node-cross-spawn-async.git](https://github.com/IndigoUnited/node-cross-spawn-async)
VendorName: IndigoUnited
VendorUrl: <http://indigounited.com>
cross-spawn@3.0.1
URL: [git://github.com/IndigoUnited/node-cross-spawn.git](https://github.com/IndigoUnited/node-cross-spawn)
VendorName: IndigoUnited
VendorUrl: <http://indigounited.com>
ctype@0.5.3
URL: [https://github.com/rmustacc/node-ctype.git](https://github.com/rmustacc/node-ctype)
VendorName: Robert Mustacchi
VendorUrl: <https://github.com/rmustacc/node-ctype>
currently-unhandled@0.4.1
URL: [https://github.com/jamestalmage/currently-unhandled.git](https://github.com/jamestalmage/currently-unhandled)
VendorName: James Talmage
VendorUrl: github.com/jamestalmage
d@0.1.1
URL: [git://github.com/medikoo/d.git](https://github.com/medikoo/d)
VendorName: Mariusz Nowak
VendorUrl: <http://www.medikoo.com/>
dashdash@1.14.1
URL: [git://github.com/trentm/node-dashdash.git](https://github.com/trentm/node-dashdash)
VendorName: Trent Mick
VendorUrl: <http://trentm.com>

date-now@0.1.4
URL: [git://github.com/Colingo/date-now.git](https://github.com/Colingo/date-now.git)
VendorName: Raynos
VendorUrl: <https://github.com/Colingo/date-now>

debug@0.7.4
URL: [git://github.com/visionmedia/debug.git](https://github.com/visionmedia/debug.git)
VendorName: TJ Holowaychuk

debug@1.0.2
URL: [git://github.com/visionmedia/debug.git](https://github.com/visionmedia/debug.git)
VendorName: TJ Holowaychuk

debug@1.0.3
URL: [git://github.com/visionmedia/debug.git](https://github.com/visionmedia/debug.git)
VendorName: TJ Holowaychuk

debug@1.0.4
URL: [git://github.com/visionmedia/debug.git](https://github.com/visionmedia/debug.git)
VendorName: TJ Holowaychuk

debug@2.1.0
URL: [git://github.com/visionmedia/debug.git](https://github.com/visionmedia/debug.git)
VendorName: TJ Holowaychuk

debug@2.2.0
URL: [git://github.com/visionmedia/debug.git](https://github.com/visionmedia/debug.git)
VendorName: TJ Holowaychuk

debug@2.6.9
URL: [git://github.com/visionmedia/debug.git](https://github.com/visionmedia/debug.git)
VendorName: TJ Holowaychuk

debug@3.2.6
URL: [git://github.com/visionmedia/debug.git](https://github.com/visionmedia/debug.git)
VendorName: TJ Holowaychuk

debuglog@1.0.1
URL: <https://github.com/sam-github/node-debuglog.git>
VendorName: Sam Roberts

decamelize@1.2.0
URL: <https://github.com/sindresorhus/decamelize.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

defaults@1.0.3
URL: [git://github.com/tmpvar/defaults.git](https://github.com/tmpvar/defaults.git)
VendorName: Elijah Insua

defined@1.0.0
URL: [git://github.com/substack/defined.git](https://github.com/substack/defined.git)
VendorName: James Halliday
VendorUrl: <https://github.com/substack/defined>

defs@1.1.1
URL: <https://github.com/olov/defs.git>
VendorName: Olov Lassus

delayed-stream@1.0.0
URL: [git://github.com/felixge/node-delayed-stream.git](https://github.com/felixge/node-delayed-stream.git)
VendorName: Felix Geisendrfer

VendorUrl: <https://github.com/felixge/node-delayed-stream>
delegates@1.0.0
URL: <https://github.com/visionmedia/node-delegates.git>
depd@1.1.2
URL: <https://github.com/dougwilson/nodejs-depd.git>
VendorName: Douglas Christopher Wilson
destroy@1.0.4
URL: <https://github.com/stream-utils/destroy.git>
VendorName: Jonathan Ong
VendorUrl: <http://jongleberry.com>
detect-indent@3.0.1
URL: <https://github.com/sindresorhus/detect-indent.git>
VendorName: Sindre Sorhus
VendorUrl: <http://sindresorhus.com>
detective@4.7.1
URL: <git://github.com/browserify/detective.git>
VendorName: James Halliday
VendorUrl: <http://substack.net>
did_it_work@0.0.6
VendorName: Toby Ho
dom-serializer@0.2.2
URL: <git://github.com/cheeriojs/dom-renderer.git>
VendorName: Felix Boehm
ecc-jsbn@0.1.2
URL: <https://github.com/quartzjer/ecc-jsbn.git>
VendorName: Jeremie Miller
VendorUrl: <https://github.com/quartzjer/ecc-jsbn>
editions@1.3.4
URL: <https://github.com/bevry/editions.git>
VendorName: 2016+ Bevry Pty Ltd
VendorUrl: <https://github.com/bevry/editions>
editor@1.0.0
URL: <git://github.com/substack/node-editor.git>
VendorName: James Halliday
VendorUrl: <https://github.com/substack/node-editor>
ee-first@1.1.1
URL: <https://github.com/jonathanong/ee-first.git>
VendorName: Jonathan Ong
VendorUrl: <http://jongleberry.com>
em-helpers@0.8.0
URL: <https://github.com/sreenaths/em-helpers.git>
VendorName: Sreenath Somarajapuram
em-table@0.12.0
URL: <https://github.com/sreenaths/em-table.git>
VendorName: Sreenath Somarajapuram
ember-array-contains-helper@1.0.2
URL: <https://github.com/bmeurant/ember-array-contains-helper>
VendorName: Baptiste Meurant

ember-bootstrap@0.5.1
URL: <https://github.com/kaliber5/ember-bootstrap>
VendorName: Simon Ihmig
VendorUrl: <http://kaliber5.github.io/ember-bootstrap/>

ember-cli-app-version@1.0.0
URL: <https://github.com/embersherpa/ember-cli-app-version.git>
VendorName: Taras Mankovski

ember-cli-babel@5.1.6
URL: <git://github.com/babel/ember-cli-babel.git>
VendorName: Gordon Kristan
VendorUrl: <https://github.com/babel/ember-cli-babel>

ember-cli-babel@5.2.8
URL: <git://github.com/babel/ember-cli-babel.git>
VendorName: Gordon Kristan

ember-cli-content-security-policy@0.4.0
URL: <https://github.com/rwjblue/ember-cli-content-security-policy>

ember-cli-copy-dereference@1.0.0
URL: <https://github.com/broccolij/s/node-copy-dereference>
VendorName: Jo Liss

ember-cli-dependency-checker@1.2.0
URL: <https://github.com/quaertym/ember-cli-dependency-checker.git>
VendorName: Emre Unal

ember-cli-htmlbars-inline-precompile@0.3.1
URL: <https://github.com/pangratz/ember-cli-htmlbars-inline-precompile>
VendorName: Clemens Miller

ember-cli-htmlbars@0.7.6
URL: <git@github.com:ember-cli/ember-cli-htmlbars.git>
VendorName: Jonathan Jackson & Chase McCarthy
VendorUrl: <https://github.com/ember-cli/ember-cli-htmlbars>

ember-cli-htmlbars@1.0.2
URL: <git@github.com:ember-cli/ember-cli-htmlbars.git>
VendorName: Jonathan Jackson & Chase McCarthy
VendorUrl: <https://github.com/ember-cli/ember-cli-htmlbars>

ember-cli-htmlbars@1.3.5
URL: <git@github.com:ember-cli/ember-cli-htmlbars.git>
VendorName: Jonathan Jackson & Chase McCarthy
VendorUrl: <https://github.com/ember-cli/ember-cli-htmlbars>

ember-cli-ic-ajax@0.2.1
URL: <https://github.com/rjackson/ember-cli-ic-ajax>
VendorName: Robert Jackson
VendorUrl: <https://github.com/rjackson/ember-cli-ic-ajax>

ember-cli-inject-live-reload@1.4.0
URL: <git://github.com/rwjblue/ember-cli-inject-live-reload.git>
VendorName: Robert Jackson
VendorUrl: <https://github.com/rwjblue/ember-cli-inject-live-reload>

ember-cli-jquery-ui@0.0.20
URL: <https://github.com/gaurav0/ember-cli-jquery-ui>
VendorName: Gaurav Munjal

ember-cli-less@1.5.7
URL: <https://github.com/gdub22/ember-cli-less>
VendorName: Garth Poitras

ember-cli-moment-shim@0.7.3
URL: <git://github.com/jasonmit/ember-cli-moment-shim.git>
VendorName: Jason Mitchell
VendorUrl: <https://github.com/jasonmit/ember-cli-moment-shim>

ember-cli-node-assets@0.1.6
URL: <https://github.com/dfreeman/ember-cli-node-assets.git>
VendorName: Dan Freeman

ember-cli-numeral@0.2.0
URL: <http://github.com/josemarluedke/ember-cli-numeral>
VendorName: Jay Phelps
VendorUrl: <https://github.com/josemarluedke/ember-cli-numeral>

ember-cli-qunit@1.2.1
URL: <https://github.com/ember-cli/ember-cli-qunit.git>
VendorName: Jake Craige
VendorUrl: <https://github.com/ember-cli/ember-cli-qunit>

ember-cli-release@0.2.8
URL: <https://github.com/lytics/ember-cli-release.git>
VendorName: Steven Lindberg

ember-cli-sass@7.0.0
URL: <git://github.com/aexmachina/ember-cli-sass.git>
VendorName: @aexmachina
VendorUrl: <https://github.com/aexmachina/ember-cli-sass>

ember-cli-sri@1.2.1
URL: <https://github.com/jonathanKingston/ember-cli-sri>
VendorName: Jonathan Kingston

ember-cli-uglify@1.2.0
URL: <https://github.com/ember-cli/ember-cli-uglify.git>

ember-cli-version-checker@1.3.1
URL: <https://github.com/rwjblue/ember-cli-version-checker.git>
VendorName: Robert Jackson
VendorUrl: <https://github.com/rwjblue/ember-cli-version-checker>

ember-cli@1.13.14
URL: <https://github.com/ember-cli/ember-cli.git>
VendorName: Stefan Penner, Robert Jackson and ember-cli contributors

ember-d3@0.1.0
URL: <https://github.com/brzpegasus/ember-d3>
VendorName: Estelle DeBlois

ember-data@2.1.0
URL: <git://github.com/emberjs/data.git>

ember-disable-proxy-controllers@1.0.1
URL: <https://github.com/cibernox/ember-disable-proxy-controllers>
VendorName: Miguel Camba

ember-export-application-global@1.0.5
URL: <https://github.com/ember-cli/ember-export-application-global.git>
VendorName: Robert Jackson

VendorUrl: <https://github.com/ember-cli/ember-export-application-global>
ember-lodash@0.0.10
URL: <https://github.com/levanto-financial/ember-lodash.git>
VendorName: Mike North
VendorUrl: <https://github.com/levanto-financial/ember-lodash>
ember-qunit@0.4.24
URL: <https://github.com/rwjblue/ember-qunit.git>
ember-resolver@2.0.3
URL: <git+https://github.com/ember-cli/ember-resolver.git>
VendorName: Robert Jackson
VendorUrl: <https://github.com/ember-cli/ember-resolver#readme>
ember-router-generator@1.2.3
URL: <https://github.com/ember-cli/ember-router-generator.git>
VendorName: Adolfo Builes
VendorUrl: <https://github.com/ember-cli/ember-router-generator>
ember-spin-spinner@0.2.3
URL: <https://github.com/rsschermer/ember-spin-spinner>
VendorName: Roland Schermer
VendorUrl: <https://github.com/rsschermer/ember-spin-spinner>
ember-truth-helpers@1.3.0
URL: <https://github.com/jmurphyau/ember-truth-helpers>
VendorName: James Murphy
ember-wormhole@0.3.6
URL: <https://github.com/yapplabs/ember-wormhole.git>
VendorName: Yapp Labs
encodeurl@1.0.2
URL: <https://github.com/pillarjs/encodeurl.git>
engine.io-parser@1.2.2
URL: <git@github.com:Automattic/engine.io-parser.git>
VendorUrl: <https://github.com/Automattic/engine.io-parser>
engine.io-pure@1.5.9
URL: <git@github.com:Automattic/engine.io.git>
VendorName: Guillermo Rauch
VendorUrl: <https://github.com/LearnBoost/engine.io>
errno@0.1.7
URL: <https://github.com/rvagg/node-errno.git>
error-ex@1.3.2
URL: <https://github.com/qix-/node-error-ex.git>
es6-iterator@0.1.3
URL: <git://github.com/medikoo/es6-iterator.git>
VendorName: Mariusz Nowak
VendorUrl: <http://www.medikoo.com/>
es6-iterator@2.0.3
URL: <git://github.com/medikoo/es6-iterator.git>
VendorName: Mariusz Nowak
VendorUrl: <http://www.medikoo.com/>
es6-promise@4.0.5
URL: <git://github.com/stefanpenner/es6-promise.git>

VendorName: Yehuda Katz, Tom Dale, Stefan Penner and contributors
VendorUrl: Conversion to ES6 API by Jake Archibald
es6-symbol@2.0.1
URL: [git://github.com/medikoo/es6-symbol.git](https://github.com/medikoo/es6-symbol.git)
VendorName: Mariusz Nowak
VendorUrl: <http://www.medikoo.com/>

es6-weak-map@0.1.4
URL: [git://github.com/medikoo/es6-weak-map.git](https://github.com/medikoo/es6-weak-map.git)
VendorName: Mariusz Nowak
VendorUrl: <http://www.medikoo.com/>

escape-html@1.0.3
URL: <https://github.com/component/escape-html.git>

escape-string-regexp@1.0.5
URL: <https://github.com/sindresorhus/escape-string-regexp.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

etag@1.8.1
URL: <https://github.com/jshttp/etag.git>

event-emitter@0.3.5
URL: [git://github.com/medikoo/event-emitter.git](https://github.com/medikoo/event-emitter.git)
VendorName: Mariusz Nowak
VendorUrl: <http://www.medikoo.com/>

eventemitter3@4.0.0
URL: [git://github.com/primus/eventemitter3.git](https://github.com/primus/eventemitter3.git)
VendorName: Arnout Kazemier

exec-sh@0.2.2
URL: [git@github.com:tsertkov/exec-sh.git](https://github.com/tsertkov/exec-sh.git)
VendorName: Aleksandr Tsertkov

exit@0.1.2
URL: [git://github.com/cowboy/node-exit.git](https://github.com/cowboy/node-exit.git)
VendorName: "Cowboy" Ben Alman
VendorUrl: <https://github.com/cowboy/node-exit>

expand-brackets@0.1.5
URL: <https://github.com/jonschlinkert/expand-brackets.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/expand-brackets>

expand-range@1.8.2
URL: <https://github.com/jonschlinkert/expand-range.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/expand-range>

express@4.17.1
URL: <https://github.com/expressjs/express.git>
VendorName: TJ Holowaychuk
VendorUrl: <http://expressjs.com/>

extend@3.0.2
URL: <https://github.com/justmoon/node-extend.git>
VendorName: Stefan Thomas
VendorUrl: <http://www.justmoon.net>

extglob@0.3.2
URL: [git://github.com/jonschlinkert/extglob.git](https://github.com/jonschlinkert/extglob.git)
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/extglob>

extsprintf@1.3.0
URL: [git://github.com/davepacheco/node-extsprintf.git](https://github.com/davepacheco/node-extsprintf.git)

extsprintf@1.4.0
URL: [git://github.com/davepacheco/node-extsprintf.git](https://github.com/davepacheco/node-extsprintf.git)

fast-deep-equal@2.0.1
URL: [git+https://github.com/epoberezkin/fast-deep-equal.git](https://github.com/epoberezkin/fast-deep-equal.git)
VendorName: Evgeny Poberezkin
VendorUrl: <https://github.com/epoberezkin/fast-deep-equal#readme>

fast-json-stable-stringify@2.1.0
URL: [git://github.com/epoberezkin/fast-json-stable-stringify.git](https://github.com/epoberezkin/fast-json-stable-stringify.git)
VendorName: James Halliday
VendorUrl: <https://github.com/epoberezkin/fast-json-stable-stringify>

fast-sourcemap-concat@0.2.7
URL: <https://github.com/ef4/fast-sourcemap-concat>
VendorName: Edward Faulkner

faye-websocket@0.10.0
URL: [git://github.com/faye/faye-websocket-node.git](https://github.com/faye/faye-websocket-node.git)
VendorName: James Coglan
VendorUrl: <http://github.com/faye/faye-websocket-node>

fd-slicer@1.0.1
URL: [git://github.com/andrewrk/node-fd-slicer.git](https://github.com/andrewrk/node-fd-slicer.git)
VendorName: Andrew Kelley

filename-regex@2.0.1
URL: <https://github.com/regexhq/filename-regex.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/regexhq/filename-regex>

fileset@0.2.1
URL: [git://github.com/mklabs/node-fileset.git](https://github.com/mklabs/node-fileset.git)
VendorName: mklabs
VendorUrl: <https://github.com/mklabs/node-fileset>

fill-range@2.2.4
URL: <https://github.com/jonschlinkert/fill-range.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/fill-range>

finalhandler@1.1.2
URL: <https://github.com/pillarjs/finalhandler.git>
VendorName: Douglas Christopher Wilson

find-up@1.1.2
URL: <https://github.com/sindresorhus/find-up.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

findup-sync@0.2.1
URL: [git://github.com/cowboy/node-findup-sync.git](https://github.com/cowboy/node-findup-sync.git)
VendorName: "Cowboy" Ben Alman

VendorUrl: <https://github.com/cowboy/node-findup-sync>
findup-sync@0.3.0
URL: <git://github.com/cowboy/node-findup-sync.git>
VendorName: "Cowboy" Ben Alman
VendorUrl: <https://github.com/cowboy/node-findup-sync>
findup@0.1.5
URL: <https://github.com/Filirom1/findup.git>
VendorName: Filirom1
fireworm@0.6.6
URL: <git@github.com:airportyh/fireworm.git>
VendorName: Toby Ho
follow-redirects@1.9.0
URL: <git@github.com:follow-redirects/follow-redirects.git>
VendorName: Ruben Verborgh
VendorUrl: <https://github.com/follow-redirects/follow-redirects>
for-in@1.0.2
URL: <https://github.com/jonschlinkert/for-in.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/for-in>
for-own@0.1.5
URL: <https://github.com/jonschlinkert/for-own.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/for-own>
form-data@1.0.1
URL: <git://github.com/form-data/form-data.git>
VendorName: Felix Geisendrfer
VendorUrl: <http://debuggable.com/>
form-data@2.1.4
URL: <git://github.com/form-data/form-data.git>
VendorName: Felix Geisendrfer
VendorUrl: <http://debuggable.com/>
form-data@2.3.3
URL: <git://github.com/form-data/form-data.git>
VendorName: Felix Geisendrfer
VendorUrl: <http://debuggable.com/>
forwarded@0.1.2
URL: <https://github.com/jshttp/forwarded.git>
fresh@0.5.2
URL: <https://github.com/jshttp/fresh.git>
VendorName: TJ Holowaychuk
VendorUrl: <http://tjholowaychuk.com>
fs-extra@0.16.5
URL: <https://github.com/jprichardson/node-fs-extra>
VendorName: JP Richardson
VendorUrl: <https://github.com/jprichardson/node-fs-extra>
fs-extra@0.22.1
URL: <https://github.com/jprichardson/node-fs-extra>
VendorName: JP Richardson

VendorUrl: <https://github.com/jprichardson/node-fs-extra>
fs-extra@0.24.0
URL: <https://github.com/jprichardson/node-fs-extra>
VendorName: JP Richardson
VendorUrl: <https://github.com/jprichardson/node-fs-extra>
fs-extra@0.30.0
URL: <https://github.com/jprichardson/node-fs-extra>
VendorName: JP Richardson
VendorUrl: <https://github.com/jprichardson/node-fs-extra>
fs-extra@5.0.0
URL: <https://github.com/jprichardson/node-fs-extra>
VendorName: JP Richardson
VendorUrl: <https://github.com/jprichardson/node-fs-extra>
fs-readdir-recursive@0.1.2
URL: <https://github.com/fs-utils/fs-readdir-recursive.git>
VendorName: Jonathan Ong
VendorUrl: <http://jongleberry.com>
fs-tree-diff@0.3.1
VendorName: Stefan Penner, David J. Hamilton, Chad Hietala
fs-tree-diff@0.4.4
VendorName: Stefan Penner, David J. Hamilton, Chad Hietala
fs-tree-diff@0.5.9
URL: <git://github.com/stefanpenner/fs-tree-diff.git>
VendorName: Stefan Penner, David J. Hamilton, Chad Hietala
gaze@1.1.3
URL: <https://github.com/shama/gaze.git>
VendorName: Kyle Robinson Young
VendorUrl: <https://github.com/shama/gaze>
generate-function@2.3.1
URL: <https://github.com/mafintosh/generate-function>
VendorName: Mathias Buus
VendorUrl: <https://github.com/mafintosh/generate-function>
generate-object-property@1.2.0
URL: <https://github.com/mafintosh/generate-object-property>
VendorName: Mathias Buus
VendorUrl: <https://github.com/mafintosh/generate-object-property>
get-stdin@4.0.1
URL: <https://github.com/sindresorhus/get-stdin.git>
VendorName: Sindre Sorhus
VendorUrl: <http://sindresorhus.com>
getpass@0.1.7
URL: <https://github.com/arekinath/node-getpass.git>
VendorName: Alex Wilson
git-repo-info@1.4.1
URL: <https://github.com/rwjblue/git-repo-info.git>
VendorName: Robert Jackson
VendorUrl: <https://github.com/rwjblue/git-repo-info>
git-repo-version@0.3.0

URL: <https://github.com/cibernox/git-repo-version>
VendorName: Miguel Camba
github-url-from-git@1.4.0
URL: <https://github.com/visionmedia/node-github-url-from-git.git>
VendorName: TJ Holowaychuk
glob-base@0.3.0
URL: <git://github.com/jonschlinkert/glob-base.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/glob-base>
globals@6.4.1
URL: <https://github.com/sindresorhus/globals.git>
VendorName: Sindre Sorhus
VendorUrl: <http://sindresorhus.com>
globule@1.3.0
URL: <git://github.com/cowboy/node-globule.git>
VendorName: "Cowboy" Ben Alman
VendorUrl: <https://github.com/cowboy/node-globule>
growl@1.10.5
URL: <git://github.com/tj/node-growl.git>
VendorName: TJ Holowaychuk
handlebars@3.0.7
URL: <https://github.com/wycats/handlebars.js.git>
VendorName: Yehuda Katz
VendorUrl: <http://www.handlebarsjs.com/>
har-validator@5.1.3
URL: <https://github.com/ahmadnassri/node-har-validator.git>
VendorName: Ahmad Nassri
VendorUrl: <https://github.com/ahmadnassri/node-har-validator>
has-ansi@0.1.0
URL: <https://github.com/sindresorhus/has-ansi.git>
VendorName: Sindre Sorhus
VendorUrl: <http://sindresorhus.com>
has-ansi@2.0.0
URL: <https://github.com/sindresorhus/has-ansi.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
has-binary@0.1.6
VendorName: Kevin Roark
has-color@0.1.7
URL: <https://github.com/sindresorhus/has-color.git>
VendorName: Sindre Sorhus
VendorUrl: <http://sindresorhus.com>
has-cors@1.1.0
URL: <git://github.com/component/has-cors.git>
VendorName: Nathan Rajlich
VendorUrl: <http://n8.io/>
has-flag@3.0.0
URL: <https://github.com/sindresorhus/has-flag.git>

VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
hasha@2.2.0
URL: <https://github.com/sindresorhus/hasha.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
heimdalljs-logger@0.1.10
URL: <git+https://github.com/heimdalljs/heimdalljs-logger.git>
VendorName: David J. Hamilton
VendorUrl: <https://github.com/heimdalljs/heimdalljs-logger#README.md>
heimdalljs@0.2.6
URL: <git+https://github.com/heimdalljs/heimdalljs-lib.git>
VendorUrl: <https://github.com/hjdivad/heimdalljs-lib#readme>
home-or-tmp@1.0.0
URL: <https://github.com/sindresorhus/home-or-tmp.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
htmlparser2@3.8.3
URL: <git://github.com/fb55/htmlparser2.git>
VendorName: Felix Boehm
http-errors@1.3.1
URL: <https://github.com/jshttp/http-errors.git>
VendorName: Jonathan Ong
VendorUrl: <http://jongleberry.com>
http-errors@1.7.2
URL: <https://github.com/jshttp/http-errors.git>
VendorName: Jonathan Ong
VendorUrl: <http://jongleberry.com>
http-errors@1.7.3
URL: <https://github.com/jshttp/http-errors.git>
VendorName: Jonathan Ong
VendorUrl: <http://jongleberry.com>
http-parser-js@0.4.10
URL: <git://github.com/creationix/http-parser-js.git>
VendorName: Tim Caswell
VendorUrl: <https://github.com/creationix>
http-proxy@1.18.0
URL: <https://github.com/http-party/node-http-proxy.git>
VendorName: Charlie Robbins
http-signature@0.11.0
URL: <git://github.com/joyent/node-http-signature.git>
VendorName: Joyent, Inc
VendorUrl: <https://github.com/joyent/node-http-signature/>
http-signature@1.1.1
URL: <git://github.com/joyent/node-http-signature.git>
VendorName: Joyent, Inc
VendorUrl: <https://github.com/joyent/node-http-signature/>
http-signature@1.2.0

URL: [git://github.com/joyent/node-http-signature.git](https://github.com/joyent/node-http-signature.git)
VendorName: Joyent, Inc
VendorUrl: [https://github.com/joyent/node-http-signature/
ic-ajax@2.0.2](https://github.com/joyent/node-http-signature/ic-ajax@2.0.2)
URL: <https://github.com/instructure/ic-ajax.git>
VendorName: Ryan Florence
VendorUrl: [https://github.com/instructure/ic-ajax
iconv-lite@0.4.13](https://github.com/instructure/ic-ajax/iconv-lite@0.4.13)
URL: [git://github.com/ashtuchkin/iconv-lite.git](https://github.com/ashtuchkin/iconv-lite.git)
VendorName: Alexander Shtuchkin
VendorUrl: [https://github.com/ashtuchkin/iconv-lite
iconv-lite@0.4.24](https://github.com/ashtuchkin/iconv-lite/iconv-lite@0.4.24)
URL: [git://github.com/ashtuchkin/iconv-lite.git](https://github.com/ashtuchkin/iconv-lite.git)
VendorName: Alexander Shtuchkin
VendorUrl: [https://github.com/ashtuchkin/iconv-lite
iferr@0.1.5](https://github.com/ashtuchkin/iconv-lite/iferr@0.1.5)
URL: <https://github.com/shesek/iferr>
VendorName: Nadav Ivgi
VendorUrl: [https://github.com/shesek/iferr
image-size@0.5.5](https://github.com/shesek/iferr/image-size@0.5.5)
URL: <https://github.com/image-size/image-size.git>
VendorName: netroy
VendorUrl: <http://netroy.in/>
imurmurhash@0.1.4
URL: <https://github.com/jensyt/imurmurhash-js>
VendorName: Jens Taylor
VendorUrl: [https://github.com/jensyt/imurmurhash-js
include-path-searcher@0.1.0](https://github.com/jensyt/imurmurhash-js/include-path-searcher@0.1.0)
URL: <https://github.com/joliss/include-path-searcher>
VendorName: Jo Liss
indent-string@2.1.0
URL: <https://github.com/sindresorhus/indent-string.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
inflection@1.12.0
URL: <https://github.com/dreamerslab/node.inflection.git>
VendorName: dreamerslab
inquirer@0.5.1
URL: [git://github.com/SBoudrias/Inquirer.js.git](https://github.com/SBoudrias/Inquirer.js.git)
VendorName: Simon Boudrias
invert-kv@1.0.0
URL: <https://github.com/sindresorhus/invert-kv.git>
VendorName: Sindre Sorhus
VendorUrl: <http://sindresorhus.com>
ipaddr.js@1.9.0
URL: [git://github.com/whitequark/ipaddr.js](https://github.com/whitequark/ipaddr.js)
VendorName: whitequark
is-arrayish@0.2.1

URL: <https://github.com/qix-/node-is-arrayish.git>
VendorName: Qix
VendorUrl: <http://github.com/qix-is-buffer@1.1.6>

URL: <git://github.com/feross/is-buffer.git>
VendorName: Feross Aboukhadijeh
VendorUrl: <http://feross.org/>

is-builtin-module@1.0.0
URL: <https://github.com/sindresorhus/is-builtin-module.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

is-dotfile@1.0.3
URL: <https://github.com/jonschlinkert/is-dotfile.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/is-dotfile>

is-equal-shallow@0.1.3
URL: <git://github.com/jonschlinkert/is-equal-shallow.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/is-equal-shallow>

is-extendable@0.1.1
URL: <https://github.com/jonschlinkert/is-extendable.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/is-extendable>

is-extglob@1.0.0
URL: <https://github.com/jonschlinkert/is-extglob.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/is-extglob>

is-finite@1.0.2
URL: <https://github.com/sindresorhus/is-finite.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

is-fullwidth-code-point@1.0.0
URL: <https://github.com/sindresorhus/is-fullwidth-code-point.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

is-fullwidth-code-point@2.0.0
URL: <https://github.com/sindresorhus/is-fullwidth-code-point.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

is-git-url@0.2.0
URL: <git://github.com/jonschlinkert/is-git-url.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/is-git-url>

is-git-url@0.2.3
URL: <https://github.com/jonschlinkert/is-git-url.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/is-git-url>

is-glob@2.0.1

URL: <https://github.com/jonschlinkert/is-glob.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/is-glob>
is-my-ip-valid@1.0.0
URL: <https://github.com/LinusU/is-my-ip-valid.git>
is-my-json-valid@2.20.0
URL: <https://github.com/mafintosh/is-my-json-valid.git>
is-number@2.1.0
URL: <https://github.com/jonschlinkert/is-number.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/is-number>
is-number@4.0.0
URL: <https://github.com/jonschlinkert/is-number.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/is-number>
is-posix-bracket@0.1.1
URL: <https://github.com/jonschlinkert/is-posix-bracket.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/is-posix-bracket>
is-primitive@2.0.0
URL: <https://github.com/jonschlinkert/is-primitive.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/is-primitive>
is-property@1.0.2
URL: <https://github.com/mikolajsenko/is-property.git>
VendorName: Mikola Lysenko
is-stream@1.1.0
URL: <https://github.com/sindresorhus/is-stream.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
is-type@0.0.1
URL: <https://github.com/juliangruber/is-type.git>
VendorName: Julian Gruber
VendorUrl: <https://github.com/juliangruber/is-type>
is-typedarray@1.0.0
URL: <https://github.com/hughsk/is-typedarray.git>
VendorName: Hugh Kennedy
VendorUrl: <https://github.com/hughsk/is-typedarray>
is-utf8@0.2.1
URL: <https://github.com/wayfind/is-utf8.git>
VendorName: wayfind
isarray@0.0.1
URL: <https://github.com/juliangruber/isarray.git>
VendorName: Julian Gruber
VendorUrl: <https://github.com/juliangruber/isarray>
isarray@1.0.0
URL: <https://github.com/juliangruber/isarray.git>
VendorName: Julian Gruber

VendorUrl: <https://github.com/juliangruber/isarray>
isbinaryfile@2.0.4
URL: <https://github.com/gjtorikian/isBinaryFile>
isobject@2.1.0
URL: <https://github.com/jonschlinkert/isobject.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/isobject>
isstream@0.1.2
URL: <https://github.com/rvagg/isstream.git>
VendorName: Rod Vagg
VendorUrl: <https://github.com/rvagg/isstream>
istextorbinary@2.1.0
URL: <http://github.com/bevry/istextorbinary.git>
VendorName: 2012+ Bevry Pty Ltd
VendorUrl: <https://github.com/bevry/istextorbinary>
js-tokens@1.0.1
URL: <https://github.com/lydell/js-tokens.git>
VendorName: Simon Lydell
js-yaml@3.13.1
URL: <https://github.com/nodeca/js-yaml.git>
VendorName: Vladimir Zapparov
VendorUrl: <https://github.com/nodeca/js-yaml>
jsbn@0.1.1
URL: <https://github.com/andyperlitch/jsbn.git>
VendorName: Tom Wu
jsesc@0.5.0
URL: <https://github.com/mathiasbynens/jsesc.git>
VendorName: Mathias Bynens
VendorUrl: <http://mths.be/jsesc>
json-parse-better-errors@1.0.2
URL: <https://github.com/zkat/json-parse-better-errors>
VendorName: Kat Marchn
json-schema-traverse@0.4.1
URL: <git+https://github.com/epoberezkin/json-schema-traverse.git>
VendorName: Evgeny Poberezkin
VendorUrl: <https://github.com/epoberezkin/json-schema-traverse#readme>
json-stable-stringify@1.0.1
URL: <git://github.com/substack/json-stable-stringify.git>
VendorName: James Halliday
VendorUrl: <https://github.com/substack/json-stable-stringify>
json3@3.2.6
URL: <git://github.com/bestiejs/json3.git>
VendorName: Kit Cambridge
VendorUrl: <http://bestiejs.github.io/json3>
json5@0.4.0
URL: <https://github.com/aseemk/json5.git>
VendorName: Aseem Kishore
VendorUrl: <http://json5.org/>

jsonfile@2.4.0
URL: [git@github.com:jprichardson/node-jsonfile.git](https://github.com:jprichardson/node-jsonfile.git)
VendorName: JP Richardson

jsonfile@4.0.0
URL: [git@github.com:jprichardson/node-jsonfile.git](https://github.com:jprichardson/node-jsonfile.git)
VendorName: JP Richardson

jsonpointer@4.0.1
URL: <http://github.com/janl/node-jsonpointer.git>
VendorName: Jan Lehnardt

jsprim@1.4.1
URL: [git://github.com/joyent/node-jsprim.git](https://github.com/joyent/node-jsprim.git)

kind-of@3.2.2
URL: <https://github.com/jonschlinkert/kind-of.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/kind-of>

kind-of@6.0.2
URL: <https://github.com/jonschlinkert/kind-of.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/kind-of>

klassy@0.1.3
URL: <https://github.com/cerebris/klassy.js.git>

klaw@1.3.1
URL: [git+https://github.com:jprichardson/node-klaw.git](https://github.com:jprichardson/node-klaw.git)
VendorName: JP Richardson
VendorUrl: <https://github.com/jprichardson/node-klaw#readme>

lazy-cache@1.0.4
URL: <https://github.com/jonschlinkert/lazy-cache.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/lazy-cache>

lcid@1.0.0
URL: <https://github.com/sindresorhus/lcid.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

leek@0.0.18
URL: <https://github.com/twokul/leek>
VendorName: Alex Navasardyan
VendorUrl: <http://twokul.io>

leven@1.0.2
URL: <https://github.com/sindresorhus/leven.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

linkify-it@1.2.4
URL: <https://github.com/markdown-it/linkify-it.git>

livereload-js@2.4.0
URL: [git://github.com/livereload/livereload-js.git](https://github.com/livereload/livereload-js.git)
VendorUrl: <https://github.com/livereload/livereload-js>

load-json-file@1.1.0
URL: <https://github.com/sindresorhus/load-json-file.git>

VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
loader.js@4.2.3
URL: <https://github.com/ember-cli/loader.js.git>
VendorUrl: <https://github.com/ember-cli/loader.js>
lodash-es@3.10.1
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/custom-builds>
lodash-node@2.4.1
URL: <https://github.com/lodash/lodash-node.git>
VendorName: John-David Dalton
VendorUrl: <http://lodash.com/custom-builds>
lodash-node@3.10.2
URL: <https://github.com/lodash/lodash-node.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>
lodash._arraycopy@3.0.0
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>
lodash._arrayeach@3.0.0
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>
lodash._baseassign@3.2.0
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>
lodash._basecallback@3.3.1
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>
lodash._basecopy@3.0.1
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>
lodash._basefor@3.0.3
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>
lodash._baseindexof@3.1.0
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>
lodash._baseisequal@3.0.7
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton

VendorUrl: <https://lodash.com/>
lodash._baseuniq@3.0.3
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>
lodash._bindcallback@3.0.1
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>
lodash._cacheindexof@3.0.2
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>
lodash._createassigner@3.1.1
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>
lodash._createcache@3.1.2
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>
lodash._getnative@3.9.1
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>
lodash._isiterateecall@3.0.9
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>
lodash.assign@3.2.0
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>
lodash.defaults@3.1.2
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>
lodash.isarguments@3.1.0
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>
lodash.isarray@3.0.4
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>
lodash.isplainobject@3.2.0
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton

VendorUrl: <https://lodash.com/>
lodash.istypedarray@3.0.6
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>
lodash.keys@3.1.2
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>
lodash.keysin@3.0.8
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>
lodash.merge@3.3.2
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>
lodash.merge@4.6.2
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>
lodash.pad@4.5.1
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>
lodash.padend@4.6.1
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>
lodash.padstart@4.6.1
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>
lodash.pairs@3.0.1
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>
lodash.restparam@3.6.1
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>
lodash.toplainobject@3.0.0
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>
lodash.uniq@3.2.2
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton

VendorUrl: <https://lodash.com/>
lodash@2.3.0
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <http://lodash.com/>

lodash@2.4.2
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <http://lodash.com/>

lodash@3.10.1
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>

lodash@4.17.15
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>

longest@1.0.1
URL: <https://github.com/jonschlinkert/longest.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/longest>

loud-rejection@1.6.0
URL: <https://github.com/sindresorhus/loud-rejection.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

lru-queue@0.1.0
URL: <git://github.com/medikoo/lru-queue.git>
VendorName: Mariusz Nowak
VendorUrl: <http://www.medikoo.com/>

make-array@0.1.2
URL: <git://github.com/kaelzhang/make-array.git>
VendorName: kael

map-obj@1.0.1
URL: <https://github.com/sindresorhus/map-obj.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

markdown-it-terminal@0.0.2
URL: <http://github.com/trabus/markdown-it-terminal>
VendorName: Jake Bixby
VendorUrl: <https://github.com/trabus/markdown-it-terminal>

markdown-it@4.3.0
URL: <https://github.com/markdown-it/markdown-it.git>
VendorUrl: <https://github.com/markdown-it/markdown-it>

markdown-it@4.4.0
URL: <https://github.com/markdown-it/markdown-it.git>
VendorUrl: <https://github.com/markdown-it/markdown-it>

math-random@1.0.4
URL: <https://github.com/michaelrhodes/math-random.git>

VendorName: Michael Rhodes
mdurl@1.0.1
URL: <https://github.com/markdown-it/mdurl.git>
media-typer@0.3.0
URL: <https://github.com/jshttp/media-typer.git>
VendorName: Douglas Christopher Wilson
memoizee@0.3.10
URL: <git://github.com/medikoo/memoizee.git>
VendorName: Mariusz Nowak
VendorUrl: <http://www.medikoo.com/>
meow@3.7.0
URL: <https://github.com/sindresorhus/meow.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
merge-defaults@0.2.2
URL: <git://github.com/mikermcneil/merge-defaults.git>
VendorName: Mike McNeil
VendorUrl: <https://github.com/mikermcneil/merge-defaults>
merge-descriptors@1.0.1
URL: <https://github.com/component/merge-descriptors.git>
VendorName: Jonathan Ong
VendorUrl: <http://jongleberry.com>
merge-trees@1.0.1
URL: <https://github.com/broccolijs/node-merge-trees>
VendorName: Jo Liss
merge@1.2.1
URL: <https://github.com/yeikos/js.merge.git>
VendorName: yeikos
VendorUrl: <https://github.com/yeikos/js.merge>
methods@1.1.2
URL: <https://github.com/jshttp/methods.git>
micromatch@2.3.11
URL: <https://github.com/jonschlinkert/micromatch.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/micromatch>
mime-db@1.42.0
URL: <https://github.com/jshttp/mime-db.git>
mime-types@2.1.25
URL: <https://github.com/jshttp/mime-types.git>
mime@1.6.0
URL: <https://github.com/broofa/node-mime>
VendorName: Robert Kieffer
VendorUrl: <http://github.com/broofa>
minimatch@0.2.14
URL: <git://github.com/isaacs/minimatch.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me>
minimatch@1.0.0

URL: [git://github.com/isaacs/minimatch.git](https://github.com/isaacs/minimatch.git)
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me>
minimist@0.0.10
URL: [git://github.com/substack/minimist.git](https://github.com/substack/minimist.git)
VendorName: James Halliday
VendorUrl: <https://github.com/substack/minimist>
minimist@0.0.8
URL: [git://github.com/substack/minimist.git](https://github.com/substack/minimist.git)
VendorName: James Halliday
VendorUrl: <https://github.com/substack/minimist>
minimist@1.2.0
URL: [git://github.com/substack/minimist.git](https://github.com/substack/minimist.git)
VendorName: James Halliday
VendorUrl: <https://github.com/substack/minimist>
mkdirp@0.3.5
URL: <http://github.com/substack/node-mkdirp.git>
VendorName: James Halliday
VendorUrl: <http://substack.net>
mkdirp@0.4.2
URL: <https://github.com/substack/node-mkdirp.git>
VendorName: James Halliday
VendorUrl: <http://substack.net>
mkdirp@0.5.0
URL: <https://github.com/substack/node-mkdirp.git>
VendorName: James Halliday
VendorUrl: <http://substack.net>
mkdirp@0.5.1
URL: <https://github.com/substack/node-mkdirp.git>
VendorName: James Halliday
VendorUrl: <http://substack.net>
mktemp@0.3.5
URL: [git://github.com/sasaplus1/mktemp.git](https://github.com/sasaplus1/mktemp.git)
VendorName: sasa+1
mktemp@0.4.0
URL: [git://github.com/sasaplus1/mktemp.git](https://github.com/sasaplus1/mktemp.git)
VendorName: sasa+1
moment-timezone@0.3.1
URL: <https://github.com/moment/moment-timezone.git>
VendorName: Tim Wood
VendorUrl: <http://momentjs.com/timezone/>
moment@2.24.0
URL: <https://github.com/moment/moment.git>
VendorName: Iskren Iovov Chernev
VendorUrl: <http://momentjs.com/>
morgan@1.9.1
URL: <https://github.com/expressjs/morgan.git>
mout@0.9.1

URL: [git://github.com/mout/mout.git](https://github.com/mout/mout.git)
VendorUrl: <http://moutjs.com/>
ms@0.7.1
URL: [git://github.com/guille/ms.js.git](https://github.com/guille/ms.js.git)
ms@2.0.0
URL: <https://github.com/zeit/ms.git>
ms@2.1.1
URL: <https://github.com/zeit/ms.git>
ms@2.1.2
URL: <https://github.com/zeit/ms.git>
mustache@2.3.2
URL: <https://github.com/janl/mustache.js.git>
VendorName: mustache.js Authors
VendorUrl: <https://github.com/janl/mustache.js>
nan@2.14.0
URL: [git://github.com/nodejs/nan.git](https://github.com/nodejs/nan.git)
negotiator@0.6.2
URL: <https://github.com/jshttp/negotiator.git>
next-tick@0.2.2
URL: [git://github.com/medikoo/next-tick.git](https://github.com/medikoo/next-tick.git)
VendorName: Mariusz Nowak
VendorUrl: <http://www.medikoo.com/>
next-tick@1.0.0
URL: [git://github.com/medikoo/next-tick.git](https://github.com/medikoo/next-tick.git)
VendorName: Mariusz Nowak
VendorUrl: <http://www.medikoo.com/>
node-gyp@3.0.3
URL: [git://github.com/nodejs/node-gyp.git](https://github.com/nodejs/node-gyp.git)
VendorName: Nathan Rajlich
VendorUrl: <http://tootallnate.net>
node-gyp@3.8.0
URL: [git://github.com/nodejs/node-gyp.git](https://github.com/nodejs/node-gyp.git)
VendorName: Nathan Rajlich
VendorUrl: <http://tootallnate.net>
node-int64@0.4.0
URL: <https://github.com/broofa/node-int64>
VendorName: Robert Kieffer
node-sass@4.13.0
URL: <https://github.com/sass/node-sass>
VendorName: Andrew Nesbitt
VendorUrl: <https://github.com/sass/node-sass>
node-uuid@1.4.8
URL: <https://github.com/broofa/node-uuid.git>
VendorName: Robert Kieffer
VendorUrl: <https://github.com/broofa/node-uuid>
normalize-path@2.1.1
URL: <https://github.com/jonschlinkert/normalize-path.git>
VendorName: Jon Schlinkert

VendorUrl: <https://github.com/jonschlinkert/normalize-path>
number-is-nan@1.0.1
URL: <https://github.com/sindresorhus/number-is-nan.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

numeral@1.5.6
URL: <https://github.com/adamwdraper/Numeral-js>
VendorName: Adam Draper
VendorUrl: <http://numeraljs.com/>

object-assign@2.1.1
URL: <https://github.com/sindresorhus/object-assign.git>
VendorName: Sindre Sorhus
VendorUrl: <http://sindresorhus.com>

object-assign@3.0.0
URL: <https://github.com/sindresorhus/object-assign.git>
VendorName: Sindre Sorhus
VendorUrl: <http://sindresorhus.com>

object-assign@4.1.1
URL: <https://github.com/sindresorhus/object-assign.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

object-keys@1.0.1
URL: <git://github.com/ljharb/object-keys.git>
VendorName: Jordan Harband

object.omit@2.0.1
URL: <https://github.com/jonschlinkert/object.omit.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/object.omit>

on-finished@2.3.0
URL: <https://github.com/jshttp/on-finished.git>

on-headers@1.0.2
URL: <https://github.com/jshttp/on-headers.git>
VendorName: Douglas Christopher Wilson

optimist@0.6.1
URL: <http://github.com/substack/node-optimist.git>
VendorName: James Halliday
VendorUrl: <http://substack.net>

options@0.0.6
URL: <git://github.com/einaros/options.js.git>
VendorName: Einar Otto Stangvik
VendorUrl: <http://2x.io>

os-homedir@1.0.2
URL: <https://github.com/sindresorhus/os-homedir.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

os-locale@1.4.0
URL: <https://github.com/sindresorhus/os-locale.git>
VendorName: Sindre Sorhus

VendorUrl: sindresorhus.com
os-tmpdir@1.0.2
URL: <https://github.com/sindresorhus/os-tmpdir.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
output-file-sync@1.1.2
URL: <https://github.com/shinnn/output-file-sync.git>
VendorName: Shinnosuke Watanabe
VendorUrl: <https://github.com/shinnn>
parse-glob@3.0.4
URL: <https://github.com/jonschlinkert/parse-glob.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/parse-glob>
parse-json@2.2.0
URL: <https://github.com/sindresorhus/parse-json.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
parsejson@0.0.1
parseqs@0.0.2
parseuri@0.0.2
parseuri@0.0.4
URL: <https://github.com/get/parseuri.git>
VendorUrl: <https://github.com/get/parseuri>
parseurl@1.3.3
URL: <https://github.com/pillarjs/parseurl.git>
path-array@1.0.1
URL: <git://github.com/TooTallNate/node-path-array.git>
VendorName: Nathan Rajlich
VendorUrl: <https://github.com/TooTallNate/node-path-array>
path-exists@1.0.0
URL: <https://github.com/sindresorhus/path-exists.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
path-exists@2.1.0
URL: <https://github.com/sindresorhus/path-exists.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
path-is-absolute@1.0.1
URL: <https://github.com/sindresorhus/path-is-absolute.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
path-parse@1.0.6
URL: <https://github.com/jbgutierrez/path-parse.git>
VendorName: Javier Blanco
VendorUrl: <https://github.com/jbgutierrez/path-parse#readme>
path-root-regex@0.1.2
URL: <https://github.com/regexhq/path-root-regex.git>
VendorName: Jon Schlinkert

VendorUrl: <https://github.com/regexhq/path-root-regex>
path-root@0.1.1
URL: <https://github.com/jonschlinkert/path-root.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/path-root>
path-to-regexp@0.1.7
URL: <https://github.com/component/path-to-regexp.git>
path-type@1.1.0
URL: <https://github.com/sindresorhus/path-type.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
pend@1.2.0
URL: [git://github.com/andrewrk/node-pend.git](https://github.com/andrewrk/node-pend.git)
VendorName: Andrew Kelley
performance-now@0.2.0
URL: [git://github.com/meryn/performance-now.git](https://github.com/meryn/performance-now.git)
VendorName: Meryn Stol
VendorUrl: <https://github.com/meryn/performance-now>
performance-now@2.1.0
URL: [git://github.com/braveg1rl/performance-now.git](https://github.com/braveg1rl/performance-now.git)
VendorName: Braveg1rl
VendorUrl: <https://github.com/braveg1rl/performance-now>
pify@2.3.0
URL: <https://github.com/sindresorhus/pify.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
pinkie-promise@2.0.1
URL: <https://github.com/floatdrop/pinkie-promise.git>
VendorName: Vsevolod Strukchinsky
VendorUrl: github.com/floatdrop
pinkie@2.0.4
URL: <https://github.com/floatdrop/pinkie.git>
VendorName: Vsevolod Strukchinsky
VendorUrl: github.com/floatdrop
portfinder@0.4.0
URL: [git@github.com:indexzero/node-portfinder.git](https://github.com/indexzero/node-portfinder.git)
VendorName: Charlie Robbins
preserve@0.2.0
URL: [git://github.com/jonschlinkert/preserve.git](https://github.com/jonschlinkert/preserve.git)
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/preserve>
private@0.1.8
URL: [git://github.com/benjamn/private.git](https://github.com/benjamn/private.git)
VendorName: Ben Newman
VendorUrl: [http://github.com/benjamn/private](https://github.com/benjamn/private)
process-nextick-args@1.0.7
URL: <https://github.com/calvinmetcalf/process-nextick-args.git>
VendorUrl: <https://github.com/calvinmetcalf/process-nextick-args>

process-nexttick-args@2.0.1
URL: <https://github.com/calvinmetcalf/process-nexttick-args.git>
VendorUrl: <https://github.com/calvinmetcalf/process-nexttick-args>

progress@1.1.8
URL: <git://github.com/visionmedia/node-progress>
VendorName: TJ Holowaychuk

promise-map-series@0.2.3
URL: <https://github.com/joliss/promise-map-series>
VendorName: Jo Liss

promise@7.3.1
URL: <https://github.com/then/promise.git>
VendorName: ForbesLindesay

proxy-addr@2.0.5
URL: <https://github.com/jshttp/proxy-addr.git>
VendorName: Douglas Christopher Wilson

pr@1.0.1
URL: <https://github.com/rvagg/pr.git>
VendorName: Rod Vagg
VendorUrl: <https://github.com/rvagg/pr>

psl@1.6.0
URL: <git@github.com:lupomontero/psl.git>
VendorName: Lupo Montero
VendorUrl: <https://lupomontero.com/>

punycode@1.4.1
URL: <https://github.com/bestiejs/punycode.js.git>
VendorName: Mathias Bynens
VendorUrl: <https://mths.be/punycode>

punycode@2.1.1
URL: <https://github.com/bestiejs/punycode.js.git>
VendorName: Mathias Bynens
VendorUrl: <https://mths.be/punycode>

q@1.5.1
URL: <git://github.com/kriskowal/q.git>
VendorName: Kris Kowal
VendorUrl: <https://github.com/kriskowal/q>

quick-temp@0.1.3
URL: <https://github.com/joliss/node-quick-temp>
VendorName: Jo Liss

quick-temp@0.1.8
URL: <https://github.com/joliss/node-quick-temp>
VendorName: Jo Liss

qunitjs@1.23.1
URL: <git://github.com/jquery/qunit.git>
VendorName: jQuery Foundation and other contributors
VendorUrl: <https://qunitjs.com/>

randomatic@3.1.1
URL: <https://github.com/jonschlinkert/randomatic.git>
VendorName: Jon Schlinkert

VendorUrl: <https://github.com/jonschlinkert/randomatic>
range-parser@1.2.1
URL: <https://github.com/jshttp/range-parser.git>
VendorName: TJ Holowaychuk
VendorUrl: <http://tjholowaychuk.com>

raw-body@2.1.7
URL: <https://github.com/stream-utils/raw-body.git>
VendorName: Jonathan Ong
VendorUrl: <http://jongleberry.com>

raw-body@2.4.0
URL: <https://github.com/stream-utils/raw-body.git>
VendorName: Jonathan Ong
VendorUrl: <http://jongleberry.com>

read-pkg-up@1.0.1
URL: <https://github.com/sindresorhus/read-pkg-up.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

read-pkg@1.1.0
URL: <https://github.com/sindresorhus/read-pkg.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

readable-stream@1.1.13
URL: <git://github.com/isaacs/readable-stream>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

readable-stream@1.1.14
URL: <git://github.com/isaacs/readable-stream>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

readable-stream@2.0.6
URL: <git://github.com/nodejs/readable-stream>

readable-stream@2.3.6
URL: <git://github.com/nodejs/readable-stream>

readline2@0.1.1
URL: <https://github.com/SBoudrias/readline2.git>
VendorName: Simon Boudrias

recast@0.10.33
URL: <git://github.com/benjamn/recast.git>
VendorName: Ben Newman
VendorUrl: <http://github.com/benjamn/recast>

recast@0.10.43
URL: <git://github.com/benjamn/recast.git>
VendorName: Ben Newman
VendorUrl: <http://github.com/benjamn/recast>

recast@0.11.23
URL: <git://github.com/benjamn/recast.git>
VendorName: Ben Newman
VendorUrl: <http://github.com/benjamn/recast>

redent@1.0.0
URL: <https://github.com/sindresorhus/redent.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

redeyed@0.5.0
URL: [git://github.com/thlorenz/redeyed.git](https://github.com/thlorenz/redeyed.git)
VendorName: Thorsten Lorenz
VendorUrl: thlorenz.com

regenerate@1.4.0
URL: <https://github.com/mathiasbynens/regenerate.git>
VendorName: Mathias Bynens
VendorUrl: <https://mths.be/regenerate>

regex-cache@0.4.4
URL: <https://github.com/jonschlinkert/regex-cache.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/regex-cache>

regexpu@1.3.0
URL: <https://github.com/mathiasbynens/regexpu.git>
VendorName: Mathias Bynens
VendorUrl: <https://mths.be/regexpu>

regjsgen@0.2.0
URL: <https://github.com/d10/regjsgen.git>
VendorName: Benjamin Tan
VendorUrl: <https://github.com/d10/regjsgen>

repeat-element@1.1.3
URL: <https://github.com/jonschlinkert/repeat-element.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/repeat-element>

repeat-string@1.6.1
URL: <https://github.com/jonschlinkert/repeat-string.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/repeat-string>

repeating@1.1.3
URL: <https://github.com/sindresorhus/repeating.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

repeating@2.0.1
URL: <https://github.com/sindresorhus/repeating.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

request-progress@2.0.1
URL: [git://github.com/IndigoUnited/node-request-progress](https://github.com/IndigoUnited/node-request-progress)
VendorName: IndigoUnited
VendorUrl: <http://indigounited.com>

require-directory@2.1.1
URL: [git://github.com/troygoode/node-require-directory.git](https://github.com/troygoode/node-require-directory.git)
VendorName: Troy Goode
VendorUrl: <https://github.com/troygoode/node-require-directory/>

requires-port@1.0.0
URL: <https://github.com/unshiftio/requires-port>
VendorName: Arnout Kazemier
VendorUrl: <https://github.com/unshiftio/requires-port>

resolve-package-path@1.2.7
resolve@1.14.1
URL: <git://github.com/browserify/resolve.git>
VendorName: James Halliday
VendorUrl: <http://substack.net>

retry@0.8.0
URL: <git://github.com/tim-kos/node-retry.git>
VendorName: Tim Koschtzki
VendorUrl: <https://github.com/tim-kos/node-retry>

right-align@0.1.3
URL: <git://github.com/jonschlinkert/right-align.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/right-align>

rimraf@2.2.8
URL: <git://github.com/isaacs/rimraf.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

rsvp@3.0.21
URL: <https://github.com/tildeio/rsvp.js.git>
VendorName: Tilde, Inc. & Stefan Penner

rsvp@3.2.1
URL: <https://github.com/tildeio/rsvp.js.git>
VendorName: Tilde, Inc. & Stefan Penner

rsvp@3.6.2
URL: <https://github.com/tildeio/rsvp.js.git>
VendorName: Tilde, Inc. & Stefan Penner

rsvp@4.8.5
URL: <https://github.com/tildeio/rsvp.js.git>
VendorName: Tilde, Inc. & Stefan Penner
VendorUrl: <https://github.com/tildeio/rsvp.js>

safe-buffer@5.1.2
URL: <git://github.com/feross/safe-buffer.git>
VendorName: Feross Aboukhadijeh
VendorUrl: <https://github.com/feross/safe-buffer>

safe-buffer@5.2.0
URL: <git://github.com/feross/safe-buffer.git>
VendorName: Feross Aboukhadijeh
VendorUrl: <https://github.com/feross/safe-buffer>

safer-buffer@2.1.2
URL: <git+https://github.com/ChALkeR/safer-buffer.git>
VendorName: Nikita Skovoroda
VendorUrl: <https://github.com/ChALkeR>

sane@1.7.0
URL: <https://github.com/amasad/sane>

VendorName: amasad
VendorUrl: <https://github.com/amasad/sane>
sass-graph@2.2.4
URL: <https://github.com/xzyfer/sass-graph.git>
VendorName: xzyfer
scss-tokenizer@0.2.3
URL: <https://github.com/sasstools/scss-tokenizer.git>
VendorName: xzyfer
VendorUrl: <https://github.com/sasstools/scss-tokenizer>
select2@4.0.0
URL: <git://github.com/select2/select2.git>
VendorName: Kevin Brown
VendorUrl: <https://select2.github.io/>
send@0.17.1
URL: <https://github.com/pillarjs/send.git>
VendorName: TJ Holowaychuk
serve-static@1.14.1
URL: <https://github.com/expressjs/serve-static.git>
VendorName: Douglas Christopher Wilson
shebang-regex@1.0.0
URL: <https://github.com/sindresorhus/shebang-regex.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
simple-fmt@0.1.0
URL: <https://github.com/olov/simple-fmt.git>
VendorName: Olov Lassus
simple-is@0.2.0
URL: <https://github.com/olov/simple-is.git>
VendorName: Olov Lassus
slash@1.0.0
URL: <https://github.com/sindresorhus/slash.git>
VendorName: Sindre Sorhus
VendorUrl: <http://sindresorhus.com>
socket.io-client-pure@1.3.12
URL: <https://github.com/Automattic/socket.io-client.git>
socket.io-parser@2.2.2
URL: <https://github.com/Automattic/socket.io-parser.git>
socket.io-parser@2.2.4
URL: <https://github.com/Automattic/socket.io-parser.git>
socket.io-pure@1.3.12
URL: <git://github.com/Automattic/socket.io>
source-map-support@0.2.10
URL: <https://github.com/evanw/node-source-map-support>
source-map-url@0.3.0
URL: <https://github.com/lydell/source-map-url.git>
VendorName: Simon Lydell
spawnback@1.0.0
URL: <git://github.com/scottgonzalez/spawnback.git>

VendorName: Scott Gonzalez
VendorUrl: <https://github.com/scottgonzalez/spawnback>
spdx-expression-parse@3.0.0
URL: <https://github.com/jslicense/spdx-expression-parse.js.git>
VendorName: Kyle E. Mitchell
VendorUrl: <http://kemitchell.com>
sri-toolbox@0.2.0
URL: <https://github.com/neftaly/npm-sri-toolbox.git>
VendorName: Neftaly Hernandez
sshpk@1.16.1
URL: <git+https://github.com/joyent/node-sshpk.git>
VendorName: Joyent, Inc
VendorUrl: <https://github.com/arekinath/node-sshpk#readme>
stable@0.1.8
URL: <https://github.com/Two-Screen/stable.git>
VendorName: Angry Bytes
statuses@1.5.0
URL: <https://github.com/jshhttp/statuses.git>
stdout-stream@1.4.1
URL: <https://github.com/mafintosh/stdout-stream.git>
string_decoder@0.10.31
URL: git://github.com/rvagg/string_decoder.git
VendorUrl: https://github.com/rvagg/string_decoder
string_decoder@1.1.1
URL: git://github.com/nodejs/string_decoder.git
VendorUrl: https://github.com/nodejs/string_decoder
string-width@1.0.2
URL: <https://github.com/sindresorhus/string-width.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
string-width@2.1.1
URL: <https://github.com/sindresorhus/string-width.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
string.prototype.endsWith@0.2.0
URL: <https://github.com/mathiasbynens/String.prototype.endsWith.git>
VendorName: Mathias Bynens
VendorUrl: <http://mths.be/endsWith>
stringmap@0.2.2
URL: <https://github.com/olov/stringmap.git>
VendorName: Olov Lassus
stringset@0.2.1
URL: <https://github.com/olov/stringset.git>
VendorName: Olov Lassus
stringstream@0.0.6
URL: <https://github.com/mhart/StringStream.git>
VendorName: Michael Hart
VendorUrl: <http://github.com/mhart>

strip-ansi@0.1.1
URL: <https://github.com/sindresorhus/strip-ansi.git>
VendorName: Sindre Sorhus
VendorUrl: <http://sindresorhus.com>

strip-ansi@0.3.0
URL: <https://github.com/sindresorhus/strip-ansi.git>
VendorName: Sindre Sorhus
VendorUrl: <http://sindresorhus.com>

strip-ansi@2.0.1
URL: <https://github.com/sindresorhus/strip-ansi.git>
VendorName: Sindre Sorhus
VendorUrl: <http://sindresorhus.com>

strip-ansi@3.0.1
URL: <https://github.com/chalk/strip-ansi.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

strip-ansi@4.0.0
URL: <https://github.com/chalk/strip-ansi.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

strip-bom@2.0.0
URL: <https://github.com/sindresorhus/strip-bom.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

strip-indent@1.0.1
URL: <https://github.com/sindresorhus/strip-indent.git>
VendorName: Sindre Sorhus
VendorUrl: <http://sindresorhus.com>

strip-json-comments@1.0.4
URL: <https://github.com/sindresorhus/strip-json-comments.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

styled_string@0.0.1
VendorName: Toby Ho

supports-color@0.2.0
URL: <https://github.com/sindresorhus/supports-color.git>
VendorName: Sindre Sorhus
VendorUrl: <http://sindresorhus.com>

supports-color@2.0.0
URL: <https://github.com/chalk/supports-color.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

supports-color@5.5.0
URL: <https://github.com/chalk/supports-color.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

symlink-or-copy@1.3.1
URL: <https://github.com/broccolijs/node-symlink-or-copy>

VendorName: Jo Liss
tap-parser@1.3.2
URL: [git://github.com/substack/tap-parser.git](https://github.com/substack/tap-parser.git)
VendorName: James Halliday
VendorUrl: <https://github.com/substack/tap-parser>
temp@0.8.1
URL: [git://github.com/bruce/node-temp.git](https://github.com/bruce/node-temp.git)
VendorName: Bruce Williams
testem@0.9.11
URL: [git://github.com/airportyh/testem.git](https://github.com/airportyh/testem.git)
VendorName: Toby Ho
text-table@0.2.0
URL: [git://github.com/substack/text-table.git](https://github.com/substack/text-table.git)
VendorName: James Halliday
VendorUrl: <https://github.com/substack/text-table>
textextensions@2.6.0
URL: <https://github.com/bevry/textextensions.git>
VendorName: 2013+ Bevry Pty Ltd
VendorUrl: <https://github.com/bevry/textextensions>
throttleit@1.0.0
URL: [git://github.com/component/throttle.git](https://github.com/component/throttle.git)
through@2.3.8
URL: <https://github.com/dominictarr/through.git>
VendorName: Dominic Tarr
VendorUrl: <https://github.com/dominictarr/through>
tiny-lr@0.2.0
URL: [git://github.com/mklabs/tiny-lr.git](https://github.com/mklabs/tiny-lr.git)
VendorName: mklabs
VendorUrl: <https://github.com/mklabs/tiny-lr>
tmp@0.0.28
URL: [git://github.com/raszi/node-tmp.git](https://github.com/raszi/node-tmp.git)
VendorName: KARASZI Istvn
VendorUrl: <http://github.com/raszi/node-tmp>
to-array@0.1.3
URL: [git://github.com/Raynos/to-array.git](https://github.com/Raynos/to-array.git)
VendorName: Raynos
VendorUrl: <https://github.com/Raynos/to-array>
to-fast-properties@1.0.3
URL: <https://github.com/sindresorhus/to-fast-properties.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
toidentifier@1.0.0
URL: <https://github.com/component/toidentifier.git>
VendorName: Douglas Christopher Wilson
trim-newlines@1.0.0
URL: <https://github.com/sindresorhus/trim-newlines.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

trim-right@1.0.1
URL: <https://github.com/sindresorhus/trim-right.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

try-resolve@1.0.1
URL: <https://github.com/sebmck/try-resolve.git>
VendorName: Sebastian McKenzie

tryor@0.1.2
URL: <https://github.com/olov/tryor.git>
VendorName: Olov Lassus

type-is@1.6.18
URL: <https://github.com/jshttp/type-is.git>

typedarray@0.0.6
URL: [git://github.com/substack/typedarray.git](https://github.com/substack/typedarray.git)
VendorName: James Halliday
VendorUrl: <https://github.com/substack/typedarray>

uc.micro@1.0.6
URL: <https://github.com/markdown-it/uc.micro.git>

uglify-to-browserify@1.0.2
URL: <https://github.com/ForbesLindesay/uglify-to-browserify.git>
VendorName: ForbesLindesay

ultron@1.0.2
URL: <https://github.com/unshiftio/ultron>
VendorName: Arnout Kazemier
VendorUrl: <https://github.com/unshiftio/ultron>

umask@1.1.0
URL: <https://github.com/smikes/umask.git>
VendorName: Sam Mikes
VendorUrl: <https://github.com/smikes/umask>

underscore.string@2.3.3
URL: <https://github.com/epeli/underscore.string.git>
VendorUrl: <http://epeli.github.com/underscore.string/>

underscore.string@3.3.5
URL: <https://github.com/epeli/underscore.string.git>
VendorUrl: <http://epeli.github.com/underscore.string/>

underscore@1.9.1
URL: [git://github.com/jashkenas/underscore.git](https://github.com/jashkenas/underscore.git)
VendorName: Jeremy Ashkenas
VendorUrl: <http://underscorejs.org/>

universalify@0.1.2
URL: [git+https://github.com/RyanZim/universalify.git](https://github.com/RyanZim/universalify.git)
VendorName: Ryan Zimmerman
VendorUrl: <https://github.com/RyanZim/universalify#readme>

unpipe@1.0.0
URL: <https://github.com/stream-utils/unpipe.git>
VendorName: Douglas Christopher Wilson

user-home@1.1.1
URL: <https://github.com/sindresorhus/user-home.git>

VendorName: Sindre Sorhus
VendorUrl: <http://sindresorhus.com>
username-sync@1.0.2
URL: [git@github.com:stefanpenner/username-sync](https://github.com:stefanpenner/username-sync)
VendorName: Stefan Penner
utf8@2.1.0
URL: <https://github.com/mathiasbynens/utf8.js.git>
VendorName: Mathias Bynens
VendorUrl: <https://mths.be/utf8js>
util-deprecate@1.0.2
URL: [git://github.com/TooTallNate/util-deprecate.git](https://github.com/TooTallNate/util-deprecate.git)
VendorName: Nathan Rajlich
VendorUrl: <https://github.com/TooTallNate/util-deprecate>
util-extend@1.0.3
URL: [git://github.com/isaacs/util-extend](https://github.com/isaacs/util-extend)
utils-merge@1.0.1
URL: [git://github.com/jaredhanson/utils-merge.git](https://github.com/jaredhanson/utils-merge.git)
VendorName: Jared Hanson
VendorUrl: <http://www.jaredhanson.net/>
uuid@2.0.3
URL: <https://github.com/defunctzombie/node-uuid.git>
VendorName: Robert Kieffer
uuid@3.3.3
URL: <https://github.com/kelektiv/node-uuid.git>
vary@1.1.2
URL: <https://github.com/jshttp/vary.git>
VendorName: Douglas Christopher Wilson
verror@1.10.0
URL: [git://github.com/davepacheco/node-verror.git](https://github.com/davepacheco/node-verror.git)
walk-sync@0.1.3
URL: <https://github.com/joliss/node-walk-sync>
VendorName: Jo Liss
walk-sync@0.2.7
URL: <https://github.com/joliss/node-walk-sync>
VendorName: Jo Liss
walk-sync@0.3.4
URL: <https://github.com/joliss/node-walk-sync>
VendorName: Jo Liss
wewidth@1.0.1
URL: [git+https://github.com/timoxley/wewidth.git](https://github.com/timoxley/wewidth.git)
VendorName: Tim Oxley
VendorUrl: <https://github.com/timoxley/wewidth#readme>
websocket-extensions@0.1.3
URL: [git://github.com/faye/websocket-extensions-node.git](https://github.com/faye/websocket-extensions-node.git)
VendorName: James Coglan
VendorUrl: [http://github.com/faye/websocket-extensions-node](https://github.com/faye/websocket-extensions-node)
window-size@0.1.0
URL: <https://github.com/jonschlinkert/window-size.git>

VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/window-size>
window-size@0.1.4
URL: <https://github.com/jonschlinkert/window-size.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/window-size>
wordwrap@0.0.2
URL: <git://github.com/substack/node-wordwrap.git>
VendorName: James Halliday
VendorUrl: <http://substack.net>
wordwrap@0.0.3
URL: <git://github.com/substack/node-wordwrap.git>
VendorName: James Halliday
VendorUrl: <http://substack.net>
wrap-ansi@2.1.0
URL: <https://github.com/chalk/wrap-ansi.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
ws-pure@0.8.0
URL: <git://github.com/patocallaghan/ws.git>
VendorName: Pat O'Callaghan
xdg-basedir@2.0.0
URL: <https://github.com/sindresorhus/xdg-basedir.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
xmlhttprequest-ssl@1.5.1
URL: <git://github.com/mjwwit/node-XMLHttpRequest.git>
VendorName: Michael de Wit
xtend@4.0.2
URL: <git://github.com/Raynos/xtend.git>
VendorName: Raynos
VendorUrl: <https://github.com/Raynos/xtend>
yam@0.0.18
URL: <https://github.com/twokul/yam>
VendorName: Alex Navasardyan
VendorUrl: <http://twokul.io>
yargs@3.10.0
URL: <http://github.com/bcoe/yargs.git>
VendorName: Alex Ford
VendorUrl: <http://CodeTunnel.com>
yargs@3.27.0
URL: <http://github.com/bcoe/yargs.git>
VendorName: Alex Ford
VendorUrl: <http://CodeTunnel.com>
yargs@7.1.0
URL: <http://github.com/yargs/yargs.git>
VendorUrl: <http://yargs.js.org/>
yauzl@2.4.1

URL: <https://github.com/thejoshwolfe/yauzl.git>
VendorName: Josh Wolfe
VendorUrl: <https://github.com/thejoshwolfe/yauzl>

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after@0.8.1
URL: <git://github.com/Raynos/after.git>
VendorName: Raynos

assert-plus@0.1.5
URL: <https://github.com/mcavage/node-assert-plus.git>
VendorName: Mark Cavage

async-foreach@0.1.3
URL: <git://github.com/cowboy/javascript-sync-async-foreach.git>
VendorName: "Cowboy" Ben Alman
VendorUrl: <http://github.com/cowboy/javascript-sync-async-foreach>

blob@0.0.4
URL: <git@github.com:ruse-/blob.git>
VendorUrl: <https://github.com/ruse-/blob>

callsite@1.0.0
VendorName: TJ Holowaychuk

component-bind@1.0.0
URL: <https://github.com/component/bind.git>

component-emitter@1.1.2
URL: <https://github.com/component/emitter.git>

component-inherit@0.0.3
URL: <https://github.com/component/inherit.git>

engine.io-client-pure@1.5.9
URL: <https://github.com/Automattic/engine.io-client.git>
VendorUrl: <http://socket.io/>

git-tools@0.1.4
URL: <git://github.com/scottgonzalez/node-git-tools.git>
VendorName: Scott Gonzlez
VendorUrl: <https://github.com/scottgonzalez/node-git-tools>

indexOf@0.0.1

ms@0.6.2
URL: <git://github.com/guille/ms.js.git>

object-component@0.0.3

socket.io-adapter@0.3.1
URL: <git://github.com/Automattic/socket.io-adapter.git>

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jsonify@0.0.0
URL: <http://github.com/substack/jsonify.git>
VendorName: Douglas Crockford
VendorUrl: <http://crockford.com/>

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sntp@1.0.9
URL: <git://github.com/hueniverse/sntp>
VendorName: Eran Hammer
VendorUrl: <http://hueniverse.com>

UNKNOWN

base64id@0.1.0

URL: <https://github.com/faeldt/base64id.git>

VendorName: Kristian Faeldt

colors@0.6.2

URL: <http://github.com/Marak/colors.js.git>

VendorName: Marak Squires

VendorUrl: <https://github.com/Marak/colors.js>

Unlicense

spdx-license-ids@1.2.2

URL: <https://github.com/shinnn/spdx-license-ids.git>

VendorName: Shinnosuke Watanabe

VendorUrl: <https://github.com/shinnn>

tweetnacl@0.14.5

URL: <https://github.com/dchest/tweetnacl-js.git>

VendorName: TweetNaCl-js contributors

VendorUrl: <https://tweetnacl.js.org/>

WTFPL

sorted-object@1.0.0

URL: <git://github.com/domenic/sorted-object.git>

VendorName: Domenic Denicola

VendorUrl: <http://domenic.me/>

WTFPL OR ISC

is-integer@1.0.7

URL: <git@github.com:parshap/js-is-integer>

VendorName: Parsha Pourkhomami

Done in 0.84s.

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JUnit

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`src/test/resources/CSVFileParser/testCSV85.csv`
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* java.sun.security.ssl

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jaxb-api

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LZ4 - Fast LZ compression algorithm

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uriparser - RFC 3986 URI parsing library

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hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/datanode/checker/AbstractFuture.java
hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/datanode/checker/TimeoutFuture.java

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hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-client-nativetask/src/main/native/lz4/lz4.{c|h}
hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/native/container-executor/impl/compat/{fstatat|openat|unlinkat}.h

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hadoop-common-project/hadoop-common/src/main/java/org/apache/hadoop/util/bloom/*
hadoop-common-project/hadoop-common/src/main/native/gtest/gtest-all.cc
hadoop-common-project/hadoop-common/src/main/native/gtest/include/gtest/gtest.h
hadoop-common-project/hadoop-common/src/main/native/src/org/apache/hadoop/util/bulk_crc32_x86.c
hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/libhdfspp/third_party/protobuf/protobuf/cpp_helpers.h
hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/libhdfspp/third_party/gmock-1.7.0/*/*.{cc|h}
hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/d3.v3.js
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/d3-v4.1.1.min.js

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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dataTables.bootstrap.js
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hadoop-yarn-project/hadoop-yarn/hadoop-yarn-applications/hadoop-yarn-applications-catalog/hadoop-yarn-applications-catalog-webapp/node_modules/.bin/r.js
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/dt-1.10.18/*
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/jquery
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/jt/jquery.jstree.js
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/resources/TERMINAL

uriparser2 (hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/libhdfspp/third_party/uriparser2)
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/native/container-executor/impl/utils/cJSON.[ch]

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asio-1.10.2 (hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/libhdfspp/third_party/asio-1.10.2)
rapidxml-1.13 (hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/libhdfspp/third_party/rapidxml-1.13)
tr2 (hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/libhdfspp/third_party/tr2)

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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/json-bignum.js

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Hadoop Yarn Server Web Proxy uses the BouncyCastle Java cryptography APIs written by the Legion of the Bouncy Castle Inc. For portions of the native implementation of slicing-by-8 CRC calculation in `src/main/native/src/org/apache/hadoop/util`:

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*

* Abstract: The main routine

*

--*/

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URL: <https://github.com/choffmeister/roboto-fontface-bower.git>

VendorName: Christian Hoffmeister

VendorUrl: <https://github.com/choffmeister/roboto-fontface-bower>

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entities@1.1.2

URL: <git://github.com/fb55/entities.git>

VendorName: Felix Boehm

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shelljs@0.2.6

URL: <git://github.com/arturadib/shelljs.git>

VendorName: Artur Adib

VendorUrl: <http://github.com/arturadib/shelljs>

sprintf-js@1.0.3

URL: <https://github.com/alexei/sprintf.js.git>

VendorName: Alexandru Marasteanu

VendorUrl: <http://alexei.ro/>

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fs.realpath@1.0.0

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glob@7.1.6

URL: <git://github.com/isaacs/node-glob.git>

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VendorName: Angular Core Team
VendorUrl: <http://angularjs.org/>
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URL: <git://github.com/bigpipe/enabled.git>
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fast-safe-stringify@2.0.7
URL: <git+https://github.com/davidmarkclements/fast-safe-stringify.git>
VendorName: David Mark Clements
VendorUrl: <https://github.com/davidmarkclements/fast-safe-stringify#readme>
fecha@2.3.3
URL: <https://taylorhakes@github.com/taylorhakes/fecha.git>
VendorName: Taylor Hakes
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fs-extra@3.0.1
URL: <https://github.com/jprichardson/node-fs-extra>
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VendorName: Alexander Shtuchkin
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is-stream@1.1.0
URL: <https://github.com/sindresorhus/is-stream.git>
VendorName: Sindre Sorhus

VendorUrl: sindresorhus.com
isarray@1.0.0
URL: git://github.com/juliangruber/isarray.git
VendorName: Julian Gruber
VendorUrl: https://github.com/juliangruber/isarray

jquery@3.3.1
URL: https://github.com/jquery/jquery.git
VendorName: JS Foundation and other contributors
VendorUrl: https://jquery.com/

jsonfile@3.0.1
URL: git@github.com:jprichardson/node-jsonfile.git
VendorName: JP Richardson

jsonfile@4.0.0
URL: git@github.com:jprichardson/node-jsonfile.git
VendorName: JP Richardson

klaw-sync@2.1.0
URL: git+https://github.com/manidlou/node-klaw-sync.git
VendorName: Mani Maghsoudlou
VendorUrl: https://github.com/manidlou/node-klaw-sync#readme

kuler@1.0.1
URL: https://github.com/3rd-Eden/kuler
VendorName: Arnout Kazemier
VendorUrl: https://github.com/3rd-Eden/kuler

linkify-it@2.2.0
URL: https://github.com/markdown-it/linkify-it.git

lodash@4.17.15
URL: https://github.com/lodash/lodash.git
VendorName: John-David Dalton
VendorUrl: https://lodash.com/

logform@2.1.2
URL: git+https://github.com/winstonjs/logform.git
VendorName: Charlie Robbins
VendorUrl: https://github.com/winstonjs/logform#readme

markdown-it@8.4.2
URL: https://github.com/markdown-it/markdown-it.git

mdurl@1.0.1
URL: https://github.com/markdown-it/mdurl.git

ms@2.1.2
URL: https://github.com/zeit/ms.git

one-time@0.0.4
URL: https://github.com/unshiftio/one-time
VendorName: Arnout Kazemier

path-is-absolute@1.0.1
URL: https://github.com/sindresorhus/path-is-absolute.git
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

process-nextick-args@2.0.1
URL: https://github.com/calvinmetcalf/process-nextick-args.git

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URL: <https://github.com/jrburke/r.js>.git
VendorName: James Burke
VendorUrl: <http://github.com/jrburke/r.js>
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VendorUrl: <https://github.com/feross/safe-buffer>
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VendorName: Nikita Skovoroda
VendorUrl: <https://github.com/ChALkeR>
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stack-trace@0.0.10
URL: <git://github.com/felixge/node-stack-trace>.git
VendorName: Felix Geisendrfer
VendorUrl: <https://github.com/felixge/node-stack-trace>
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URL: <https://github.com/3rd-Eden/text-hex>
VendorName: Arnout Kazemier
VendorUrl: <https://github.com/3rd-Eden/text-hex>
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VendorName: Charlie Robbins
VendorUrl: <https://github.com/winstonjs/triple-beam#readme>
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universalify@0.1.2
URL: <git+https://github.com/RyanZim/universalify>.git
VendorName: Ryan Zimmerman

VendorUrl: <https://github.com/RyanZim/universalify#readme>
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URL: <git://github.com/TooTallNate/util-depreccate.git>
VendorName: Nathan Rajlich
VendorUrl: <https://github.com/TooTallNate/util-depreccate>
winston-transport@4.3.0
URL: <git://github.com:winstonjs/winston-transport.git>
VendorName: Charlie Robbins
VendorUrl: <https://github.com/winstonjs/winston-transport#readme>
winston@3.2.1
URL: <https://github.com/winstonjs/winston.git>
VendorName: Charlie Robbins

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ASM: a very small and fast Java bytecode manipulation framework

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hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/datanode/checker/TimeoutFuture.java

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com.fasterxml.uuid:java-uuid-generator:3.1.4
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org.ehcache:ehcache:3.3.1
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org.objenesis:objenesis:2.6
org.xerial.snappy:snappy-java:1.1.8.2
org.yaml:snakeyaml:1.26
org.wildfly.openssl:wildfly-openssl:1.0.7.Final

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com.github.luben:zstd-jni:1.4.3-1
dnsjava:dnsjava:2.1.7
org.codehaus.woodstox:stax2-api:4.2.1

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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dust-helpers-1.1.1.min.js
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/jquery-3.5.1.min.js
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/jquery.dataTables.min.js
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/moment.min.js
hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/bootstrap.min.js
hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/jquery.js
hadoop-tools/hadoop-sls/src/main/html/css/bootstrap.min.css
hadoop-tools/hadoop-sls/src/main/html/css/bootstrap-responsive.min.css
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-applications/hadoop-yarn-applications-catalog/hadoop-yarn-applications-catalog-webapp/node_modules/.bin/r.js
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/dt-1.10.18/*

hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/jquery
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/jt/jquery.jstree.js
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-
nodemanager/src/main/resources/TERMINAL

uriparser2 (hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/libhdfspp/third_party/uriparser2)

com.microsoft.azure:azure-cosmosdb:2.4.5
com.microsoft.azure:azure-cosmosdb-commons:2.4.5
com.microsoft.azure:azure-cosmosdb-direct:2.4.5
com.microsoft.azure:azure-cosmosdb-gateway:2.4.5
com.microsoft.azure:azure-data-lake-store-sdk:2.3.9
com.microsoft.azure:azure-keyvault-core:1.0.0
com.microsoft.sqlserver:mssql-jdbc:6.2.1.jre7
org.bouncycastle:bcpkix-jdk15on:1.60
org.bouncycastle:bcprov-jdk15on:1.60
org.checkerframework:checker-qual:2.5.2
org.checkerframework:checker-qual:3.8.0
org.codehaus.mojo:animal-sniffer-annotations:1.17
org.jruby.jcodings:jcodings:1.0.13
org.jruby.joni:joni:2.1.2
org.ojalgo:ojalgo:43.0
org.slf4j:jul-to-slf4j:1.7.30
org.slf4j:slf4j-api:1.7.30
org.slf4j:slf4j-log4j12:1.7.30

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com.sun.jersey:jersey-client:1.19
com.sun.jersey:jersey-core:1.19
com.sun.jersey:jersey-guice:1.19
com.sun.jersey:jersey-json:1.19
com.sun.jersey:jersey-server:1.19
com.sun.jersey:jersey-servlet:1.19
com.sun.xml.bind:jaxb-impl:2.2.3-1
javax.annotation:javax.annotation-api:1.3.2
javax.servlet:javax.servlet-api:3.1.0
javax.servlet.jsp:jsp-api:2.1
javax.websocket:javax.websocket-api:1.0
javax.websocket:javax.websocket-client-api:1.0
javax.ws.rs:jsr311-api:1.1.1
javax.xml.bind:jaxb-api:2.2.11

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asio-1.10.2 (hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/libhdfspp/third_party/asio-1.10.2)
rapidxml-1.13 (hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/libhdfspp/third_party/rapidxml-1.13)
tr2 (hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/libhdfspp/third_party/tr2)

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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/json-bignum.js

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See LICENSE-binary-yarn-ui for yarn-managed packages at hadoop-yarn-project/hadoop-yarn/hadoop-yarn-ui/src/main/webapp

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1.11 aws-java-sdk-for-amazon-dynamodb-accelerator-(dax) 1.11.508

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- * /opt/cola/permits/1138782680_1614337361.17/0/cglib-2-2-0-b21-sources-3-jar/net/sf/cglib/core/DefaultGeneratorStrategy.java
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- * /opt/cola/permits/1138782680_1614337361.17/0/cglib-2-2-0-b21-sources-3-jar/net/sf/cglib/core/Transformer.java
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- * /opt/cola/permits/1138782680_1614337361.17/0/cglib-2-2-0-b21-sources-3-jar/net/sf/cglib/core/NamingPolicy.java
- * /opt/cola/permits/1138782680_1614337361.17/0/cglib-2-2-0-b21-sources-3-jar/net/sf/cglib/beans/BulkBean.java
- * /opt/cola/permits/1138782680_1614337361.17/0/cglib-2-2-0-b21-sources-3-jar/net/sf/cglib/core/ObjectSwitchCallback.java
- * /opt/cola/permits/1138782680_1614337361.17/0/cglib-2-2-0-b21-sources-3-jar/net/sf/cglib/beans/BeanGenerator.java
- * /opt/cola/permits/1138782680_1614337361.17/0/cglib-2-2-0-b21-sources-3-jar/net/sf/cglib/proxy/MixinBeanEmitter.java
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- * /opt/cola/permits/1138782680_1614337361.17/0/cglib-2-2-0-b21-sources-3-jar/net/sf/cglib/transform/ClassFilter.java
- * /opt/cola/permits/1138782680_1614337361.17/0/cglib-2-2-0-b21-sources-3-jar/net/sf/cglib/transform/FieldVisitorTee.java
- * /opt/cola/permits/1138782680_1614337361.17/0/cglib-2-2-0-b21-sources-3-jar/net/sf/cglib/core/ProcessArrayCallback.java
- * /opt/cola/permits/1138782680_1614337361.17/0/cglib-2-2-0-b21-sources-3-jar/net/sf/cglib/util/ParallelSorterEmitter.java
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- * /opt/cola/permits/1138782680_1614337361.17/0/cglib-2-2-0-b21-sources-3-jar/net/sf/cglib/transform/impl/InterceptFieldEnabled.java
- * /opt/cola/permits/1138782680_1614337361.17/0/cglib-2-2-0-b21-sources-3-

jar/net/sf/cglib/transform/ClassTransformer.java
* /opt/cola/permits/1138782680_1614337361.17/0/cglib-2-2-0-b21-sources-3-
jar/net/sf/cglib/transform/ClassTransformerFactory.java
* /opt/cola/permits/1138782680_1614337361.17/0/cglib-2-2-0-b21-sources-3-jar/net/sf/cglib/proxy/NoOp.java
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* /opt/cola/permits/1138782680_1614337361.17/0/cglib-2-2-0-b21-sources-3-
jar/net/sf/cglib/transform/impl/FieldProvider.java
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* /opt/cola/permits/1138782680_1614337361.17/0/cglib-2-2-0-b21-sources-3-
jar/net/sf/cglib/util/StringSwitcher.java
* /opt/cola/permits/1138782680_1614337361.17/0/cglib-2-2-0-b21-sources-3-jar/net/sf/cglib/proxy/Callback.java
* /opt/cola/permits/1138782680_1614337361.17/0/cglib-2-2-0-b21-sources-3-jar/net/sf/cglib/core/Block.java
* /opt/cola/permits/1138782680_1614337361.17/0/cglib-2-2-0-b21-sources-3-jar/net/sf/cglib/core/Predicate.java
* /opt/cola/permits/1138782680_1614337361.17/0/cglib-2-2-0-b21-sources-3-
jar/net/sf/cglib/transform/ClassEmitterTransformer.java
* /opt/cola/permits/1138782680_1614337361.17/0/cglib-2-2-0-b21-sources-3-
jar/net/sf/cglib/reflect/FastConstructor.java
* /opt/cola/permits/1138782680_1614337361.17/0/cglib-2-2-0-b21-sources-3-
jar/net/sf/cglib/reflect/ConstructorDelegate.java
* /opt/cola/permits/1138782680_1614337361.17/0/cglib-2-2-0-b21-sources-3-
jar/net/sf/cglib/transform/TransformingClassLoader.java
* /opt/cola/permits/1138782680_1614337361.17/0/cglib-2-2-0-b21-sources-3-
jar/net/sf/cglib/transform/impl/AddDelegateTransformer.java
* /opt/cola/permits/1138782680_1614337361.17/0/cglib-2-2-0-b21-sources-3-
jar/net/sf/cglib/transform/impl/UndeclaredThrowableTransformer.java
* /opt/cola/permits/1138782680_1614337361.17/0/cglib-2-2-0-b21-sources-3-
jar/net/sf/cglib/transform/AbstractProcessTask.java
* /opt/cola/permits/1138782680_1614337361.17/0/cglib-2-2-0-b21-sources-3-jar/net/sf/cglib/core/ClassEmitter.java
* /opt/cola/permits/1138782680_1614337361.17/0/cglib-2-2-0-b21-sources-3-
jar/net/sf/cglib/proxy/LazyLoader.java
* /opt/cola/permits/1138782680_1614337361.17/0/cglib-2-2-0-b21-sources-3-
jar/net/sf/cglib/beans/BulkBeanException.java
* /opt/cola/permits/1138782680_1614337361.17/0/cglib-2-2-0-b21-sources-3-
jar/net/sf/cglib/transform/impl/InterceptFieldFilter.java
* /opt/cola/permits/1138782680_1614337361.17/0/cglib-2-2-0-b21-sources-3-
jar/net/sf/cglib/transform/impl/UndeclaredThrowableStrategy.java
* /opt/cola/permits/1138782680_1614337361.17/0/cglib-2-2-0-b21-sources-3-jar/net/sf/cglib/core/Converter.java
* /opt/cola/permits/1138782680_1614337361.17/0/cglib-2-2-0-b21-sources-3-
jar/net/sf/cglib/transform/ClassTransformerTee.java
* /opt/cola/permits/1138782680_1614337361.17/0/cglib-2-2-0-b21-sources-3-
jar/net/sf/cglib/core/ClassGenerator.java
* /opt/cola/permits/1138782680_1614337361.17/0/cglib-2-2-0-b21-sources-3-jar/net/sf/cglib/core/Signature.java
* /opt/cola/permits/1138782680_1614337361.17/0/cglib-2-2-0-b21-sources-3-
jar/net/sf/cglib/transform/impl/AddPropertyTransformer.java
* /opt/cola/permits/1138782680_1614337361.17/0/cglib-2-2-0-b21-sources-3-jar/net/sf/cglib/core/ClassesKey.java
* /opt/cola/permits/1138782680_1614337361.17/0/cglib-2-2-0-b21-sources-3-
jar/net/sf/cglib/proxy/ProxyRefDispatcher.java

* /opt/cola/permits/1138782680_1614337361.17/0/cglib-2-2-0-b21-sources-3-jar/net/sf/cglib/proxy/Dispatcher.java
* /opt/cola/permits/1138782680_1614337361.17/0/cglib-2-2-0-b21-sources-3-jar/net/sf/cglib/transform/MethodFilterTransformer.java
* /opt/cola/permits/1138782680_1614337361.17/0/cglib-2-2-0-b21-sources-3-jar/net/sf/cglib/util/SorterTemplate.java
* /opt/cola/permits/1138782680_1614337361.17/0/cglib-2-2-0-b21-sources-3-jar/net/sf/cglib/core/CodeGenerationException.java
* /opt/cola/permits/1138782680_1614337361.17/0/cglib-2-2-0-b21-sources-3-jar/net/sf/cglib/core/ProcessSwitchCallback.java
* /opt/cola/permits/1138782680_1614337361.17/0/cglib-2-2-0-b21-sources-3-jar/net/sf/cglib/reflect/FastMember.java
* /opt/cola/permits/1138782680_1614337361.17/0/cglib-2-2-0-b21-sources-3-jar/net/sf/cglib/transform/AbstractClassTransformer.java
* /opt/cola/permits/1138782680_1614337361.17/0/cglib-2-2-0-b21-sources-3-jar/net/sf/cglib/core/Local.java
* /opt/cola/permits/1138782680_1614337361.17/0/cglib-2-2-0-b21-sources-3-jar/net/sf/cglib/transform/MethodVisitorTee.java
* /opt/cola/permits/1138782680_1614337361.17/0/cglib-2-2-0-b21-sources-3-jar/net/sf/cglib/transform/impl/InterceptFieldTransformer.java
* /opt/cola/permits/1138782680_1614337361.17/0/cglib-2-2-0-b21-sources-3-jar/net/sf/cglib/transform/ClassReaderGenerator.java
* /opt/cola/permits/1138782680_1614337361.17/0/cglib-2-2-0-b21-sources-3-jar/net/sf/cglib/proxy/FixedValue.java
* /opt/cola/permits/1138782680_1614337361.17/0/cglib-2-2-0-b21-sources-3-jar/net/sf/cglib/transform/MethodFilter.java

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* /opt/cola/permits/1138782680_1614337361.17/0/cglib-2-2-0-b21-sources-3-jar/net/sf/cglib/proxy/Factory.java
* /opt/cola/permits/1138782680_1614337361.17/0/cglib-2-2-0-b21-sources-3-jar/net/sf/cglib/proxy/UndeclaredThrowableException.java
* /opt/cola/permits/1138782680_1614337361.17/0/cglib-2-2-0-b21-sources-3-jar/net/sf/cglib/proxy/MethodInterceptor.java

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```
* /opt/cola/permits/1138782680_1614337361.17/0/cglib-2-2-0-b21-sources-3-
jar/net/sf/cglib/core/LocalVariablesSorter.java
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* /opt/cola/permits/1138782680_1614337361.17/0/cglib-2-2-0-b21-sources-3-

jar/net/sf/cglib/transform/AbstractTransformTask.java

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```
* /opt/cola/permits/1138782680_1614337361.17/0/cglib-2-2-0-b21-sources-3-
jar/net/sf/cglib/reflect/FastClassEmitter.java
* /opt/cola/permits/1138782680_1614337361.17/0/cglib-2-2-0-b21-sources-3-
jar/net/sf/cglib/reflect/MulticastDelegate.java
* /opt/cola/permits/1138782680_1614337361.17/0/cglib-2-2-0-b21-sources-3-
jar/net/sf/cglib/proxy/FixedValueGenerator.java
* /opt/cola/permits/1138782680_1614337361.17/0/cglib-2-2-0-b21-sources-3-
jar/net/sf/cglib/proxy/MixinEmitter.java
* /opt/cola/permits/1138782680_1614337361.17/0/cglib-2-2-0-b21-sources-3-jar/net/sf/cglib/core/ReflectUtils.java
* /opt/cola/permits/1138782680_1614337361.17/0/cglib-2-2-0-b21-sources-3-
jar/net/sf/cglib/reflect/MethodDelegate.java
* /opt/cola/permits/1138782680_1614337361.17/0/cglib-2-2-0-b21-sources-3-jar/net/sf/cglib/core/TypeUtils.java
* /opt/cola/permits/1138782680_1614337361.17/0/cglib-2-2-0-b21-sources-3-
jar/net/sf/cglib/transform/AbstractClassLoader.java
* /opt/cola/permits/1138782680_1614337361.17/0/cglib-2-2-0-b21-sources-3-
jar/net/sf/cglib/core/DebuggingClassWriter.java
* /opt/cola/permits/1138782680_1614337361.17/0/cglib-2-2-0-b21-sources-3-jar/net/sf/cglib/proxy/Proxy.java
* /opt/cola/permits/1138782680_1614337361.17/0/cglib-2-2-0-b21-sources-3-
jar/net/sf/cglib/beans/BulkBeanEmitter.java
* /opt/cola/permits/1138782680_1614337361.17/0/cglib-2-2-0-b21-sources-3-
jar/net/sf/cglib/core/AbstractClassGenerator.java
* /opt/cola/permits/1138782680_1614337361.17/0/cglib-2-2-0-b21-sources-3-
jar/net/sf/cglib/reflect/FastMethod.java
* /opt/cola/permits/1138782680_1614337361.17/0/cglib-2-2-0-b21-sources-3-
jar/net/sf/cglib/proxy/MethodInterceptorGenerator.java
* /opt/cola/permits/1138782680_1614337361.17/0/cglib-2-2-0-b21-sources-3-
jar/net/sf/cglib/proxy/MethodProxy.java
* /opt/cola/permits/1138782680_1614337361.17/0/cglib-2-2-0-b21-sources-3-
jar/net/sf/cglib/core/VisibilityPredicate.java
```


- * /opt/cola/permits/1138782680_1614337361.17/0/cglib-2-2-0-b21-sources-3-jar/net/sf/cglib/proxy/CallbackGenerator.java
- * /opt/cola/permits/1138782680_1614337361.17/0/cglib-2-2-0-b21-sources-3-jar/net/sf/cglib/beans/ImmutableBean.java
- * /opt/cola/permits/1138782680_1614337361.17/0/cglib-2-2-0-b21-sources-3-jar/net/sf/cglib/core/DefaultNamingPolicy.java
- * /opt/cola/permits/1138782680_1614337361.17/0/cglib-2-2-0-b21-sources-3-jar/net/sf/cglib/transform/ClassTransformerChain.java
- * /opt/cola/permits/1138782680_1614337361.17/0/cglib-2-2-0-b21-sources-3-jar/net/sf/cglib/proxy/LazyLoaderGenerator.java
- * /opt/cola/permits/1138782680_1614337361.17/0/cglib-2-2-0-b21-sources-3-jar/net/sf/cglib/transform/ClassFilterTransformer.java
- * /opt/cola/permits/1138782680_1614337361.17/0/cglib-2-2-0-b21-sources-3-jar/net/sf/cglib/proxy/InvocationHandlerGenerator.java
- * /opt/cola/permits/1138782680_1614337361.17/0/cglib-2-2-0-b21-sources-3-jar/net/sf/cglib/proxy/NoOpGenerator.java
- * /opt/cola/permits/1138782680_1614337361.17/0/cglib-2-2-0-b21-sources-3-jar/net/sf/cglib/beans/BeanCopier.java
- * /opt/cola/permits/1138782680_1614337361.17/0/cglib-2-2-0-b21-sources-3-jar/net/sf/cglib/transform/impl/AddStaticInitTransformer.java
- * /opt/cola/permits/1138782680_1614337361.17/0/cglib-2-2-0-b21-sources-3-jar/net/sf/cglib/proxy/CallbackFilter.java
- * /opt/cola/permits/1138782680_1614337361.17/0/cglib-2-2-0-b21-sources-3-jar/net/sf/cglib/reflect/FastClass.java
- * /opt/cola/permits/1138782680_1614337361.17/0/cglib-2-2-0-b21-sources-3-jar/net/sf/cglib/core/KeyFactory.java
- * /opt/cola/permits/1138782680_1614337361.17/0/cglib-2-2-0-b21-sources-3-jar/net/sf/cglib/core/MethodWrapper.java
- * /opt/cola/permits/1138782680_1614337361.17/0/cglib-2-2-0-b21-sources-3-jar/net/sf/cglib/core/EmitUtils.java
- * /opt/cola/permits/1138782680_1614337361.17/0/cglib-2-2-0-b21-sources-3-jar/net/sf/cglib/core/CodeEmitter.java
- * /opt/cola/permits/1138782680_1614337361.17/0/cglib-2-2-0-b21-sources-3-jar/net/sf/cglib/beans/BeanMap.java
- * /opt/cola/permits/1138782680_1614337361.17/0/cglib-2-2-0-b21-sources-3-jar/net/sf/cglib/beans/BeanMapEmitter.java
- * /opt/cola/permits/1138782680_1614337361.17/0/cglib-2-2-0-b21-sources-3-jar/net/sf/cglib/proxy/Mixin.java
- * /opt/cola/permits/1138782680_1614337361.17/0/cglib-2-2-0-b21-sources-3-jar/net/sf/cglib/core/CollectionUtils.java
- * /opt/cola/permits/1138782680_1614337361.17/0/cglib-2-2-0-b21-sources-3-jar/net/sf/cglib/proxy/DispatcherGenerator.java

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* /opt/cola/permits/1138782680_1614337361.17/0/cglib-2-2-0-b21-sources-3-jar/net/sf/cglib/core/MethodInfoTransformer.java
* /opt/cola/permits/1138782680_1614337361.17/0/cglib-2-2-0-b21-sources-3-jar/net/sf/cglib/proxy/CallbackInfo.java
* /opt/cola/permits/1138782680_1614337361.17/0/cglib-2-2-0-b21-sources-3-jar/net/sf/cglib/core/MethodInfo.java
* /opt/cola/permits/1138782680_1614337361.17/0/cglib-2-2-0-b21-sources-3-jar/net/sf/cglib/proxy/MixinEverythingEmitter.java
* /opt/cola/permits/1138782680_1614337361.17/0/cglib-2-2-0-b21-sources-3-jar/net/sf/cglib/proxy/InterfaceMaker.java
* /opt/cola/permits/1138782680_1614337361.17/0/cglib-2-2-0-b21-sources-3-jar/net/sf/cglib/proxy/CallbackHelper.java
* /opt/cola/permits/1138782680_1614337361.17/0/cglib-2-2-0-b21-sources-3-jar/net/sf/cglib/core/RejectModifierPredicate.java
* /opt/cola/permits/1138782680_1614337361.17/0/cglib-2-2-0-b21-sources-3-jar/net/sf/cglib/transform/AbstractClassFilterTransformer.java
* /opt/cola/permits/1138782680_1614337361.17/0/cglib-2-2-0-b21-sources-3-jar/net/sf/cglib/core/ClassInfo.java
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1.15 azure-storage-blob 12.4.0

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1.16 antlr 4.6

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 */

```
tree grammar BlockSetTransformer;
options {
  language = Java;
  tokenVocab = ANTLRParser;
  ASTLabelType = GrammarAST;
  output = AST;
  filter = true;
}

@header {
package org.antlr.v4.parse;
import org.antlr.v4.misc.Utils;
import org.antlr.v4.misc.*;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
import java.util.List;
import java.util.Set;
import java.util.HashSet;
import java.util.ArrayList;
import org.antlr.v4.runtime.misc.IntervalSet;
}

@members {
public String currentRuleName;
public GrammarAST currentAlt;
public Grammar g;
public BlockSetTransformer(TreeNodeStream input, Grammar g) {
  this(input, new RecognizerSharedState());
  this.g = g;
}
}

topdown
```

```

: ^(RULE (id=TOKEN_REF|id=RULE_REF) {currentRuleName=$id.text;} .+)
| setAlt
| ebnfBlockSet
| blockSet
;

setAlt
: {inContext("RULE BLOCK")}?
  ALT {currentAlt = $start;}
;

// (BLOCK (ALT (+ (BLOCK (ALT INT) (ALT ID))))))
ebnfBlockSet
@after {
  GrammarTransformPipeline.setGrammarPtr(g, $tree);
}
: ^(ebnfSuffix blockSet) -> ^(ebnfSuffix ^(BLOCK<BlockAST> ^(ALT<AltAST> blockSet)))
;

ebnfSuffix
@after {$tree = (GrammarAST)adaptor.dupNode($start);}
: OPTIONAL
| CLOSURE
| POSITIVE_CLOSURE
;

blockSet
@init {
  boolean inLexer = Grammar.isTokenName(currentRuleName);
}
@after {
  GrammarTransformPipeline.setGrammarPtr(g, $tree);
}
: {inContext("RULE")}? // top-level: rule block and > 1 alt
  ^(BLOCK ^(alt=ALT elementOptions? {((AltAST)$alt).altLabel==null}? setElement[inLexer]) (^(ALT
  elementOptions? setElement[inLexer]) )+
  -> ^(BLOCK<BlockAST>[$BLOCK.token] ^(ALT<AltAST>[$BLOCK.token,"ALT"] ^(SET[$BLOCK.token,
  "SET"] setElement+)))
| {!inContext("RULE")}? // if not rule block and > 1 alt
  ^(BLOCK ^(ALT elementOptions? setElement[inLexer]) (^(ALT elementOptions? setElement[inLexer]) )+
  -> ^(SET[$BLOCK.token, "SET"] setElement+)
;

setElement[boolean inLexer]
@after {
  GrammarTransformPipeline.setGrammarPtr(g, $tree);
}
: (^(a=STRING_LITERAL elementOptions) {!inLexer ||

```

```

CharSupport.getCharValueFromGrammarCharLiteral($a.getText()!=-1)?
| a=STRING_LITERAL {!inLexer || CharSupport.getCharValueFromGrammarCharLiteral($a.getText()!=-1)?
| {!inLexer}?=> ^(TOKEN_REF elementOptions)
| {!inLexer}?=> TOKEN_REF
| {inLexer}?=> ^(RANGE a=STRING_LITERAL b=STRING_LITERAL)
{CharSupport.getCharValueFromGrammarCharLiteral($a.getText()!=-1 &&
CharSupport.getCharValueFromGrammarCharLiteral($b.getText()!=-1)?
)
;

```

```

elementOptions
: ^(ELEMENT_OPTIONS elementOption*)
;

```

```

elementOption
: ID
| ^(ASSIGN id=ID v=ID)
| ^(ASSIGN ID v=STRING_LITERAL)
| ^(ASSIGN ID v=ACTION)
| ^(ASSIGN ID v=INT)
;

```

Found in path(s):

* /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-jar/org/antlr/v4/parse/BlockSetTransformer.g

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*/

/*

This file contains the actual layout of the messages emitted by ANTLR.

The text itself is coming out of the languages/*stg files, according to the chosen locale.

This file contains the default format ANTLR uses.

*/

location(file, line, column) ::= "<file>(<line>,<column>)"

message(id, text) ::= "error <id> : <text>"

report(location, message, type) ::= "<location> : <type> <message.id> : <message.text>"

wantsSingleLineMessage() ::= "true"

Found in path(s):

* /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-jar/org/antlr/v4/tool/templates/messages/formats/vs2005.stg

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*/
```

Found in path(s):

```
* /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-
jar/org/antlr/v4/tool/templates/codegen/Cpp/Cpp.stg
```

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```
/*
```

```
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```

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```

```
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```

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*
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```

```
*/
```

```
tree grammar ATNBuilder;
```

```
options {
```

```
language = Java;
```

```
tokenVocab = ANTLRParser;
```

```
ASTLabelType = GrammarAST;
```

```
// filter = true;
```

```
}
```



```

// Include the copyright in this source and also the generated source
@header {
/*
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(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/
package org.antlr.v4.parse;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
import org.antlr.v4.automata.ATNFactory;
}

@members {
    ATNFactory factory;
    public ATNBuilder(TreeNodeStream input, ATNFactory factory) {
        this(input);
        this.factory = factory;
    }
}

dummy : block[null] ; // avoid error about no start rule

ruleBlock[GrammarAST ebnfRoot] returns [ATNFactory.Handle p]
@init {
    List<ATNFactory.Handle> alts = new ArrayList<ATNFactory.Handle>();
    int alt = 1;
    factory.setCurrentOuterAlt(alt);
}

```

```

}
: ^(BLOCK
    (^ (OPTIONS .*))?)
    ( a=alternative
      {alts.add($a.p); factory.setCurrentOuterAlt(++alt);}
    )+
  )
  {$p = factory.block((BlockAST)$BLOCK, ebnfRoot, alts);}
;

block[GrammarAST ebnfRoot] returns [ATNFactory.Handle p]
@init {List<ATNFactory.Handle> alts = new ArrayList<ATNFactory.Handle>();}
: ^(BLOCK (^ (OPTIONS .*))?) (a=alternative {alts.add($a.p);})+
  {$p = factory.block((BlockAST)$BLOCK, ebnfRoot, alts);}
;

alternative returns [ATNFactory.Handle p]
@init {List<ATNFactory.Handle> els = new ArrayList<ATNFactory.Handle>();}
: ^(LEXER_ALT_ACTION a=alternative lexerCommands)
  {$p = factory.lexerAltCommands($a.p,$lexerCommands.p);}
| ^(ALT elementOptions? EPSILON)    {$p = factory.epsilon($EPSILON);}
| ^(ALT elementOptions? (e=element {els.add($e.p);})+) {$p = factory.alt(els);}
;

lexerCommands returns [ATNFactory.Handle p]
@init {List<ATNFactory.Handle> cmds = new ArrayList<ATNFactory.Handle>();}
: (c=lexerCommand {if ($c.cmd != null) cmds.add($c.cmd);})+
  {
  $p = factory.alt(cmds);
  }
;

lexerCommand returns [ATNFactory.Handle cmd]
: ^(LEXER_ACTION_CALL ID lexerCommandExpr)
  {$cmd = factory.lexerCallCommand($ID, $lexerCommandExpr.start);}
| ID
  {$cmd = factory.lexerCommand($ID);}
;

lexerCommandExpr
: ID
| INT
;

element returns [ATNFactory.Handle p]
: labeledElement {$p = $labeledElement.p;}
| atom    {$p = $atom.p;}
| subrule {$p = $subrule.p;}

```

```

| ACTION    {$p = factory.action((ActionAST)$ACTION);}
| SEMPRED   {$p = factory.sempred((PredAST)$SEMPRED);}
| ^(ACTION .) {$p = factory.action((ActionAST)$ACTION);}
| ^(SEMPRED .) {$p = factory.sempred((PredAST)$SEMPRED);}
| ^(NOT b=blockSet[true]) {$p = $b.p;}
| LEXER_CHAR_SET {$p = factory.charSetLiteral($start);}
;

```

astOperand returns [ATNFactory.Handle p]

```

: atom    {$p = $atom.p;}
| ^(NOT blockSet[true]) {$p = $blockSet.p;}
;

```

labeledElement returns [ATNFactory.Handle p]

```

: ^(ASSIGN ID element) {$p = factory.label($element.p);}
| ^(PLUS_ASSIGN ID element) {$p = factory.listLabel($element.p);}
;

```

subrule returns [ATNFactory.Handle p]

```

: ^(OPTIONAL block[$start]) {$p = $block.p;}
| ^(CLOSURE block[$start]) {$p = $block.p;}
| ^(POSITIVE_CLOSURE block[$start]) {$p = $block.p;}
| block[null] {$p = $block.p;}
;

```

blockSet[boolean invert] returns [ATNFactory.Handle p]

```

@init {List<GrammarAST> alts = new ArrayList<GrammarAST>();}
: ^(SET (setElement {alts.add($setElement.start);})+) {$p = factory.set($start, alts, $invert);}
;

```

*/** Don't combine with atom otherwise it will build spurious ATN nodes */*

setElement

```

: ^(STRING_LITERAL .)
| ^(TOKEN_REF .)
| STRING_LITERAL
| TOKEN_REF
| ^(RANGE a=STRING_LITERAL b=STRING_LITERAL)
| LEXER_CHAR_SET
;

```

atom returns [ATNFactory.Handle p]

```

: range {$p = $range.p;}
| ^(DOT ID terminal) {$p = $terminal.p;}
| ^(DOT ID ruleref) {$p = $ruleref.p;}
| ^(WILDCARD .) {$p = factory.wildcard($start);}
| WILDCARD {$p = factory.wildcard($start);}
| blockSet[false] {$p = $blockSet.p;}
| terminal {$p = $terminal.p;}

```

```

| ruleref    {$p = $ruleref.p;}
;

ruleref returns [ATNFactory.Handle p]
: ^(RULE_REF ARG_ACTION? ^(ELEMENT_OPTIONS .*)) {$p = factory.ruleRef($RULE_REF);}
| ^(RULE_REF ARG_ACTION?)    {$p = factory.ruleRef($RULE_REF);}
| RULE_REF    {$p = factory.ruleRef($RULE_REF);}
;

range returns [ATNFactory.Handle p]
: ^(RANGE a=STRING_LITERAL b=STRING_LITERAL) {$p = factory.range($a,$b);}
;

terminal returns [ATNFactory.Handle p]
: ^(STRING_LITERAL .) {$p = factory.stringLiteral((TerminalAST)$start);}
| STRING_LITERAL    {$p = factory.stringLiteral((TerminalAST)$start);}
| ^(TOKEN_REF ARG_ACTION .) {$p = factory.tokenRef((TerminalAST)$start);}
| ^(TOKEN_REF .)    {$p = factory.tokenRef((TerminalAST)$start);}
| TOKEN_REF    {$p = factory.tokenRef((TerminalAST)$start);}
;

elementOptions
: ^(ELEMENT_OPTIONS elementOption*)
;

elementOption
: ID
| ^(ASSIGN ID ID)
| ^(ASSIGN ID STRING_LITERAL)
| ^(ASSIGN ID ACTION)
| ^(ASSIGN ID INT)
;

```

Found in path(s):

* /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-jar/org/antlr/v4/parse/ATNBuilder.g
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```

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*/

```

```

/** ANTLR tool checks output templates are compatible with tool code generation.

```

```

* For now, a simple string match used on x.y of x.y.z scheme.

```

```

* Must match Tool.VERSION during load to templates.

```

```

*

```

```

* REQUIRED.

```

```

*/

```

```

pythonTypeInitMap ::= [
  "bool":"False",
  "int":"0",
  "float":"0.0",
  "str": "",
  default:"None" // anything other than a primitive type is an object
]

```

```

// args must be <object-model-object>, <fields-resulting-in-STs>

```

```

ParserFile(file, parser, namedActions, contextSuperClass) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
var antlr4 = require('antlr4/index');
<if(file.genListener)>
var <file.grammarName>Listener = require('./<file.grammarName>Listener').<file.grammarName>Listener;
<endif>
<if(file.genVisitor)>
var <file.grammarName>Visitor = require('./<file.grammarName>Visitor').<file.grammarName>Visitor;
<endif>

<namedActions.header>

```

```

<parser>
>>

ListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
var antlr4 = require('antlr4/index');

// This class defines a complete listener for a parse tree produced by <file.parserName>.
function <file.grammarName>Listener() {
  antlr4.tree.ParseTreeListener.call(this);
  return this;
}

<file.grammarName>Listener.prototype = Object.create(antlr4.tree.ParseTreeListener.prototype);
<file.grammarName>Listener.prototype.constructor = <file.grammarName>Listener;

<file.listenerNames:{lname |
// Enter a parse tree produced by <file.parserName>#<lname>.
<file.grammarName>Listener.prototype.enter<lname; format="cap"> = function(ctx) {
\};

// Exit a parse tree produced by <file.parserName>#<lname>.
<file.grammarName>Listener.prototype.exit<lname; format="cap"> = function(ctx) {
\};

}; separator="\n">

exports.<file.grammarName>Listener = <file.grammarName>Listener;
>>

```

```

VisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
var antlr4 = require('antlr4/index');

// This class defines a complete generic visitor for a parse tree produced by <file.parserName>.

function <file.grammarName>Visitor() {
  antlr4.tree.ParseTreeVisitor.call(this);
  return this;
}

<file.grammarName>Visitor.prototype = Object.create(antlr4.tree.ParseTreeVisitor.prototype);
<file.grammarName>Visitor.prototype.constructor = <file.grammarName>Visitor;

<file.visitorNames:{lname |
// Visit a parse tree produced by <file.parserName>#<lname>.
<file.grammarName>Visitor.prototype.visit<lname; format="cap"> = function(ctx) {

```

```

return this.visitChildren(ctx);
\};

}; separator="\n">

exports.<file.grammarName>Visitor = <file.grammarName>Visitor;
>>

fileHeader(grammarFileName, ANTLRVersion) ::= <<
// Generated from <grammarFileName; format="java-escape"> by ANTLR <ANTLRVersion>
// jshint ignore: start
>>

Parser(parser, funcs, atn, sempredFuncs, superClass) ::= <<
<if(superClass)>
var <superClass> = require('./<superClass>').<superClass>;
<endif>

var grammarFileName = "<parser.grammarFileName; format="java-escape">";

<atn>

var atn = new antlr4.atn.ATNDeserializer().deserialize(serializedATN);

var decisionsToDFA = atn.decisionToState.map( function(ds, index) { return new antlr4.dfa.DFA(ds, index); });

var sharedContextCache = new antlr4.PredictionContextCache();

var literalNames = [ <parser.literalNames:{t | <t>}; null="null", separator=", ", wrap, anchor> ];

var symbolicNames = [ <parser.symbolicNames:{t | <t>}; null="null", separator=", ", wrap, anchor> ];

var ruleNames = [ <parser.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor> ];

function <parser.name> (input) {
<superClass; null="antlr4.Parser">.call(this, input);
this._interp = new antlr4.atn.ParserATNSimulator(this, atn, decisionsToDFA, sharedContextCache);
this.ruleNames = ruleNames;
this.literalNames = literalNames;
this.symbolicNames = symbolicNames;
<namedActions.members>
return this;
}

<parser.name>.prototype = Object.create(<superClass; null="antlr4.Parser">.prototype);
<parser.name>.prototype.constructor = <parser.name>;

```

```

Object.defineProperty(<parser.name>.prototype, "atn", {
  get : function() {
    return atn;
  }
});

<parser.name>.EOF = antlr4.Token.EOF;
<if(parser.tokens)>
<parser.tokens:{k | <parser.name>.<k> = <parser.tokens.(k)>;}; separator="\n", wrap, anchor>
<endif>

<parser.rules:{r | <parser.name>.RULE_<r.name> = <r.index>;}; separator="\n", wrap, anchor>

<funcs; separator="\n">

<if(sempredFuncs)>
<parser.name>.prototype.sempred = function(localctx, ruleIndex, predIndex) {
  switch(ruleIndex) {
    <parser.sempredFuncs.values:{f | case <f.ruleIndex>:
      return this.<f.name>_sempred(localctx, predIndex);}; separator="\n">
    default:
      throw "No predicate with index:" + ruleIndex;
  }
};

<sempredFuncs.values; separator="\n">
<endif>

exports.<parser.name> = <parser.name>;

>>

dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>
<lexer.name>.prototype.action = function(localctx, ruleIndex, actionIndex) {
  switch (ruleIndex) {
    <recog.actionFuncs.values:{f|
  case <f.ruleIndex>:
    this.<f.name>_action(localctx, actionIndex);
    break;}; separator="\n">
    default:
      throw "No registered action for:" + ruleIndex;
  }
};

<actionFuncs.values; separator="\n">
<endif>
<if(sempredFuncs)>

```



```

<lexer.name>.prototype.sempred = function(localctx, ruleIndex, predIndex) {
  switch (ruleIndex) {
    <recog.sempredFuncs.values:{f} case <f.ruleIndex>:
  return this.<f.name>_sempred(localctx, predIndex);}; separator="\n">
    default:
      throw "No registered predicate for:" + ruleIndex;
  }
};

```

```

<sempredFuncs.values; separator="\n">
<endif>
>>

```

```

/* This generates a private method since the actionIndex is generated, making an
* overriding implementation impossible to maintain.
*/

```

```

RuleActionFunction(r, actions) ::= <<

```

```

<lexer.name>.prototype.<r.name>_action = function(localctx , actionIndex) {
  switch (actionIndex) {
    <actions:{index}|
  case <index>:
    <actions.(index)>
  break;}; separator="\n">
    default:
      throw "No registered action for:" + actionIndex;
  }
};
>>

```

```

/* This generates a private method since the predIndex is generated, making an
* overriding implementation impossible to maintain.
*/

```

```

RuleSempredFunction(r, actions) ::= <<

```

```

<if (r.factory.g.lexer)><lexer.name><else><parser.name><endif>.prototype.<r.name>_sempred = function(localctx,
predIndex) {
  switch(predIndex) {
    <actions:{index}| case <index>:
  return <actions.(index)>;}; separator="\n">
    default:
      throw "No predicate with index:" + predIndex;
  }
};
>>

```

```

RuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,postamble,exceptions)

```

```

::= <<

<ruleCtx>

<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">

<! Define fields of this parser to export the context classes !>
<parser.name>.<currentRule.ctxType> = <currentRule.ctxType>;

<parser.name>.prototype.<currentRule.name> = function(<currentRule.args:{a | <a.name>}; separator=", ">) {

    var localctx = new <currentRule.ctxType>(this, this._ctx, this.state<currentRule.args:{a | <a.name>}>);
    this.enterRule(localctx, <currentRule.startState>, <parser.name>.RULE_<currentRule.name>);
    <namedActions.init>
    <locals; separator="\n">
    try {
        <code>
        <postamble; separator="\n">
        <namedActions.after>
    <if(exceptions)>
    <exceptions; separator="\n">
    <else>
    } catch (re) {
        if(re instanceof antlr4.error.RecognitionException) {
            localctx.exception = re;
            this._errHandler.reportError(this, re);
            this._errHandler.recover(this, re);
        } else {
            throw re;
        }
    }<endif> finally {
        <finallyAction>
        this.exitRule();
    }
    return localctx;
};

>>

LeftRecursiveRuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,
namedActions,finallyAction,postamble) ::=
<<

<ruleCtx>
<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">

<parser.name>.prototype.<currentRule.name> = function(_p<if(currentRule.args)>, <args:{a | , <a}>><endif>) {
    if(_p===undefined) {

```

```

    _p = 0;
}
var _parentctx = this._ctx;
var _parentState = this.state;
var localctx = new <currentRule.ctxType>(this, this._ctx, _parentState<args:{a | , <a.name>}>);
var _prevctx = localctx;
var _startState = <currentRule.startState>;
this.enterRecursionRule(localctx, <currentRule.startState>, <parser.name>.RULE_<currentRule.name>, _p);
<namedActions.init>
<locals; separator="\n">
try {
    <code>
    <postamble; separator="\n">
    <namedActions.after>
} catch( error) {
    if(error instanceof antlr4.error.RecognitionException) {
        localctx.exception = error;
        this._errHandler.reportError(this, error);
        this._errHandler.recover(this, error);
    } else {
        throw error;
    }
} finally {
    <finallyAction>
    this.unrollRecursionContexts(_parentctx)
}
return localctx;
};
>>

```

```

CodeBlockForOuterMostAlt(currentOuterMostAltCodeBlock, locals, preamble, ops) ::= <<
<if(currentOuterMostAltCodeBlock.altLabel)>localctx = new <currentOuterMostAltCodeBlock.altLabel;
format="cap">Context(this, localctx);<endif>
this.enterOuterAlt(localctx, <currentOuterMostAltCodeBlock.alt.altNum>);
<CodeBlockForAlt(currentAltCodeBlock=currentOuterMostAltCodeBlock, ...)>
>>

```

```

CodeBlockForAlt(currentAltCodeBlock, locals, preamble, ops) ::= <<
<locals; separator="\n">
<preamble; separator="\n">
<ops; separator="\n">
>>

```

```

LL1AltBlock(choice, preamble, alts, error) ::= <<
this.state = <choice.stateNumber>;
this._errHandler.sync(this);
<if(choice.label)><labelref(choice.label)> = this._input.LT(1);<endif>

```

```

<preamble; separator="\n">
switch(this._input.LA(1)) {
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
  <alt>
  break;}; separator="\n">
default:
  <error>
}
>>

```

```

LL1OptionalBlock(choice, alts, error) ::= <<
this.state = <choice.stateNumber>;
this._errHandler.sync(this);
switch (this._input.LA(1)) {
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
  <alt>
  break;}; separator="\n">
default:
  <error>
}
>>

```

```

LL1OptionalBlockSingleAlt(choice, expr, alts, preamble, error, followExpr) ::= <<
this.state = <choice.stateNumber>;
this._errHandler.sync(this);
<preamble; separator="\n">
if(<expr>) {
  <alts; separator="\n">
}
<!else if ( !(<followExpr> ) <error>!>
>>

```

```

LL1StarBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
this.state = <choice.stateNumber>;
this._errHandler.sync(this);
<preamble; separator="\n">
while(<loopExpr>) {
  <alts; separator="\n">
  this.state = <choice.loopBackStateNumber>;
  this._errHandler.sync(this);
  <iteration>
}
>>

```

```

LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
this.state = <choice.blockStartStateNumber>; <! alt block decision !>
this._errHandler.sync(this);
<preamble; separator="\n">

```

```

do {
    <alts; separator="\n">
    this.state = <choice.stateNumber>; <! loopback/exit decision !>
    this._errHandler.sync(this);
    <iteration>
} while(<loopExpr>);
>>

// LL(*) stuff

AltBlock(choice, preamble, alts, error) ::= <<
this.state = <choice.stateNumber>;
this._errHandler.sync(this);
<if(choice.label)><labelref(choice.label)> = _input.LT(1)<endif>
<preamble; separator="\n">
var la_ = this._interp.adaptivePredict(this._input,<choice.decision>,this._ctx);
switch(la_) {
<alts:{alt |
case <i>:
    <alt>
    break;
}; separator="\n">
}
>>

OptionalBlock(choice, alts, error) ::= <<
this.state = <choice.stateNumber>;
this._errHandler.sync(this);
var la_ = this._interp.adaptivePredict(this._input,<choice.decision>,this._ctx);
<alts:{alt |
if(la_===<i><if(!choice.ast.greedy)>+1<endif>) {
    <alt>
}; separator="\n} else ">
}
>>

StarBlock(choice, alts, sync, iteration) ::= <<
this.state = <choice.stateNumber>;
this._errHandler.sync(this);
var _alt = this._interp.adaptivePredict(this._input,<choice.decision>,this._ctx)
while(_alt!=<choice.exitAlt> && _alt!=antlr4.atn.ATN.INVALID_ALT_NUMBER) {
    if(_alt===1<if(!choice.ast.greedy)>+1<endif>) {
        <iteration>
        <alts> <! should only be one !>
    }
    this.state = <choice.loopBackStateNumber>;
    this._errHandler.sync(this);
    _alt = this._interp.adaptivePredict(this._input,<choice.decision>,this._ctx);
}

```

```

}

>>

PlusBlock(choice, alts, error) ::= <<
this.state = <choice.blockStartStateNumber>; <! alt block decision !>
this._errHandler.sync(this);
var _alt = 1<if(!choice.ast.greedy)>+1<endif>;
do {
  switch (_alt) {
    <alts:{alt|
case <i><if(!choice.ast.greedy)>+1<endif>:
  <alt>
  break;}; separator="\n">
  default:
    <error>
  }
  this.state = <choice.loopBackStateNumber>; <! loopback/exit decision !>
  this._errHandler.sync(this);
  _alt = this._interp.adaptivePredict(this._input,<choice.decision>, this._ctx);
} while ( _alt!=<choice.exitAlt> && _alt!=antlr4.atn.ATN.INVALID_ALT_NUMBER );
>>

Sync(s) ::= "sync(<s.expecting.name>)"

ThrowNoViableAlt(t) ::= "throw new antlr4.error.NoViableAltException(this);"

TestSetInline(s) ::= <<
<s.bitsets:{bits | <if(rest(rest(bits.ttypes)))><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s,
bits)><endif>}; separator=" || ">
>>

// Javascript language spec - shift operators are 32 bits long max
testShiftInRange(shiftAmount) ::= <<
((<shiftAmount>) & ~0x1f) == 0
>>

// produces smaller bytecode only when bits.ttypes contains more than two items
bitsetBitfieldComparison(s, bits) ::= <%
(<testShiftInRange({<offsetShiftVar(s.varName, bits.shift)>})> && ((1 \<< <offsetShiftVar(s.varName,
bits.shift)>) & (<bits.ttypes:{ttype | (1 \<< <offsetShiftType(ttype, bits.shift)>)}); separator=" | ">)) != 0
%>

isZero ::= [
"0":true,
default:false
]

```

```

offsetShiftVar(shiftAmount, offset) ::= <%
<if(!isZero.(offset))><shiftAmount> - <offset><else><shiftAmount><endif>
%>

offsetShiftType(shiftAmount, offset) ::= <%
<if(!isZero.(offset))><parser.name>.<shiftAmount> - <offset><else><parser.name>.<shiftAmount><endif>
%>

// produces more efficient bytecode when bits.ttypes contains at most two items
bitsetInlineComparison(s, bits) ::= <%
<bits.ttypes:{ ttype | <s.varName>===<parser.name>.<ttype>} ; separator=" || ">
%>

cases(ttypes) ::= <<
<types:{ t | case <parser.name>.<t>:}; separator="\n">
>>

InvokeRule(r, argExprsChunks) ::= <<
this.state = <r.stateNumber>;
<if(r.labels)><r.labels:{ l | <labelref(l)> =
}><endif>this.<r.name><(<if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)><endif><endif><argExprsChu
nks>);
>>

MatchToken(m) ::= <<
this.state = <m.stateNumber>;
<if(m.labels)><m.labels:{ l | <labelref(l)> = }><endif>this.match(<parser.name>.<m.name>);
>>

MatchSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, false)>"

MatchNotSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, true)>"

CommonSetStuff(m, expr, capture, invert) ::= <<
this.state = <m.stateNumber>;
<if(m.labels)><m.labels:{ l | <labelref(l)> = }>this._input.LT(1);<endif>
<capture>
<if(invert)>if(<m.varName><=<0 || <expr>><else>if(!(<expr>))<endif> {
  <if(m.labels)><m.labels:{ l | <labelref(l)> = }><endif>this._errHandler.recoverInline(this);
}
else {
  this._errHandler.reportMatch(this);
  this.consume();
}
>>

Wildcard(w) ::= <<
this.state = <w.stateNumber>;

```

```

<if(w.labels)><w.labels:{1 | <labelref(l)> = }><endif>matchWildcard();
>>

// ACTION STUFF

Action(a, foo, chunks) ::= "<chunks>"

ArgAction(a, chunks) ::= "<chunks>"

SemPred(p, chunks, failChunks) ::= <<
this.state = <p.stateNumber>;
if (!( <chunks>)) {
    throw new antlr4.error.FailedPredicateException(this, <p.predicate><if(failChunks)>,
<failChunks><elseif(p.msg)>, <p.msg><endif>);
}
>>

ExceptionClause(e, catchArg, catchAction) ::= <<
catch (<catchArg>) {
    <catchAction>
}
>>

// lexer actions are not associated with model objects

LexerSkipCommand() ::= "this.skip()"
LexerMoreCommand() ::= "this.more()"
LexerPopModeCommand() ::= "this.popMode()"
LexerTypeCommand(arg, grammar) ::= "this._type = <arg>"
LexerChannelCommand(arg, grammar) ::= "this._channel = <arg>"
LexerModeCommand(arg, grammar) ::= "this._mode = <arg>"
LexerPushModeCommand(arg, grammar) ::= "this.pushMode(<arg>)"

ActionText(t) ::= "<t.text>"
ActionTemplate(t) ::= "<t.st>"
ArgRef(a) ::= "localctx.<a.name>"
LocalRef(a) ::= "localctx.<a.name>"
RetValRef(a) ::= "localctx.<a.name>"
QRetValRef(a) ::= "<ctx(a)>.<a.dict>.<a.name>"
/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>.<t.name>"
LabelRef(t) ::= "<ctx(t)>.<t.name>"
ListLabelRef(t) ::= "<ctx(t)>.<ListLabelName(t.name)>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<s.name> = <rhsChunks>"

TokenLabelType() ::= "<file.TokenLabelType; null={Token}>"
InputSymbolType() ::= "<file.InputSymbolType; null={Token}>"

```



```

TokenPropertyRef_text(t) ::= "<ctx(t)>.<t.label>====null ? null : <ctx(t)>.<t.label>.text)"
TokenPropertyRef_type(t) ::= "<ctx(t)>.<t.label> === null ? 0 : <ctx(t)>.<t.label>.type)"
TokenPropertyRef_line(t) ::= "<ctx(t)>.<t.label> === null ? 0 : <ctx(t)>.<t.label>.line)"
TokenPropertyRef_pos(t) ::= "<ctx(t)>.<t.label> === null ? 0 : <ctx(t)>.<t.label>.column)"
TokenPropertyRef_channel(t) ::= "<ctx(t)>.<t.label> === null ? 0 : <ctx(t)>.<t.label>.channel)"
TokenPropertyRef_index(t) ::= "<ctx(t)>.<t.label> === null ? 0 : <ctx(t)>.<t.label>.tokenIndex)"
TokenPropertyRef_int(t) ::= "<ctx(t)>.<t.label> === null ? 0 : parseInt(<ctx(t)>.<t.label>.text))"

```

```

RulePropertyRef_start(r) ::= "<ctx(r)>.<r.label>====null ? null : <ctx(r)>.<r.label>.start)"
RulePropertyRef_stop(r) ::= "<ctx(r)>.<r.label>====null ? null : <ctx(r)>.<r.label>.stop)"
RulePropertyRef_text(r) ::= "<ctx(r)>.<r.label>====null ? null : this._input.getText(new antlr4.Interval(<ctx(r)>.<r.label>.start,<ctx(r)>.<r.label>.stop)))"
RulePropertyRef_ctx(r) ::= "<ctx(r)>.<r.label>"
RulePropertyRef_parser(r) ::= "this"

```

```

ThisRulePropertyRef_start(r) ::= "localctx.start"
ThisRulePropertyRef_stop(r) ::= "localctx.stop"
ThisRulePropertyRef_text(r) ::= "this._input.getText(new antlr4.Interval(localctx.start, this._input.LT(-1)))"
ThisRulePropertyRef_ctx(r) ::= "localctx"
ThisRulePropertyRef_parser(r) ::= "this"

```

```

NonLocalAttrRef(s) ::= "getInvokingContext(<s.ruleIndex>).<s.name>"
SetNonLocalAttr(s, rhsChunks) ::= "getInvokingContext(<s.ruleIndex>).<s.name> = <rhsChunks>"

```

```

AddToLabelList(a) ::= "<ctx(a.label)>.<a.listName>.push(<labelref(a.label)>);"

```

```

TokenDecl(t) ::= "this.<t.name> = null; // <TokenLabelType()>"
TokenTypeDecl(t) ::= "var <t.name> = 0; // <TokenLabelType()> type"
TokenListDecl(t) ::= "this.<t.name> = []; // of <TokenLabelType()>s"
RuleContextDecl(r) ::= "this.<r.name> = null; // <r.ctxName>"
RuleContextListDecl(rdecl) ::= "this.<rdecl.name> = []; // of <rdecl.ctxName>s"

```

```

ContextTokenGetterDecl(t) ::= <<
<t.name> = function() {
    return this.getToken(<parser.name>.<t.name>, 0);
};
>>

```

```

// should never be called
ContextTokenListGetterDecl(t) ::= <<
def <t.name>_list(self):
    return self.getTokens(<parser.name>.<t.name>)
>>

```

```

ContextTokenListIndexedGetterDecl(t) ::= <<
<t.name> = function(i) {
    if(i===undefined) {
        i = null;

```

```

}
if(i===null) {
  return this.getTokens(<parser.name>.<t.name>);
} else {
  return this.getToken(<parser.name>.<t.name>, i);
}
};

```

```
>>
```

```

ContextRuleGetterDecl(r) ::= <<
<r.name> = function() {
  return this.getTypedRuleContext(<r.ctxName>,0);
};
>>

```

```
// should never be called
```

```

ContextRuleListGetterDecl(r) ::= <<
def <r.name>_list(self):
  return self.getTypedRuleContexts(<parser.name>.<r.ctxName>)

```

```
>>
```

```

ContextRuleListIndexedGetterDecl(r) ::= <<
<r.name> = function(i) {
  if(i===undefined) {
    i = null;
  }
  if(i===null) {
    return this.getTypedRuleContexts(<r.ctxName>);
  } else {
    return this.getTypedRuleContext(<r.ctxName>,i);
  }
};
>>

```

```
LexerRuleContext() ::= "RuleContext"
```

```

/** The rule context name is the rule followed by a suffix; e.g.,
 * r becomes rContext.
 */

```

```
RuleContextNameSuffix() ::= "Context"
```

```
ImplicitTokenLabel(tokenName) ::= "_<tokenName>"
```

```
ImplicitRuleLabel(ruleName) ::= "_<ruleName>"
```

```
ImplicitSetLabel(id) ::= "_tset<id>"
```

```
ListLabelName(label) ::= "<label>"
```

```

CaptureNextToken(d) ::= "<d.varName> = self._input.LT(1)"
CaptureNextTokenType(d) ::= "<d.varName> = this._input.LA(1);"

StructDecl(struct,ctorAttrs,attrs,getters,dispatchMethods,interfaces,extensionMembers) ::= <<
function <struct.name>(parser, parent, invokingState<struct.ctorAttrs:{a | , <a.name>}> ) {
  if(parent===undefined) {
    parent = null;
  }
  if(invokingState===undefined || invokingState===null) {
    invokingState = -1;
  }
  <if(contextSuperClass)><contextSuperClass><else>antlr4.ParserRuleContext<endif>.call(this, parent,
invokingState);
  this.parser = parser;
  this.ruleIndex = <parser.name>.RULE_<struct.derivedFromName>;
  <attrs:{a | <a>}; separator="\n">
  <struct.ctorAttrs:{a | this.<a.name> = <a.name> || null;}; separator="\n">
  return this;
}

<struct.name>.prototype =
Object.create(<if(contextSuperClass)><contextSuperClass><else>antlr4.ParserRuleContext<endif>.prototype);
<struct.name>.prototype.constructor = <struct.name>;

<getters:{g | <struct.name>.prototype.<g>}; separator="\n\n">

<if(struct.provideCopyFrom)> <! don't need copy unless we have subclasses !>
<struct.name>.prototype.copyFrom = function(ctx) {
<if(contextSuperClass)><contextSuperClass><else>antlr4.ParserRuleContext<endif>.prototype.copyFrom.call(this,
ctx);
  <struct.attrs:{a | this.<a.name> = ctx.<a.name>}; separator="\n">
};
<endif>
<dispatchMethods; separator="\n">
<extensionMembers; separator="\n">

>>

AltLabelStructDecl(struct,attrs,getters,dispatchMethods) ::= <<
function <struct.name>(parser, ctx) {
  <currentRule.name; format="cap">Context.call(this, parser);
  <attrs:{a | <a>}; separator="\n">
  <currentRule.name; format="cap">Context.prototype.copyFrom.call(this, ctx);
  return this;
}

<struct.name>.prototype = Object.create(<currentRule.name; format="cap">Context.prototype);
<struct.name>.prototype.constructor = <struct.name>;

```

```

<! Define fields of this parser to export this struct/context class !>
<parser.name>.<struct.name> = <struct.name>;

<getters:{g | <struct.name>.prototype.<g>}; separator="\n\n">
<dispatchMethods; separator="\n">

>>

ListenerDispatchMethod(method) ::= <<
<struct.name>.prototype.<if(method.isEnter)>enter<else>exit<endif>Rule = function(listener) {
  if(listener instanceof <parser.grammarName>Listener ) {
    listener.<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName; format="cap">(this);
  }
};

>>

VisitorDispatchMethod(method) ::= <<
<struct.name>.prototype.accept = function(visitor) {
  if ( visitor instanceof <parser.grammarName>Visitor ) {
    return visitor.visit<struct.derivedFromName; format="cap">(this);
  } else {
    return visitor.visitChildren(this);
  }
};

>>

AttributeDecl(d) ::= "this.<d.name> = <if(d.initValue)><d.initValue><else>null<endif>"

/** If we don't know location of label def x, use this template */
labelref(x) ::= "<if(!x.isLocal)>localctx.<endif><x.name>"

/** For any action chunk, what is correctly-typed context struct ptr? */
ctx(actionChunk) ::= "localctx"

// used for left-recursive rules
recRuleAltPredicate(ruleName,opPrec) ::= "this.precpred(this._ctx, <opPrec>)"
recRuleSetReturnAction(src,name) ::= "$<name>=<src>.<name>"
recRuleSetStopToken() ::= "this._ctx.stop = this._input.LT(-1);"

recRuleAltStartAction(ruleName, ctxName, label) ::= <<
localctx = new <ctxName>Context(this, _parentctx, _parentState);
<if(label)>localctx.<label> = _prevctx;<endif>
this.pushNewRecursionContext(localctx, _startState, <parser.name>.RULE_<ruleName>);
>>

```

```

recRuleLabeledAltStartAction(ruleName, currentAltLabel, label, isListLabel) ::= <<
localctx = new <currentAltLabel; format="cap">Context(this, new <ruleName; format="cap">Context(this,
_parentctx, _parentState));
<if(label)>
<if(isListLabel)>
localctx.<label>.push(_prevctx);
<else>
localctx.<label> = _prevctx;
<endif>
<endif>
this.pushNewRecursionContext(localctx, _startState, <parser.name>.RULE_<ruleName>);
>>

```

```

recRuleReplaceContext(ctxName) ::= <<
localctx = new <ctxName>Context(this, localctx);
this._ctx = localctx;
_prevctx = localctx;
>>

```

```

recRuleSetPrevCtx() ::= <<
if(this._parseListeners!=null) {
    this.triggerExitRuleEvent();
}
_prevctx = localctx;
>>

```

```

LexerFile(lexerFile, lexer, namedActions) ::= <<
<fileHeader(lexerFile.grammarFileName, lexerFile.ANTLRVersion)>
var antlr4 = require('antlr4/index');

<namedActions.header>

<lexer>

>>

```

```

Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<

<atn>

var atn = new antlr4.atn.ATNDeserializer().deserialize(serializedATN);

var decisionsToDFA = atn.decisionToState.map( function(ds, index) { return new antlr4.dfa.DFA(ds, index); });

function <lexer.name>(input) {
<if(superClass)><superClass><else>antlr4.Lexer<endif>.call(this, input);
    this._interp = new antlr4.atn.LexerATNSimulator(this, atn, decisionsToDFA, new

```

```

antlr4.PredictionContextCache());
    return this;
}

<lexer.name>.prototype = Object.create(<if(superClass)><superClass><else>antlr4.Lexer<endif>.prototype);
<lexer.name>.prototype.constructor = <lexer.name>;

<lexer.name>.EOF = antlr4.Token.EOF;
<lexer.tokens:{k | <lexer.name>.<k> = <lexer.tokens.(k)>; separator="\n", wrap, anchor>

<rest(lexer.modes):{m| <lexer.name>.<m> = <i>; separator="\n">

<lexer.name>.prototype.modeNames = [ <lexer.modes:{m| "<m>"}; separator=", ", wrap, anchor> ];

<lexer.name>.prototype.literalNames = [ <lexer.literalNames:{t | <t>}; null="null", separator=", ", wrap, anchor> ];

<lexer.name>.prototype.symbolicNames = [ <lexer.symbolicNames:{t | <t>}; null="null", separator=", ", wrap,
anchor> ];

<lexer.name>.prototype.ruleNames = [ <lexer.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor> ];

<lexer.name>.prototype.grammarFileName = "<lexer.grammarFileName>";

<namedActions.members>

<dumpActions(lexer, "", actionFuncs, sempredFuncs)>

exports.<lexer.name> = <lexer.name>;

>>

SerializedATN(model) ::= <<
<! only one segment, can be inlined !>

var serializedATN = ["<model.serialized; wrap={",<n> " }>"].join("");

>>

/** Using a type to init value map, try to init a type; if not in table
 * must be an object, default value is "null".
 */
initValue(typeName) ::= <<
<javaTypeInitMap.(typeName)>
>>

codeFileExtension() ::= ".js"

Found in path(s):

```

```
* /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-  
jar/org/antlr/v4/tool/templates/codegen/JavaScript/JavaScript.stg
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*/
```

```
/** Find left-recursive rules */
```

```
tree grammar LeftRecursiveRuleWalker;
```

```
options {
```

```
tokenVocab=ANTLRParser;
```

```
ASTLabelType=GrammarAST;
```

```
}
```

```
@header {
```

```
package org.antlr.v4.parse;
```

```
import org.antlr.v4.misc.*;
```

```
import org.antlr.v4.tool.*;
```

```
import org.antlr.v4.tool.ast.*;
```

```

}

@members {
private String ruleName;
private int currentOuterAltNumber; // which outer alt of rule?
public int numAlts; // how many alts for this rule total?

public void setAltAssoc(AltAST altTree, int alt) {}
public void binaryAlt(AltAST altTree, int alt) {}
public void prefixAlt(AltAST altTree, int alt) {}
public void suffixAlt(AltAST altTree, int alt) {}
public void otherAlt(AltAST altTree, int alt) {}
public void setReturnValues(GrammarAST t) {}
}

@rulecatch { }

// TODO: can get parser errors for not matching pattern; make them go away
public
rec_rule returns [boolean isLeftRec]
@init
{
currentOuterAltNumber = 1;
}
: ^( r=RULE id=RULE_REF {ruleName=$id.getText();}
ruleModifier?
// (ARG_ACTION)? shouldn't allow args, right?
^(RETURNS a=ARG_ACTION {setReturnValues($a);}))?
// (^(THROWS .+)) ? don't allow
(^(LOCALS ARG_ACTION) )? // TODO: copy these to gen'd code
(^(OPTIONS .*)
| ^(AT ID ACTION) // TODO: copy
)*
ruleBlock { $isLeftRec = $ruleBlock.isLeftRec; }
exceptionGroup
)
;

exceptionGroup
: exceptionHandler* finallyClause?
;

exceptionHandler
: ^(CATCH ARG_ACTION ACTION)
;

finallyClause
: ^(FINALLY ACTION)

```



```

;

ruleModifier
: PUBLIC
| PRIVATE
| PROTECTED
;

ruleBlock returns [boolean isLeftRec]
@init{boolean lr=false; this.numAlts = $start.getChildCount();}
: ^( BLOCK
(
o=outerAlternative
{if ($o.isLeftRec) $isLeftRec = true;}
{currentOuterAltNumber++;}
)+
)
;

/** An alt is either prefix, suffix, binary, or ternary operation or "other" */
outerAlternative returns [boolean isLeftRec]
: (binary)=>    binary
                {binaryAlt((AltAST)$start, currentOuterAltNumber); $isLeftRec=true;}
| (prefix)=>    prefix
                {prefixAlt((AltAST)$start, currentOuterAltNumber);}
| (suffix)=>    suffix
                {suffixAlt((AltAST)$start, currentOuterAltNumber); $isLeftRec=true;}
| nonLeftRecur {otherAlt((AltAST)$start, currentOuterAltNumber);}
;

binary
: ^( ALT elementOptions? recurse element* recurse epsilonElement* )
  {setAltAssoc((AltAST)$ALT,currentOuterAltNumber);}
;

prefix
: ^( ALT elementOptions?
  element+
  recurse epsilonElement*
)
  {setAltAssoc((AltAST)$ALT,currentOuterAltNumber);}
;

suffix
: ^( ALT elementOptions? recurse element+ )
  {setAltAssoc((AltAST)$ALT,currentOuterAltNumber);}
;

```

```

nonLeftRecur
  : ^(ALT elementOptions? element+)
  ;

recurse
  : ^(ASSIGN ID recurseNoLabel)
  | ^(PLUS_ASSIGN ID recurseNoLabel)
  | recurseNoLabel
  ;

recurseNoLabel : {((CommonTree)input.LT(1)).getText().equals(ruleName)}? RULE_REF;

token returns [GrammarAST t=null]
  : ^(ASSIGN ID s=token {$t = $s.t;})
  | ^(PLUS_ASSIGN ID s=token {$t = $s.t;})
  | b=STRING_LITERAL    {$t = $b;}
  | ^(b=STRING_LITERAL elementOptions) {$t = $b;}
  | ^(c=TOKEN_REF elementOptions) {$t = $c;}
  | c=TOKEN_REF        {$t = $c;}
  ;

elementOptions
  : ^(ELEMENT_OPTIONS elementOption*)
  ;

elementOption
  : ID
  | ^(ASSIGN ID ID)
  | ^(ASSIGN ID STRING_LITERAL)
  | ^(ASSIGN ID ACTION)
  | ^(ASSIGN ID INT)
  ;

element
  : atom
  | ^(NOT element)
  | ^(RANGE atom atom)
  | ^(ASSIGN ID element)
  | ^(PLUS_ASSIGN ID element)
  | ^(SET setElement+)
  | RULE_REF
  | ebnf
  | epsilonElement
  ;

epsilonElement
  : ACTION
  | SEMPRED

```

```
| EPSILON
| ^(ACTION elementOptions)
| ^(SEMPRED elementOptions)
;
```

```
setElement
: ^(STRING_LITERAL elementOptions)
| ^(TOKEN_REF elementOptions)
| STRING_LITERAL
| TOKEN_REF
;
```

```
ebnf: block
| ^( OPTIONAL block )
| ^( CLOSURE block )
| ^( POSITIVE_CLOSURE block )
;
```

```
block
: ^(BLOCK ACTION? alternative+)
;
```

```
alternative
: ^(ALT elementOptions? element+)
;
```

```
atom
: ^(RULE_REF ARG_ACTION? elementOptions?)
| ^(STRING_LITERAL elementOptions)
| STRING_LITERAL
| ^(TOKEN_REF elementOptions)
| TOKEN_REF
| ^(WILDCARD elementOptions)
| WILDCARD
| ^(DOT ID element)
;
```

Found in path(s):

* /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-jar/org/antlr/v4/parse/LeftRecursiveRuleWalker.g

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```
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- */

```
atn(startState, states, edges, rankdir, decisionRanks, useBox) ::= <<
digraph ATN {
rankdir=LR;
<decisionRanks; separator="\n">
<states; separator="\n">
<edges; separator="\n">
}
>>
```

```
dfa(name, startState, states, edges, rankdir, decisionRanks, useBox) ::= <<
digraph <name> {
<if(rankdir)>rankdir=<rankdir>;<endif>
<decisionRanks; separator="\n">
<states; separator="\n">
<edges; separator="\n">
}
>>
```

```
decision-rank(states) ::= <<
{rank=same; rankdir=TB; <states:{s | s<s>}; separator=" "; ">}
>>
```

```
edge(src,target,label,arrowhead,transitionIndex) ::= <<
<src><if(transitionIndex)>:p<transitionIndex><endif> -> <target> [fontsize=11, fontname="Courier", arrowsize=.7,
```

```

label = "<label>"<if(arrowhead)>, arrowhead = <arrowhead><endif>;
>>

action-edge(src,target,label,arrowhead,transitionIndex) ::= <<
<src><if(transitionIndex)>:p<transitionIndex><endif> -> <target> [fontsize=11, fontname="Courier", arrowsize=.7,
label = "<label>"<if(arrowhead)>, arrowhead = <arrowhead><endif>;
>>

epsilon-edge(src,label,target,arrowhead,transitionIndex,loopback=false) ::= <<
<src><if(transitionIndex)>:p<transitionIndex><endif> -> <target> [fontname="Times-Italic",
label="&epsilon;"<if(loopback)>, style="dashed"<endif>;
>>

state(state, label, name, transitions) ::= <%
<name>[fontsize=11,
label="
  <! rest(transition) tests for decision states: these nodes have a non-empty set of transitions after the first one. !>
  <if(rest(transitions))>
    {
      <! Label on the left side of the record node. !>
      <label>
      |
      <! Named ports in order on right side of record node, no display text. !>
      {<transitions:{t|\<p<i0>>}; separator="|">}
    }
  <else>
    <label>
  <endif>
  "
  <if(rest(transitions))>
    , shape=record, fixedsize=false
  <else>
    , shape=circle, fixedsize=true, width=.55
  <endif>
  , peripheries=1];
%>

stopstate(name,label,actionIndex,useBox) ::= <<
<name>[fontsize=11, label="<label><if(actionIndex)>,\naction:<actionIndex><endif>",
<if(useBox)>shape=polygon,sides=4,peripheries=2,fixedsize=false<else>shape=doublecircle, fixedsize=true,
width=.6<endif>];
>>

```

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 */

// args must be <object-model-object>, <fields-resulting-in-STs>

```
ParserFile(file, parser, namedActions, contextSuperClass) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage> {
<endif>
<namedActions.header>
using System;
using System.Text;
using System.Diagnostics;
using System.Collections.Generic;
using Antlr4.Runtime;
using Antlr4.Runtime.Atn;
using Antlr4.Runtime.Misc;
using Antlr4.Runtime.Tree;
using DFA = Antlr4.Runtime.Dfa.DFA;

<parser>
<if(file.genPackage)>
} // namespace <file.genPackage>
<endif>
>>
```

```
ListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage> {
<endif>
<header>
using Antlr4.Runtime.Misc;
using IParseTreeListener = Antlr4.Runtime.Tree.IParseTreeListener;
using IToken = Antlr4.Runtime.IToken;
```

```
/// \<summary>
/// This interface defines a complete listener for a parse tree produced by
/// \<see cref="<csIdentifier.(file.parserName)>"/>.
/// \</summary>
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<file.ANTLRVersion>")]
```

```

[System.CLSCompliant(false)]
public interface I<file.grammarName>Listener : IParseTreeListener {
    <file.listenerNames: {Iname |
/// \<summary>
<if(file.listenerLabelRuleNames.(Iname))>
/// Enter a parse tree produced by the \<c><Iname>\</c>
/// labeled alternative in \<see cref="<file.parserName>.<file.listenerLabelRuleNames.(Iname)>"/>.
<else>
/// Enter a parse tree produced by \<see cref="<file.parserName>.<Iname>"/>.
<endif>
/// \</summary>
/// \<param name="context">The parse tree.\</param>
void Enter<Iname; format="cap">([NotNull] <csIdentifier.(file.parserName)>.<Iname; format="cap">Context
context);
/// \<summary>
<if(file.listenerLabelRuleNames.(Iname))>
/// Exit a parse tree produced by the \<c><Iname>\</c>
/// labeled alternative in \<see cref="<file.parserName>.<file.listenerLabelRuleNames.(Iname)>"/>.
<else>
/// Exit a parse tree produced by \<see cref="<file.parserName>.<Iname>"/>.
<endif>
/// \</summary>
/// \<param name="context">The parse tree.\</param>
void Exit<Iname; format="cap">([NotNull] <csIdentifier.(file.parserName)>.<Iname; format="cap">Context
context);}; separator="\n"
}
<if(file.genPackage)>
} // namespace <file.genPackage>
<endif>
>>

```

```

BaseListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage> {
<endif>
<header>

```

```

using Antlr4.Runtime.Misc;
using IErrorNode = Antlr4.Runtime.Tree.IErrorNode;
using ITerminalNode = Antlr4.Runtime.Tree.ITerminalNode;
using IToken = Antlr4.Runtime.IToken;
using ParserRuleContext = Antlr4.Runtime.ParserRuleContext;

```

```

/// \<summary>
/// This class provides an empty implementation of \<see cref="I<file.grammarName>Listener"/>,
/// which can be extended to create a listener which only needs to handle a subset
/// of the available methods.

```



```

/// \</summary>
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<file.ANTLRVersion>")]
[System.CLSCompliant(false)]
public partial class <file.grammarName>BaseListener : I<file.grammarName>Listener {
    <file.listenerNames> { Iname |
/// \<summary>
<if(file.listenerLabelRuleNames.(Iname))>
/// Enter a parse tree produced by the \<c><Iname>\</c>
/// labeled alternative in \<see cref="<file.parserName>.<file.listenerLabelRuleNames.(Iname)>"/>.
<else>
/// Enter a parse tree produced by \<see cref="<file.parserName>.<Iname>"/>.
<endif>
/// \<para>The default implementation does nothing.\</para>
/// \</summary>
/// \<param name="context">The parse tree.\</param>
public virtual void Enter<Iname; format="cap">([NotNull] <csIdentifier.(file.parserName)>.<Iname;
format="cap">Context context) { \}
/// \<summary>
<if(file.listenerLabelRuleNames.(Iname))>
/// Exit a parse tree produced by the \<c><Iname>\</c>
/// labeled alternative in \<see cref="<file.parserName>.<file.listenerLabelRuleNames.(Iname)>"/>.
<else>
/// Exit a parse tree produced by \<see cref="<file.parserName>.<Iname>"/>.
<endif>
/// \<para>The default implementation does nothing.\</para>
/// \</summary>
/// \<param name="context">The parse tree.\</param>
public virtual void Exit<Iname; format="cap">([NotNull] <csIdentifier.(file.parserName)>.<Iname;
format="cap">Context context) { \} }; separator="\n">

/// \<inheritdoc/>
/// \<remarks>The default implementation does nothing.\</remarks>
public virtual void EnterEveryRule([NotNull] ParserRuleContext context) { }
/// \<inheritdoc/>
/// \<remarks>The default implementation does nothing.\</remarks>
public virtual void ExitEveryRule([NotNull] ParserRuleContext context) { }
/// \<inheritdoc/>
/// \<remarks>The default implementation does nothing.\</remarks>
public virtual void VisitTerminal([NotNull] ITerminalNode node) { }
/// \<inheritdoc/>
/// \<remarks>The default implementation does nothing.\</remarks>
public virtual void VisitErrorNode([NotNull] IErrorNode node) { }
}
<if(file.genPackage)>
} // namespace <file.genPackage>
<endif>
>>

```

```

VisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage> {
<endif>
<header>
using Antlr4.Runtime.Misc;
using Antlr4.Runtime.Tree;
using IToken = Antlr4.Runtime.IToken;

/// \<summary>
/// This interface defines a complete generic visitor for a parse tree produced
/// by \<see cref="<csIdentifier(file.parserName)>"/>.
/// \</summary>
/// \<typeparam name="Result">The return type of the visit operation.\</typeparam>
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<file.ANTLRVersion>")]
[System.CLSCompliant(false)]
public interface I<file.grammarName>Visitor<Result> : IParseTreeVisitor<Result> {
    <file.visitorNames:{ lname |
/// \<summary>
<if(file.visitorLabelRuleNames.(lname))>
/// Visit a parse tree produced by the \<c><lname>\</c>
/// labeled alternative in \<see cref="<file.parserName>.<file.visitorLabelRuleNames.(lname)>"/>.
<else>
/// Visit a parse tree produced by \<see cref="<file.parserName>.<lname>"/>.
<endif>
/// \</summary>
/// \<param name="context">The parse tree.\</param>
/// \<return>The visitor result.\</return>
Result Visit<lname; format="cap">([NotNull] <csIdentifier(file.parserName)>.<lname; format="cap">Context
context);}; separator="\n">
    }
<if(file.genPackage)>
} // namespace <file.genPackage>
<endif>
>>

```

```

BaseVisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage> {
<endif>
<header>
using Antlr4.Runtime.Misc;
using Antlr4.Runtime.Tree;
using IToken = Antlr4.Runtime.IToken;
using ParserRuleContext = Antlr4.Runtime.ParserRuleContext;

```

```

/// \<summary>
/// This class provides an empty implementation of \<see cref="I<file.grammarName>Visitor{Result}"/>,
/// which can be extended to create a visitor which only needs to handle a subset
/// of the available methods.
/// \</summary>
/// \<typeparam name="Result">The return type of the visit operation.\</typeparam>
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<file.ANTLRVersion>")]
[System.CLSCompliant(false)]
public partial class <file.grammarName>BaseVisitor<<Result> : AbstractParseTreeVisitor<<Result>,
I<file.grammarName>Visitor<<Result> {
    <file.visitorNames:{Iname |
/// \<summary>
<if(file.visitorLabelRuleNames.(Iname))>
/// Visit a parse tree produced by the \<c><Iname>\</c>
/// labeled alternative in \<see cref="<file.parserName>.<file.visitorLabelRuleNames.(Iname)>"/>.
<else>
/// Visit a parse tree produced by \<see cref="<file.parserName>.<Iname>"/>.
<endif>
/// \<para>
/// The default implementation returns the result of calling \<see
cref="AbstractParseTreeVisitor{Result}.VisitChildren(IRuleNode)"/>
/// on \<paramref name="context"/>.
/// \</para>
/// \</summary>
/// \<param name="context">The parse tree.\</param>
/// \<return>The visitor result.\</return>
public virtual Result Visit<Iname; format="cap">([NotNull] <csIdentifier.(file.parserName)>.<Iname;
format="cap">Context context) { return VisitChildren(context); \}; separator="\n">
    }
<if(file.genPackage)>
    } // namespace <file.genPackage>
<endif>
>>

fileHeader(grammarFileName, ANTLRVersion) ::= <<
//-----
// \<auto-generated>
// This code was generated by a tool.
// ANTLR Version: <ANTLRVersion>
//
// Changes to this file may cause incorrect behavior and will be lost if
// the code is regenerated.
// \</auto-generated>
//-----

// Generated from <grammarFileName> by ANTLR <ANTLRVersion>

// Unreachable code detected

```

```

#pragma warning disable 0162
// The variable '...' is assigned but its value is never used
#pragma warning disable 0219
// Missing XML comment for publicly visible type or member '...'
#pragma warning disable 1591
// Ambiguous reference in cref attribute
#pragma warning disable 419

>>

Parser(parser, funcs, atn, sempredFuncs, superClass) ::= <<
<Parser_(ctor="parser_ctor", ...)>
>>

Parser_(parser, funcs, atn, sempredFuncs, ctor, superClass) ::= <<
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<file.ANTLRVersion>")]
[System.CLSCompliant(false)]
public partial class <csIdentifier.(parser.name)> : <superClass; null="Parser"> {
    protected static DFA[] decisionToDFA;
    protected static PredictionContextCache sharedContextCache = new PredictionContextCache();
    <if(parser.tokens)>
    public const int
    <parser.tokens:{k | <k>=<parser.tokens.(k)>}; separator=", ", wrap, anchor>;
    <endif>
    public const int
    <parser.rules:{r | RULE_<r.name> = <r.index>}; separator=", ", wrap, anchor>;
    public static readonly string[] ruleNames = {
    <parser.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor>
    };

    <vocabulary(parser.literalNames, parser.symbolicNames)>

    public override string GrammarFileName { get { return "<parser.grammarFileName>"; } }

    public override string[] RuleNames { get { return ruleNames; } }

    public override string SerializedAtn { get { return _serializedATN; } }

    static <csIdentifier.(parser.name)>() {
        decisionToDFA = new DFA[_ATN.NumberOfDecisions];
        for (int i = 0; i < _ATN.NumberOfDecisions; i++) {
            decisionToDFA[i] = new DFA(_ATN.GetDecisionState(i), i);
        }
    }

    <namedActions.members>
    <parser:(ctor)()>
    <funcs; separator="\n">

```

```

<if(sempredFuncs)>
public override bool Sempred(RuleContext _localctx, int ruleIndex, int predIndex) {
    switch (ruleIndex) {
        <parser.sempredFuncs.values:{f}
case <f.ruleIndex>: return <f.name>_sempred((<f.ctxType>)_localctx, predIndex);}; separator="\n"
    }
    return true;
    }
<sempredFuncs.values; separator="\n">
<endif>

<atn>
}
>>

vocabulary(literalNames, symbolicNames) ::= <<
private static readonly string[] _LiteralNames = {
    <literalNames:{t | <t>}; null="null", separator=" ", wrap, anchor>
};
private static readonly string[] _SymbolicNames = {
    <symbolicNames:{t | <t>}; null="null", separator=" ", wrap, anchor>
};
public static readonly IVocabulary DefaultVocabulary = new Vocabulary(_LiteralNames, _SymbolicNames);

[NotNull]
public override IVocabulary Vocabulary
{
    get
    {
        return DefaultVocabulary;
    }
}
>>

dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>
public override void Action(RuleContext _localctx, int ruleIndex, int actionIndex) {
    switch (ruleIndex) {
        <recog.actionFuncs.values:{f}
case <f.ruleIndex> : <f.name>_action(<if(!recog.modes)>(<f.ctxType><endif>_localctx, actionIndex); break;};
separator="\n"
    }
}
<actionFuncs.values; separator="\n">
<endif>
<if(sempredFuncs)>
public override bool Sempred(RuleContext _localctx, int ruleIndex, int predIndex) {

```

```

switch (ruleIndex) {
  <recog.sempredFuncs.values:{ f|
case <f.ruleIndex> : return <f.name>_sempred(<if(!recog.modes)>(<f.ctxType>)<endif>_localctx, predIndex);};
separator="\n">
  }
  return true;
}
<sempredFuncs.values; separator="\n">
<endif>
>>

```

```

parser_ctor(parser) ::= <<
public <csIdentifier.(parser.name)>(ITokenStream input)
: base(input)
{
  Interpreter = new ParserATNSimulator(this, _ATN, decisionToDFA, sharedContextCache);
}
>>

```

/* This generates a private method since the actionIndex is generated, making an
* overriding implementation impossible to maintain.
*/

```

RuleActionFunction(r, actions) ::= <<
private void <r.name>_action(<r.ctxType> _localctx, int actionIndex) {
  switch (actionIndex) {
    <actions:{index|
case <index>: <actions.(index)> break;}; separator="\n">
  }
}
>>

```

/* This generates a private method since the predIndex is generated, making an
* overriding implementation impossible to maintain.
*/

```

RuleSempredFunction(r, actions) ::= <<
private bool <r.name>_sempred(<r.ctxType> _localctx, int predIndex) {
  switch (predIndex) {
    <actions:{index|
case <index>: return <actions.(index)>;}; separator="\n">
  }
  return true;
}
>>

```

```

RuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,postamble,exceptions)
::= <<

```

```

<if(ruleCtx)>

```

```

<ruleCtx>
<endif>
<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">

[RuleVersion(<namedActions.version; null="0">)]
<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else>public <endif><currentRule.ctxType>
<csIdentifier(currentRule.name)><(args; separator=", "> {
  <currentRule.ctxType> _localctx = new <currentRule.ctxType>(Context, State<currentRule.args:{a | ,
<csIdentifier(a.name)>>>);
  EnterRule(_localctx, <currentRule.startState>, RULE_<currentRule.name>);
  <namedActions.init>
  <locals; separator="\n">
  try {
<if(currentRule.hasLookaheadBlock)>
  int _alt;
<endif>
  <code>
  <postamble; separator="\n">
  <namedActions.after>
  }
  <if(exceptions)>
  <exceptions; separator="\n">
  <else>
  catch (RecognitionException re) {
    _localctx.exception = re;
    ErrorHandler.ReportError(this, re);
    ErrorHandler.Recover(this, re);
  }
  <endif>
  finally {
  <finallyAction>
  ExitRule();
  }
  return _localctx;
  }
>>

```

```

LeftFactoredRuleFunction(currentRule,args,code,locals,namedActions,finallyAction,postamble) ::=
<<

```

```

<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else>private <endif><currentRule.ctxType>
<csIdentifier(currentRule.name)><(args; separator=", "> {
  <currentRule.ctxType> _localctx = new <currentRule.ctxType>(Context, State<currentRule.args:{a | ,
<csIdentifier(a.name)>>>);
  EnterLeftFactoredRule(_localctx, <currentRule.startState>, RULE_<currentRule.variantOf>);
  <namedActions.init>
  <locals; separator="\n">
  try {

```

```

<if(currentRule.hasLookaheadBlock)>
  int _alt;
<endif>
<code>
<postamble; separator="\n">
<namedActions.after>
}
catch (RecognitionException re) {
  _localctx.exception = re;
  ErrorHandler.ReportError(this, re);
  ErrorHandler.Recover(this, re);
}
finally {
  <finallyAction>
  ExitRule();
}
return _localctx;
}
>>

// This behaves similar to RuleFunction (enterRule is called, and no adjustments
// are made to the parse tree), but since it's still a variant no context class
// needs to be generated.
LeftUnfactoredRuleFunction(currentRule,args,code,locals,namedActions,finallyAction,postamble) ::=
<<

<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else>private <endif><currentRule.ctxType>
<csIdentifier.(currentRule.name)><(args; separator=", "> {
  <currentRule.ctxType> _localctx = new <currentRule.ctxType>(Context, State<currentRule.args:{a | ,
<csIdentifier.(a.name)>>>);
  EnterRule(_localctx, <currentRule.startState>, RULE_<currentRule.variantOf>);
  <namedActions.init>
  <locals; separator="\n">
  try {
  <if(currentRule.hasLookaheadBlock)>
    int _alt;
  <endif>
  <code>
  <postamble; separator="\n">
  <namedActions.after>
  }
  catch (RecognitionException re) {
    _localctx.exception = re;
    ErrorHandler.ReportError(this, re);
    ErrorHandler.Recover(this, re);
  }
  finally {
    <finallyAction>

```



```

    ExitRule();
}
return _localctx;
}
>>

```

```

LeftRecursiveRuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,
    namedActions,finallyAction,postamble) ::=
<<

```

```

<ruleCtx>
<altLabelCtxs:{l | <altLabelCtxs.l>}; separator="\n">

```

```

[RuleVersion(<namedActions.version; null="0">)]
<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else>public <endif><currentRule.ctxType>
<csIdentifier.(currentRule.name)>(<args; separator=", ">) {
    return <csIdentifier.(currentRule.name)>(0<currentRule.args:{a | , <csIdentifier.(a.name)>}>);
}

```

```

private <currentRule.ctxType> <csIdentifier.(currentRule.name)>(int _p<args:{a | , <a>}>) {
    ParserRuleContext _parentctx = Context;
    int _parentState = State;
    <currentRule.ctxType> _localctx = new <currentRule.ctxType>(Context, _parentState<currentRule.args:{a | ,
<csIdentifier.(a.name)>}>);
    <currentRule.ctxType> _prevctx = _localctx;
    int _startState = <currentRule.startState>;
    EnterRecursionRule(_localctx, <currentRule.startState>, RULE_<currentRule.name>, _p);
    <namedActions.init>
    <locals; separator="\n">
    try {
    <if(currentRule.hasLookaheadBlock)>
        int _alt;
    <endif>
        <code>
        <postamble; separator="\n">
        <namedActions.after>
    }
    catch (RecognitionException re) {
        _localctx.exception = re;
        ErrorHandler.ReportError(this, re);
        ErrorHandler.Recover(this, re);
    }
    finally {
        <finallyAction>
        UnrollRecursionContexts(_parentctx);
    }
    return _localctx;
}

```

>>

```
CodeBlockForOuterMostAlt(currentOuterMostAltCodeBlock, locals, preamble, ops) ::= <<
<if(currentOuterMostAltCodeBlock.altLabel)>_localctx = new <currentOuterMostAltCodeBlock.altLabel;
format="cap">Context(_localctx);<endif>
EnterOuterAlt(_localctx, <currentOuterMostAltCodeBlock.alt.altNum>);
<CodeBlockForAlt(currentAltCodeBlock=currentOuterMostAltCodeBlock, ...)>
>>
```

```
CodeBlockForAlt(currentAltCodeBlock, locals, preamble, ops) ::= <<
{
<locals; separator="\n">
<preamble; separator="\n">
<ops; separator="\n">
}
>>
```

```
LL1AltBlock(choice, preamble, alts, error) ::= <<
State = <choice.stateNumber>;
ErrorHandler.Sync(this);
<if(choice.label)><labelref(choice.label)> = TokenStream.LT(1);<endif>
<preamble; separator="\n">
switch (TokenStream.LA(1)) {
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
<alt>
break;}; separator="\n">
default:
<error>
}
>>
```

```
LL1OptionalBlock(choice, alts, error) ::= <<
State = <choice.stateNumber>;
ErrorHandler.Sync(this);
switch (TokenStream.LA(1)) {
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
<alt>
break;}; separator="\n">
default:
<error>
}
>>
```

```
LL1OptionalBlockSingleAlt(choice, expr, alts, preamble, error, followExpr) ::= <<
State = <choice.stateNumber>;
ErrorHandler.Sync(this);
<preamble; separator="\n">
if (<expr>) {
```

```

    <alts; separator="\n">
  }
  <!else if ( !(<followExpr> ) <error>!>
>>

```

```

LL1StarBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
State = <choice.stateNumber>;
ErrorHandler.Sync(this);
<preamble; separator="\n">
while ( <loopExpr> ) {
  <alts; separator="\n">
  State = <choice.loopBackStateNumber>;
  ErrorHandler.Sync(this);
  <iteration>
}
>>

```

```

LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
State = <choice.blockStartStateNumber>;<! alt block decision !>
ErrorHandler.Sync(this);
<preamble; separator="\n">
do {
  <alts; separator="\n">
  State = <choice.stateNumber>;<! loopback/exit decision !>
  ErrorHandler.Sync(this);
  <iteration>
} while ( <loopExpr> );
>>

```

```

// LL(*) stuff

```

```

AltBlock(choice, preamble, alts, error) ::= <<
State = <choice.stateNumber>;
ErrorHandler.Sync(this);
<if(choice.label)><labelref(choice.label)> = TokenStream.LT(1);<endif>
<preamble; separator="\n">
switch ( Interpreter.AdaptivePredict(TokenStream,<choice.decision>,Context) ) {
  <alts:{ alt |
  case <i>:
    <alt>
    break;}; separator="\n">
}
>>

```

```

OptionalBlock(choice, alts, error) ::= <<
State = <choice.stateNumber>;
ErrorHandler.Sync(this);
switch ( Interpreter.AdaptivePredict(TokenStream,<choice.decision>,Context) ) {

```

```

<alts:{alt |
case <i><if(!choice.ast.greedy)>+1<endif>:
  <alt>
  break;}; separator="\n">
}
>>

```

```

StarBlock(choice, alts, sync, iteration) ::= <<
State = <choice.stateNumber>;
ErrorHandler.Sync(this);
_alt = Interpreter.AdaptivePredict(TokenStream,<choice.decision>,Context);
while ( _alt!=<choice.exitAlt> && _alt!=global::Antlr4.Runtime.Atn.ATN.INVALID_ALT_NUMBER ) {
if ( _alt==1<if(!choice.ast.greedy)>+1<endif> ) {
  <iteration>
  <alts> <! should only be one !>
}
State = <choice.loopBackStateNumber>;
ErrorHandler.Sync(this);
_alt = Interpreter.AdaptivePredict(TokenStream,<choice.decision>,Context);
}
>>

```

```

PlusBlock(choice, alts, error) ::= <<
State = <choice.blockStartStateNumber>;<! alt block decision !>
ErrorHandler.Sync(this);
_alt = 1<if(!choice.ast.greedy)>+1<endif>;
do {
  switch ( _alt ) {
  <alts:{alt|
case <i><if(!choice.ast.greedy)>+1<endif>:
  <alt>
  break;}; separator="\n">
  default:
  <error>
}
State = <choice.loopBackStateNumber>;<! loopback/exit decision !>
ErrorHandler.Sync(this);
_alt = Interpreter.AdaptivePredict(TokenStream,<choice.decision>,Context);
} while ( _alt!=<choice.exitAlt> && _alt!=global::Antlr4.Runtime.Atn.ATN.INVALID_ALT_NUMBER );
>>

```

```

Sync(s) ::= "Sync(<s.expecting.name>);"

```

```

ThrowNoViableAlt(t) ::= "throw new NoViableAltException(this);"

```

```

TestSetInline(s) ::= <<
<s.bitsets:{bits | <if(rest(rest(bits.ttypes)))><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s,
bits)><endif>}; separator=" || ">

```

```

>>

// Java language spec 15.19 - shift operators mask operands rather than overflow to 0... need range test
testShiftInRange(shiftAmount) ::= <<
((<shiftAmount>) & ~0x3f) == 0
>>

// produces smaller bytecode only when bits.ttypes contains more than two items
bitsetBitfieldComparison(s, bits) ::= <%
(<testShiftInRange(<offsetShift(s.varName, bits.shift)>)> && ((1L \<< <offsetShift(s.varName, bits.shift)>) &
(<bits.ttypes:{ ttype | (1L \<< <offsetShift(tokenType.(ttype), bits.shift)>)}; separator=" | ">) != 0)
%>

isZero ::= [
"0":true,
default:false
]

offsetShift(shiftAmount, offset) ::= <%
<if(!isZero.(offset))><shiftAmount> - <offset><else><shiftAmount><endif>
%>

// produces more efficient bytecode when bits.ttypes contains at most two items
bitsetInlineComparison(s, bits) ::= <%
<bits.ttypes:{ ttype | <s.varName>==<tokenType.(ttype)>}; separator=" || ">
%>

cases(ttypes) ::= <<
<ttypes:{ t | case <tokenType.(t)>:}; separator="\n">
>>

InvokeRule(r, argExprsChunks) ::= <<
State = <r.stateNumber>; <if(r.labels)><r.labels:{1 | <labelref(l)> =
}><endif><csIdentifier.(r.name)><(if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)><endif><endif><arg
ExprsChunks>;
>>

MatchToken(m) ::= <<
State = <m.stateNumber>; <if(m.labels)><m.labels:{1 | <labelref(l)> = }><endif>Match(<tokenType.(m.name)>);
>>

MatchSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, false)>"

MatchNotSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, true)>"

CommonSetStuff(m, expr, capture, invert) ::= <<
State = <m.stateNumber>;
<if(m.labels)><m.labels:{1 | <labelref(l)> = }>TokenStream.LT(1);<endif>

```

```

<capture>
if ( <if(invert)><m.varName> \<= 0 || <else>!<endif>(<expr>) ) {
  <if(m.labels)><m.labels:{1 | <labelref(1)> = }><endif>ErrorHandler.RecoverInline(this);
}
else {
  ErrorHandler.ReportMatch(this);
  Consume();
}
>>

Wildcard(w) ::= <<
State = <w.stateNumber>;
<if(w.labels)><w.labels:{1 | <labelref(1)> = }><endif>MatchWildcard();
>>

// ACTION STUFF

Action(a, foo, chunks) ::= "<chunks>"

ArgAction(a, chunks) ::= "<chunks>"

SemPred(p, chunks, failChunks) ::= <<
State = <p.stateNumber>;
if (!(<chunks>)) throw new FailedPredicateException(this, <p.predicate><if(failChunks)>,
<failChunks><elseif(p.msg)>, <p.msg><endif>);
>>

ExceptionClause(e, catchArg, catchAction) ::= <<
catch (<catchArg>) {
  <catchAction>
}
>>

// lexer actions are not associated with model objects

LexerSkipCommand() ::= "Skip();"
LexerMoreCommand() ::= "More();"
LexerPopModeCommand() ::= "PopMode();"

LexerTypeCommand(arg, grammar) ::= "_type = <tokenType.(arg)>);"
LexerChannelCommand(arg, grammar) ::= "_channel = <channelName.(arg)>);"
LexerModeCommand(arg, grammar) ::= "_mode = <modeName.(arg)>);"
LexerPushModeCommand(arg, grammar) ::= "PushMode(<modeName.(arg)>);"

ActionText(t) ::= "<t.text>"
ActionTemplate(t) ::= "<t.st>"
ArgRef(a) ::= "_localctx.<csIdentifier.(a.name)>"
LocalRef(a) ::= "_localctx.<csIdentifier.(a.name)>"

```

```

RetValRef(a) ::= "_localctx.<csIdentifier.(a.name)>"
QRetValRef(a) ::= "<ctx(a)>.<a.dict>.<csIdentifier.(a.name)>"
/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>.<csIdentifier.(tokenType.(t.name))>"
LabelRef(t) ::= "<ctx(t)>.<csIdentifier.(t.name)>"
ListLabelRef(t) ::= "<ctx(t)>.<ListLabelName(csIdentifier.(t.name))>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<csIdentifier.(s.name)> = <rhsChunks>;"

TokenLabelType() ::= "<file.TokenLabelType; null={IToken}>"
InputSymbolType() ::= "<file.InputSymbolType; null={IToken}>"

TokenPropertyRef_text(t) ::= "<ctx(t)>.<tokenType.(t.label)>!=null?<ctx(t)>.<tokenType.(t.label)>.Text:null)"
TokenPropertyRef_type(t) ::= "<ctx(t)>.<tokenType.(t.label)>!=null?<ctx(t)>.<tokenType.(t.label)>.Type:0)"
TokenPropertyRef_line(t) ::= "<ctx(t)>.<tokenType.(t.label)>!=null?<ctx(t)>.<tokenType.(t.label)>.Line:0)"
TokenPropertyRef_pos(t) ::=
"<ctx(t)>.<tokenType.(t.label)>!=null?<ctx(t)>.<tokenType.(t.label)>.CharPositionInLine:0)"
TokenPropertyRef_channel(t) ::=
"<ctx(t)>.<tokenType.(t.label)>!=null?<ctx(t)>.<tokenType.(t.label)>.Channel:0)"
TokenPropertyRef_index(t) ::=
"<ctx(t)>.<tokenType.(t.label)>!=null?<ctx(t)>.<tokenType.(t.label)>.TokenIndex:0)"
TokenPropertyRef_int(t) ::=
"<ctx(t)>.<tokenType.(t.label)>!=null?int.Parse(<ctx(t)>.<tokenType.(t.label)>.Text):0)"

RulePropertyRef_start(r) ::= "<ctx(r)>.<r.label>!=null?(<ctx(r)>.<r.label>.Start):null)"
RulePropertyRef_stop(r) ::= "<ctx(r)>.<r.label>!=null?(<ctx(r)>.<r.label>.Stop):null)"
RulePropertyRef_text(r) ::=
"<ctx(r)>.<r.label>!=null?TokenStream.GetText(<ctx(r)>.<r.label>.Start,<ctx(r)>.<r.label>.Stop):null)"
RulePropertyRef_ctx(r) ::= "<ctx(r)>.<r.label>"
RulePropertyRef_parser(r) ::= "this"

ThisRulePropertyRef_start(r) ::= "_localctx.Start"
ThisRulePropertyRef_stop(r) ::= "_localctx.Stop"
ThisRulePropertyRef_text(r) ::= "TokenStream.GetText(_localctx.Start, TokenStream.LT(-1))"
ThisRulePropertyRef_ctx(r) ::= "_localctx"
ThisRulePropertyRef_parser(r) ::= "this"

NonLocalAttrRef(s) ::= <%((<s.ruleName;
format="cap">Context)GetInvokingContext(<s.ruleIndex>)).<csIdentifier.(s.name)>%>
SetNonLocalAttr(s, rhsChunks) ::=
<%((<s.ruleName; format="cap">Context)GetInvokingContext(<s.ruleIndex>)).<csIdentifier.(s.name)> =
<rhsChunks>;%>

AddToLabelList(a) ::= "<ctx(a.label)>.<a.listName>.Add(<labelref(a.label)>);"

TokenDecl(t) ::= "<TokenLabelType() <csIdentifier.(tokenType.(t.name))>"
TokenTypeDecl(t) ::= "int <csIdentifier.(tokenType.(t.name))>;"
TokenListDecl(t) ::= "IList<IToken> <csIdentifier.(tokenType.(t.name))> = new List<IToken>()"
RuleContextDecl(r) ::= "<r.ctxName> <csIdentifier.(r.name)>"

```

```

RuleContextListDecl(rdecl) ::= "IList\<<rdecl.ctxName>> <csIdentifier.(rdecl.name)> = new
List\<<rdecl.ctxName>>()"

contextGetterCollection(elementType) ::= <%
<elementType>[]
%>

ContextTokenGetterDecl(t) ::=
    "public ITerminalNode <csIdentifier.(tokenType.(t.name))>() { return
    GetToken(<csIdentifier.(parser.name)>.<csIdentifier.(tokenType.(t.name))>, 0); }"
ContextTokenListGetterDecl(t) ::= <<
    public <contextGetterCollection("ITerminalNode")> <csIdentifier.(tokenType.(t.name))>() { return
    GetTokens(<csIdentifier.(parser.name)>.<csIdentifier.(tokenType.(t.name))>); }
>>
ContextTokenListIndexedGetterDecl(t) ::= <<
    public ITerminalNode <csIdentifier.(tokenType.(t.name))>(int i) {
    return GetToken(<csIdentifier.(parser.name)>.<csIdentifier.(tokenType.(t.name))>, i);
    }
>>
ContextRuleGetterDecl(r) ::= <<
    public <r.ctxName> <csIdentifier.(r.name)>() {
    return GetRuleContext\<<r.ctxName>\>(0);
    }
>>
ContextRuleListGetterDecl(r) ::= <<
    public <contextGetterCollection({<r.ctxName>})> <csIdentifier.(r.name)>() {
    return GetRuleContexts\<<r.ctxName>\>(0);
    }
>>
ContextRuleListIndexedGetterDecl(r) ::= <<
    public <r.ctxName> <csIdentifier.(r.name)>(int i) {
    return GetRuleContext\<<r.ctxName>\>(i);
    }
>>

LexerRuleContext() ::= "RuleContext"

/** The rule context name is the rule followed by a suffix; e.g.,
 * r becomes rContext.
 */
RuleContextNameSuffix() ::= "Context"

ImplicitTokenLabel(tokenName) ::= "_<tokenType.(tokenName)>"
ImplicitRuleLabel(ruleName) ::= "_<ruleName>"
ImplicitSetLabel(id) ::= "_tset<id>"
ListLabelName(label) ::= "_<label>"

CaptureNextToken(d) ::= "<d.varName> = TokenStream.LT(1);"

```



```
CaptureNextTokenType(d) ::= "<d.varName> = TokenStream.LA(1);"
```

```
StructDecl(struct,ctorAttrs,attrs, getters,dispatchMethods,interfaces,extensionMembers,  
    superClass={ParserRuleContext}) ::= <<  
public partial class <struct.name> :  
<if(contextSuperClass)><contextSuperClass><else>ParserRuleContext<endif><if(interfaces)>, <interfaces>;  
separator=", "><endif> {  
    <attrs:{ a | public <a>; }; separator="\n">  
    <getters:{ g | <g>; }; separator="\n">  
    <if(ctorAttrs)>public <struct.name>(ParserRuleContext parent, int invokingState) : base(parent, invokingState) {  
    }<endif>  
    public <struct.name>(ParserRuleContext parent, int invokingState<ctorAttrs:{ a | , <a>>>)  
        : base(parent, invokingState)  
    {  
        <struct.ctorAttrs:{ a | this.<csIdentifier.(a.name)> = <csIdentifier.(a.name)>; }; separator="\n">  
    }  
    public override int RuleIndex { get { return RULE_<struct.derivedFromName>; } }  
<if(struct.provideCopyFrom)> <! don't need copy unless we have subclasses !>  
    public <struct.name>() { }  
    public virtual void CopyFrom(<struct.name> context) {  
        base.CopyFrom(context);  
        <struct.attrs:{ a | this.<csIdentifier.(a.name)> = context.<csIdentifier.(a.name)>; }; separator="\n">  
    }  
<endif>  
    <dispatchMethods; separator="\n">  
    <extensionMembers; separator="\n">  
    }  
>>
```

```
AltLabelStructDecl(struct,attrs, getters,dispatchMethods) ::= <<  
public partial class <struct.name> : <currentRule.name; format="cap">Context {  
    <attrs:{ a | public <a>; }; separator="\n">  
    <getters:{ g | <g>; }; separator="\n">  
    public <struct.name>(<currentRule.name; format="cap">Context context) { CopyFrom(context); }  
    <dispatchMethods; separator="\n">  
    }  
>>
```

```
ListenerDispatchMethod(method) ::= <<  
public override void <if(method.isEnter)>Enter<else>Exit<endif>Rule(IParseTreeListener listener) {  
    I<parser.grammarName>Listener typedListener = listener as I<parser.grammarName>Listener;  
    if (typedListener != null) typedListener.<if(method.isEnter)>Enter<else>Exit<endif><struct.derivedFromName>;  
    format="cap">(this);  
    }  
>>
```

```
VisitorDispatchMethod(method) ::= <<  
public override TResult Accept<TResult>(IParseTreeVisitor<TResult> visitor) {
```

```

I<parser.grammarName>Visitor\<TResult> typedVisitor = visitor as I<parser.grammarName>Visitor\<TResult>;
if (typedVisitor != null) return typedVisitor.Visit<struct.derivedFromName; format="cap">(this);
else return visitor.VisitChildren(this);
}
>>

```

```

AttributeDecl(d) ::= "<d.type> <csIdentifier.(d.name)><if(d.initValue)> = <d.initValue><endif>"

```

```

/** If we don't know location of label def x, use this template */

```

```

labelref(x) ::= "<if(!x.isLocal)><typedContext(x.ctx)>.<endif><csIdentifier.(x.name)>"

```

```

/** For any action chunk, what is correctly-typed context struct ptr? */

```

```

ctx(actionChunk) ::= "<typedContext(actionChunk.ctx)>"

```

```

// only casts _localctx to the type when the cast isn't redundant (i.e. to a sub-context for a labeled alt)

```

```

typedContext(ctx) ::= "<if(ctx.provideCopyFrom)>((<ctx.name>)_localctx)<else>_localctx<endif>"

```

```

// used for left-recursive rules

```

```

recRuleAltPredicate(ruleName,opPrec) ::= "Precpred(Context, <opPrec>)"

```

```

recRuleSetReturnAction(src,name) ::= "$<name>=$<src>.<name>;"

```

```

recRuleSetStopToken() ::= "Context.Stop = TokenStream.LT(-1);"

```

```

recRuleAltStartAction(ruleName, ctxName, label, isListLabel) ::= <<

```

```

_localctx = new <ctxName>Context(_parentctx, _parentState);

```

```

<if(label)>

```

```

<if(isListLabel)>

```

```

_localctx.<label>.Add(_prevctx);

```

```

<else>

```

```

_localctx.<label> = _prevctx;

```

```

<endif>

```

```

<endif>

```

```

PushNewRecursionContext(_localctx, _startState, RULE_<ruleName>);

```

```

>>

```

```

recRuleLabeledAltStartAction(ruleName, currentAltLabel, label, isListLabel) ::= <<

```

```

_localctx = new <currentAltLabel; format="cap">Context(new <ruleName; format="cap">Context(_parentctx,
_parentState));

```

```

<if(label)>

```

```

<if(isListLabel)>

```

```

((<currentAltLabel; format="cap">Context)_localctx).<label>.Add(_prevctx);

```

```

<else>

```

```

((<currentAltLabel; format="cap">Context)_localctx).<label> = _prevctx;

```

```

<endif>

```

```

<endif>

```

```

PushNewRecursionContext(_localctx, _startState, RULE_<ruleName>);

```

```

>>

```

```

recRuleReplaceContext(ctxName) ::= <<

```

```

_localctx = new <ctxName>Context(_localctx);
Context = _localctx;
_prevctx = _localctx;
>>

```

```

recRuleSetPrevCtx() ::= <<
if ( ParseListeners!=null )
    TriggerExitRuleEvent();
_prevctx = _localctx;
>>

```

```

LexerFile(file, lexer, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage> {
<endif>
<namedActions.header>
using System;
using System.Text;
using Antlr4.Runtime;
using Antlr4.Runtime.Atn;
using Antlr4.Runtime.Misc;
using DFA = Antlr4.Runtime.Dfa.DFA;

<lexer>
<if(file.genPackage)>
} // namespace <file.genPackage>
<endif>
>>

```

```

Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<file.ANTLRVersion>")]
[System.CLSCompliant(false)]
public partial class <csIdentifier.(lexer.name)> : <superClass; null="Lexer"> {
    protected static DFA[] decisionToDFA;
    protected static PredictionContextCache sharedContextCache = new PredictionContextCache();
    public const int
        <lexer.tokens:{k | <tokenType.(k)>=<lexer.tokens.(k)>}; separator=", ", wrap, anchor>;
    <if(lexer.channels)>
    public const int
        <lexer.channels:{k | <csIdentifier.(k)>=<lexer.channels.(k)>}; separator=", ", wrap, anchor>;
    <endif>
    <rest(lexer.modes):{m | public const int <modeName.(m)> = <i>;}; separator="\n">
    public static string[] modeNames = {
        <lexer.modes:{m | "<m>"}; separator=", ", wrap, anchor>
    };
}

```

```

public static readonly string[] ruleNames = {
    <lexer.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor>
};

<namedActions.members>

public <csIdentifier.(lexer.name)>(ICharStream input)
: base(input)
{
    Interpreter = new LexerATNSimulator(this, _ATN, decisionToDFA, sharedContextCache);
}

<vocabulary(lexer.literalNames, lexer.symbolicNames)>

public override string GrammarFileName { get { return "<lexer.grammarFileName>"; } }

public override string[] RuleNames { get { return ruleNames; } }

public override string[] ModeNames { get { return modeNames; } }

public override string SerializedAtn { get { return _serializedATN; } }

static <csIdentifier.(lexer.name)>() {
    decisionToDFA = new DFA[_ATN.NumberOfDecisions];
    for (int i = 0; i < _ATN.NumberOfDecisions; i++) {
        decisionToDFA[i] = new DFA(_ATN.GetDecisionState(i), i);
    }
}
<dumpActions(lexer, "", actionFuncs, sempredFuncs)>
<atn>
}
>>

SerializedATN(model) ::= <<
private static string _serializedATN = _serializeATN();
private static string _serializeATN()
{
    StringBuilder sb = new StringBuilder();
    sb.Append("<model.serialized; wrap={}>");<\n><t>sb.Append(">");
    return sb.ToString();
}

public static readonly ATN _ATN =
    new ATNDeserializer().Deserialize(_serializedATN.ToCharArray());

>>

```

```
initValue(typeName) ::= <<
default(<typeName>)
>>
```

```
codeFileExtension() ::= ".cs"
```

```
modeName ::= [
  "DEFAULT_MODE" : "DefaultMode",
  default : key
]
```

```
channelName ::= [
  "HIDDEN" : "Hidden",
  "DEFAULT_TOKEN_CHANNEL" : "DefaultTokenChannel",
  default : key
]
```

```
tokenType ::= [
  "EOF" : "Eof",
  default : key
]
```

```
csIdentifier ::= [
  "abstract" : "@abstract",
  "as" : "@as",
  "base" : "@base",
  "bool" : "@bool",
  "break" : "@break",
  "byte" : "@byte",
  "case" : "@case",
  "catch" : "@catch",
  "char" : "@char",
  "checked" : "@checked",
  "class" : "@class",
  "const" : "@const",
  "continue" : "@continue",
  "decimal" : "@decimal",
  "default" : "@default",
  "delegate" : "@delegate",
  "do" : "@do",
  "double" : "@double",
  "else" : "@else",
  "enum" : "@enum",
  "event" : "@event",
  "explicit" : "@explicit",
  "extern" : "@extern",
  "false" : "@false",
```

"finally" : "@finally",
"fixed" : "@fixed",
"float" : "@float",
"for" : "@for",
"foreach" : "@foreach",
"goto" : "@goto",
"if" : "@if",
"implicit" : "@implicit",
"in" : "@in",
"int" : "@int",
"interface" : "@interface",
"internal" : "@internal",
"is" : "@is",
"lock" : "@lock",
"long" : "@long",
"namespace" : "@namespace",
"new" : "@new",
"null" : "@null",
"object" : "@object",
"operator" : "@operator",
"out" : "@out",
"override" : "@override",
"params" : "@params",
"private" : "@private",
"protected" : "@protected",
"public" : "@public",
"readonly" : "@readonly",
"ref" : "@ref",
"return" : "@return",
"sbyte" : "@sbyte",
"sealed" : "@sealed",
"short" : "@short",
"sizeof" : "@sizeof",
"stackalloc" : "@stackalloc",
"static" : "@static",
"string" : "@string",
"struct" : "@struct",
"switch" : "@switch",
"this" : "@this",
"throw" : "@throw",
"true" : "@true",
"try" : "@try",
"typeof" : "@typeof",
"uint" : "@uint",
"ulong" : "@ulong",
"unchecked" : "@unchecked",
"unsafe" : "@unsafe",
"ushort" : "@ushort",

```
"using" : "@using",
"virtual" : "@virtual",
"void" : "@void",
"volatile" : "@volatile",
"while" : "@while",
default : key
]
```

Found in path(s):

```
* /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-
jar/org/antlr/v4/tool/templates/codegen/CSharp/CSharp.stg
```

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

```
/*
```

```
* [The "BSD license"]
```

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```

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* Copyright (c) 2012-2016 Sam Harwell
```

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*
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```

```
*/
```

```
lexer grammar ActionSplitter;
```

```
options { filter=true; }
```

```
@header {
```

```

package org.antlr.v4.parse;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
}

@members {
ActionSplitterListener delegate;

public ActionSplitter(CharStream input, ActionSplitterListener delegate) {
    this(input, new RecognizerSharedState());
    this.delegate = delegate;
}

/** force filtering (and return tokens). triggers all above actions. */
public List<Token> getActionTokens() {
    List<Token> chunks = new ArrayList<Token>();
    Token t = nextToken();
    while ( t.getType()!=Token.EOF ) {
        chunks.add(t);
        t = nextToken();
    }
    return chunks;
}

private boolean isIDStartChar(int c) {
    return c == '_' || Character.isLetter(c);
}
}

// ignore comments right away

COMMENT
: /*' ( options { greedy=false; } : . )* */' { delegate.text($text); }
;

LINE_COMMENT
: //' ~(\n|\r)* \r? \n' { delegate.text($text); }
;

SET_NONLOCAL_ATTR
: '$ x=ID ':' y=ID WS? '=' expr=ATTR_VALUE_EXPR ';'
{
    delegate.setNonLocalAttr($text, $x, $y, $expr);
}
;

NONLOCAL_ATTR
: '$ x=ID ':' y=ID { delegate.nonLocalAttr($text, $x, $y); }

```



```

;

QUALIFIED_ATTR
: '$ x=ID ' y=ID {input.LA(1)!='('}? {delegate.qualifiedAttr($text, $x, $y);}
;

```

```

SET_ATTR
: '$ x=ID WS? '=' expr=ATTR_VALUE_EXPR '
{
  delegate.setAttr($text, $x, $expr);
}
;

```

```

ATTR
: '$ x=ID {delegate.attr($text, $x);}
;

```

```

// Anything else is just random text
TEXT
@init {StringBuilder buf = new StringBuilder();}
@after {delegate.text(buf.toString());}
: ( c=~(\\| '$) {buf.append((char)$c);}
| '\\$' {buf.append('$);}
| '\\ c=~('$) {buf.append('\\').append((char)$c);}
| {!isIDStartChar(input.LA(2))}? => '$' {buf.append('$);}
)+
;

```

```

fragment
ID : ('a'..'z'|'A'..'Z'|'_') ('a'..'z'|'A'..'Z'|'0'..'9'|'_')*
;

```

```

/** Don't allow an = as first char to prevent $x == 3; kind of stuff. */

```

```

fragment
ATTR_VALUE_EXPR
: ~'=' (~';)*
;

```

```

fragment
WS : ('\\t'|'\\n'|'r')+
;

```

```

Found in path(s):
* /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-jar/org/antlr/v4/parse/ActionSplitter.g
No license file was found, but licenses were detected in source scan.

```

```

/*
* [The "BSD license"]

```

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* THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
* (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
* THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/
```

```
/** ANTLR tool checks output templates are compatible with tool code generation.
```

```
* For now, a simple string match used on x.y of x.y.z scheme.
* Must match Tool.VERSION during load to templates.
*
* REQUIRED.
*/
```

```
pythonTypeInitMap ::= [
  "bool":"False",
  "int":"0",
  "float":"0.0",
  "str": "",
  default:"None" // anything other than a primitive type is an object
]
```

```
// args must be <object-model-object>, <fields-resulting-in-STs>
```

```
ParserFile(file, parser, namedActions, contextSuperClass) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
```

```

# encoding: utf-8
from __future__ import print_function
from antlr4 import *
from io import StringIO

<namedActions.header>
<parser>

>>

ListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
from antlr4 import *
<header>

# This class defines a complete listener for a parse tree produced by <file.parserName>.
class <file.grammarName>Listener(ParseTreeListener):

    <file.listenerNames:{lname |
# Enter a parse tree produced by <file.parserName>#<lname>.
def enter<lname; format="cap">(self, ctx):
    pass

# Exit a parse tree produced by <file.parserName>#<lname>.
def exit<lname; format="cap">(self, ctx):
    pass

}; separator="\n">

>>

VisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
from antlr4 import *
<header>

# This class defines a complete generic visitor for a parse tree produced by <file.parserName>.

class <file.grammarName>Visitor(ParseTreeVisitor):

    <file.visitorNames:{lname |
# Visit a parse tree produced by <file.parserName>#<lname>.
def visit<lname; format="cap">(self, ctx):
    return self.visitChildren(ctx)

}; separator="\n">

```

>>

```
fileHeader(grammarFileName, ANTLRVersion) ::= <<  
# Generated from <grammarFileName> by ANTLR <ANTLRVersion>  
>>
```

```
Parser(parser, funcs, atn, sempredFuncs, superClass) ::= <<  
<Parser_(ctor="parser_ctor", ...)>  
>>
```

```
Parser_(parser, funcs, atn, sempredFuncs, ctor, superClass) ::= <<  
<if(superClass)>  
from .<superClass> import <superClass>
```

```
<endif>  
<atn>
```

```
class <parser.name> ( <if(superClass)><superClass><else>Parser<endif> ):
```

```
    grammarFileName = "<parser.grammarFileName>"
```

```
    atn = ATNDeserializer().deserialize(serializedATN())
```

```
    decisionsToDFA = [ DFA(ds, i) for i, ds in enumerate(atn.decisionToState) ]
```

```
    sharedContextCache = PredictionContextCache()
```

```
    literalNames = [ <parser.literalNames:{t | u<t>} ; null="u\"<INVALID>\" , separator=", " , wrap, anchor ]
```

```
    symbolicNames = [ <parser.symbolicNames:{t | u<t>} ; null="u\"<INVALID>\" , separator=", " , wrap, anchor ]
```

```
    <parser.rules:{r | RULE_<r.name> = <r.index>} ; separator="\n" , wrap, anchor>
```

```
    ruleNames = [ <parser.ruleNames:{r | u"<r>"} ; separator=", " , wrap, anchor ]
```

```
    EOF = <TokenLabelType().EOF
```

```
    <if(parser.tokens)>
```

```
    <parser.tokens:{k | <k>=<parser.tokens.(k)>} ; separator="\n" , wrap, anchor>
```

```
    <endif>
```

```
    <parser:(ctor)()>
```

```
    <namedActions.members>
```

```
    <funcs; separator="\n">
```

```

<if(sempredFuncs)>
  def sempred(self, localctx, ruleIndex, predIndex):
    if self._predicates == None:
      self._predicates = dict()
<parser.sempredFuncs.values:{ f |
  self._predicates[<f.ruleIndex>] = self.<f.name>_sempred}; separator="\n    ">
  pred = self._predicates.get(ruleIndex, None)
  if pred is None:
    raise Exception("No predicate with index:" + str(ruleIndex))
  else:
    return pred(localctx, predIndex)

  <sempredFuncs.values; separator="\n">
<endif>

```

```
>>
```

```

dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>
def action(self, localctx, ruleIndex, actionIndex):
  if self._actions is None:
    actions = dict()
<recog.actionFuncs.values:{ f |
  actions[<f.ruleIndex>] = self.<f.name>_action }; separator="\n">
  self._actions = actions
  action = self._actions.get(ruleIndex, None)
  if action is not None:
    action(localctx, actionIndex)
  else:
    raise Exception("No registered action for:" + str(ruleIndex))

  <actionFuncs.values; separator="\n">

<endif>

```

```

<if(sempredFuncs)>
def sempred(self, localctx, ruleIndex, predIndex):
  if self._predicates is None:
    preds = dict()
<recog.sempredFuncs.values:{ f |
  preds[<f.ruleIndex>] = self.<f.name>_sempred}; separator="\n">
  self._predicates = preds
  pred = self._predicates.get(ruleIndex, None)
  if pred is not None:
    return pred(localctx, predIndex)
  else:
    raise Exception("No registered predicate for:" + str(ruleIndex))

```

```

<sempredFuncs.values; separator="\n">
<endif>
>>

parser_ctor(p) ::= <<
def __init__(self, input):
    super(<parser.name>, self).__init__(input)
    self.checkVersion("<file.ANTLRVersion>")
    self._interp = ParserATNSimulator(self, self.atn, self.decisionsToDFA, self.sharedContextCache)
    self._predicates = None

>>

/* This generates a private method since the actionIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleActionFunction(r, actions) ::= <<

def <r.name>_action(self, localctx , actionIndex):
<actions: {index|
<if(first(actions))>
    if actionIndex == <index>:
        <actions.(index)>
<elseif(rest(actions))>
    elif actionIndex == <index>:
        <actions.(index)>
<endif> }; separator="\n">
>>

/* This generates a private method since the predIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleSempredFunction(r, actions) ::= <<
def <r.name>_sempred(self, localctx, predIndex):
    <actions: {index|
<if(first(actions))>
    if predIndex == <index>:
        return <actions.(index)>
<elseif(rest(actions))>
    elif predIndex == <index>:
        return <actions.(index)>
<endif> }; separator="\n">
>>

RuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,postamble,exceptions)
::= <<

```

```

<ruleCtx>

<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">

def <currentRule.name>(self<currentRule.args:{a | , <a.name>}>):

    localctx = <parser.name>.<currentRule.ctxType>(self, self._ctx, self.state<currentRule.args:{a | , <a.name>}>)
    self.enterRule(localctx, <currentRule.startState>, self.RULE_<currentRule.name>)
    <namedActions.init>
    <locals; separator="\n">
    try:
        <code>
        <postamble; separator="\n">
        <namedActions.after>
    <if(exceptions)>
    <exceptions; separator="\n">
    <else>
    except RecognitionException as re:
        localctx.exception = re
        self._errHandler.reportError(self, re)
        self._errHandler.recover(self, re)
    <endif>
    finally:
        <finallyAction>
        self.exitRule()
    return localctx

>>

```

```

LeftRecursiveRuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,
    namedActions,finallyAction,postamble) ::=
<<

```

```

<ruleCtx>
<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">

def <currentRule.name>(self, _p=0<if(currentRule.args)>, <args:{a | , <a>}><endif>):
    _parentctx = self._ctx
    _parentState = self.state
    localctx = <parser.name>.<currentRule.ctxType>(self, self._ctx, _parentState<args:{a | , <a.name>}>)
    _prevctx = localctx
    _startState = <currentRule.startState>
    self.enterRecursionRule(localctx, <currentRule.startState>, self.RULE_<currentRule.name>, _p)
    <namedActions.init>
    <locals; separator="\n">
    try:
        <code>

```

```

    <postamble; separator="\n">
    <namedActions.after>
except RecognitionException as re:
    localctx.exception = re
    self._errHandler.reportError(self, re)
    self._errHandler.recover(self, re)
finally:
    <finallyAction>
    self.unrollRecursionContexts(_parentctx)
return localctx

>>

```

```

CodeBlockForOuterMostAlt(currentOuterMostAltCodeBlock, locals, preamble, ops) ::= <<
<if(currentOuterMostAltCodeBlock.altLabel)>localctx = <parser.name>.<currentOuterMostAltCodeBlock.altLabel;
format="cap">Context(self, localctx)<endif>
self.enterOuterAlt(localctx, <currentOuterMostAltCodeBlock.alt.altNum>)
<CodeBlockForAlt(currentAltCodeBlock=currentOuterMostAltCodeBlock, ...)>
>>

```

```

CodeBlockForAlt(currentAltCodeBlock, locals, preamble, ops) ::= <<
<locals; separator="\n">
<preamble; separator="\n">
<ops; separator="\n">
>>

```

```

LL1AltBlock(choice, preamble, alts, error) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
<if(choice.label)><labelref(choice.label)> = _input.LT(1)<endif>
<preamble; separator="\n">
token = self._input.LA(1)
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
    <alt>
    pass}; separator="\n1">
else:
    <error>

>>

```

```

LL1OptionalBlock(choice, alts, error) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
token = self._input.LA(1)
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
    <alt>
    pass}; separator="\n1">
else:

```



```

    <error>
  >>

LL1OptionalBlockSingleAlt(choice, expr, alts, preamble, error, followExpr) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
<preamble; separator="\n">
if <expr>:
    <alts; separator="\n">

<!else if ( !(<followExpr> ) <error>!>
  >>

```

```

LL1StarBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
<preamble; separator="\n">
while <loopExpr>:
    <alts; separator="\n">
    self.state = <choice.loopBackStateNumber>
    self._errHandler.sync(self)
    <iteration>

  >>

```

```

LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
self.state = <choice.blockStartStateNumber> <! alt block decision !>
self._errHandler.sync(self)
<preamble; separator="\n">
while True:
    <alts; separator="\n">
    self.state = <choice.stateNumber> <! loopback/exit decision !>
    self._errHandler.sync(self)
    <iteration>
    if not (<loopExpr>):
        break

  >>

```

```
// LL(*) stuff
```

```

AltBlock(choice, preamble, alts, error) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
<if(choice.label)><labelref(choice.label)> = _input.LT(1)<endif>
<preamble; separator="\n">
la_ = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)

```

```

<alts:{ alt |
if la_ == <i>:
  <alt>
  pass
}; separator="\nel">

```

```
>>
```

```

OptionalBlock(choice, alts, error) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
la_ = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)
<alts:{ alt |
if la_ == <i><if(!choice.ast.greedy)>+1<endif>:
  <alt>
}; separator="\nel">

```

```
>>
```

```

StarBlock(choice, alts, sync, iteration) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
_alt = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)
while _alt!=<choice.exitAlt> and _alt!=ATN.INVALID_ALT_NUMBER:
  if _alt==1<if(!choice.ast.greedy)>+1<endif>:
    <iteration>
    <alts> <! should only be one !>
  self.state = <choice.loopBackStateNumber>
  self._errHandler.sync(self)
  _alt = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)

```

```
>>
```

```

PlusBlock(choice, alts, error) ::= <<
self.state = <choice.blockStartStateNumber> <! alt block decision !>
self._errHandler.sync(self)
_alt = 1<if(!choice.ast.greedy)>+1<endif>
while _alt!=<choice.exitAlt> and _alt!=ATN.INVALID_ALT_NUMBER:
  <alts:{ alt |
if _alt == <i><if(!choice.ast.greedy)>+1<endif>:
  <alt>
}; separator="\nel">
  else:
    <error>
  self.state = <choice.loopBackStateNumber> <! loopback/exit decision !>
  self._errHandler.sync(self)
  _alt = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)

```

>>

Sync(s) ::= "sync(<s.expecting.name>)"

ThrowNoViableAlt(t) ::= "raise NoViableAltException(self)"

TestSetInline(s) ::= <<

<s.bitsets:{ bits | <if(rest(rest(bits.ttypes)))><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s, bits)><endif>} ; separator=" or ">

>>

// Java language spec 15.19 - shift operators mask operands rather than overflow to 0... need range test

testShiftInRange(shiftAmount) ::= <<

((<shiftAmount>) & ~0x3f) == 0

>>

// produces smaller bytecode only when bits.ttypes contains more than two items

bitsetBitfieldComparison(s, bits) ::= <%

(<testShiftInRange({ <offsetShiftVar(s.varName, bits.shift)> })> and ((1 <|< <offsetShiftVar(s.varName, bits.shift)>) & (<bits.ttypes:{ ttype | (1 <|< <offsetShiftType(ttype, bits.shift)>)} ; separator=" | ">) != 0)

isZero ::= [

"0":true,

default:false

]

offsetShiftVar(shiftAmount, offset) ::= <%

<if(!isZero.(offset))><shiftAmount> - <offset><else><shiftAmount><endif>

%>

offsetShiftType(shiftAmount, offset) ::= <%

<if(!isZero.(offset))><parser.name>.<shiftAmount> - <offset><else><parser.name>.<shiftAmount><endif>

%>

// produces more efficient bytecode when bits.ttypes contains at most two items

bitsetInlineComparison(s, bits) ::= <%

<bits.ttypes:{ ttype | <s.varName>==<parser.name>.<ttype>} ; separator=" or ">

%>

cases(ttypes) ::= <<

if token in [<ttypes:{ t | <parser.name>.<t>} ; separator=", ">]:

>>

InvokeRule(r, argExprsChunks) ::= <<

self.state = <r.stateNumber>

<if(r.labels)><r.labels:{ l | <labelref(l)> =

```

nks>)
>>

MatchToken(m) ::= <<
self.state = <m.stateNumber>
<if(m.labels)><m.labels:{1 | <labelref(l)> = }><endif>self.match(<parser.name>.<m.name>)
>>

MatchSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, false)>"

MatchNotSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, true)>"

CommonSetStuff(m, expr, capture, invert) ::= <<
self.state = <m.stateNumber>
<if(m.labels)><m.labels:{1 | <labelref(l)> = }>self._input.LT(1)<endif>
<capture>
<if(invert)>if <m.varName> \<= 0 or <expr><else>if not(<expr>)<endif>:
<if(m.labels)><m.labels:{1 | <labelref(l)> = }><else> <endif>self._errHandler.recoverInline(self)
else:
    self._errHandler.reportMatch(self)
    self.consume()
>>

Wildcard(w) ::= <<
self.state = <w.stateNumber>
<if(w.labels)><w.labels:{1 | <labelref(l)> = }><endif>self.matchWildcard()
>>

// ACTION STUFF

Action(a, foo, chunks) ::= "<chunks>"

ArgAction(a, chunks) ::= "<chunks>"

SemPred(p, chunks, failChunks) ::= <<
self.state = <p.stateNumber>
if not <chunks>:
    from antlr4.error.Errors import FailedPredicateException
    raise FailedPredicateException(self, <p.predicate><if(failChunks)>, <failChunks><elseif(p.msg)>,
<p.msg><endif>)
>>

ExceptionClause(e, catchArg, catchAction) ::= <<
catch (<catchArg>) {
    <catchAction>
}
>>

```

```
// lexer actions are not associated with model objects
```

```
LexerSkipCommand() ::= "skip()"
```

```
LexerMoreCommand() ::= "more()"
```

```
LexerPopModeCommand() ::= "popMode()"
```

```
LexerTypeCommand(arg, grammar) ::= "_type = <arg>"
```

```
LexerChannelCommand(arg, grammar) ::= "_channel = <arg>"
```

```
LexerModeCommand(arg, grammar) ::= "_mode = <arg>"
```

```
LexerPushModeCommand(arg, grammar) ::= "pushMode(<arg>)"
```

```
ActionText(t) ::= "<t.text>"
```

```
ActionTemplate(t) ::= "<t.st>"
```

```
ArgRef(a) ::= "localctx.<a.name>"
```

```
LocalRef(a) ::= "localctx.<a.name>"
```

```
RetValRef(a) ::= "localctx.<a.name>"
```

```
QRetValRef(a) ::= "<ctx(a)>.<a.dict>.<a.name>"
```

```
/** How to translate $tokenLabel */
```

```
TokenRef(t) ::= "<ctx(t)>.<t.name>"
```

```
LabelRef(t) ::= "<ctx(t)>.<t.name>"
```

```
ListLabelRef(t) ::= "<ctx(t)>.<ListLabelName(t.name)>"
```

```
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<s.name> = <rhsChunks>"
```

```
TokenLabelType() ::= "<file.TokenLabelType; null={Token}>"
```

```
InputSymbolType() ::= "<file.InputSymbolType; null={Token}>"
```

```
TokenPropertyRef_text(t) ::= "(None if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.text)"
```

```
TokenPropertyRef_type(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.type)"
```

```
TokenPropertyRef_line(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.line)"
```

```
TokenPropertyRef_pos(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.column)"
```

```
TokenPropertyRef_channel(t) ::= "(0 if (<ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.channel)"
```

```
TokenPropertyRef_index(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.tokenIndex)"
```

```
TokenPropertyRef_int(t) ::= "(0 if <ctx(t)>.<t.label> is None else int(<ctx(t)>.<t.label>.text))"
```

```
RulePropertyRef_start(r) ::= "(None if <ctx(r)>.<r.label> is None else <ctx(r)>.<r.label>.start)"
```

```
RulePropertyRef_stop(r) ::= "(None if <ctx(r)>.<r.label> is None else <ctx(r)>.<r.label>.stop)"
```

```
RulePropertyRef_text(r) ::= "(None if <ctx(r)>.<r.label> is None else  
self._input.getText((<ctx(r)>.<r.label>.start,<ctx(r)>.<r.label>.stop)))"
```

```
RulePropertyRef_ctx(r) ::= "<ctx(r)>.<r.label>"
```

```
RulePropertyRef_parser(r) ::= "self"
```

```
ThisRulePropertyRef_start(r) ::= "localctx.start"
```

```
ThisRulePropertyRef_stop(r) ::= "localctx.stop"
```

```
ThisRulePropertyRef_text(r) ::= "self._input.getText((localctx.start, self._input.LT(-1)))"
```

```
ThisRulePropertyRef_ctx(r) ::= "localctx"
```

```
ThisRulePropertyRef_parser(r) ::= "self"
```

```
NonLocalAttrRef(s) ::= "getInvokingContext(<s.ruleIndex>).<s.name>"
```

```
SetNonLocalAttr(s, rhsChunks) ::= "getInvokingContext(<s.ruleIndex>).<s.name> = <rhsChunks>"
```

```
AddToLabelList(a) ::= "<ctx(a.label)>.<a.listName>.append(<labelref(a.label)>)"
```

```
TokenDecl(t) ::= "self.<t.name> = None # <TokenLabelType()>"
```

```
TokenTypeDecl(t) ::= "self.<t.name> = 0 # <TokenLabelType()> type"
```

```
TokenListDecl(t) ::= "self.<t.name> = list() # of <TokenLabelType()>s"
```

```
RuleContextDecl(r) ::= "self.<r.name> = None # <r.ctxName>"
```

```
RuleContextListDecl(rdecl) ::= "self.<rdecl.name> = list() # of <rdecl.ctxName>s"
```

```
ContextTokenGetterDecl(t) ::= <<
```

```
def <t.name>(self):
```

```
    return self.getToken(<parser.name>.<t.name>, 0)
```

```
>>
```

```
// should never be called
```

```
ContextTokenListGetterDecl(t) ::= <<
```

```
def <t.name>_list(self):
```

```
    return self.getTokens(<parser.name>.<t.name>)
```

```
>>
```

```
ContextTokenListIndexedGetterDecl(t) ::= <<
```

```
def <t.name>(self, i=None):
```

```
    if i is None:
```

```
        return self.getTokens(<parser.name>.<t.name>)
```

```
    else:
```

```
        return self.getToken(<parser.name>.<t.name>, i)
```

```
>>
```

```
ContextRuleGetterDecl(r) ::= <<
```

```
def <r.name>(self):
```

```
    return self.getTypedRuleContext(<parser.name>.<r.ctxName>,0)
```

```
>>
```

```
// should never be called
```

```
ContextRuleListGetterDecl(r) ::= <<
```

```
def <r.name>_list(self):
```

```
    return self.getTypedRuleContexts(<parser.name>.<r.ctxName>)
```

```
>>
```

```
ContextRuleListIndexedGetterDecl(r) ::= <<
```

```
def <r.name>(self, i=None):
```

```
    if i is None:
```

```
        return self.getTypedRuleContexts(<parser.name>.<r.ctxName>)
```

```
    else:
```

```
        return self.getTypedRuleContext(<parser.name>.<r.ctxName>,i)
```

```
>>
```

```
LexerRuleContext() ::= "RuleContext"
```

```
/** The rule context name is the rule followed by a suffix; e.g.,  
 * r becomes rContext.  
 */
```

```
RuleContextNameSuffix() ::= "Context"
```

```
ImplicitTokenLabel(tokenName) ::= "_<tokenName>"
```

```
ImplicitRuleLabel(ruleName) ::= "_<ruleName>"
```

```
ImplicitSetLabel(id) ::= "_tset<id>"
```

```
ListLabelName(label) ::= "<label>"
```

```
CaptureNextToken(d) ::= "<d.varName> = self._input.LT(1)"
```

```
CaptureNextTokenType(d) ::= "<d.varName> = self._input.LA(1)"
```

```
StructDecl(struct,ctorAttrs,attrs, getters,dispatchMethods,interfaces,extensionMembers) ::= <<  
class <struct.name>(<if(contextSuperClass)><contextSuperClass><else>ParserRuleContext<endif>):
```

```
  def __init__(self, parser, parent=None, invokingState=-1<struct.ctorAttrs:{a | , <a.name>=None}>):
```

```
    super(<parser.name>.<struct.name>, self).__init__(parent, invokingState)
```

```
    self.parser = parser
```

```
    <attrs:{a | <a>}; separator="\n">
```

```
    <struct.ctorAttrs:{a | self.<a.name> = <a.name>}; separator="\n">
```

```
    <getters:{g | <g>}; separator="\n\n">
```

```
  def getRuleIndex(self):
```

```
    return <parser.name>.RULE_<struct.derivedFromName>
```

```
<if(struct.provideCopyFrom)> <! don't need copy unless we have subclasses !>
```

```
  def copyFrom(self, ctx):
```

```
    super(<parser.name>.<struct.name>, self).copyFrom(ctx)
```

```
    <struct.attrs:{a | self.<a.name> = ctx.<a.name>}; separator="\n">
```

```
<endif>
```

```
  <dispatchMethods; separator="\n">
```

```
  <extensionMembers; separator="\n">
```

```
>>
```

```
AltLabelStructDecl(struct,attrs, getters,dispatchMethods) ::= <<
```

```
class <struct.name>(<currentRule.name; format="cap">Context):
```

```
  def __init__(self, parser, ctx): # actually a <parser.name>.<currentRule.name; format="cap">Context)
```

```
    super(<parser.name>.<struct.name>, self).__init__(parser)
```

```

    <attrs:{ a | <a>}; separator="\n">
    self.copyFrom(ctx)

    <getters:{ g | <g>}; separator="\n">

    <dispatchMethods; separator="\n">

>>

ListenerDispatchMethod(method) ::= <<
def <if(method.isEnter)>enter<else>exit<endif>Rule(self, listener):
    if hasattr(listener, "<if(method.isEnter)>enter<else>exit<endif><<struct.derivedFromName; format="cap">"):
        listener.<if(method.isEnter)>enter<else>exit<endif><<struct.derivedFromName; format="cap">(self)

>>

VisitorDispatchMethod(method) ::= <<
def accept(self, visitor):
    if hasattr(visitor, "visit<struct.derivedFromName; format="cap">"):
        return visitor.visit<struct.derivedFromName; format="cap">(self)
    else:
        return visitor.visitChildren(self)

>>

AttributeDecl(d) ::= "self.<d.name> = <if(d.initValue)><d.initValue><else>None<endif>"

/** If we don't know location of label def x, use this template */
labelref(x) ::= "<if(!x.isLocal)>localctx.<endif><x.name>"

/** For any action chunk, what is correctly-typed context struct ptr? */
ctx(actionChunk) ::= "localctx"

// used for left-recursive rules
recRuleAltPredicate(ruleName,opPrec) ::= "self.precpred(self._ctx, <opPrec>)"
recRuleSetReturnAction(src,name) ::= "$<name>=<src>.<name>"
recRuleSetStopToken() ::= "self._ctx.stop = self._input.LT(-1)"

recRuleAltStartAction(ruleName, ctxName, label) ::= <<
localctx = <parser.name>.<ctxName>Context(self, _parentctx, _parentState)
<if(label)>localctx.<label> = _prevctx<endif>
self.pushNewRecursionContext(localctx, _startState, self.RULE_<ruleName>)

>>

recRuleLabeledAltStartAction(ruleName, currentAltLabel, label, isListLabel) ::= <<
localctx = <parser.name>.<currentAltLabel; format="cap">Context(self, <parser.name>.<ruleName;
format="cap">Context(self, _parentctx, _parentState))
<if(label)>

```



```

<if(isListLabel)>
localctx.<label>.append(_prevctx)
<else>
localctx.<label> = _prevctx
<endif>
<endif>
self.pushNewRecursionContext(localctx, _startState, self.RULE_<ruleName>)
>>

```

```

recRuleReplaceContext(ctxName) ::= <<
localctx = <parser.name>.<ctxName>Context(self, localctx)
self._ctx = localctx
_prevctx = localctx
>>

```

```

recRuleSetPrevCtx() ::= <<
if self._parseListeners is not None:
    self.triggerExitRuleEvent()
_prevctx = localctx
>>

```

```

LexerFile(lexerFile, lexer, namedActions) ::= <<
<fileHeader(lexerFile.grammarFileName, lexerFile.ANTLRVersion)>
# encoding: utf-8
from __future__ import print_function
from antlr4 import *
from io import StringIO

```

```

<namedActions.header>

```

```

<lexer>
>>

```

```

Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<

```

```

<atn>

```

```

class <lexer.name>(<if(superClass)><superClass><else>Lexer<endif>):

```

```

    atn = ATNDeserializer().deserialize(serializedATN())

```

```

    decisionsToDFA = [ DFA(ds, i) for i, ds in enumerate(atn.decisionToState) ]

```

```

    <rest(lexer.modes): {m | <m> = <i>} ; separator="\n">

```

```

    <lexer.tokens: {k | <k> = <lexer.tokens.(k)>} ; separator="\n", wrap, anchor>

```

```

modeNames = [ <lexer.modes:{m| u"<m>"}; separator=", ", wrap, anchor> ]

literalNames = [ u"\<INVALID>",
  <lexer.literalNames:{t| u<t>}; separator=", ", wrap, anchor> ]

symbolicNames = [ u"\<INVALID>",
  <lexer.symbolicNames:{t| u<t>}; separator=", ", wrap, anchor> ]

ruleNames = [ <lexer.ruleNames:{r| u"<r>"}; separator=", ", wrap, anchor> ]

grammarFileName = u"<lexer.grammarFileName>"

def __init__(self, input=None):
  super(<lexer.name>, self).__init__(input)
  self.checkVersion("<lexerFile.ANTLRVersion>")
  self._interp = LexerATNSimulator(self, self.atn, self.decisionsToDFA, PredictionContextCache())
  self._actions = None
  self._predicates = None

<namedActions.members>

<dumpActions(lexer, "", actionFuncs, sempredFuncs)>

>>

SerializedATN(model) ::= <<
<! only one segment, can be inlined !>

def serializedATN():
  with StringIO() as buf:
    buf.write(u"<model.serialized; wrap={ }<\n>    buf.write(u" }>")
    return buf.getvalue()

>>

/** Using a type to init value map, try to init a type; if not in table
 * must be an object, default value is "null".
 */
initValue(typeName) ::= <<
<javaTypeInitMap.(typeName)>
>>

codeFileExtension() ::= ".py"

Found in path(s):
* /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-
jar/org/antlr/v4/tool/templates/codegen/Python2/Python2.stg

```

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

```
/*
 * [The "BSD license"]
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 * Copyright (c) 2012-2016 Sam Harwell
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 *
 * Redistribution and use in source and binary forms, with or without
 * modification, are permitted provided that the following conditions
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 * THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
 * (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 * THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
 */
```

```
javaTypeInitMap ::= [
  "int": "0",
  "long": "0",
  "float": "0.0f",
  "double": "0.0",
  "boolean": "false",
  "byte": "0",
  "short": "0",
  "char": "0",
  default: "null" // anything other than a primitive type is an object
]
```

```
// args must be <object-model-object>, <fields-resulting-in-STs>
```

```
ParserFile(file, parser, namedActions, contextSuperClass) ::= <<
  <fileHeader(file.grammarFileName, file.ANTLRVersion)>
```

```

<if(file.genPackage)>
package <file.genPackage>;
<endif>
<namedActions.header>
import org.antlr.v4.runtime.atn.*;
import org.antlr.v4.runtime.dfa.DFA;
import org.antlr.v4.runtime.*;
import org.antlr.v4.runtime.misc.*;
import org.antlr.v4.runtime.tree.*;
import java.util.List;
import java.util.Iterator;
import java.util.ArrayList;

```

```

<parser>
>>

```

```

ListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>

```

```

<if(file.genPackage)>

```

```

package <file.genPackage>;

```

```

<endif>

```

```

<header>

```

```

import org.antlr.v4.runtime.tree.ParseTreeListener;

```

```

/**

```

```

 * This interface defines a complete listener for a parse tree produced by

```

```

 * { @link <file.parserName> }.

```

```

 */

```

```

public interface <file.grammarName>Listener extends ParseTreeListener {

```

```

    <file.listenerNames> {Iname |

```

```

/**

```

```

    <if(file.listenerLabelRuleNames.(Iname))>

```

```

 * Enter a parse tree produced by the { @code <Iname>\}

```

```

 * labeled alternative in { @link <file.parserName>#<file.listenerLabelRuleNames.(Iname)>\}.

```

```

    <else>

```

```

 * Enter a parse tree produced by { @link <file.parserName>#<Iname>\}.

```

```

    <endif>

```

```

 * @param ctx the parse tree

```

```

 */

```

```

void enter<Iname; format="cap">(<file.parserName>.<Iname; format="cap">Context ctx);

```

```

/**

```

```

    <if(file.listenerLabelRuleNames.(Iname))>

```

```

 * Exit a parse tree produced by the { @code <Iname>\}

```

```

 * labeled alternative in { @link <file.parserName>#<file.listenerLabelRuleNames.(Iname)>\}.

```

```

    <else>

```

```

 * Exit a parse tree produced by { @link <file.parserName>#<Iname>\}.

```

```

    <endif>

```

```

 * @param ctx the parse tree

```

```

*/
void exit<lname; format="cap">(<file.parserName>.<lname; format="cap">Context ctx);}; separator="\n">
}
>>

BaseListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
package <file.genPackage>;
<endif>
<header>

import org.antlr.v4.runtime.ParserRuleContext;
import org.antlr.v4.runtime.tree.ErrorNode;
import org.antlr.v4.runtime.tree.TerminalNode;

/**
 * This class provides an empty implementation of { @link <file.grammarName>Listener },
 * which can be extended to create a listener which only needs to handle a subset
 * of the available methods.
 */
public class <file.grammarName>BaseListener implements <file.grammarName>Listener {
    <file.listenerNames: {lname |
/**
 * { @inheritDoc\}
 *
 * \<p>The default implementation does nothing.\</p>
 */
    @Override public void enter<lname; format="cap">(<file.parserName>.<lname; format="cap">Context ctx) { \}
/**
 * { @inheritDoc\}
 *
 * \<p>The default implementation does nothing.\</p>
 */
    @Override public void exit<lname; format="cap">(<file.parserName>.<lname; format="cap">Context ctx) { \} };
    separator="\n">

/**
 * { @inheritDoc\}
 *
 * \<p>The default implementation does nothing.\</p>
 */
    @Override public void enterEveryRule(ParserRuleContext ctx) { }
/**
 * { @inheritDoc\}
 *
 * \<p>The default implementation does nothing.\</p>
 */
}

```

```

@Override public void exitEveryRule(ParserRuleContext ctx) { }
/**
 * { @inheritDoc\}
 *
 * \<p>The default implementation does nothing.\</p>
 */
@Override public void visitTerminal(TerminalNode node) { }
/**
 * { @inheritDoc\}
 *
 * \<p>The default implementation does nothing.\</p>
 */
@Override public void visitErrorNode(ErrorNode node) { }
}
>>

VisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
package <file.genPackage>;
<endif>
<header>
import org.antlr.v4.runtime.tree.ParseTreeVisitor;

/**
 * This interface defines a complete generic visitor for a parse tree produced
 * by { @link <file.parserName>}.
 *
 * @param \<T> The return type of the visit operation. Use { @link Void} for
 * operations with no return type.
 */
public interface <file.grammarName>Visitor\<T> extends ParseTreeVisitor\<T> {
    <file.visitorNames:{ lname |
/**
<if(file.visitorLabelRuleNames.(lname))>
 * Visit a parse tree produced by the { @code <lname>\}
 * labeled alternative in { @link <file.parserName>#\<file.visitorLabelRuleNames.(lname)>\}.
<else>
 * Visit a parse tree produced by { @link <file.parserName>#\<lname>\}.
<endif>
 * @param ctx the parse tree
 * @return the visitor result
 */
T visit<lname; format="cap">(<file.parserName>.<lname; format="cap">Context ctx);}; separator="\n"
}
>>

BaseVisitorFile(file, header, namedActions) ::= <<

```

```

<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
package <file.genPackage>;
<endif>
<header>
import org.antlr.v4.runtime.tree.AbstractParseTreeVisitor;

/**
 * This class provides an empty implementation of { @link <file.grammarName>Visitor},
 * which can be extended to create a visitor which only needs to handle a subset
 * of the available methods.
 *
 * @param \<T> The return type of the visit operation. Use { @link Void} for
 * operations with no return type.
 */
public class <file.grammarName>BaseVisitor<T> extends AbstractParseTreeVisitor<T> implements
<file.grammarName>Visitor<T> {
    <file.visitorNames:{Iname |
/**
 * { @inheritDoc\}
 *
 * \<p>The default implementation returns the result of calling
 * { @link #visitChildren\} on { @code ctx\}.\</p>
 */
    @Override public T visit<Iname; format="cap">(<file.parserName>.<Iname; format="cap">Context ctx) { return
    visitChildren(ctx); \}; separator="\n">
    }
    >>

fileHeader(grammarFileName, ANTLRVersion) ::= <<
// Generated from <grammarFileName; format="java-escape"> by ANTLR <ANTLRVersion>
>>

Parser(parser, funcs, atn, sempredFuncs, superClass) ::= <<
<Parser_(ctor="parser_ctor", ...)>
>>

Parser_(parser, funcs, atn, sempredFuncs, ctor, superClass) ::= <<
@SuppressWarnings({"all", "warnings", "unchecked", "unused", "cast"})
public class <parser.name> extends <superClass; null="Parser"> {
    static { RuntimeMetaData.checkVersion("<file.ANTLRVersion>", RuntimeMetaData.VERSION); }

    protected static final DFA[] _decisionToDFA;
    protected static final PredictionContextCache _sharedContextCache =
        new PredictionContextCache();
    <if(parser.tokens)>
    public static final int
        <parser.tokens:{k | <k>=<parser.tokens.(k)>}; separator=", ", wrap, anchor>;

```

```

<endif>
public static final int
<parser.rules:{r | RULE_<r.name> = <r.index>}; separator=", ", wrap, anchor>;
public static final String[] ruleNames = {
<parser.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor>
};

<vocabulary(parser.literalNames, parser.symbolicNames)>

@Override
public String getGrammarFileName() { return "<parser.grammarFileName; format="java-escape">"; }

@Override
public String[] getRuleNames() { return ruleNames; }

@Override
public String getSerializedATN() { return _serializedATN; }

@Override
public ATN getATN() { return _ATN; }

<namedActions.members>
<parser:(ctor)()>
<funcs; separator="\n">

<if(sempredFuncs)>
public boolean sempred(RuleContext _localctx, int ruleIndex, int predIndex) {
switch (ruleIndex) {
<parser.sempredFuncs.values:{f}
case <f.ruleIndex>:
return <f.name>_sempred((<f.ctxType>)_localctx, predIndex);}; separator="\n">
}
return true;
}
<sempredFuncs.values; separator="\n">
<endif>

<atn>
}
>>

vocabulary(literalNames, symbolicNames) ::= <<
private static final String[] _LITERAL_NAMES = {
<literalNames:{t | <t>}; null="null", separator=", ", wrap, anchor>
};
private static final String[] _SYMBOLIC_NAMES = {
<symbolicNames:{t | <t>}; null="null", separator=", ", wrap, anchor>
};

```



```

public static final Vocabulary VOCABULARY = new VocabularyImpl(_LITERAL_NAMES,
_SYMBOLIC_NAMES);

/**
 * @deprecated Use {@link #VOCABULARY} instead.
 */
@Deprecated
public static final String[] tokenNames;
static {
    tokenNames = new String[_SYMBOLIC_NAMES.length];
    for (int i = 0; i < tokenNames.length; i++) {
        tokenNames[i] = VOCABULARY.getLiteralName(i);
        if (tokenNames[i] == null) {
            tokenNames[i] = VOCABULARY.getSymbolicName(i);
        }

        if (tokenNames[i] == null) {
            tokenNames[i] = "\\<INVALID>";
        }
    }
}

@Override
@Deprecated
public String[] getTokenNames() {
    return tokenNames;
}

@Override

public Vocabulary getVocabulary() {
    return VOCABULARY;
}
>>

dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>
@Override
public void action(RuleContext _localctx, int ruleIndex, int actionIndex) {
    switch (ruleIndex) {
        <recog.actionFuncs.values:{f}
        case <f.ruleIndex>:
            <f.name>_action((<f.ctxType>)_localctx, actionIndex);
            break;}; separator="\n"
    }
}
<actionFuncs.values; separator="\n">
<endif>

```

```

<if(sempredFuncs)>
@Override
public boolean sempred(RuleContext _localctx, int ruleIndex, int predIndex) {
    switch (ruleIndex) {
        <recog.sempredFuncs.values: {f|
    case <f.ruleIndex>:
        return <f.name>_sempred((<f.ctxType>)_localctx, predIndex);}; separator="\n">
    }
    return true;
}
<sempredFuncs.values; separator="\n">
<endif>
>>

parser_ctor(p) ::= <<
public <p.name>(TokenStream input) {
    super(input);
    _interp = new ParserATNSimulator(this, _ATN, _decisionToDFA, _sharedContextCache);
}
>>

/* This generates a private method since the actionIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleActionFunction(r, actions) ::= <<
private void <r.name>_action(<r.ctxType> _localctx, int actionIndex) {
    switch (actionIndex) {
        <actions: {index|
    case <index>:
        <actions.(index)>
        break;}; separator="\n">
    }
}
>>

/* This generates a private method since the predIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleSempredFunction(r, actions) ::= <<
private boolean <r.name>_sempred(<r.ctxType> _localctx, int predIndex) {
    switch (predIndex) {
        <actions: {index|
    case <index>:
        return <actions.(index)>;}; separator="\n">
    }
    return true;
}
>>

```

```

RuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,postamble,exceptions)
::= <<

<ruleCtx>
<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">

<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else>public final <endif><currentRule.ctxType>
<currentRule.name><(<args; separator=",">) throws RecognitionException {
  <currentRule.ctxType> _localctx = new <currentRule.ctxType>(_ctx, getState())<currentRule.args:{a | ,
<a.name>}>>;
  enterRule(_localctx, <currentRule.startState>, RULE_<currentRule.name>);
  <namedActions.init>
  <locals; separator="\n">
  try {
  <if(currentRule.hasLookaheadBlock)>
    int _alt;
  <endif>
  <code>
  <postamble; separator="\n">
  <namedActions.after>
  }
  <if(exceptions)>
  <exceptions; separator="\n">
  <else>
  catch (RecognitionException re) {
    _localctx.exception = re;
    _errHandler.reportError(this, re);
    _errHandler.recover(this, re);
  }
  <endif>
  finally {
  <finallyAction>
  exitRule();
  }
  return _localctx;
  }
  >>

```

```

LeftRecursiveRuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,
namedActions,finallyAction,postamble) ::=
<<

```

```

<ruleCtx>
<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">

<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else>public final <endif><currentRule.ctxType>
<currentRule.name><(<args; separator=",">) throws RecognitionException {

```

```

return <currentRule.name>(0<currentRule.args:{a | , <a.name>}>);
}

private <currentRule.ctxType> <currentRule.name>(int _p<args:{a | , <a>}>) throws RecognitionException {
    ParserRuleContext _parentctx = _ctx;
    int _parentState = getState();
    <currentRule.ctxType> _localctx = new <currentRule.ctxType>(_ctx, _parentState<currentRule.args:{a | ,
<a.name>}>);
    <currentRule.ctxType> _prevctx = _localctx;
    int _startState = <currentRule.startState>;
    enterRecursionRule(_localctx, <currentRule.startState>, RULE_<currentRule.name>, _p);
    <namedActions.init>
    <locals; separator="\n">
    try {
    <if(currentRule.hasLookaheadBlock)>
        int _alt;
    <endif>
    <code>
    <postamble; separator="\n">
    <namedActions.after>
    }
    catch (RecognitionException re) {
        _localctx.exception = re;
        _errHandler.reportError(this, re);
        _errHandler.recover(this, re);
    }
    finally {
        <finallyAction>
        unrollRecursionContexts(_parentctx);
    }
    return _localctx;
}
>>

```

```

CodeBlockForOuterMostAlt(currentOuterMostAltCodeBlock, locals, preamble, ops) ::= <<
<if(currentOuterMostAltCodeBlock.altLabel)>_localctx = new <currentOuterMostAltCodeBlock.altLabel;
format="cap">Context(_localctx);<endif>
enterOuterAlt(_localctx, <currentOuterMostAltCodeBlock.alt.altNum>);
<CodeBlockForAlt(currentAltCodeBlock=currentOuterMostAltCodeBlock, ...)>
>>

```

```

CodeBlockForAlt(currentAltCodeBlock, locals, preamble, ops) ::= <<
{
<locals; separator="\n">
<preamble; separator="\n">
<ops; separator="\n">
}
>>

```

```

LL1AltBlock(choice, preamble, alts, error) ::= <<
setState(<choice.stateNumber>);
_errHandler.sync(this);
<if(choice.label)><labelref(choice.label)> = _input.LT(1);<endif>
<preamble; separator="\n">
switch (_input.LA(1)) {
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
<alt>
break;}; separator="\n">
default:
<error>
}
>>

```

```

LL1OptionalBlock(choice, alts, error) ::= <<
setState(<choice.stateNumber>);
_errHandler.sync(this);
switch (_input.LA(1)) {
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
<alt>
break;}; separator="\n">
default:
<error>
}
>>

```

```

LL1OptionalBlockSingleAlt(choice, expr, alts, preamble, error, followExpr) ::= <<
setState(<choice.stateNumber>);
_errHandler.sync(this);
<preamble; separator="\n">
if (<expr>) {
<alts; separator="\n">
}
<!else if ( !(<followExpr> ) <error>!>
>>

```

```

LL1StarBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
setState(<choice.stateNumber>);
_errHandler.sync(this);
<preamble; separator="\n">
while (<loopExpr>) {
<alts; separator="\n">
setState(<choice.loopBackStateNumber>);
_errHandler.sync(this);
<iteration>
}
>>

```

```

LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
setState(<choice.blockStartStateNumber>); <! alt block decision !>
_errHandler.sync(this);
<preamble; separator="\n">
do {
<alts; separator="\n">
setState(<choice.stateNumber>); <! loopback/exit decision !>
_errHandler.sync(this);
<iteration>
} while ( <loopExpr> );
>>

```

```
// LL(*) stuff
```

```

AltBlock(choice, preamble, alts, error) ::= <<
setState(<choice.stateNumber>);
_errHandler.sync(this);
<if(choice.label)><labelref(choice.label)> = _input.LT(1);<endif>
<preamble; separator="\n">
switch ( getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx) ) {
<alts:{alt |
case <i>:
<alt>
break;}; separator="\n">
}
>>

```

```

OptionalBlock(choice, alts, error) ::= <<
setState(<choice.stateNumber>);
_errHandler.sync(this);
switch ( getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx) ) {
<alts:{alt |
case <i><if(!choice.ast.greedy)>+1<endif>:
<alt>
break;}; separator="\n">
}
>>

```

```

StarBlock(choice, alts, sync, iteration) ::= <<
setState(<choice.stateNumber>);
_errHandler.sync(this);
_alt = getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx);
while ( _alt!=<choice.exitAlt> && _alt!=org.antlr.v4.runtime.atn.ATN.INVALID_ALT_NUMBER ) {
if ( _alt==1<if(!choice.ast.greedy)>+1<endif> ) {
<iteration>
<alts> <! should only be one !>
}
}

```

```

setState(<choice.loopBackStateNumber>);
_errHandler.sync(this);
_alt = getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx);
}
>>

```

```

PlusBlock(choice, alts, error) ::= <<
setState(<choice.blockStartStateNumber>); <! alt block decision !>
_errHandler.sync(this);
_alt = 1<if(!choice.ast.greedy)>+1<endif>;
do {
switch (_alt) {
<alts:{alt|
case <i><if(!choice.ast.greedy)>+1<endif>:
<alt>
break;}; separator="\n">
default:
<error>
}
setState(<choice.loopBackStateNumber>); <! loopback/exit decision !>
_errHandler.sync(this);
_alt = getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx);
} while ( _alt!=<choice.exitAlt> && _alt!=org.antlr.v4.runtime.atn.ATN.INVALID_ALT_NUMBER );
>>

```

```

Sync(s) ::= "sync(<s.expecting.name>);"

```

```

ThrowNoViableAlt(t) ::= "throw new NoViableAltException(this);"

```

```

TestSetInline(s) ::= <<
<s.bitsets:{bits | <if(rest(rest(bits.ttypes)))><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s,
bits)><endif>; separator=" || ">
>>

```

```

// Java language spec 15.19 - shift operators mask operands rather than overflow to 0... need range test
testShiftInRange(shiftAmount) ::= <<
((<shiftAmount>) & ~0x3f) == 0
>>

```

```

// produces smaller bytecode only when bits.ttypes contains more than two items
bitsetBitfieldComparison(s, bits) ::= <%
(<testShiftInRange({<offsetShift(s.varName, bits.shift)>})> && ((1L \<< <offsetShift(s.varName, bits.shift)>) &
(<bits.ttypes:{ ttype | (1L \<< <offsetShift(ttype, bits.shift)>)}; separator=" | ">)) != 0)
%>

```

```

isZero ::= [
"0":true,
default:false

```

]

```
offsetShift(shiftAmount, offset) ::= <%  
<if(!isZero.(offset))><shiftAmount> - <offset><else><shiftAmount><endif>  
>%>
```

```
// produces more efficient bytecode when bits.ttypes contains at most two items  
bitsetInlineComparison(s, bits) ::= <%  
<bits.ttypes:{ ttype | <s.varName>==<ttype>}; separator=" || ">  
>%>
```

```
cases(ttypes) ::= <<  
<ttypes:{ t | case <t>:}; separator="\n">  
>>
```

```
InvokeRule(r, argExprsChunks) ::= <<  
setState(<r.stateNumber>);  
<if(r.labels)><r.labels:{ l | <labelref(l)> =  
}><endif><r.name>(<if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)><endif><endif><argExprsChunks>  
>);  
>>
```

```
MatchToken(m) ::= <<  
setState(<m.stateNumber>);  
<if(m.labels)><m.labels:{ l | <labelref(l)> = }><endif>match(<m.name>);  
>>
```

```
MatchSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, false)>"
```

```
MatchNotSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, true)>"
```

```
CommonSetStuff(m, expr, capture, invert) ::= <<  
setState(<m.stateNumber>);  
<if(m.labels)><m.labels:{ l | <labelref(l)> = }>_input.LT(1);<endif>  
<capture>  
if ( <if(invert)><m.varName> \<= 0 || <else>!<endif>(<expr>)) {  
  <if(m.labels)><m.labels:{ l | <labelref(l)> = (Token)}><endif>_errHandler.recoverInline(this);  
}  
else {  
  if ( _input.LA(1)==Token.EOF ) matchedEOF = true;  
  _errHandler.reportMatch(this);  
  consume();  
}  
>>
```

```
Wildcard(w) ::= <<  
setState(<w.stateNumber>);  
<if(w.labels)><w.labels:{ l | <labelref(l)> = }><endif>matchWildcard();
```



```

>>

// ACTION STUFF

Action(a, foo, chunks) ::= "<chunks>"

ArgAction(a, chunks) ::= "<chunks>"

SemPred(p, chunks, failChunks) ::= <<
setState(<p.stateNumber>);
if (!(<chunks>)) throw new FailedPredicateException(this, <p.predicate><if(failChunks)>,
<failChunks><elseif(p.msg)>, <p.msg><endif>);
>>

ExceptionClause(e, catchArg, catchAction) ::= <<
catch (<catchArg>) {
    <catchAction>
}
>>

// lexer actions are not associated with model objects

LexerSkipCommand() ::= "skip();"
LexerMoreCommand() ::= "more();"
LexerPopModeCommand() ::= "popMode();"

LexerTypeCommand(arg, grammar) ::= "_type = <arg>";
LexerChannelCommand(arg, grammar) ::= "_channel = <arg>";
LexerModeCommand(arg, grammar) ::= "_mode = <arg>";
LexerPushModeCommand(arg, grammar) ::= "pushMode(<arg>);"

ActionText(t) ::= "<t.text>"
ActionTemplate(t) ::= "<t.st>"
ArgRef(a) ::= "_localctx.<a.name>"
LocalRef(a) ::= "_localctx.<a.name>"
RetValRef(a) ::= "_localctx.<a.name>"
QRetValRef(a) ::= "<ctx(a)>.<a.dict>.<a.name>"
/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>.<t.name>"
LabelRef(t) ::= "<ctx(t)>.<t.name>"
ListLabelRef(t) ::= "<ctx(t)>.<ListLabelName(t.name)>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<s.name> = <rhsChunks>";

TokenLabelType() ::= "<file.TokenLabelType; null={Token}>"
InputSymbolType() ::= "<file.InputSymbolType; null={Token}>"

TokenPropertyRef_text(t) ::= "<ctx(t)>.<t.label>!=null?<ctx(t)>.<t.label>.getText():null"
TokenPropertyRef_type(t) ::= "<ctx(t)>.<t.label>!=null?<ctx(t)>.<t.label>.getType():0"

```

```

TokenPropertyRef_line(t) ::= "<ctx(t)>.<t.label>!=null?<ctx(t)>.<t.label>.getLine():0)"
TokenPropertyRef_pos(t) ::= "<ctx(t)>.<t.label>!=null?<ctx(t)>.<t.label>.getCharPositionInLine():0)"
TokenPropertyRef_channel(t) ::= "<ctx(t)>.<t.label>!=null?<ctx(t)>.<t.label>.getChannel():0)"
TokenPropertyRef_index(t) ::= "<ctx(t)>.<t.label>!=null?<ctx(t)>.<t.label>.getTokenIndex():0)"
TokenPropertyRef_int(t) ::= "<ctx(t)>.<t.label>!=null?Integer.valueOf(<ctx(t)>.<t.label>.getText()):0)"

RulePropertyRef_start(r) ::= "<ctx(r)>.<r.label>!=null?(<ctx(r)>.<r.label>.start):null)"
RulePropertyRef_stop(r) ::= "<ctx(r)>.<r.label>!=null?(<ctx(r)>.<r.label>.stop):null)"
RulePropertyRef_text(r) ::=
"<ctx(r)>.<r.label>!=null?_input.getText(<ctx(r)>.<r.label>.start,<ctx(r)>.<r.label>.stop):null)"
RulePropertyRef_ctx(r) ::= "<ctx(r)>.<r.label>"
RulePropertyRef_parser(r) ::= "this"

ThisRulePropertyRef_start(r) ::= "_localctx.start"
ThisRulePropertyRef_stop(r) ::= "_localctx.stop"
ThisRulePropertyRef_text(r) ::= "_input.getText(_localctx.start, _input.LT(-1))"
ThisRulePropertyRef_ctx(r) ::= "_localctx"
ThisRulePropertyRef_parser(r) ::= "this"

NonLocalAttrRef(s) ::= "(<s.ruleName; format=\"cap\">Context)getInvokingContext(<s.ruleIndex>).<s.name>"
SetNonLocalAttr(s, rhsChunks) ::=
"(<s.ruleName; format=\"cap\">Context)getInvokingContext(<s.ruleIndex>).<s.name> = <rhsChunks>);"

AddToLabelList(a) ::= "<ctx(a.label)>.<a.listName>.add(<labelref(a.label)>);"

TokenDecl(t) ::= "<TokenLabelType()> <t.name>"
TokenTypeDecl(t) ::= "int <t.name>);"
TokenListDecl(t) ::= "List<Token> <t.name> = new ArrayList<Token>()"
RuleContextDecl(r) ::= "<r.ctxName> <r.name>"
RuleContextListDecl(rdecl) ::= "List<<rdecl.ctxName>> <rdecl.name> = new ArrayList<<rdecl.ctxName>>()"

ContextTokenGetterDecl(t) ::=
"public TerminalNode <t.name>() { return getToken(<parser.name>.<t.name>, 0); }"
ContextTokenListGetterDecl(t) ::=
"public List<TerminalNode> <t.name>() { return getTokens(<parser.name>.<t.name>); }"
ContextTokenListIndexedGetterDecl(t) ::= <<
public TerminalNode <t.name>(int i) {
return getToken(<parser.name>.<t.name>, i);
}
>>
ContextRuleGetterDecl(r) ::= <<
public <r.ctxName> <r.name>() {
return getRuleContext(<r.ctxName>.class,0);
}
>>
ContextRuleListGetterDecl(r) ::= <<
public List<<r.ctxName>> <r.name>() {
return getRuleContexts(<r.ctxName>.class);
}

```

```

}
>>
ContextRuleListIndexedGetterDecl(r) ::= <<
public <r.ctxName> <r.name>(int i) {
    return getRuleContext(<r.ctxName>.class,i);
}
>>

LexerRuleContext() ::= "RuleContext"

/** The rule context name is the rule followed by a suffix; e.g.,
 * r becomes rContext.
 */
RuleContextNameSuffix() ::= "Context"

ImplicitTokenLabel(tokenName) ::= "<tokenName>"
ImplicitRuleLabel(ruleName) ::= "<ruleName>"
ImplicitSetLabel(id) ::= "_tset<id>"
ListLabelName(label) ::= "<label>"

CaptureNextToken(d) ::= "<d.varName> = _input.LT(1);"
CaptureNextTokenType(d) ::= "<d.varName> = _input.LA(1);"

StructDecl(struct,ctorAttrs,attrs, getters,dispatchMethods,interfaces,extensionMembers)
::= <<
public static class <struct.name> extends
<if(contextSuperClass)><contextSuperClass><else>ParserRuleContext<endif><if(interfaces)> implements
<interfaces; separator=", "><endif> {
<attrs:{a | public <a>;}; separator="\n">
<getters:{g | <g>;}; separator="\n">
<if(ctorAttrs)>public <struct.name>(ParserRuleContext parent, int invokingState) { super(parent, invokingState);
}<endif>
public <struct.name>(ParserRuleContext parent, int invokingState<ctorAttrs:{a | , <a>>}) {
    super(parent, invokingState);
<struct.ctorAttrs:{a | this.<a.name> = <a.name>;}; separator="\n">
}
@Override public int getRuleIndex() { return RULE_<struct.derivedFromName>; }
<if(struct.provideCopyFrom)><! don't need copy unless we have subclasses !>
public <struct.name>() { }
public void copyFrom(<struct.name> ctx) {
    super.copyFrom(ctx);
<struct.attrs:{a | this.<a.name> = ctx.<a.name>;}; separator="\n">
}
<endif>
<dispatchMethods; separator="\n">
<extensionMembers; separator="\n">
}
>>

```

```

AltLabelStructDecl(struct,attrs, getters,dispatchMethods) ::= <<
public static class <struct.name> extends <currentRule.name; format="cap">Context {
  <attrs:{ a | public <a>; }; separator="\n">
  <getters:{ g | <g>; }; separator="\n">
  public <struct.name>(<currentRule.name; format="cap">Context ctx) { copyFrom(ctx); }
  <dispatchMethods; separator="\n">
}
>>

```

```

ListenerDispatchMethod(method) ::= <<
@Override
public void <if(method.isEnter)>enter<else>exit<endif>Rule(ParseTreeListener listener) {
  if ( listener instanceof <parser.grammarName>Listener )
  ((<parser.grammarName>Listener)listener).<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName;
format="cap">(this);
}
>>

```

```

VisitorDispatchMethod(method) ::= <<
@Override
public <T> T accept(ParseTreeVisitor<? extends T> visitor) {
  if ( visitor instanceof <parser.grammarName>Visitor ) return ((<parser.grammarName>Visitor<? extends
T>)visitor).visit<struct.derivedFromName; format="cap">(this);
  else return visitor.visitChildren(this);
}
>>

```

```

AttributeDecl(d) ::= "<d.type> <d.name><if(d.initValue)> = <d.initValue><endif>"

```

```

/** If we don't know location of label def x, use this template */
labelref(x) ::= "<if(!x.isLocal)>(<x.ctx.name>)_localctx.<endif><x.name>"

```

```

/** For any action chunk, what is correctly-typed context struct ptr? */
ctx(actionChunk) ::= "(<actionChunk.ctx.name>)_localctx"

```

```

// used for left-recursive rules
recRuleAltPredicate(ruleName,opPrec) ::= "precpred(_ctx, <opPrec>)"
recRuleSetReturnAction(src,name) ::= "$<name>=<src>.<name>;"
recRuleSetStopToken() ::= "_ctx.stop = _input.LT(-1);"

```

```

recRuleAltStartAction(ruleName, ctxName, label, isListLabel) ::= <<
_localctx = new <ctxName>Context(_parentctx, _parentState);
<if(label)>
<if(isListLabel)>
_localctx.<label>.add(_prevctx);
<else>
_localctx.<label> = _prevctx;

```

```

<endif>
<endif>
<if(label)>_localctx.<label> = _prevctx;<endif>
pushNewRecursionContext(_localctx, _startState, RULE_<ruleName>);
>>

recRuleLabeledAltStartAction(ruleName, currentAltLabel, label, isListLabel) ::= <<
_localctx = new <currentAltLabel; format="cap">Context(new <ruleName; format="cap">Context(_parentctx,
_parentState));
<if(label)>
<if(isListLabel)>
((<currentAltLabel; format="cap">Context)_localctx).<label>.add(_prevctx);
<else>
((<currentAltLabel; format="cap">Context)_localctx).<label> = _prevctx;
<endif>
<endif>
pushNewRecursionContext(_localctx, _startState, RULE_<ruleName>);
>>

recRuleReplaceContext(ctxName) ::= <<
_localctx = new <ctxName>Context(_localctx);
_ctx = _localctx;
_prevctx = _localctx;
>>

recRuleSetPrevCtx() ::= <<
if ( _parseListeners!=null ) triggerExitRuleEvent();
_prevctx = _localctx;
>>

LexerFile(lexerFile, lexer, namedActions) ::= <<
<fileHeader(lexerFile.grammarFileName, lexerFile.ANTLRVersion)>
<if(lexerFile.genPackage)>
package <lexerFile.genPackage>;
<endif>
<namedActions.header>
import org.antlr.v4.runtime.Lexer;
import org.antlr.v4.runtime.CharStream;
import org.antlr.v4.runtime.Token;
import org.antlr.v4.runtime.TokenStream;
import org.antlr.v4.runtime.*;
import org.antlr.v4.runtime.atn.*;
import org.antlr.v4.runtime.dfa.DFA;
import org.antlr.v4.runtime.misc.*;

<lexer>
>>

```

```

Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<
@SuppressWarnings({"all", "warnings", "unchecked", "unused", "cast"})
public class <lexer.name> extends <superClass; null="Lexer"> {
    static { RuntimeMetaData.checkVersion("<lexerFile.ANTLRVersion>", RuntimeMetaData.VERSION); }

    protected static final DFA[] _decisionToDFA;
    protected static final PredictionContextCache _sharedContextCache =
        new PredictionContextCache();
    public static final int
        <lexer.tokens:{k | <k>=<lexer.tokens.(k)>}; separator=", ", wrap, anchor>;
    <if(lexer.channels)>
    public static final int
        <lexer.channels:{k | <k>=<lexer.channels.(k)>}; separator=", ", wrap, anchor>;
    <endif>
    <rest(lexer.modes):{m | public static final int <m> = <i>;}; separator="\n">
    public static String[] modeNames = {
        <lexer.modes:{m | "<m>"}; separator=", ", wrap, anchor>
    };

    public static final String[] ruleNames = {
        <lexer.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor>
    };

    <vocabulary(lexer.literalNames, lexer.symbolicNames)>

    <namedActions.members>

    public <lexer.name>(CharStream input) {
        super(input);
        _interp = new LexerATNSimulator(this, _ATN, _decisionToDFA, _sharedContextCache);
    }

    @Override
    public String getGrammarFileName() { return "<lexer.grammarFileName>"; }

    @Override
    public String[] getRuleNames() { return ruleNames; }

    @Override
    public String getSerializedATN() { return _serializedATN; }

    @Override
    public String[] getModeNames() { return modeNames; }

    @Override
    public ATN getATN() { return _ATN; }

```

```

<dumpActions(lexer, "", actionFuncs, sempredFuncs)>
<atn>
}
>>

SerializedATN(model) ::= <<
<if(rest(model.segments))>
<! requires segmented representation !>
private static final int _serializedATNSegments = <length(model.segments)>;
<model.segments:{segment|private static final String _serializedATNSegment<i0> =
"<segment; wrap={"+<\n><\t>"}>";}; separator="\n">
public static final String _serializedATN = Utils.join(
new String[] {
<model.segments:{segment | _serializedATNSegment<i0>}; separator=",\n">
},
""
);
<else>
<! only one segment, can be inlined !>
public static final String _serializedATN =
"<model.serialized; wrap={"+<\n><\t>"}>";
<endif>
public static final ATN _ATN =
new ATNDeserializer().deserialize(_serializedATN.toCharArray());
static {
_decisionToDFA = new DFA[_ATN.getNumberOfDecisions()];
for (int i = 0; i < _ATN.getNumberOfDecisions(); i++) {
_decisionToDFA[i] = new DFA(_ATN.getDecisionState(i), i);
}
<! org.antlr.v4.tool.DOTGenerator dot = new org.antlr.v4.tool.DOTGenerator(null);!>
<! System.out.println(dot.getDOT(_ATN.decisionToState.get(0), ruleNames, false));!>
<! System.out.println(dot.getDOT(_ATN.ruleToStartState[2], ruleNames, false));!>
}
>>

/** Using a type to init value map, try to init a type; if not in table
* must be an object, default value is "null".
*/
initValue(typeName) ::= <<
<javaTypeInitMap.(typeName)>
>>

codeFileExtension() ::= ".java"

```

Found in path(s):

```

* /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-
jar/org/antlr/v4/tool/templates/codegen/Java/Java.stg

```

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*/

Found in path(s):

* /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-jar/org/antlr/v4/parse/ANTLRParser.java

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- */

```
// File   : A3Lexer.g
// Author  : Jim Idle (jimi@temporal-wave.com)
// Copyright : Free BSD - See @header clause below
// Version  : First implemented as part of ANTLR 3.2 this is the self
//           : hosting ANTLR 3 Lexer.
//
// Description
// -----
// This is the definitive lexer grammar for parsing ANTLR V3.x.x grammars. All other
// grammars are derived from this grammar via source code control integration (perforce)
// or by the gdiff tool.
//
// This grammar and its associated grmmars A3Parser.g and A3Walker.g exhibit the following
// traits, which are recommended for all production quality grammars:
//
// 1) They are separate grammars, not composite grammars;
// 2) They implement all supporting methods in a superclass (at least this is recommended
//    for language targets that support inheritance;
// 3) All errors are pushed as far down the parsing chain as possible, which means
//    that the lexer tries to defer error reporting to the parser, and the parser
//    tries to defer error reporting to a semantic phase consisting of a single
//    walk of the AST. The reason for this is that the error messages produced
//    from later phases of the parse will generally have better context and so
//    be more useful to the end user. Consider the message: "Syntax error at 'options'"
//    vs: "You cannot specify two options{ } sections in a single grammar file".
// 4) The lexer is 'programmed' to catch common mistakes such as unterminated literals
//    and report them specifically and not just issue confusing lexer mismatch errors.
//
/** Read in an ANTLR grammar and build an AST. Try not to do
 * any actions, just build the tree.
 *

```

```

* The phases are:
*
* A3Lexer.g (this file)
*     A3Parser.g
*     A3Verify.g (derived from A3Walker.g)
* assign.types.g
* define.g
* buildnfa.g
* antlr.print.g (optional)
* codegen.g
*
* Terence Parr
* University of San Francisco
* 2005
* Jim Idle (this v3 grammar)
* Temporal Wave LLC
* 2009
*/
lexer grammar ANTLRLexer;

// =====
// Note that while this grammar does not care about order of constructs
// that don't really matter, such as options before @header etc, it must first
// be parsed by the original v2 parser, before it replaces it. That parser does
// care about order of structures. Hence we are constrained by the v2 parser
// for at least the first bootstrap release that causes this parser to replace
// the v2 version.
// =====

// -----
// Options
//
// V3 option directives to tell the tool what we are asking of it for this
// grammar.
//
options {

// Target language is Java, which is the default but being specific
// here as this grammar is also meant as a good example grammar for
// for users.
//
language    = Java;

// The super class that this lexer should expect to inherit from, and
// which contains any and all support routines for the lexer. This is
// commented out in this baseline (definitive or normative grammar)
// - see the ANTLR tool implementation for hints on how to use the super
// class

```

```

//
//superclass = AbstractA3Lexer;
}

tokens { SEMPRED; TOKEN_REF; RULE_REF; LEXER_CHAR_SET; ARG_ACTION; }

// Include the copyright in this source and also the generated source
//
@lexer::header {
/*
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THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/
package org.antlr.v4.parse;
import org.antlr.v4.tool.*;
}

@members {
public static final int COMMENTS_CHANNEL = 2;

public CommonTokenStream tokens; // track stream we push to; need for context info
public boolean isLexerRule = false;

public void grammarError(ErrorType etype, org.antlr.runtime.Token token, Object... args) { }

```

```

/** scan backwards from current point in this.tokens list
 * looking for the start of the rule or subrule.
 * Return token or null if for some reason we can't find the start.
 */
public Token getRuleOrSubruleStartToken() {
    if ( tokens==null ) return null;
    int i = tokens.index();
    int n = tokens.size();
    if ( i>=n ) i = n-1; // seems index == n as we lex
    while ( i>=0 && i<n) {
        int ttype = tokens.get(i).getType();
        if ( ttype == LPAREN || ttype == TOKEN_REF || ttype == RULE_REF ) {
            return tokens.get(i);
        }
        i--;
    }
    return null;
}

// -----
// Comments
//
// ANTLR comments can be multi or single line and we don't care
// which particularly. However we also accept Javadoc style comments
// of the form: /** ... */ and we do take care to distinguish those
// from ordinary multi-line comments
// Note how we guide the lexical PATH because we want to issue a decriptive
// error message in case of a standalone '/' character, which makes no
// sense in ANTLR source code. We also trap unterminated multi-line comments
//
fragment DOC_COMMENT : ;
COMMENT
@init {

    // Record the start line and offsets as if we need to report an
    // unterminated comment, then we want to show the start of the comment
    // we think is broken, not the end, where people will have to try and work
    // it out themselves.
    //
    int startLine = $line;
    int offset = getCharPositionInLine();
}
: // Eat the first character only, then see if we have a comment
  // or something silly.
  //
  '/' // Comment introducer

```

```

(
  // Single line comment, possibly with embedded src/line directives
  // in a similar style to the C pre-processor, allowing generated
  // code to refer the programmer back to the original source code
  // in case of error.
  //
  '/'
  (
    (' $ANTLR')=> ' $ANTLR' SRC
    | ~(NLCHARS)*
  )

| // Multi-line comment, which may be a documentation comment
  // if it starts /** (note that we protect against accidentally
  // recognizing a comment /**/ as a documentation comment
  //
  /** (
    { input.LA(2) != '/' }?=> '*' { $type = DOC_COMMENT; }
  | { true }?=> // Required to cover all alts with predicates
  )

  // Should we support embedded multiline comments here?
  //
  (
    // Pick out end of multiline comment and exit the loop
    // if we find it.
    //
    { !(input.LA(1) == '*' && input.LA(2) == '/') }?

    // Anything else other than the non-greedy match of
    // the comment close sequence
    //
    .
  )*
  (
    // Look for the comment terminator, but if it is accidentally
    // unterminated, then we will hit EOF, which will trigger the
    // epsilon alt and hence we can issue an error message relative
    // to the start of the unterminated multi-line comment
    //
    '*'

  | // Unterminated comment!
    //
    {
      // ErrorManager.msg(Msg.UNTERMINATED_DOC_COMMENT, startLine, offset, $pos, startLine,
      // offset, $pos, (Object)null);
    }
  )

```

```

    }
  )

  |// There was nothing that made sense following the opening '/' and so
  // we issue an error regarding the malformed comment
  //
  {
    // TODO: Insert error message relative to comment start
    //
  }
)
{
  // We do not wish to pass the comments in to the parser. If you are
  // writing a formatter then you will want to preserve the comments off
  // channel, but could just skip and save token space if not.
  //
  $channel=COMMENTS_CHANNEL;
}
;

```

ARG_OR_CHARSET

```

options {k=1;}
: {isLexerRule}?=> LEXER_CHAR_SET {$type=LEXER_CHAR_SET;}
| {!isLexerRule}?=> ARG_ACTION
{
  $type=ARG_ACTION;
  // Set the token text to our gathered string minus outer [ ]
  String t = $text;
  t = t.substring(1,t.length()-1);
  setText(t);
}
;

```

fragment

LEXER_CHAR_SET

```

: '['
  ( '\\' ~('\r'\n')
  | ~('\r'\n'\\'')
  )*
  ']'
;

```

// -----

// Argument specs

//

// Certain argument lists, such as those specifying call parameters

// to a rule invocation, or input parameters to a rule specification

// are contained within square brackets. In the lexer we consume them

```

// all at once and sort them out later in the grammar analysis.
//
fragment
ARG_ACTION
: '['
  (
    ARG_ACTION

    | ("")=>ACTION_STRING_LITERAL

    | ("\")=>ACTION_CHAR_LITERAL

    | ~('[\'])
  )*
  ']'
;

// -----
// Actions
//
// Other than making sure to distinguish between { and } embedded
// within what we have assumed to be literals in the action code, the
// job of the lexer is merely to gather the code within the action
// (delimited by {}) and pass it to the parser as a single token.
// We know that this token will be asked for its text somewhere
// in the upcoming parse, so setting the text here to exclude
// the delimiting {} is no additional overhead.
//
ACTION
: NESTED_ACTION
( '?' { $type = SEMPRED; }
( (WSNLCHARS* '=>') => WSNLCHARS* '=>' // v3 gated sempred
{
Token t = new CommonToken(input, state.type, state.channel, state.tokenStartCharIndex, getCharIndex()-1);
t.setLine(state.tokenStartLine);
t.setText(state.text);
t.setCharacterPositionInLine(state.tokenStartCharPositionInLine);
grammarError(ErrorType.V3_GATED_SEMPRED, t);
}
)?
)?
;

// -----
// Action structure
//
// Many language targets use {} as block delimiters and so we

```

```

// must recursively match { } delimited blocks to balance the
// braces. Additionally, we must make some assumptions about
// literal string representation in the target language. We assume
// that they are delimited by ' or " and so consume these
// in their own alts so as not to inadvertently match { }.
// This rule calls itself on matching a {
//
fragment
NESTED_ACTION
@init {

// Record the start line and offsets as if we need to report an
// unterminated block, then we want to show the start of the comment
// we think is broken, not the end, where people will have to try and work
// it out themselves.
//
int startLine = getLine();
int offset  = getCharPositionInLine();
}

: // Action and other blocks start with opening {
//
'{'
(
// And now we can match one of a number of embedded
// elements within the action until we find a
// } that balances the opening {. If we do not find
// the balanced } then we will hit EOF and can issue
// an error message about the brace that we believe to
// be mismatched. This won't be foolproof but we will
// be able to at least report an error against the
// opening brace that we feel is in error and this will
// guide the user to the correction as best we can.
//

// An embedded {} block
//
NESTED_ACTION

| // What appears to be a literal
//
ACTION_CHAR_LITERAL

| // We have assumed that the target language has C/Java
// type comments.
//
COMMENT

```



```

|// What appears to be a literal
//
ACTION_STRING_LITERAL

|// What appears to be an escape sequence
//
ACTION_ESC

|// Some other single character that is not
// handled above
//
~(\\|'|\"|'|'{'|'})

)*

(
// Correctly balanced closing brace
//
}'

|// Looks like have an imbalanced {} block, report
// with respect to the opening brace.
//
{
// TODO: Report imbalanced {}
System.out.println("Block starting at line " + startLine + " offset " + (offset+1) + " contains imbalanced {} or
is missing a }");
}
)
;

// Keywords
// -----
// keywords used to specify ANTLR v3 grammars. Keywords may not be used as
// labels for rules or in any other context where they would be ambiguous
// with the keyword vs some other identifier
// OPTIONS, TOKENS, and CHANNELS must also consume the opening brace that captures
// their option block, as this is the easiest way to parse it separate
// to an ACTION block, despite it using the same {} delimiters.
//
OPTIONS : 'options' WSNLCHARS* '{' ;
TOKENS_SPEC : 'tokens' WSNLCHARS* '{' ;
CHANNELS : 'channels' WSNLCHARS* '{' ;

IMPORT : 'import' ;
FRAGMENT : 'fragment' ;

```

```

LEXER      : 'lexer'      ;
PARSER     : 'parser'     ;
GRAMMAR    : 'grammar'    ;
TREE_GRAMMAR : 'tree' WSNLCHARS* 'grammar' ;
PROTECTED  : 'protected'  ;
PUBLIC     : 'public'     ;
PRIVATE    : 'private'    ;
RETURNS    : 'returns'    ;
LOCALS     : 'locals'     ;
THROWS     : 'throws'     ;
CATCH      : 'catch'      ;
FINALLY    : 'finally'    ;
MODE       : 'mode'       ;

// -----
// Punctuation
//
// Character sequences used as separators, delimiters, operators, etc
//
COLON      : ':'
    {
        // scan backwards, looking for a RULE_REF or TOKEN_REF.
        // which would indicate the start of a rule definition.
        // If we see a LPAREN, then it's the start of the subrule.
        // this.tokens is the token string we are pushing into, so
        // just loop backwards looking for a rule definition. Then
        // we set isLexerRule.
        Token t = getRuleOrSubruleStartToken();
        if ( t!=null ) {
            if ( t.getType()==RULE_REF ) isLexerRule = false;
            else if ( t.getType()==TOKEN_REF ) isLexerRule = true;
            // else must be subrule; don't alter context
        }
    }
;

COLONCOLON : '::'      ;
COMMA      : ','      ;
SEMI       : ';'      ;
LPAREN     : '('      ;
RPAREN     : ')'      ;
RARROW     : '->'     ;
LT         : '<'      ;
GT         : '>'      ;
ASSIGN     : '='      ;
QUESTION   : '?'      ;
SYNPRED    : '=>'
    {
        Token t = new CommonToken(input, state.type, state.channel,

```

```

        state.tokenStartCharIndex, getCharIndex()-1);
t.setLine(state.tokenStartLine);
t.setText(state.text);
t.setCharPositionInLine(state.tokenStartCharPositionInLine);
grammarError(ErrorType.V3_SYNPRED, t);
    $channel=HIDDEN;
}
;
STAR    : '*'        ;
PLUS    : '+'        ;
PLUS_ASSIGN : '+='    ;
OR      : '|'        ;
DOLLAR  : '$'        ;
DOT     : '.'        ; // can be WILDCARD or DOT in qid or imported rule ref
RANGE   : '..'       ;
AT      : '@'        ;
POUND   : '#'        ;
NOT     : '~'        ;
RBRACE  : '}'        ;

```

/** Allow unicode rule/token names */

```

ID : a=NameStartChar NameChar*
{
  if ( Grammar.isTokenName($a.text) ) $type = TOKEN_REF;
  else $type = RULE_REF;
}
;

```

fragment

```

NameChar : NameStartChar
| '0'..'9'
| '_'
| '\u00B7'
| '\u0300'..\u036F'
| '\u203F'..\u2040'
;

```

fragment

```

NameStartChar
: 'A'..'Z' | 'a'..'z'
| '\u00C0'..\u00D6'
| '\u00D8'..\u00F6'
| '\u00F8'..\u02FF'
| '\u0370'..\u037D'
| '\u037F'..\u1FFF'
| '\u200C'..\u200D'
| '\u2070'..\u218F'
| '\u2C00'..\u2FEF'

```

```

    | '\u3001'..\uD7FF'
    | '\uF900'..\uFDCF'
    | '\uFDF0'..\uFEFE'
    | '\uFF00'..\uFFFD'
    ; // ignores | [\u10000-\uEFFFF] ;

// -----
// Literals embedded in actions
//
// Note that we have made the assumption that the language used within
// actions uses the fairly standard " and ' delimiters for literals and
// that within these literals, characters are escaped using the \ character.
// There are some languages which do not conform to this in all cases, such
// as by using /string/ and so on. We will have to deal with such cases if
// if they come up in targets.
//
// Within actions, or other structures that are not part of the ANTLR
// syntax, we may encounter literal characters. Within these, we do
// not want to inadvertently match things like '}' and so we eat them
// specifically. While this rule is called CHAR it allows for the fact that
// some languages may use/allow ' as the string delimiter.
//
fragment
ACTION_CHAR_LITERAL
: "\"" ((\\)=>ACTION_ESC | ~\" )* "\""
;

// Within actions, or other structures that are not part of the ANTLR
// syntax, we may encounter literal strings. Within these, we do
// not want to inadvertently match things like '}' and so we eat them
// specifically.
//
fragment
ACTION_STRING_LITERAL
: "\"" ((\\)=>ACTION_ESC | ~\" )* "\""
;

// Within literal strings and characters that are not part of the ANTLR
// syntax, we must allow for escaped character sequences so that we do not
// inadvertently recognize the end of a string or character when the terminating
// delimiter has been escaped.
//
fragment
ACTION_ESC
: '\\' .
;

```

```

// -----
// Integer
//
// Obviously (I hope) match an arbitrary long sequence of digits.
//
INT : ('0'..'9')+
    ;

// -----
// Source spec
//
// A fragment rule for picking up information about an originating
// file from which the grammar we are parsing has been generated. This allows
// ANTLR to report errors against the originating file and not the generated
// file.
//
fragment
SRC : 'src' WSCHARS+ file=ACTION_STRING_LITERAL WSCHARS+ line=INT
    {
        // TODO: Add target specific code to change the source file name and current line number
        //
    }
    ;

// -----
// Literal string
//
// ANTLR makes no distinction between a single character literal and a
// multi-character string. All literals are single quote delimited and
// may contain unicode escape sequences of the form \uxxxx, where x
// is a valid hexadecimal number (as per Java basically).
STRING_LITERAL
: "\"" ( ( ESC_SEQ | ~(\"|\"'|\"r\"|\"n') ) ) *
  ( "\""
  | // Unterminated string literal
    {
        Token t = new CommonToken(input, state.type, state.channel, state.tokenStartCharIndex, getCharIndex()-1);
        t.setLine(state.tokenStartLine);
        t.setText(state.text);
        t.setCharacterPositionInLine(state.tokenStartCharPositionInLine);
        grammarError(ErrorType.UNTERMINATED_STRING_LITERAL, t);
    }
  )
    ;

// A valid hex digit specification
//
fragment

```

```

HEX_DIGIT : ('0'..'9'|'a'..'f'|'A'..'F') ;

// Any kind of escaped character that we can embed within ANTLR
// literal strings.
//
fragment
ESC_SEQ
: '\\'
(
    // The standard escaped character set such as tab, newline,
    // etc.
    //
    'b'|'t'|'n'|'f'|'r'|'\"'|'\''|'\\'|'\/'

| // A Java style Unicode escape sequence
  //
  UNICODE_ESC

| // An illegal escape sequence
  //
  {
    Token t = new CommonToken(input, state.type, state.channel, getCharIndex()-1, getCharIndex());
    t.setText(t.getText());
    t.setLine(input.getLine());
    t.setCharPositionInLine(input.getCharPositionInLine()-1);
    grammarError(ErrorType.INVALID_ESCAPE_SEQUENCE, t);
  }
)
;

fragment
UNICODE_ESC

@init {

// Flag to tell us whether we have a valid number of
// hex digits in the escape sequence
//
int hCount = 0;
}

: 'u' // Leadin for unicode escape sequence

// We now require 4 hex digits. Note though
// that we accept any number of characters
// and issue an error if we do not get 4. We cannot
// use an infinite count such as + because this
// might consume too many, so we lay out the lexical
// options and issue an error at the invalid paths.

```

```

//
(
(
    HEX_DIGIT { hCount++; }
    (
        HEX_DIGIT { hCount++; }
        (
            HEX_DIGIT { hCount++; }
            (
                // Four valid hex digits, we are good
                //
                HEX_DIGIT { hCount++; }

                | // Three valid digits
            )

            | // Two valid digits
        )

        | // One valid digit
    )
)
| // No valid hex digits at all
)

// Now check the digit count and issue an error if we need to
//
{
    if (hCount != 4) {
        Token t = new CommonToken(input, state.type, state.channel, getCharIndex()-3-hCount, getCharIndex()-
1);
        t.setText(t.getText());
        t.setLine(input.getLine());
        t.setCharPositionInLine(input.getCharPositionInLine()-hCount-2);
        grammarError(ErrorType.INVALID_ESCAPE_SEQUENCE, t);
    }
}
;

// -----
// Whitespace
//
// Characters and character constructs that are of no import
// to the parser and are used to make the grammar easier to read
// for humans.
//
WS
:(

```

```

    ''
    | '\t'
    | '\r'
    | '\n'
    | '\f'
    )+
    {$channel=HIDDEN;}
;

// A fragment rule for use in recognizing end of line in
// rules like COMMENT.
//
fragment
NLCHARS
: '\n' | '\r'
;

// A fragment rule for recognizing traditional whitespace
// characters within lexer rules.
//
fragment
WSCHARS
: ' ' | '\t' | '\f'
;

// A fragment rule for recognizing both traditional whitespace and
// end of line markers, when we don't care to distinguish but don't
// want any action code going on.
//
fragment
WSNLCHARS
: ' ' | '\t' | '\f' | '\n' | '\r'
;

// This rule allows ANTLR 4 to parse grammars using the UTF-8 encoding with a
// byte order mark. Since this Unicode character doesn't appear as a token
// anywhere else in the grammar, we can simply skip all instances of it without
// problem. This rule will not break usage of \uFEFF inside a LEXER_CHAR_SET or
// STRING_LITERAL.
UnicodeBOM
: '\uFEFF' {skip();}
;

// -----
// Illegal Character
//
// This is an illegal character trap which is always the last rule in the
// lexer specification. It matches a single character of any value and being

```



```

// the last rule in the file will match when no other rule knows what to do
// about the character. It is reported as an error but is not passed on to the
// parser. This means that the parser to deal with the gramamr file anyway
// but we will not try to analyse or code generate from a file with lexical
// errors.
//
ERRCHAR
: .
{
    Token t = new CommonToken(input, state.type, state.channel, state.tokenStartCharIndex, getCharIndex()-1);
    t.setLine(state.tokenStartLine);
    t.setText(state.text);
    t.setCharPositionInLine(state.tokenStartCharPositionInLine);
    String msg = getTokenErrorDisplay(t) + " came as a complete surprise to me";
    grammarError(ErrorType.SYNTAX_ERROR, t, msg);
    state.syntaxErrors++;
    skip();
}
;

```

Found in path(s):

* /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-jar/org/antlr/v4/parse/ANTLRLexer.g

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

```

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```

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*/

```
SwiftTypeInitMap ::= [
  "Int": "0",
  "Int64": "0",
  "Float": "0.0",
  "Double": "0.0",
  "Bool": "false",
  default: "nil" // anything other than a primitive type is an object
]
```

```
SwiftTypeMap ::= [
  "int": "Int",
  "float": "Float",
  "long": "Int64",
  "double": "Double",
  "bool": "Bool",
  "boolean": "Bool",
  default : key
]
// args must be <object-model-object>, <fields-resulting-in-STs>
```

```
ParserFile(file, parser, namedActions, contextSuperClass) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
<!package <file.genPackage>;!>
<endif>
<namedActions.header>
import Antlr4

<parser>
>>
```

```
ListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
<!package <file.genPackage>;!>
<endif>
<header>
import Antlr4
```

```
/**
 * This interface defines a complete listener for a parse tree produced by
 * { @link <file.parserName> }.
```

```

*/
public protocol <file.grammarName>Listener: ParseTreeListener {
  <file.listenerNames: {Iname |
/**
<if(file.listenerLabelRuleNames.(Iname))>
* Enter a parse tree produced by the { @code <Iname>\}
* labeled alternative in { @link <file.parserName>#<file.listenerLabelRuleNames.(Iname)>\}.
<else>
* Enter a parse tree produced by { @link <file.parserName>#<Iname>\}.
<endif>
- Parameters:
  - ctx: the parse tree
*/
func enter<Iname; format="cap">(_ ctx: <file.parserName>.<Iname; format="cap">Context)
/**
<if(file.listenerLabelRuleNames.(Iname))>
* Exit a parse tree produced by the { @code <Iname>\}
* labeled alternative in { @link <file.parserName>#<file.listenerLabelRuleNames.(Iname)>\}.
<else>
* Exit a parse tree produced by { @link <file.parserName>#<Iname>\}.
<endif>
- Parameters:
  - ctx: the parse tree
*/
func exit<Iname; format="cap">(_ ctx: <file.parserName>.<Iname; format="cap">Context); separator="\n"
}
>>

```

```

BaseListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
<!package <file.genPackage>;!>
<endif>
<header>

```

```
import Antlr4
```

```

/**
* This class provides an empty implementation of { @link <file.grammarName>Listener},
* which can be extended to create a listener which only needs to handle a subset
* of the available methods.
*/
open class <file.grammarName>BaseListener: <file.grammarName>Listener {
  public init() { \}
  <file.listenerNames: {Iname |

/**

```

```

* { @inheritDoc\}
*
* \<p>The default implementation does nothing.\</p>
*/
open func enter<lname; format="cap">(_ ctx: <file.parserName>.<lname; format="cap">Context) { \}
/**
* { @inheritDoc\}
*
* \<p>The default implementation does nothing.\</p>
*/
open func exit<lname; format="cap">(_ ctx: <file.parserName>.<lname; format="cap">Context) { \};
separator="\n">

/**
* { @inheritDoc\}
*
* \<p>The default implementation does nothing.\</p>
*/
open func enterEveryRule(_ ctx: ParserRuleContext) { }
/**
* { @inheritDoc\}
*
* \<p>The default implementation does nothing.\</p>
*/
open func exitEveryRule(_ ctx: ParserRuleContext) { }
/**
* { @inheritDoc\}
*
* \<p>The default implementation does nothing.\</p>
*/
open func visitTerminal(_ node: TerminalNode) { }
/**
* { @inheritDoc\}
*
* \<p>The default implementation does nothing.\</p>
*/
open func visitErrorNode(_ node: ErrorNode) { }
}
>>

```

```

VisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
<!package <file.genPackage>;!>
<endif>
<header>
import Antlr4

```

```

/**
 * This interface defines a complete generic visitor for a parse tree produced
 * by { @link <file.parserName> }.
 *
 * @param \<T> The return type of the visit operation. Use { @link Void } for
 * operations with no return type.
 */
open class <file.grammarName>Visitor\<T>: ParseTreeVisitor\<T> {
    <file.visitorNames:{Iname |
/**
<if(file.visitorLabelRuleNames.(Iname))>
 * Visit a parse tree produced by the { @code <Iname>}
 * labeled alternative in { @link <file.parserName>#<file.visitorLabelRuleNames.(Iname)> }.
<else>
 * Visit a parse tree produced by { @link <file.parserName>#<Iname> }.
<endif>
- Parameters:
- ctx: the parse tree
- returns: the visitor result
 */
open func visit<Iname; format="cap">(_ ctx: <file.parserName>.<Iname; format="cap">Context) -> T{
    fatalError("#function + " must be overridden")
}
}; separator="\n">
}
>>

```

```

BaseVisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
<!package <file.genPackage>;!>
<endif>
<header>
import Antlr4

```

```

/**
 * This class provides an empty implementation of { @link <file.grammarName>Visitor },
 * which can be extended to create a visitor which only needs to handle a subset
 * of the available methods.
 *
 * @param \<T> The return type of the visit operation. Use { @link Void } for
 * operations with no return type.
 */
open class <file.grammarName>BaseVisitor\<T>: AbstractParseTreeVisitor\<T> {
    <file.visitorNames:{Iname |
/**
 * { @inheritDoc }
 *

```

```

* \<p>The default implementation returns the result of calling
* { @link #visitChildren\} on { @code ctx\}.\</p>
*/
open func visit<lname; format="cap">(_ ctx: <file.parserName>.<lname; format="cap">Context) -> T? { return
visitChildren(ctx) \}}; separator="\n">
}
>>

fileHeader(grammarFileName, ANTLRVersion) ::= <<
// Generated from <grammarFileName; format="java-escape"> by ANTLR <ANTLRVersion>
>>

Parser(parser, funcs, atn, sempredFuncs, superClass) ::= <<
<Parser_(ctor="parser_ctor", ...)>
>>

Parser_(parser, funcs, atn, sempredFuncs, ctor, superClass) ::= <<
<!--@SuppressWarnings({"all", "warnings", "unchecked", "unused", "cast"})!>
open class <parser.name>: <superClass; null="Parser"> {

internal static var _decisionToDFA: [DFA] = {
    var decisionToDFA = [DFA]()
    let length = <parser.name>._ATN.getNumberOfDecisions()
    for i in 0..\<length {
        <!-- decisionToDFA[i] = DFA(<parser.name>._ATN.getDecisionState(i)!, i);!>
        decisionToDFA.append(DFA(<parser.name>._ATN.getDecisionState(i)!, i))
    }
    return decisionToDFA
}()
internal static let _sharedContextCache: PredictionContextCache = PredictionContextCache()
<if(parser.tokens)>
public enum Tokens: Int {
case EOF = -1, <parser.tokens:{k | <k> = <parser.tokens.(k)>}; separator=", ", wrap, anchor>
}
<endif>
public static let <parser.rules:{r | RULE_<r.name> = <r.index>}; separator=", ", wrap, anchor>
public static let ruleNames: [String] = [
<parser.ruleNames:{r | "<r">}; separator=", ", wrap, anchor>
]

<vocabulary(parser.literalNames, parser.symbolicNames)>

override
open func getGrammarFileName() -> String { return "<parser.grammarFileName; format="java-escape">" }

override
open func getRuleNames() -> [String] { return <parser.name>.ruleNames }

```

```

override
open func getSerializedATN() -> String { return <parser.name>._serializedATN }

override
open func getATN() -> ATN { return <parser.name>._ATN }

<namedActions.members>
<parser:(ctor)()>
<funcs; separator="\n">

<if(sempredFuncs)>
  override
  open func sempred(_ localctx: RuleContext?, _ ruleIndex: Int, _ predIndex: Int) throws -> Bool {
    switch (ruleIndex) {
      <parser.sempredFuncs.values:{f}
    case <f.ruleIndex>:
      return try <f.name>_sempred(_ localctx?.castdown(<f.ctxType>.self), predIndex); separator="\n">
        default: return true
    }
    <!return true;!>
  }
  <sempredFuncs.values; separator="\n">
<endif>

<atn>
  public static let _serializedATN : String = <parser.name>ATN().jsonString
  public static let _ATN: ATN = ATNDeserializer().deserializeFromJson(_serializedATN)
}
>>

vocabulary(literalNames, symbolicNames) ::= <<
private static let _LITERAL_NAMES: [String?] = [
  <literalNames:{t | <t>}; null="nil", separator=", ", wrap, anchor>
]
private static let _SYMBOLIC_NAMES: [String?] = [
  <symbolicNames:{t | <t>}; null="nil", separator=", ", wrap, anchor>
]
public static let VOCABULARY: Vocabulary = Vocabulary(_LITERAL_NAMES, _SYMBOLIC_NAMES)

/**
 * @deprecated Use {@link #VOCABULARY} instead.
 */
//@Deprecated
public let tokenNames: [String?]? = {
  let length = _SYMBOLIC_NAMES.count
  var tokenNames = [String?](repeating: nil, count: length)
  for i in 0..

```

```

if name == nil {
  name = VOCABULARY.getSymbolicName(i)
}
if name == nil {
  name = "\<INVALID>"
}
tokenNames[i] = name
}
return tokenNames
}()

override
<!--@Deprecated!>
open func getTokenNames() -> [String]? {
  return tokenNames
}
>>

dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>
override
open func action(_ _localctx: RuleContext?, _ ruleIndex: Int, _ actionIndex: Int) throws {
  switch (ruleIndex) {
    <recog.actionFuncs.values:{f}
case <f.ruleIndex>:
    <f.name>_action((_localctx as <f.ctxType>?), actionIndex)
    }; separator="\n">
  default: break
  }
}
<actionFuncs.values; separator="\n">
<endif>
<if(sempredFuncs)>
override
open func sempred(_ _localctx: RuleContext?, _ ruleIndex: Int, _ predIndex: Int) throws -> Bool{
  switch (ruleIndex) {
    <recog.sempredFuncs.values:{f}
case <f.ruleIndex>:
    return try <f.name>_sempred(_localctx?.castdown(<f.ctxType>.self), predIndex); separator="\n">
  default: return true
  }
}
<!return true;!>
}
<sempredFuncs.values; separator="\n">
<endif>
>>

parser_ctor(p) ::= <<

```



```

open override func getVocabulary() -> Vocabulary {
    return <p.name>.VOCABULARY
}

public override init(_ input:TokenStream)throws {
    RuntimeMetaData.checkVersion("4.6", RuntimeMetaData.VERSION)
    try super.init(input)
    _interp = ParserATNSimulator(self,<p.name>._ATN,<p.name>._decisionToDFA,
<parser.name>._sharedContextCache)
}
>>

/* This generates a private method since the actionIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleActionFunction(r, actions) ::= <<
private func <r.name>_action(_ localctx: <r.ctxType>?, _ actionIndex: Int) {
    switch (actionIndex) {
    <actions:{index|
case <index>:
    <actions.(index)>
    }; separator="\n">
    default: break
    }
}
>>

/* This generates a private method since the predIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleSempredFunction(r, actions) ::= <<
private func <r.name>_sempred(_ localctx: <r.ctxType>!, _ predIndex: Int) throws -> Bool {
    switch (predIndex) {
    <actions:{index|
    case <index>:return <actions.(index)>}; separator="\n">
    default: return true
    }
    <!return true;!>
}
>>

RuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,postamble,exceptions)
::= <<
<ruleCtx>
<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">
@discardableResult
<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else>open func

```

```

<endif><currentRule.name>(<if(first(args))>_ <endif><args; separator=", _">) throws -> <currentRule.ctxType> {
    var _localctx: <currentRule.ctxType> = <currentRule.ctxType>(_ctx, getState()<currentRule.args:{a | ,
<a.name>}>)
    try enterRule(_localctx, <currentRule.startState>, <parser.name>.RULE_<currentRule.name>)
    <namedActions.init>
    <locals; separator="\n">
    defer {
        <finallyAction>
        try! exitRule()
    }
    do {
    <if(currentRule.hasLookaheadBlock)>
        var _alt:Int
    <endif>
        <code>
        <postamble; separator="\n">
        <namedActions.after>
    }
    <if(exceptions)>
    <exceptions; separator="\n">
    <else>
    catch ANTLRException.recognition(let re) {
        _localctx.exception = re
        _errHandler.reportError(self, re)
        try _errHandler.recover(self, re)
    }
    <endif>

    return _localctx
    }
    >>

```

```

LeftRecursiveRuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,
    namedActions,finallyAction,postamble) ::=
<<

```

```

<ruleCtx>
<altLabelCtxs:{l | <altLabelCtxs.(l)>} ; separator="\n">

<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else>public final <endif> func <currentRule.name>(<
<if(first(args))>_ <endif><args; separator=", _">) throws -> <currentRule.ctxType> {
    return try <currentRule.name>(0<currentRule.args:{a | , <a.name>}>)
    }
    @discardableResult
    private func <currentRule.name>(_ p<args:{a | , <a>}>: Int) throws -> <currentRule.ctxType> {
        let _parentctx: ParserRuleContext? = _ctx
        var _parentState: Int = getState()
        var _localctx: <currentRule.ctxType> = <currentRule.ctxType>(_ctx, _parentState<currentRule.args:{a | ,

```

```

<a.name>}>)
var _prevctx: <currentRule.ctxType> = _localctx
var _startState: Int = <currentRule.startState>
try enterRecursionRule(_localctx, <currentRule.startState>, <parser.name>.RULE_<currentRule.name>, _p)
<namedActions.init>
<locals; separator="\n">
defer {
  <finallyAction>
  try! unrollRecursionContexts(_parentctx)
}
do {
<if(currentRule.hasLookaheadBlock)>
  var _alt: Int
<endif>
<code>
  <postamble; separator="\n">
  <namedActions.after>
}
catch ANTLRException.recognition(let re) {
  _localctx.exception = re
  _errHandler.reportError(self, re)
  try _errHandler.recover(self, re)
}

return _localctx;
}
>>

```

```

CodeBlockForOuterMostAlt(currentOuterMostAltCodeBlock, locals, preamble, ops) ::= <<
<if(currentOuterMostAltCodeBlock.altLabel)>_localctx = <currentOuterMostAltCodeBlock.altLabel;
format="cap">Context(_localctx);<endif>
try enterOuterAlt(_localctx, <currentOuterMostAltCodeBlock.alt.altNum>)
<CodeBlockForAlt(currentAltCodeBlock=currentOuterMostAltCodeBlock, ...)>
>>

```

```

CodeBlockForAlt(currentAltCodeBlock, locals, preamble, ops) ::= <<
<!/{!>
<locals; separator="\n">
<preamble; separator="\n">
<ops; separator="\n">
<!/{}!>
>>

```

```

LL1AltBlock(choice, preamble, alts, error) ::= <<
setState(<choice.stateNumber>)
try _errHandler.sync(self)
<if(choice.label)><labelref(choice.label)> = try _input.LT(1)<endif>
<preamble; separator="\n">

```

```

switch (<parser.name>.Tokens(rawValue: try _input.LA(1))!) {
<choice.altLook,alts:{look,alt | <cases(ttypes=look)>
<alt>
break}; separator="\n">
default:
<error>
}
>>

```

```

LL1OptionalBlock(choice, alts, error) ::= <<
setState(<choice.stateNumber>)
try _errHandler.sync(self)
switch (<parser.name>.Tokens(rawValue: try _input.LA(1))!) {
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
<alt>
break}; separator="\n">
default:
<error>
}
>>

```

```

LL1OptionalBlockSingleAlt(choice, expr, alts, preamble, error, followExpr) ::= <<
setState(<choice.stateNumber>)
try _errHandler.sync(self)
<preamble; separator="\n">
if (<expr>) {
<alts; separator="\n">
}
<!else if ( !(<followExpr> ) <error!>
>>

```

```

LL1StarBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
setState(<choice.stateNumber>)
try _errHandler.sync(self)
<preamble; separator="\n">
while (<loopExpr>) {
<alts; separator="\n">
setState(<choice.loopBackStateNumber>)
try _errHandler.sync(self)
<iteration>
}
>>

```

```

LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
setState(<choice.blockStartStateNumber>) <! alt block decision !>
try _errHandler.sync(self)
<preamble; separator="\n">
repeat {

```

```

<alts; separator="\n">
  setState(<choice.stateNumber>); <! loopback/exit decision !>
  try _errHandler.sync(self)
  <iteration>
} while (<loopExpr>)
>>

// LL(*) stuff

AltBlock(choice, preamble, alts, error) ::= <<
  setState(<choice.stateNumber>)
  try _errHandler.sync(self)
  <if(choice.label)><labelref(choice.label)> = try _input.LT(1)<endif>
  <preamble; separator="\n">
  switch(try getInterpreter().adaptivePredict(_input,<choice.decision>, _ctx)) {
  <alts:{alt |
  case <i>:
    <alt>
    break }; separator="\n">
  default: break
  }
  >>

OptionalBlock(choice, alts, error) ::= <<
  setState(<choice.stateNumber>)
  try _errHandler.sync(self)
  switch (try getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx)) {
  <alts:{alt |
  case <i><if(!choice.ast.greedy)>+1<endif>:
    <alt>
    break }; separator="\n">
  default: break
  }
  >>

StarBlock(choice, alts, sync, iteration) ::= <<
  setState(<choice.stateNumber>)
  try _errHandler.sync(self)
  _alt = try getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx)
  while (_alt != <choice.exitAlt> && _alt != ATN.INVALID_ALT_NUMBER) {
  if ( _alt==1<if(!choice.ast.greedy)>+1<endif> ) {
    <iteration>
    <alts> <! should only be one !>
  }
  setState(<choice.loopBackStateNumber>)
  try _errHandler.sync(self)
  _alt = try getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx)
  }

```

>>

```
PlusBlock(choice, alts, error) ::= <<
setState(<choice.blockStartStateNumber>); <! alt block decision !>
try _errHandler.sync(self)
_alt = 1<if(!choice.ast.greedy)>+1<endif>;
repeat {
  switch (_alt) {
    <alts:{alt|
case <i><if(!choice.ast.greedy)>+1<endif>:
    <alt>
break}; separator="\n">
  default:
    <error>
  }
  setState(<choice.loopBackStateNumber>); <! loopback/exit decision !>
  try _errHandler.sync(self)
  _alt = try getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx)
} while (_alt != <choice.exitAlt> && _alt != ATN.INVALID_ALT_NUMBER)
>>
```

```
Sync(s) ::= "sync(<s.expecting.name>);"
```

```
ThrowNoViableAlt(t) ::= "throw try ANTLRException.recognition(e: NoViableAltException(self))"
```

```
TestSetInline(s) ::= <<
<!<s.bitsets:{bits | <if(rest(rest(bits.ttypes)))><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s,
bits)><endif>}; separator=" || ">!>
//closure
{ () -> Bool in
  <if(rest(s.bitsets)>var<else>let<endif> testSet: Bool = <first(s.bitsets):{bits |
<if(rest(rest(bits.ttypes)))><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s, bits)><endif>}>
  <rest(s.bitsets):{bits | testSet = testSet || <if(rest(rest(bits.ttypes)))><bitsetBitfieldComparison(s,
bits)><else><bitsetInlineComparison(s, bits)><endif>}; separator="\n">
  return testSet
}()
>>
```

```
// Java language spec 15.19 - shift operators mask operands rather than overflow to 0... need range test
testShiftInRange(shiftAmount) ::= <<
((<shiftAmount>) & ~0x3f) == 0
>>
```

```
// produces smaller bytecode only when bits.ttypes contains more than two items
bitsetBitfieldComparison(s, bits) ::= <<
<!(<testShiftInRange({<offsetShift(s.varName, bits.shift)>})> && ((1 \<< <offsetShift(s.varName, bits.shift)>) &
(<bits.ttypes:{ttype | (1 \<< <offsetShift(ttype, bits.shift)>}); separator=" | ">)) != 0)!>
{ () -> Bool in
```

```

    <! let test: Bool = (<testShiftInRange({<offsetShift(s.varName, bits.shift)>}>>)>!>
    <!var temp: Int64 = Int64(<offsetShift(s.varName, bits.shift)>)>!>
    <!temp = (temp \< 0) ? (64 + (temp % 64)) : (temp % 64)>!>
    <!let test1: Int64 = (Int64(1) \<< temp)>!>
    <!var test2: Int64 = (<first(bits.ttypes):{ ttype | Utils.bitLeftShift(<offsetShift(parserName(ttype), bits.shift)>)}>>)>!>
    <!<rest(bits.ttypes):{ ttype | test2 = test2 | Utils.bitLeftShift(<offsetShift(parserName(ttype), bits.shift)>)}>
separator="\n">!>
    let testArray: [Int] = [<s.varName>, <bits.ttypes:{ ttype |<parserName(ttype)>} separator=",">]
    <!var test2: Int64 = Utils.testBitLeftShiftArray(testArray)>!>
    return Utils.testBitLeftShiftArray(testArray, <bits.shift>)
}()
>>

```

```

isZero ::= [
"0": true,
default: false
]
parserName(ttype) ::= <%
<parser.name>.Tokens.<ttype>.rawValue
%>
offsetShift(shiftAmount, offset) ::= <%
<if(!isZero.(offset))><shiftAmount> - <offset><else><shiftAmount><endif>
%>

```

```

// produces more efficient bytecode when bits.ttypes contains at most two items
bitsetInlineComparison(s, bits) ::= <%
<bits.ttypes:{ ttype | <s.varName> == <parser.name>.Tokens.<ttype>.rawValue } ; separator=" || ">
%>

```

```

cases(ttypes) ::= <<
<trunc(ttypes): { t | case .<t>:fallthrough } ; separator="\n">
<last(ttypes): { t | case .<t>: } ; separator="\n">
>>

```

```

InvokeRule(r, argExprsChunks) ::= <<
setState(<r.stateNumber>)
<if(r.labels)>
try {
    let assignmentValue = try
    <r.name><(if(r.ast.options.p))<r.ast.options.p><endif><endif><argExprsChunks>
    <r.labels:{l | <labelref(l)> = assignmentValue } ; separator="\n">
    }()
<else>try
<r.name><(if(r.ast.options.p))<r.ast.options.p><endif><endif><argExprsChunks><endif>
>>

```

```

MatchToken(m) ::= <<
setState(<m.stateNumber>)

```

```

<if(m.labels)>
try {
  let assignmentValue = try match(<parser.name>.Tokens.<m.name>.rawValue)
  <m.labels:{1 | <labelref(l)> = assignmentValue } ; separator="\n">
  }()
<else>try match(<parser.name>.Tokens.<m.name>.rawValue)<endif>
>>

MatchSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, false)>"

MatchNotSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, true)>"

CommonSetStuff(m, expr, capture, invert) ::= <<
setState(<m.stateNumber>)
<if(m.labels)><m.labels:{1 | <labelref(l)> = }>try _input.LT(1)<endif>
<capture>
if (<if(invert)><m.varName> \<= 0 || <else>!<endif>(<expr>)) {
  <if(m.labels)><m.labels:{1 | <labelref(l)> = }><endif>try _errHandler.recoverInline(self)<if(m.labels)> as
  Token<endif>
}
else {
  _errHandler.reportMatch(self)
  try consume()
}
>>

Wildcard(w) ::= <<
setState(<w.stateNumber>)
<if(w.labels)><w.labels:{1 | <labelref(l)> = }><endif>try matchWildcard();
>>

// ACTION STUFF

Action(a, foo, chunks) ::= "<chunks>"

ArgAction(a, chunks) ::= "<chunks>"

SemPred(p, chunks, failChunks) ::= <<
setState(<p.stateNumber>)
if (!(<chunks>)) {
  throw try ANTLRException.recognition(e:FailedPredicateException(self, <p.predicate><if(failChunks)>,
  <failChunks><elseif(p.msg)>, <p.msg><endif>))
}
>>

ExceptionClause(e, catchArg, catchAction) ::= <<
catch (<catchArg>) {
  <catchAction>
}

```



```

}
>>

// lexer actions are not associated with model objects

LexerSkipCommand() ::= "skip()"
LexerMoreCommand() ::= "more()"
LexerPopModeCommand() ::= "popMode()"

LexerTypeCommand(arg) ::= "_type = <arg>"
LexerChannelCommand(arg) ::= "_channel = <arg>"
LexerModeCommand(arg) ::= "_mode = <arg>"
LexerPushModeCommand(arg) ::= "pushMode(<arg>)"

ActionText(t) ::= "<t.text>"
ActionTemplate(t) ::= "<t.st>"
ArgRef(a) ::= "_localctx.<a.name>"
LocalRef(a) ::= "_localctx.<a.name>"
RetValRef(a) ::= "_localctx.<a.name>"
QRetValRef(a) ::= "<ctx(a)>.<a.dict>.<a.name>"
/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>.<t.name>"
LabelRef(t) ::= "<ctx(t)>.<t.name>"
ListLabelRef(t) ::= "<ctx(t)>.<ListLabelName(t.name)>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<s.name> = <rhsChunks>"

TokenLabelType() ::= "<file.TokenLabelType; null={Token}>"
InputSymbolType() ::= "<file.InputSymbolType; null={Token}>"

TokenPropertyRef_text(t) ::= "<ctx(t)>.<t.label> != nil ? <ctx(t)>.<t.label>!.getText()! : \"\""
TokenPropertyRef_type(t) ::= "<ctx(t)>.<t.label> != nil ? <ctx(t)>.<t.label>!.getType() : 0)"
TokenPropertyRef_line(t) ::= "<ctx(t)>.<t.label> != nil ? <ctx(t)>.<t.label>!.getLine() : 0)"
TokenPropertyRef_pos(t) ::= "<ctx(t)>.<t.label> != nil ? <ctx(t)>.<t.label>!.getCharPositionInLine() : 0)"
TokenPropertyRef_channel(t) ::= "<ctx(t)>.<t.label> != nil ? <ctx(t)>.<t.label>!.getChannel() : 0)"
TokenPropertyRef_index(t) ::= "<ctx(t)>.<t.label> != nil ? <ctx(t)>.<t.label>!.getTokenIndex() : 0)"
TokenPropertyRef_int(t) ::= "<ctx(t)>.<t.label> != nil ? Int(<ctx(t)>.<t.label>!.getText()!) : 0)"

RulePropertyRef_start(r) ::= "<ctx(r)>.<r.label> != nil ? (<ctx(r)>.<r.label>!.start?.description ?? \"\") : \"\""
RulePropertyRef_stop(r) ::= "<ctx(r)>.<r.label> != nil ? (<ctx(r)>.<r.label>!.stop?.description ?? \"\") : \"\""
RulePropertyRef_text(r) ::= "<ctx(r)>.<r.label> != nil ? try
_input.getText(<ctx(r)>.<r.label>!.start,<ctx(r)>.<r.label>!.stop) : \"\""
RulePropertyRef_ctx(r) ::= "<ctx(r)>.<r.label>"
RulePropertyRef_parser(r) ::= "self"

ThisRulePropertyRef_start(r) ::= "_localctx.start"
ThisRulePropertyRef_stop(r) ::= "_localctx.stop"
ThisRulePropertyRef_text(r) ::= "(try _input.getText(_localctx.start, try _input.LT(-1)))"
ThisRulePropertyRef_ctx(r) ::= "_localctx"

```

```

ThisRulePropertyRef_parser(r) ::= "self"

NonLocalAttrRef(s) ::= "(<s.ruleName; format=\"cap\">Context)getInvokingContext(<s.ruleIndex>).<s.name>"
SetNonLocalAttr(s, rhsChunks) ::=
"(<s.ruleName; format=\"cap\">Context)getInvokingContext(<s.ruleIndex>).<s.name> = <rhsChunks>"

AddToLabelList(a) ::= "<ctx(a.label)>.<a.listName>.append(<labelref(a.label)>)"

TokenDecl(t) ::= "<t.name>: <SwiftTypeMap.(TokenLabelType())>!"
TokenTypeDecl(t) ::= "var <t.name>: Int = 0"
TokenListDecl(t) ::= "<t.name>: Array<Token> = Array<Token>()"
RuleContextDecl(r) ::= "<r.name>: <r.ctxName>!"
RuleContextListDecl(rdecl) ::= "<rdecl.name>: Array<<rdecl.ctxName>> = Array<<rdecl.ctxName>>()"

ContextTokenGetterDecl(t) ::=
"open func <t.name>() -> TerminalNode? { return getToken(<parser.name>.Tokens.<t.name>.rawValue, 0) }"
ContextTokenListGetterDecl(t) ::=
"open func <t.name>() -> Array<TerminalNode> { return getTokens(<parser.name>.Tokens.<t.name>.rawValue)
}"
ContextTokenListIndexedGetterDecl(t) ::= <<
open func <t.name>(_ i: Int) -> TerminalNode? {
return getToken(<parser.name>.Tokens.<t.name>.rawValue, i)
}
>>
ContextRuleGetterDecl(r) ::= <<
open func <r.name>() -> <r.ctxName>? {
return getRuleContext(<r.ctxName>.self, 0)
}
>>
ContextRuleListGetterDecl(r) ::= <<
open func <r.name>() -> Array<<r.ctxName>> {
return getRuleContexts(<r.ctxName>.self)
}
>>
ContextRuleListIndexedGetterDecl(r) ::= <<
open func <r.name>(_ i: Int) -> <r.ctxName>? {
return getRuleContext(<r.ctxName>.self, i)
}
>>

LexerRuleContext() ::= "RuleContext"

/** The rule context name is the rule followed by a suffix; e.g.,
* r becomes rContext.
*/
RuleContextNameSuffix() ::= "Context"

ImplicitTokenLabel(tokenName) ::= "_<tokenName>"

```

```

ImplicitRuleLabel(ruleName) ::= "_<ruleName>"
ImplicitSetLabel(id) ::= "_tset<id>"
ListLabelName(label) ::= "<label>"

CaptureNextToken(d) ::= "<d.varName> = try _input.LT(1)"
CaptureNextTokenType(d) ::= "<d.varName> = try _input.LA(1)"

StructDecl(struct,ctorAttrs,attrs, getters,dispatchMethods,interfaces,extensionMembers,
    superClass={ParserRuleContext}) ::= <<
open class
<struct.name>:<if(contextSuperClass)><contextSuperClass><else>ParserRuleContext<endif><if(interfaces)>,
<interfaces; separator=", "><endif> {
<attrs:{a | public var <a>}; separator="\n">
<getters:{g | <g>}; separator="\n">
<! <if(ctorAttrs)>public init(_ parent: ParserRuleContext, _ invokingState: Int) { super.init(parent, invokingState)
}<endif> !>
<if(ctorAttrs)>
public convenience init(_ parent: ParserRuleContext?, _ invokingState: Int<ctorAttrs:{a | , _ <a>}>) {
self.init(parent, invokingState)
<struct.ctorAttrs:{a | self.<a.name> = <a.name>;}; separator="\n">
}
<endif>
open override func getRuleIndex() -> Int { return <parser.name>.RULE_<struct.derivedFromName> }
<if(struct.provideCopyFrom)> <! don't need copy unless we have subclasses !>
<!public init() { }!>
public func copyFrom(_ ctx: <struct.name>) {
super.copyFrom(ctx)
<struct.attrs:{a | self.<a.name> = ctx.<a.name>;}; separator="\n">
}
<endif>
<dispatchMethods; separator="\n">
<extensionMembers; separator="\n">
}
>>

AltLabelStructDecl(struct,attrs, getters,dispatchMethods) ::= <<
public final class <struct.name>: <currentRule.name; format="cap">Context {
<attrs:{a | public var <a>}; separator="\n">
<getters:{g | <g>}; separator="\n">
public init(_ ctx: <currentRule.name; format="cap">Context) {
super.init()
copyFrom(ctx)
}
<dispatchMethods; separator="\n">
}
>>

ListenerDispatchMethod(method) ::= <<

```

```

override
open func <if(method.isEnter)>enter<else>exit<endif>Rule(_ listener: ParseTreeListener) {
  if listener is <parser.grammarName>Listener {
    (listener as!
<parser.grammarName>Listener).<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName;
format="cap">(self)
  }
}
>>

VisitorDispatchMethod(method) ::= <<
override
open func accept<T>(_ visitor: ParseTreeVisitor<T>) -> T? {
  if visitor is <parser.grammarName>Visitor {
    return (visitor as! <parser.grammarName>Visitor<T>).visit<struct.derivedFromName; format="cap">(self)
  } else if visitor is <parser.grammarName>BaseVisitor {
    return (visitor as! <parser.grammarName>BaseVisitor<T>).visit<struct.derivedFromName; format="cap">(self)
  }
  else {
    return visitor.visitChildren(self)
  }
}
>>

AttributeDecl(d) ::= "<d.name>: <SwiftTypeMap.(d.type)><if(d.initValue)> = <d.initValue><else>!<endif>"

/** If we don't know location of label def x, use this template (_localctx as! <x.ctx.name> */
labelref(x) ::= "<if(!x.isLocal)>_localctx.castdown(<x.ctx.name>.self).<endif><x.name>"

/** For any action chunk, what is correctly-typed context struct ptr? */
ctx(actionChunk) ::= "_localctx.castdown(<actionChunk.ctx.name>.self)"

// used for left-recursive rules
recRuleAltPredicate(ruleName,opPrec) ::= "precpred(_ctx, <opPrec>)"
recRuleSetReturnAction(src,name) ::= "$<name>=<src>.<name>"
recRuleSetStopToken() ::= "_ctx!.stop = try _input.LT(-1)"

recRuleAltStartAction(ruleName, ctxName, label, isListLabel) ::= <<
_localctx = <ctxName>Context(_parentctx, _parentState);
<if(label)>
<if(isListLabel)>
_localctx.<label>.append(_prevctx)
<else>
_localctx.<label> = _prevctx
<endif>
<endif>
<if(label)>_localctx.<label> = _prevctx;<endif>
try pushNewRecursionContext(_localctx, _startState, <parser.name>.RULE_<ruleName>)

```

```
>>
```

```
recRuleLabeledAltStartAction(ruleName, currentAltLabel, label, isListLabel) ::= <<  
  _localctx = <currentAltLabel; format="cap">Context( <ruleName; format="cap">Context(_parentctx,  
  _parentState))  
  <if(label)>  
  <if(isListLabel)>  
    (_localctx as! <currentAltLabel; format="cap">Context).<label>.append(_prevctx)  
  <else>  
    (_localctx as! <currentAltLabel; format="cap">Context).<label> = _prevctx  
  <endif>  
  <endif>  
  try pushNewRecursionContext(_localctx, _startState, <parser.name>.RULE_<ruleName>)  
>>
```

```
recRuleReplaceContext(ctxName) ::= <<  
  _localctx = <ctxName>Context(_localctx)  
  _ctx = _localctx  
  _prevctx = _localctx  
>>
```

```
recRuleSetPrevCtx() ::= <<  
  if _parseListeners != nil {  
    try triggerExitRuleEvent()  
  }  
  _prevctx = _localctx  
>>
```

```
LexerFile(lexerFile, lexer, namedActions) ::= <<  
  <fileHeader(lexerFile.grammarFileName, lexerFile.ANTLRVersion)>  
  <if(lexerFile.genPackage)>  
  <!package <lexerFile.genPackage>;!>  
  <endif>  
  <namedActions.header>  
  import Antlr4
```

```
<lexer>  
>>
```

```
Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<  
  open class <lexer.name>: <superClass; null="Lexer"> {  
    internal static var _decisionToDFA: [DFA] = {  
      var decisionToDFA = [DFA]()  
      let length = <lexer.name>._ATN.getNumberOfDecisions()  
      for i in 0..<length {  
        <! decisionToDFA[i] = DFA(<lexer.name>._ATN.getDecisionState(i)!, i);!>  
        decisionToDFA.append(DFA(<lexer.name>._ATN.getDecisionState(i)!, i))  
      }  
    }  
  }
```

```

        return decisionToDFA
    }()

internal static let _sharedContextCache:PredictionContextCache = PredictionContextCache()
public static let <lexer.tokens>:{k | <k>=<lexer.tokens.(k)>}; separator=", ", wrap, anchor>
<if(lexer.channels)>
    public let <lexer.channels>:{k | <k>=<lexer.channels.(k)>}; separator=", ", wrap, anchor>
<endif>
<rest(lexer.modes):{m| public static let <m>: Int = <i>;}; separator="\n">
public static let modeNames: [String] = [
    <lexer.modes:{m| "<m>"}; separator=", ", wrap, anchor>
]

public static let ruleNames: [String] = [
    <lexer.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor>
]

<vocabulary(lexer.literalNames, lexer.symbolicNames)>

<namedActions.members>
open override func getVocabulary() -> Vocabulary {
    return <lexer.name>.VOCABULARY
}

public override init(_ input: CharStream) {
    RuntimeMetaData.checkVersion("<lexerFile.ANTLRVersion>", RuntimeMetaData.VERSION)
    super.init(input)
    _interp = LexerATNSimulator(self, <lexer.name>._ATN, <lexer.name>._decisionToDFA,
<lexer.name>._sharedContextCache)
}

override
open func getGrammarFileName() -> String { return "<lexer.grammarFileName>" }

    override
open func getRuleNames() -> [String] { return <lexer.name>.ruleNames }

override
open func getSerializedATN() -> String { return <lexer.name>._serializedATN }

override
open func getModeNames() -> [String] { return <lexer.name>.modeNames }

override
open func getATN() -> ATN { return <lexer.name>._ATN }

<dumpActions(lexer, "", actionFuncs, sempredFuncs)>
<atn>

```

```

    public static let _serializedATN: String = <lexer.name>ATN().jsonString
    public static let _ATN: ATN = ATNDeserializer().deserializeFromJson(_serializedATN)
}
>>

```

```

/** Don't need to define anything. The tool generates a XParserATN.swift file (and same for lexer)
 * which is referenced from static field _serializedATN. This json string is passed to
 * deserializeFromJson(). Note this is not the "serialization as array of ints" that other targets
 * do. It is more or less the output of ATNPrinter which gets read back in.
 */
SerializedATN(model) ::= <<
>>

```

```

/** Using a type to init value map, try to init a type; if not in table
 * must be an object, default value is "null".
 */
initValue(typeName) ::= <<
<SwiftTypeInitMap.(typeName)>
>>

```

```

codeFileExtension() ::= ".swift"

```

Found in path(s):

```

* /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-
jar/org/antlr/v4/tool/templates/codegen/Swift/Swift.stg

```

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

```

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```

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* THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/

```

```

/** ANTLR tool checks output templates are compatible with tool code generation.

```

```

* For now, a simple string match used on x.y of x.y.z scheme.
* Must match Tool.VERSION during load to templates.

```

```

*
* REQUIRED.
*/

```

```

pythonTypeInitMap ::= [
  "bool":"False",
  "int":"0",
  "float":"0.0",
  "str": "",
  default:"None" // anything other than a primitive type is an object
]

```

```

// args must be <object-model-object>, <fields-resulting-in-STs>

```

```

ParserFile(file, parser, namedActions, contextSuperClass) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>

```

```

# encoding: utf-8
from antlr4 import *
from io import StringIO

```

```

<namedActions.header>
<parser>

```

```

>>

```

```

ListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>

```

```

from antlr4 import *
if __name__ is not None and "." in __name__:
  from <file.parserName> import <file.parserName>
else:
  from <file.parserName> import <file.parserName>

```

```

<header>

```

```

# This class defines a complete listener for a parse tree produced by <file.parserName>.

```



```

class <file.grammarName>Listener(ParseTreeListener):

    <file.listenerNames:{ lname |
# Enter a parse tree produced by <file.parserName>#<lname>.
def enter<lname; format="cap">(self, ctx:<file.parserName>.<lname; format="cap">Context):
    pass

# Exit a parse tree produced by <file.parserName>#<lname>.
def exit<lname; format="cap">(self, ctx:<file.parserName>.<lname; format="cap">Context):
    pass

}; separator="\n">

>>

```

```

VisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
from antlr4 import *
if __name__ is not None and "." in __name__:
    from .<file.parserName> import <file.parserName>
else:
    from <file.parserName> import <file.parserName>
<header>

# This class defines a complete generic visitor for a parse tree produced by <file.parserName>.

class <file.grammarName>Visitor(ParseTreeVisitor):

    <file.visitorNames:{ lname |
# Visit a parse tree produced by <file.parserName>#<lname>.
def visit<lname; format="cap">(self, ctx:<file.parserName>.<lname; format="cap">Context):
    return self.visitChildren(ctx)

}; separator="\n">

del <file.parserName>

>>

```

```

fileHeader(grammarFileName, ANTLRVersion) ::= <<
# Generated from <grammarFileName> by ANTLR <ANTLRVersion>
>>

Parser(parser, funcs, atn, sempredFuncs, superClass) ::= <<
<Parser_(ctor="parser_ctor", ...)>
>>

```

```

Parser_(parser, funcs, atn, sempredFuncs, ctor, superClass) ::= <<
<if(superClass)>
from .<superClass> import <superClass>

<endif>
<atn>

class <parser.name> ( <if(superClass)><superClass><else>Parser<endif> ):

    grammarFileName = "<parser.grammarFileName>"

    atn = ATNDeserializer().deserialize(serializedATN())

    decisionsToDFA = [ DFA(ds, i) for i, ds in enumerate(atn.decisionToState) ]

    sharedContextCache = PredictionContextCache()

    literalNames = [ <parser.literalNames:{t | <t>}; null="\\"<INVALID>\\"", separator=", ", wrap, anchor> ]

    symbolicNames = [ <parser.symbolicNames:{t | <t>}; null="\\"<INVALID>\\"", separator=", ", wrap, anchor> ]

    <parser.rules:{r | RULE_<r.name> = <r.index>}; separator="\n", wrap, anchor>

    ruleNames = [ <parser.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor> ]

    EOF = <TokenLabelType(>).EOF
    <if(parser.tokens)>
    <parser.tokens:{k | <k>=<parser.tokens.(k)>}; separator="\n", wrap, anchor>
    <endif>

    <parser:(ctor)(>

    <namedActions.members>

    <funcs; separator="\n">

    <if(sempredFuncs)>
    def sempred(self, localctx:RuleContext, ruleIndex:int, predIndex:int):
        if self._predicates == None:
            self._predicates = dict()
    <parser.sempredFuncs.values:{f |
        self._predicates[<f.ruleIndex>] = self.<f.name>_sempred}; separator="\n    ">
        pred = self._predicates.get(ruleIndex, None)
        if pred is None:
            raise Exception("No predicate with index:" + str(ruleIndex))
        else:
            return pred(localctx, predIndex)

```

```

    <sempredFuncs.values; separator="\n">
<endif>

>>

dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>
def action(self, localctx:RuleContext, ruleIndex:int, actionIndex:int):
    if self._actions is None:
        actions = dict()
    <recog.actionFuncs.values:{f|
        actions[<f.ruleIndex>] = self.<f.name>_action }; separator="\n">
        self._actions = actions
    action = self._actions.get(ruleIndex, None)
    if action is not None:
        action(localctx, actionIndex)
    else:
        raise Exception("No registered action for:" + str(ruleIndex))

<actionFuncs.values; separator="\n">

<endif>
<if(sempredFuncs)>
def sempred(self, localctx:RuleContext, ruleIndex:int, predIndex:int):
    if self._predicates is None:
        preds = dict()
    <recog.sempredFuncs.values:{f|
        preds[<f.ruleIndex>] = self.<f.name>_sempred}; separator="\n">
        self._predicates = preds
    pred = self._predicates.get(ruleIndex, None)
    if pred is not None:
        return pred(localctx, predIndex)
    else:
        raise Exception("No registered predicate for:" + str(ruleIndex))

<sempredFuncs.values; separator="\n">
<endif>

>>

parser_ctor(p) ::= <<
def __init__(self, input:TokenStream):
    super().__init__(input)
    self.checkVersion("<file.ANTLRVersion>")
    self._interp = ParserATNSimulator(self, self.atn, self.decisionsToDFA, self.sharedContextCache)
    self._predicates = None

```

```

>>

/* This generates a private method since the actionIndex is generated, making an
 * overriding implementation impossible to maintain.
 */
RuleActionFunction(r, actions) ::= <<

def <r.name>_action(self, localctx:<r.ctxType> , actionIndex:int):
<actions:{index|
<if(first(actions))>
  if actionIndex == <index>:
    <actions.(index)>
<elseif(rest(actions))>
  elif actionIndex == <index>:
    <actions.(index)>
<endif> }; separator="\n">
>>

/* This generates a private method since the predIndex is generated, making an
 * overriding implementation impossible to maintain.
 */
RuleSempredFunction(r, actions) ::= <<
def <r.name>_sempred(self, localctx:<r.ctxType>, predIndex:int):
  <actions:{index|
<if(first(actions))>
  if predIndex == <index>:
    return <actions.(index)>
<elseif(rest(actions))>
  elif predIndex == <index>:
    return <actions.(index)>
<endif> }; separator="\n">
>>

RuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,postamble,exceptions)
::= <<

<ruleCtx>

<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">

def <currentRule.name>(self<currentRule.args:{a | , <a.name><if(a.type)>:<a.type><endif>}>):

  localctx = <parser.name>.<currentRule.ctxType>(self, self._ctx, self.state<currentRule.args:{a | , <a.name>}>)
  self.enterRule(localctx, <currentRule.startState>, self.RULE_<currentRule.name>)
  <namedActions.init>
  <locals; separator="\n">

```

```

try:
  <code>
  <postamble; separator="\n">
  <namedActions.after>
<if(exceptions)>
  <exceptions; separator="\n">
<else>
except RecognitionException as re:
  localctx.exception = re
  self._errHandler.reportError(self, re)
  self._errHandler.recover(self, re)
<endif>
finally:
  <finallyAction>
  self.exitRule()
return localctx

>>

LeftRecursiveRuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,
namedActions,finallyAction,postamble) ::=
<<

<ruleCtx>
<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">

def <currentRule.name>(self, _p:int=0<if(currentRule.args)>, <args:{a | , <a>}><endif>):
  _parentctx = self._ctx
  _parentState = self.state
  localctx = <parser.name>.<currentRule.ctxType>(self, self._ctx, _parentState<args:{a | , <a.name>}>)
  _prevctx = localctx
  _startState = <currentRule.startState>
  self.enterRecursionRule(localctx, <currentRule.startState>, self.RULE_<currentRule.name>, _p)
  <namedActions.init>
  <locals; separator="\n">
  try:
    <code>
    <postamble; separator="\n">
    <namedActions.after>
  except RecognitionException as re:
    localctx.exception = re
    self._errHandler.reportError(self, re)
    self._errHandler.recover(self, re)
  finally:
    <finallyAction>
    self.unrollRecursionContexts(_parentctx)
  return localctx

```

>>

```
CodeBlockForOuterMostAlt(currentOuterMostAltCodeBlock, locals, preamble, ops) ::= <<
<if(currentOuterMostAltCodeBlock.altLabel)>localctx = <parser.name>.<currentOuterMostAltCodeBlock.altLabel;
format="cap">Context(self, localctx)<endif>
self.enterOuterAlt(localctx, <currentOuterMostAltCodeBlock.alt.altNum>)
<CodeBlockForAlt(currentAltCodeBlock=currentOuterMostAltCodeBlock, ...)>
>>
```

```
CodeBlockForAlt(currentAltCodeBlock, locals, preamble, ops) ::= <<
<locals; separator="\n">
<preamble; separator="\n">
<ops; separator="\n">
>>
```

```
LL1AltBlock(choice, preamble, alts, error) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
<if(choice.label)><labelref(choice.label)> = _input.LT(1)<endif>
<preamble; separator="\n">
token = self._input.LA(1)
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
  <alt>
  pass}; separator="\nel">
else:
  <error>
>>
```

```
LL1OptionalBlock(choice, alts, error) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
token = self._input.LA(1)
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
  <alt>
  pass}; separator="\nel">
else:
  <error>
>>
```

```
LL1OptionalBlockSingleAlt(choice, expr, alts, preamble, error, followExpr) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
<preamble; separator="\n">
if <expr>:
  <alts; separator="\n">
<else if ( !(<followExpr> ) ) <error>!>
```

>>

```
LL1StarBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
<preamble; separator="\n">
while <loopExpr>:
  <alts; separator="\n">
  self.state = <choice.loopBackStateNumber>
  self._errHandler.sync(self)
  <iteration>
```

>>

```
LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
self.state = <choice.blockStartStateNumber> <! alt block decision !>
self._errHandler.sync(self)
<preamble; separator="\n">
while True:
  <alts; separator="\n">
  self.state = <choice.stateNumber> <! loopback/exit decision !>
  self._errHandler.sync(self)
  <iteration>
  if not (<loopExpr>):
    break
```

>>

```
// LL(*) stuff
```

```
AltBlock(choice, preamble, alts, error) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
<if(choice.label)><labelref(choice.label)> = _input.LT(1)<endif>
<preamble; separator="\n">
la_ = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)
<alts:{ alt |
if la_ == <i>:
  <alt>
  pass
}; separator="\nel">
```

>>

```
OptionalBlock(choice, alts, error) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
```

```

la_ = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)
<alts:{alt |
if la_ == <i><if(!choice.ast.greedy)>+1<endif>:
  <alt>
}; separator="\nел">

```

```
>>
```

```

StarBlock(choice, alts, sync, iteration) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
_alt = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)
while _alt!=<choice.exitAlt> and _alt!=ATN.INVALID_ALT_NUMBER:
  if _alt==1<if(!choice.ast.greedy)>+1<endif>:
    <iteration>
    <alts> <! should only be one !>
  self.state = <choice.loopBackStateNumber>
  self._errHandler.sync(self)
  _alt = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)

```

```
>>
```

```

PlusBlock(choice, alts, error) ::= <<
self.state = <choice.blockStartStateNumber> <! alt block decision !>
self._errHandler.sync(self)
_alt = 1<if(!choice.ast.greedy)>+1<endif>
while _alt!=<choice.exitAlt> and _alt!=ATN.INVALID_ALT_NUMBER:
  <alts:{alt |
if _alt == <i><if(!choice.ast.greedy)>+1<endif>:
  <alt>
}; separator="\nел">
  else:
    <error>
  self.state = <choice.loopBackStateNumber> <! loopback/exit decision !>
  self._errHandler.sync(self)
  _alt = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)

```

```
>>
```

```
Sync(s) ::= "sync(<s.expecting.name>)"
```

```
ThrowNoViableAlt(t) ::= "raise NoViableAltException(self)"
```

```

TestSetInline(s) ::= <<
<s.bitsets:{bits | <if(rest(rest(bits.ttypes)))><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s,
bits)><endif>}; separator=" or ">
>>

```



```

// Java language spec 15.19 - shift operators mask operands rather than overflow to 0... need range test
testShiftInRange(shiftAmount) ::= <<
((<shiftAmount>) & ~0x3f) == 0
>>

// produces smaller bytecode only when bits.ttypes contains more than two items
bitsetBitfieldComparison(s, bits) ::= <%
(<testShiftInRange({<offsetShiftVar(s.varName, bits.shift)>})> and ((1 \<< <offsetShiftVar(s.varName,
bits.shift)>) & (<bits.ttypes:{ttype | (1 \<< <offsetShiftType(ttype, bits.shift)>)}; separator=" | ">)) != 0)
%>

isZero ::= [
"0":true,
default:false
]

offsetShiftVar(shiftAmount, offset) ::= <%
<if(!isZero.(offset))><shiftAmount> - <offset><else><shiftAmount><endif>
%>

offsetShiftType(shiftAmount, offset) ::= <%
<if(!isZero.(offset))><parser.name>.<shiftAmount> - <offset><else><parser.name>.<shiftAmount><endif>
%>

// produces more efficient bytecode when bits.ttypes contains at most two items
bitsetInlineComparison(s, bits) ::= <%
<bits.ttypes:{ttype | <s.varName>==<parser.name>.<ttype>}; separator=" or ">
%>

cases(ttypes) ::= <<
if token in [<ttypes:{t | <parser.name>.<t>}; separator=", ">]:
>>

InvokeRule(r, argExprsChunks) ::= <<
self.state = <r.stateNumber>
<if(r.labels)><r.labels:{l | <labelref(l)> =
}><endif>self.<r.name>(<if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)>,<endif><endif><argExprsChu
nks>)
>>

MatchToken(m) ::= <<
self.state = <m.stateNumber>
<if(m.labels)><m.labels:{l | <labelref(l)> = }><endif>self.match(<parser.name>.<m.name>)
>>

MatchSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, false)>"

MatchNotSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, true)>"

```

```

CommonSetStuff(m, expr, capture, invert) ::= <<
self.state = <m.stateNumber>
<if(m.labels)><m.labels:{1 | <labelref(l)> = }>self._input.LT(1)<endif>
<capture>
<if(invert)>if <m.varName> \<= 0 or <expr><else>if not(<expr><endif>:
<if(m.labels)><m.labels:{1 | <labelref(l)> = }><else> <endif>self._errHandler.recoverInline(self)
else:
    self._errHandler.reportMatch(self)
    self.consume()
>>

```

```

Wildcard(w) ::= <<
self.state = <w.stateNumber>
<if(w.labels)><w.labels:{1 | <labelref(l)> = }><endif>self.matchWildcard()
>>

```

```
// ACTION STUFF
```

```
Action(a, foo, chunks) ::= "<chunks>"
```

```
ArgAction(a, chunks) ::= "<chunks>"
```

```

SemPred(p, chunks, failChunks) ::= <<
self.state = <p.stateNumber>
if not <chunks>:
    from antlr4.error.Errors import FailedPredicateException
    raise FailedPredicateException(self, <p.predicate><if(failChunks)>, <failChunks><elseif(p.msg)>,
<p.msg><endif>)
>>

```

```

ExceptionClause(e, catchArg, catchAction) ::= <<
catch (<catchArg>) {
    <catchAction>
}
>>

```

```
// lexer actions are not associated with model objects
```

```
LexerSkipCommand() ::= "skip()"
```

```
LexerMoreCommand() ::= "more()"
```

```
LexerPopModeCommand() ::= "popMode()"
```

```
LexerTypeCommand(arg, grammar) ::= "_type = <arg>"
```

```
LexerChannelCommand(arg, grammar) ::= "_channel = <arg>"
```

```
LexerModeCommand(arg, grammar) ::= "_mode = <arg>"
```

```
LexerPushModeCommand(arg, grammar) ::= "pushMode(<arg>)"
```

```

ActionText(t) ::= "<t.text>"
ActionTemplate(t) ::= "<t.st>"
ArgRef(a) ::= "localctx.<a.name>"
LocalRef(a) ::= "localctx.<a.name>"
RetValRef(a) ::= "localctx.<a.name>"
QRetValRef(a) ::= "<ctx(a)>.<a.dict>.<a.name>"
/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>.<t.name>"
LabelRef(t) ::= "<ctx(t)>.<t.name>"
ListLabelRef(t) ::= "<ctx(t)>.<ListLabelName(t.name)>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<s.name> = <rhsChunks>"

TokenLabelType() ::= "<file.TokenLabelType; null={Token}>"
InputSymbolType() ::= "<file.InputSymbolType; null={Token}>"

TokenPropertyRef_text(t) ::= "(None if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.text)"
TokenPropertyRef_type(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.type)"
TokenPropertyRef_line(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.line)"
TokenPropertyRef_pos(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.column)"
TokenPropertyRef_channel(t) ::= "(0 if (<ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.channel)"
TokenPropertyRef_index(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.tokenIndex)"
TokenPropertyRef_int(t) ::= "(0 if <ctx(t)>.<t.label> is None else int(<ctx(t)>.<t.label>.text))"

RulePropertyRef_start(r) ::= "(None if <ctx(r)>.<r.label> is None else <ctx(r)>.<r.label>.start)"
RulePropertyRef_stop(r) ::= "(None if <ctx(r)>.<r.label> is None else <ctx(r)>.<r.label>.stop)"
RulePropertyRef_text(r) ::= "(None if <ctx(r)>.<r.label> is None else
self._input.getText((<ctx(r)>.<r.label>.start,<ctx(r)>.<r.label>.stop)))"
RulePropertyRef_ctx(r) ::= "<ctx(r)>.<r.label>"
RulePropertyRef_parser(r) ::= "self"

ThisRulePropertyRef_start(r) ::= "localctx.start"
ThisRulePropertyRef_stop(r) ::= "localctx.stop"
ThisRulePropertyRef_text(r) ::= "self._input.getText((localctx.start, self._input.LT(-1)))"
ThisRulePropertyRef_ctx(r) ::= "localctx"
ThisRulePropertyRef_parser(r) ::= "self"

NonLocalAttrRef(s) ::= "getInvokingContext(<s.ruleIndex>).<s.name>"
SetNonLocalAttr(s, rhsChunks) ::= "getInvokingContext(<s.ruleIndex>).<s.name> = <rhsChunks>"

AddToLabelList(a) ::= "<ctx(a.label)>.<a.listName>.append(<labelref(a.label)>)"

TokenDecl(t) ::= "self.<t.name> = None # <TokenLabelType()>"
TokenTypeDecl(t) ::= "self.<t.name> = 0 # <TokenLabelType()> type"
TokenListDecl(t) ::= "self.<t.name> = list() # of <TokenLabelType()>s"
RuleContextDecl(r) ::= "self.<r.name> = None # <r.ctxName>"
RuleContextListDecl(rdecl) ::= "self.<rdecl.name> = list() # of <rdecl.ctxName>s"

ContextTokenGetterDecl(t) ::= <<

```

```

def <t.name>(self):
    return self.getToken(<parser.name>.<t.name>, 0)
>>

// should never be called
ContextTokenListGetterDecl(t) ::= <<
def <t.name>_list(self):
    return self.getTokens(<parser.name>.<t.name>)
>>

ContextTokenListIndexedGetterDecl(t) ::= <<
def <t.name>(self, i:int=None):
    if i is None:
        return self.getTokens(<parser.name>.<t.name>)
    else:
        return self.getToken(<parser.name>.<t.name>, i)
>>

ContextRuleGetterDecl(r) ::= <<
def <r.name>(self):
    return self.getTypedRuleContext(<parser.name>.<r.ctxName>,0)

>>

// should never be called
ContextRuleListGetterDecl(r) ::= <<
def <r.name>_list(self):
    return self.getTypedRuleContexts(<parser.name>.<r.ctxName>)

>>

ContextRuleListIndexedGetterDecl(r) ::= <<
def <r.name>(self, i:int=None):
    if i is None:
        return self.getTypedRuleContexts(<parser.name>.<r.ctxName>)
    else:
        return self.getTypedRuleContext(<parser.name>.<r.ctxName>,i)

>>

LexerRuleContext() ::= "RuleContext"

/** The rule context name is the rule followed by a suffix; e.g.,
 * r becomes rContext.
 */
RuleContextNameSuffix() ::= "Context"

ImplicitTokenLabel(tokenName) ::= "_<tokenName>"

```

```

ImplicitRuleLabel(ruleName) ::= "_<ruleName>"
ImplicitSetLabel(id) ::= "_tset<id>"
ListLabelName(label) ::= "<label>"

CaptureNextToken(d) ::= "<d.varName> = self._input.LT(1)"
CaptureNextTokenType(d) ::= "<d.varName> = self._input.LA(1)"

StructDecl(struct,ctorAttrs,attrs,getters,dispatchMethods,interfaces,extensionMembers) ::= <<
class <struct.name>(<if(contextSuperClass)><contextSuperClass><else>ParserRuleContext<endif>):

    def __init__(self, parser, parent:ParserRuleContext=None, invokingState:int=-1<struct.ctorAttrs:{ a | ,
<a.name><if(a.type)>:<a.type><endif>=None }>):
        super().__init__(parent, invokingState)
        self.parser = parser
        <attrs:{ a | <a> }; separator="\n">
        <struct.ctorAttrs:{ a | self.<a.name> = <a.name> }; separator="\n">

        <getters:{ g | <g> }; separator="\n\n">

    def getRuleIndex(self):
        return <parser.name>.RULE_<struct.derivedFromName>

<if(struct.provideCopyFrom)> <! don't need copy unless we have subclasses !>
    def copyFrom(self, ctx:ParserRuleContext):
        super().copyFrom(ctx)
        <struct.attrs:{ a | self.<a.name> = ctx.<a.name> }; separator="\n">

<endif>
    <dispatchMethods; separator="\n">
    <extensionMembers; separator="\n">

>>

AltLabelStructDecl(struct,attrs,getters,dispatchMethods) ::= <<
class <struct.name>(<currentRule.name; format="cap">Context):

    def __init__(self, parser, ctx:ParserRuleContext): # actually a <parser.name>.<currentRule.name;
format="cap">Context
        super().__init__(parser)
        <attrs:{ a | <a> }; separator="\n">
        self.copyFrom(ctx)

        <getters:{ g | <g> }; separator="\n">

        <dispatchMethods; separator="\n">

>>

```

```

ListenerDispatchMethod(method) ::= <<
def <if(method.isEnter)>enter<else>exit<endif>Rule(self, listener:ParseTreeListener):
  if hasattr( listener, "<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName; format="cap">" ):
    listener.<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName; format="cap">(self)

>>

VisitorDispatchMethod(method) ::= <<
def accept(self, visitor:ParseTreeVisitor):
  if hasattr( visitor, "visit<struct.derivedFromName; format="cap">" ):
    return visitor.visit<struct.derivedFromName; format="cap">(self)
  else:
    return visitor.visitChildren(self)

>>

AttributeDecl(d) ::= "self.<d.name> = <if(d.initValue)><d.initValue><else>None<endif>"

/** If we don't know location of label def x, use this template */
labelref(x) ::= "<if(!x.isLocal)>localctx.<endif><x.name>"

/** For any action chunk, what is correctly-typed context struct ptr? */
ctx(actionChunk) ::= "localctx"

// used for left-recursive rules
recRuleAltPredicate(ruleName,opPrec) ::= "self.precpred(self._ctx, <opPrec>)"
recRuleSetReturnAction(src,name) ::= "$<name>=<src>.<name>"
recRuleSetStopToken() ::= "self._ctx.stop = self._input.LT(-1)"

recRuleAltStartAction(ruleName, ctxName, label) ::= <<
localctx = <parser.name>.<ctxName>Context(self, _parentctx, _parentState)
<if(label)>localctx.<label> = _prevctx<endif>
self.pushNewRecursionContext(localctx, _startState, self.RULE_<ruleName>)
>>

recRuleLabeledAltStartAction(ruleName, currentAltLabel, label, isListLabel) ::= <<
localctx = <parser.name>.<currentAltLabel; format="cap">Context(self, <parser.name>.<ruleName;
format="cap">Context(self, _parentctx, _parentState))
<if(label)>
<if(isListLabel)>
localctx.<label>.append(_prevctx)
<else>
localctx.<label> = _prevctx
<endif>
<endif>
self.pushNewRecursionContext(localctx, _startState, self.RULE_<ruleName>)
>>

```

```

recRuleReplaceContext(ctxName) ::= <<
localctx = <parser.name>.<ctxName>Context(self, localctx)
self._ctx = localctx
_prevctx = localctx
>>

```

```

recRuleSetPrevCtx() ::= <<
if self._parseListeners is not None:
    self.triggerExitRuleEvent()
_prevctx = localctx
>>

```

```

LexerFile(lexerFile, lexer, namedActions) ::= <<
<fileHeader(lexerFile.grammarFileName, lexerFile.ANTLRVersion)>
from antlr4 import *
from io import StringIO

```

```

<namedActions.header>

```

```

<lexer>
>>

```

```

Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<

```

```

<atn>

```

```

class <lexer.name>(<if(superClass)><superClass><else>Lexer<endif>):

```

```

    atn = ATNDeserializer().deserialize(serializedATN())

```

```

    decisionsToDFA = [ DFA(ds, i) for i, ds in enumerate(atn.decisionToState) ]

```

```

    <rest(lexer.modes):{m| <m> = <i>}; separator="\n">

```

```

    <lexer.tokens:{k | <k> = <lexer.tokens.(k)>}; separator="\n", wrap, anchor>

```

```

    modeNames = [ <lexer.modes:{m| "<m>"}; separator=", ", wrap, anchor> ]

```

```

    literalNames = [ "\<INVALID>",
        <lexer.literalNames:{t | <t>}; separator=", ", wrap, anchor> ]

```

```

    symbolicNames = [ "\<INVALID>",
        <lexer.symbolicNames:{t | <t>}; separator=", ", wrap, anchor> ]

```

```

    ruleNames = [ <lexer.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor> ]

```

```

    grammarFileName = "<lexer.grammarFileName>"

```

```

def __init__(self, input=None):
    super().__init__(input)
    self.checkVersion("<lexerFile.ANTLRVersion>")
    self._interp = LexerATNSimulator(self, self.atn, self.decisionsToDFA, PredictionContextCache())
    self._actions = None
    self._predicates = None

<namedActions.members>

<dumpActions(lexer, "", actionFuncs, sempredFuncs)>

>>

SerializedATN(model) ::= <<
<! only one segment, can be inlined !>

def serializedATN():
    with StringIO() as buf:
        buf.write("<model.serialized; wrap={ }<\n>    buf.write("}>")
        return buf.getvalue()

>>

/** Using a type to init value map, try to init a type; if not in table
 * must be an object, default value is "null".
 */
initValue(typeName) ::= <<
<javaTypeInitMap.(typeName)>
>>

codeFileExtension() ::= ".py"

Found in path(s):
* /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-
jar/org/antlr/v4/tool/templates/codegen/Python3/Python3.stg
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```

```

/** How to generate rules derived from left-recursive rules.
* These rely on recRuleAltPredicate(),
* recRuleArg(), recRuleSetResultAction(), recRuleSetReturnAction()
* templates in main language.stg
*/

```

```
group LeftRecursiveRules;
```

```
recRule(ruleName, argName, primaryAlts, opAlts, setResultAction,
        userRetvals, leftRecursiveRuleRefLabels) ::=
```

```

<<
<ruleName><if(userRetvals)> returns [<userRetvals>]<endif>
: ( { } <primaryAlts:{ alt | <alt.altText> }; separator="\n | ">
  )
  (
    <opAlts; separator="\n | ">
  )*
;
>>

```

```

recRuleAlt(alt, precOption, opPrec, pred) ::= <<
{<pred>}?<<precOption>=<opPrec>> <alt.altText>
>>

```

Found in path(s):

```

* /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-
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* /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-jar/org/antlr/v4/parse/GrammarTreeVisitor.java

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*/

/*

This file contains the actual layout of the messages emitted by ANTLR.

This file contains the default format ANTLR uses.

*/

location(file, line, column) ::= "<file>:<line>:<column>:"

message(id, text) ::= "<id> <text>"

report(location, message, type) ::= "<type>(<message.id>): <location> <message.text>"

wantsSingleLineMessage() ::= "false"

Found in path(s):

* /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-jar/org/antlr/v4/tool/templates/messages/formats/antlr.stg

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The text itself is coming out of the languages/*stg files, according to the chosen locale.

This file contains the format that mimicks GCC output.

*/

location(file, line, column) ::= "<file>:<line>:"

message(id, text) ::= "<text> (<id>)"

report(location, message, type) ::= "<location> <type>: <message>"

wantsSingleLineMessage() ::= "true"

Found in path(s):

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*/

```

tree grammar SourceGenTriggers;
options {
    language    = Java;
    tokenVocab  = ANTLRParser;
    ASTLabelType = GrammarAST;
}

@header {
package organtlr.v4.codegen;
import organtlr.v4.misc.Utils;
import organtlr.v4.codegen.model.*;
import organtlr.v4.codegen.model.decl.*;
import organtlr.v4.tool.*;
import organtlr.v4.tool.ast.*;
import java.util.Collections;
import java.util.Map;
import java.util.HashMap;
}

@members {
public OutputModelController controller;
    public boolean hasLookaheadBlock;
    public SourceGenTriggers(TreeNodeStream input, OutputModelController controller) {
        this(input);
        this.controller = controller;
    }
}

dummy : block[null, null] ;

block[GrammarAST label, GrammarAST ebfnRoot] returns [List<? extends SrcOp> omos]
: ^( blk=BLOCK (^ (OPTIONS .+))?
{List<CodeBlockForAlt> alts = new ArrayList<CodeBlockForAlt>();}
( alternative {alts.add($alternative.altCodeBlock);} )+
)
{
if ( alts.size()==1 && ebfnRoot==null) return alts;
if ( ebfnRoot==null ) {
    $omos = DefaultOutputModelFactory.list(controller.getChoiceBlock((BlockAST)$blk, alts, $label));
}
else {
    Choice choice = controller.getEBNFBlock($ebfnRoot, alts);
    hasLookaheadBlock |= choice instanceof PlusBlock || choice instanceof StarBlock;
    $omos = DefaultOutputModelFactory.list(choice);
}
}
;

```


alternative returns [CodeBlockForAlt altCodeBlock, List<SrcOp> ops]

```
@init {
  boolean outerMost = inContext("RULE BLOCK");
}
@after {
  controller.finishAlternative($altCodeBlock, $ops, outerMost);
}
: a=alt[outerMost] {$altCodeBlock=$a.altCodeBlock; $ops=$a.ops;}
;
```

alt[boolean outerMost] returns [CodeBlockForAlt altCodeBlock, List<SrcOp> ops]

```
@init {
  // set alt if outer ALT only (the only ones with alt field set to Alternative object)
  AltAST altAST = (AltAST)retval.start;
  if ( outerMost ) controller.setCurrentOuterMostAlt(altAST.alt);
}
: {
  List<SrcOp> elems = new ArrayList<SrcOp>();
  // TODO: shouldn't we pass $start to controller.alternative()?
  $altCodeBlock = controller.alternative(controller.getCurrentOuterMostAlt(), outerMost);
  $altCodeBlock.ops = $ops = elems;
  controller.setCurrentBlock($altCodeBlock);
}
^( ALT elementOptions? ( element {if ($element.omos!=null) elems.addAll($element.omos);} )+ )

| ^(ALT elementOptions? EPSILON)
  {$altCodeBlock = controller.epsilon(controller.getCurrentOuterMostAlt(), outerMost);}
;
```

element returns [List<? extends SrcOp> omos]

```
: labeledElement {$omos = $labeledElement.omos;}
| atom[null,false] {$omos = $atom.omos;}
| subrule {$omos = $subrule.omos;}
| ACTION {$omos = controller.action((ActionAST)$ACTION);}
| SEMPRED {$omos = controller.sempred((ActionAST)$SEMPRED);}
| ^(ACTION elementOptions) {$omos = controller.action((ActionAST)$ACTION);}
| ^(SEMPRED elementOptions) {$omos = controller.sempred((ActionAST)$SEMPRED);}
;
```

labeledElement returns [List<? extends SrcOp> omos]

```
: ^(ASSIGN ID atom[$ID,false] ) {$omos = $atom.omos;}
| ^(PLUS_ASSIGN ID atom[$ID,false] ) {$omos = $atom.omos;}
| ^(ASSIGN ID block[$ID,null] ) {$omos = $block.omos;}
| ^(PLUS_ASSIGN ID block[$ID,null] ) {$omos = $block.omos;}
;
```

subrule returns [List<? extends SrcOp> omos]

```

: ^(OPTIONAL b=block[null,$OPTIONAL])
{
  $omos = $block.omos;
}
| ( ^(op=CLOSURE b=block[null,null])
| ^(op=POSITIVE_CLOSURE b=block[null,null])
)
{
  List<CodeBlockForAlt> alts = new ArrayList<CodeBlockForAlt>();
  SrcOp blk = $b.omos.get(0);
  CodeBlockForAlt alt = new CodeBlockForAlt(controller.delegate);
  alt.addOp(blk);
  alts.add(alt);
  SrcOp loop = controller.getEBNFBlock($op, alts); // "star it"
  hasLookaheadBlock |= loop instanceof PlusBlock || loop instanceof StarBlock;
  $omos = DefaultOutputModelFactory.list(loop);
}
| block[null, null]  {$omos = $block.omos;}
;

blockSet[GrammarAST label, boolean invert] returns [List<SrcOp> omos]
: ^(SET atom[label,invert]+) {$omos = controller.set($SET, $label, invert);}
;

/*
setElement
: STRING_LITERAL
| TOKEN_REF
| ^(RANGE STRING_LITERAL STRING_LITERAL)
;
*/

// TODO: combine ROOT/BANG into one then just make new op ref'ing return value of atom/terminal...
// TODO: same for NOT
atom[GrammarAST label, boolean invert] returns [List<SrcOp> omos]
: ^(NOT a=atom[$label, true]) {$omos = $a.omos;}
| range[label]  {$omos = $range.omos;}
| ^(DOT ID terminal[$label])
| ^(DOT ID ruleref[$label])
| ^(WILDCARD .)  {$omos = controller.wildcard($WILDCARD, $label);}
| WILDCARD      {$omos = controller.wildcard($WILDCARD, $label);}
| terminal[label] {$omos = $terminal.omos;}
| ruleref[label]  {$omos = $ruleref.omos;}
| blockSet[$label, invert] {$omos = $blockSet.omos;}
;

ruleref[GrammarAST label] returns [List<SrcOp> omos]
: ^(RULE_REF ARG_ACTION? elementOptions?) {$omos = controller.ruleRef($RULE_REF, $label,

```

```
$ARG_ACTION);}
```

```
;
```

```
range[GrammarAST label] returns [List<SrcOp> omos]
```

```
: ^(RANGE a=STRING_LITERAL b=STRING_LITERAL)
```

```
;
```

```
terminal[GrammarAST label] returns [List<SrcOp> omos]
```

```
: ^(STRING_LITERAL .) {$omos = controller.stringRef($STRING_LITERAL, $label);}
```

```
| STRING_LITERAL {$omos = controller.stringRef($STRING_LITERAL, $label);}
```

```
| ^(TOKEN_REF ARG_ACTION .) {$omos = controller.tokenRef($TOKEN_REF, $label, $ARG_ACTION);}
```

```
| ^(TOKEN_REF .) {$omos = controller.tokenRef($TOKEN_REF, $label, null);}
```

```
| TOKEN_REF {$omos = controller.tokenRef($TOKEN_REF, $label, null);}
```

```
;
```

```
elementOptions
```

```
: ^(ELEMENT_OPTIONS elementOption+)
```

```
;
```

```
elementOption
```

```
: ID
```

```
| ^(ASSIGN ID ID)
```

```
| ^(ASSIGN ID STRING_LITERAL)
```

```
| ^(ASSIGN ID ACTION)
```

```
| ^(ASSIGN ID INT)
```

```
;
```

Found in path(s):

```
* /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-jar/org/antlr/v4/codegen/SourceGenTriggers.g
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```

```
*/
```

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```
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```

```
* /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-jar/org/antlr/v4/gui/SystemFontMetrics.java
```

```
* /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-jar/org/antlr/v4/codegen/model/chunk/SetAttr.java
```

```
* /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-jar/org/antlr/v4/codegen/model/chunk/ThisRulePropertyRef_text.java
```

```
* /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-jar/org/antlr/v4/codegen/model/MatchToken.java
```

```
* /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-jar/org/antlr/v4/codegen/model/decl/AltLabelStructDecl.java
```

* /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-jar/org/antlr/v4/codegen/target/CSharpTarget.java
* /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-jar/org/antlr/v4/codegen/model/Sync.java
* /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef_int.java
* /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-jar/org/antlr/v4/automata/ATNVisitor.java
* /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-jar/org/antlr/v4/codegen/model/StarBlock.java
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- * /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-jar/org/antlr/v4/automata/ATNPrinter.java
- * /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-jar/org/antlr/v4/parse/TokenVocabParser.java
- * /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-jar/org/antlr/v4/tool/DefaultToolListener.java
- * /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-jar/org/antlr/v4/tool/ast/GrammarASTWithOptions.java
- * /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-jar/org/antlr/v4/automata/ParserATNFactory.java
- * /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-jar/org/antlr/v4/tool/LabelElementPair.java
- * /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-jar/org/antlr/v4/codegen/target/JavaTarget.java
- * /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-jar/org/antlr/v4/codegen/model/LL1Choice.java
- * /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-jar/org/antlr/v4/codegen/model/LL1Loop.java
- * /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-jar/org/antlr/v4/codegen/model/LL1AltBlock.java
- * /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-jar/org/antlr/v4/tool/AttributeDict.java
- * /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-jar/org/antlr/v4/Tool.java
- * /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-jar/org/antlr/v4/misc/Utils.java
- * /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-jar/org/antlr/v4/tool/GrammarSyntaxMessage.java
- * /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-jar/org/antlr/v4/codegen/model/ThrowRecognitionException.java
- * /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-jar/org/antlr/v4/tool/LexerGrammar.java
- * /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-jar/org/antlr/v4/codegen/model/ExceptionClause.java
- * /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-jar/org/antlr/v4/automata/ATNFactory.java
- * /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-jar/org/antlr/v4/codegen/model/BaseListenerFile.java
- * /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-jar/org/antlr/v4/codegen/model/ThrowEarlyExitException.java
- * /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-jar/org/antlr/v4/tool/ast/BlockAST.java
- * /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-jar/org/antlr/v4/tool/Grammar.java
- * /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-jar/org/antlr/v4/codegen/model/chunk/RulePropertyRef_parser.java
- * /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-jar/org/antlr/v4/tool/GrammarInterpreterRuleContext.java
- * /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-jar/org/antlr/v4/codegen/model/decl/RuleContextDecl.java
- * /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-jar/org/antlr/v4/codegen/model/chunk/RulePropertyRef_start.java
- * /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-

jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef.java
 * /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-jar/org/antlr/v4/gui/TreeTextProvider.java
 * /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-jar/org/antlr/v4/codegen/model/decl/ContextTokenListGetterDecl.java
 * /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-jar/org/antlr/v4/codegen/model/decl/ContextTokenGetterDecl.java
 * /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-jar/org/antlr/v4/codegen/model/LL1OptionalBlock.java
 * /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-jar/org/antlr/v4/codegen/model/decl/TokenListDecl.java
 * /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-jar/org/antlr/v4/tool/ast/ActionAST.java
 * /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-jar/org/antlr/v4/codegen/model/chunk/ArgRef.java
 * /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-jar/org/antlr/v4/codegen/model/Loop.java
 * /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-jar/org/antlr/v4/codegen/model/decl/ContextGetterDecl.java
 * /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-jar/org/antlr/v4/tool/ErrorMessageManager.java
 * /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-jar/org/antlr/v4/tool/ast/RuleAST.java
 * /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-jar/org/antlr/v4/codegen/model/CodeBlockForAlt.java
 * /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-jar/org/antlr/v4/codegen/model/RuleFunction.java
 * /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-jar/org/antlr/v4/codegen/model/Lexer.java
 * /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-jar/org/antlr/v4/tool/ast/PlusBlockAST.java
 * /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-jar/org/antlr/v4/tool/AttributeResolver.java
 * /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-jar/org/antlr/v4/tool/ast/RuleElementAST.java
 * /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-jar/org/antlr/v4/codegen/DefaultOutputModelFactory.java
 * /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-jar/org/antlr/v4/gui/TestRig.java
 * /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-jar/org/antlr/v4/codegen/target/SwiftTarget.java
 * /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-jar/org/antlr/v4/codegen/model/chunk/SetNonLocalAttr.java
 * /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-jar/org/antlr/v4/codegen/model/chunk/NonLocalAttrRef.java
 * /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-jar/org/antlr/v4/tool/Attribute.java
 * /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-jar/org/antlr/v4/codegen/model/chunk/ListLabelRef.java
 * /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef_text.java
 * /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-jar/org/antlr/v4/codegen/model/PlusBlock.java
 * /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-jar/org/antlr/v4/codegen/model/decl/StructDecl.java
 * /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-jar/org/antlr/v4/tool/ast/PredAST.java
 * /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-jar/org/antlr/v4/codegen/LexerFactory.java
 * /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-

```
jar/org/antlr/v4/codegen/model/OutputModelObject.java
* /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-jar/org/antlr/v4/tool/LeftRecursiveRule.java
* /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-
jar/org/antlr/v4/tool/GrammarSemanticsMessage.java
* /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-
jar/org/antlr/v4/codegen/model/chunk/ThisRulePropertyRef_stop.java
* /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-
jar/org/antlr/v4/codegen/model/LL1OptionalBlockSingleAlt.java
* /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-
jar/org/antlr/v4/codegen/model/decl/ContextRuleListGetterDecl.java
* /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-jar/org/antlr/v4/automata/ATNOptimizer.java
* /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-
jar/org/antlr/v4/codegen/model/chunk/ActionChunk.java
* /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-jar/org/antlr/v4/codegen/model/Parser.java
* /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-jar/org/antlr/v4/semantics/ActionSniffer.java
* /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-
jar/org/antlr/v4/codegen/model/LeftRecursiveRuleFunction.java
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* (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
* THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/
```

```
/** templates used to generate make-compatible dependencies */
```

```
/** Generate "f : x, y, z" dependencies for input
 * dependencies and generated files. in and out
 * are File objects. For example, you can say
 * <f.canonicalPath>
 */
dependencies(grammarFileName,in,out) ::= <<
<if(in)><grammarFileName>: <in; separator=", "><endif>
<out:{f | <f> : <grammarFileName>}; separator="\n">
>>
```

Found in path(s):

[/opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-jar/org/antlr/v4/tool/templates/depend.stg](#)

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```
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 * (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 * THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
 */
```

```
/** The definitive ANTLR v3 tree grammar to walk/visit ANTLR v4 grammars.
```

```

* Parses trees created by ANTLRParser.g.
*
* Rather than have multiple tree grammars, one for each visit, I'm
* creating this generic visitor that knows about context. All of the
* boilerplate pattern recognition is done here. Then, subclasses can
* override the methods they care about. This prevents a lot of the same
* context tracking stuff like "set current alternative for current
* rule node" that is repeated in lots of tree filters.
*/

```

```

tree grammar GrammarTreeVisitor;
options {
    language    = Java;
    tokenVocab  = ANTLRParser;
    ASTLabelType = GrammarAST;
}

```

```

// Include the copyright in this source and also the generated source
@header {
/*
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```

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```

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THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

```

```

*/
package org.antlr.v4.parse;
import org.antlr.v4.Tool;

```

```

import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
import java.lang.reflect.InvocationTargetException;
import java.lang.reflect.Method;
}

@members {
public String grammarName;
public GrammarAST currentRuleAST;
public String currentModeName = LexerGrammar.DEFAULT_MODE_NAME;
public String currentRuleName;
public GrammarAST currentOuterAltRoot;
public int currentOuterAltNumber = 1; // 1..n
public int rewriteEBNFLevel = 0;

public GrammarTreeVisitor() { this(null); }

// Should be abstract but can't make gen'd parser abstract;
// subclasses should implement else everything goes to stderr!
public ErrorManager getErrorManager() { return null; }

public void visitGrammar(GrammarAST t) { visit(t, "grammarSpec"); }
public void visit(GrammarAST t, String ruleName) {
    CommonTreeNodeStream nodes = new CommonTreeNodeStream(new GrammarASTAdaptor(), t);
    setTreeNodeStream(nodes);
    try {
        Method m = getClass().getMethod(ruleName);
        m.invoke(this);
    }
    catch (Throwable e) {
        ErrorManager errMgr = getErrorManager();
        if ( e instanceof InvocationTargetException ) {
            e = e.getCause();
        }
        //e.printStackTrace(System.err);
        if ( errMgr==null ) {
            System.err.println("can't find rule "+ruleName+
                " or tree structure error: "+t.toStringTree()
            );
            e.printStackTrace(System.err);
        }
        else errMgr.toolError(ErrorType.INTERNAL_ERROR, e);
    }
}

public void discoverGrammar(GrammarRootAST root, GrammarAST ID) { }
public void finishPrequels(GrammarAST firstPrequel) { }
public void finishGrammar(GrammarRootAST root, GrammarAST ID) { }

```

```

public void grammarOption(GrammarAST ID, GrammarAST valueAST) { }
public void ruleOption(GrammarAST ID, GrammarAST valueAST) { }
public void blockOption(GrammarAST ID, GrammarAST valueAST) { }
public void defineToken(GrammarAST ID) { }
public void defineChannel(GrammarAST ID) { }
public void globalNamedAction(GrammarAST scope, GrammarAST ID, ActionAST action) { }
public void importGrammar(GrammarAST label, GrammarAST ID) { }

public void modeDef(GrammarAST m, GrammarAST ID) { }

public void discoverRules(GrammarAST rules) { }
public void finishRules(GrammarAST rule) { }
public void discoverRule(RuleAST rule, GrammarAST ID, List<GrammarAST> modifiers,
    ActionAST arg, ActionAST returns, GrammarAST thrws,
    GrammarAST options, ActionAST locals,
    List<GrammarAST> actions,
    GrammarAST block) { }
public void finishRule(RuleAST rule, GrammarAST ID, GrammarAST block) { }
public void discoverLexerRule(RuleAST rule, GrammarAST ID, List<GrammarAST> modifiers,
    GrammarAST block) { }
public void finishLexerRule(RuleAST rule, GrammarAST ID, GrammarAST block) { }
public void ruleCatch(GrammarAST arg, ActionAST action) { }
public void finallyAction(ActionAST action) { }
public void discoverOuterAlt(AltAST alt) { }
public void finishOuterAlt(AltAST alt) { }
public void discoverAlt(AltAST alt) { }
public void finishAlt(AltAST alt) { }

public void ruleRef(GrammarAST ref, ActionAST arg) { }
public void tokenRef(TerminalAST ref) { }
public void elementOption(GrammarASTWithOptions t, GrammarAST ID, GrammarAST valueAST) { }
public void stringRef(TerminalAST ref) { }
public void wildcardRef(GrammarAST ref) { }
public void actionInAlt(ActionAST action) { }
public void sempredInAlt(PredAST pred) { }
public void label(GrammarAST op, GrammarAST ID, GrammarAST element) { }
public void lexerCallCommand(int outerAltNumber, GrammarAST ID, GrammarAST arg) { }
public void lexerCommand(int outerAltNumber, GrammarAST ID) { }

protected void enterGrammarSpec(GrammarAST tree) { }
protected void exitGrammarSpec(GrammarAST tree) { }

protected void enterPrequelConstructs(GrammarAST tree) { }
protected void exitPrequelConstructs(GrammarAST tree) { }

protected void enterPrequelConstruct(GrammarAST tree) { }
protected void exitPrequelConstruct(GrammarAST tree) { }

```

```
protected void enterOptionsSpec(GrammarAST tree) { }
protected void exitOptionsSpec(GrammarAST tree) { }

protected void enterOption(GrammarAST tree) { }
protected void exitOption(GrammarAST tree) { }

protected void enterOptionValue(GrammarAST tree) { }
protected void exitOptionValue(GrammarAST tree) { }

protected void enterDelegateGrammars(GrammarAST tree) { }
protected void exitDelegateGrammars(GrammarAST tree) { }

protected void enterDelegateGrammar(GrammarAST tree) { }
protected void exitDelegateGrammar(GrammarAST tree) { }

protected void enterTokensSpec(GrammarAST tree) { }
protected void exitTokensSpec(GrammarAST tree) { }

protected void enterTokenSpec(GrammarAST tree) { }
protected void exitTokenSpec(GrammarAST tree) { }

protected void enterChannelsSpec(GrammarAST tree) { }
protected void exitChannelsSpec(GrammarAST tree) { }

protected void enterChannelSpec(GrammarAST tree) { }
protected void exitChannelSpec(GrammarAST tree) { }

protected void enterAction(GrammarAST tree) { }
protected void exitAction(GrammarAST tree) { }

protected void enterRules(GrammarAST tree) { }
protected void exitRules(GrammarAST tree) { }

protected void enterMode(GrammarAST tree) { }
protected void exitMode(GrammarAST tree) { }

protected void enterLexerRule(GrammarAST tree) { }
protected void exitLexerRule(GrammarAST tree) { }

protected void enterRule(GrammarAST tree) { }
protected void exitRule(GrammarAST tree) { }

protected void enterExceptionGroup(GrammarAST tree) { }
protected void exitExceptionGroup(GrammarAST tree) { }

protected void enterExceptionHandler(GrammarAST tree) { }
protected void exitExceptionHandler(GrammarAST tree) { }
```



```
protected void enterFinallyClause(GrammarAST tree) { }
protected void exitFinallyClause(GrammarAST tree) { }
```

```
protected void enterLocals(GrammarAST tree) { }
protected void exitLocals(GrammarAST tree) { }
```

```
protected void enterRuleReturns(GrammarAST tree) { }
protected void exitRuleReturns(GrammarAST tree) { }
```

```
protected void enterThrowsSpec(GrammarAST tree) { }
protected void exitThrowsSpec(GrammarAST tree) { }
```

```
protected void enterRuleAction(GrammarAST tree) { }
protected void exitRuleAction(GrammarAST tree) { }
```

```
protected void enterRuleModifier(GrammarAST tree) { }
protected void exitRuleModifier(GrammarAST tree) { }
```

```
protected void enterLexerRuleBlock(GrammarAST tree) { }
protected void exitLexerRuleBlock(GrammarAST tree) { }
```

```
protected void enterRuleBlock(GrammarAST tree) { }
protected void exitRuleBlock(GrammarAST tree) { }
```

```
protected void enterLexerOuterAlternative(AltAST tree) { }
protected void exitLexerOuterAlternative(AltAST tree) { }
```

```
protected void enterOuterAlternative(AltAST tree) { }
protected void exitOuterAlternative(AltAST tree) { }
```

```
protected void enterLexerAlternative(GrammarAST tree) { }
protected void exitLexerAlternative(GrammarAST tree) { }
```

```
protected void enterLexerElements(GrammarAST tree) { }
protected void exitLexerElements(GrammarAST tree) { }
```

```
protected void enterLexerElement(GrammarAST tree) { }
protected void exitLexerElement(GrammarAST tree) { }
```

```
protected void enterLabeledLexerElement(GrammarAST tree) { }
protected void exitLabeledLexerElement(GrammarAST tree) { }
```

```
protected void enterLexerBlock(GrammarAST tree) { }
protected void exitLexerBlock(GrammarAST tree) { }
```

```
protected void enterLexerAtom(GrammarAST tree) { }
protected void exitLexerAtom(GrammarAST tree) { }
```

```
protected void enterActionElement(GrammarAST tree) { }  
protected void exitActionElement(GrammarAST tree) { }
```

```
protected void enterAlternative(AltAST tree) { }  
protected void exitAlternative(AltAST tree) { }
```

```
protected void enterLexerCommand(GrammarAST tree) { }  
protected void exitLexerCommand(GrammarAST tree) { }
```

```
protected void enterLexerCommandExpr(GrammarAST tree) { }  
protected void exitLexerCommandExpr(GrammarAST tree) { }
```

```
protected void enterElement(GrammarAST tree) { }  
protected void exitElement(GrammarAST tree) { }
```

```
protected void enterAstOperand(GrammarAST tree) { }  
protected void exitAstOperand(GrammarAST tree) { }
```

```
protected void enterLabeledElement(GrammarAST tree) { }  
protected void exitLabeledElement(GrammarAST tree) { }
```

```
protected void enterSubrule(GrammarAST tree) { }  
protected void exitSubrule(GrammarAST tree) { }
```

```
protected void enterLexerSubrule(GrammarAST tree) { }  
protected void exitLexerSubrule(GrammarAST tree) { }
```

```
protected void enterBlockSuffix(GrammarAST tree) { }  
protected void exitBlockSuffix(GrammarAST tree) { }
```

```
protected void enterEbnfSuffix(GrammarAST tree) { }  
protected void exitEbnfSuffix(GrammarAST tree) { }
```

```
protected void enterAtom(GrammarAST tree) { }  
protected void exitAtom(GrammarAST tree) { }
```

```
protected void enterBlockSet(GrammarAST tree) { }  
protected void exitBlockSet(GrammarAST tree) { }
```

```
protected void enterSetElement(GrammarAST tree) { }  
protected void exitSetElement(GrammarAST tree) { }
```

```
protected void enterBlock(GrammarAST tree) { }  
protected void exitBlock(GrammarAST tree) { }
```

```
protected void enterRuleref(GrammarAST tree) { }  
protected void exitRuleref(GrammarAST tree) { }
```

```

protected void enterRange(GrammarAST tree) { }
protected void exitRange(GrammarAST tree) { }

protected void enterTerminal(GrammarAST tree) { }
protected void exitTerminal(GrammarAST tree) { }

protected void enterElementOptions(GrammarAST tree) { }
protected void exitElementOptions(GrammarAST tree) { }

protected void enterElementOption(GrammarAST tree) { }
protected void exitElementOption(GrammarAST tree) { }

@Override
public void traceIn(String ruleName, int ruleIndex) {
    System.err.println("enter "+ruleName+": "+input.LT(1));
}

@Override
public void traceOut(String ruleName, int ruleIndex) {
    System.err.println("exit "+ruleName+": "+input.LT(1));
}

grammarSpec
@init {
    enterGrammarSpec($start);
}
@after {
    exitGrammarSpec($start);
}
: ^( GRAMMAR ID {grammarName=$ID.text;}
    {discoverGrammar((GrammarRootAST)$GRAMMAR, $ID);}
    prequelConstructs
    {finishPrequels($prequelConstructs.firstOne);}
    rules mode*
    {finishGrammar((GrammarRootAST)$GRAMMAR, $ID);}
)
;

prequelConstructs returns [GrammarAST firstOne=null]
@init {
    enterPrequelConstructs($start);
}
@after {
    exitPrequelConstructs($start);
}
: {$firstOne=$start;} prequelConstruct+

```

```

|
;

prequelConstruct
@init {
  enterPrequelConstructs($start);
}
@after {
  exitPrequelConstructs($start);
}
: optionsSpec
  | delegateGrammars
  | tokensSpec
  | channelsSpec
  | action
;

optionsSpec
@init {
  enterOptionsSpec($start);
}
@after {
  exitOptionsSpec($start);
}
: ^(OPTIONS option*)
;

option
@init {
  enterOption($start);
  boolean rule = inContext("RULE ...");
  boolean block = inContext("BLOCK ...");
}
@after {
  exitOption($start);
}
: ^(a=ASSIGN ID v=optionValue)
  {
  if ( block ) blockOption($ID, $v.start); // most specific first
  else if ( rule ) ruleOption($ID, $v.start);
  else grammarOption($ID, $v.start);
  }
;

optionValue returns [String v]
@init {
  enterOptionValue($start);
  $v = $start.token.getText();
}

```

```

}
@after {
  exitOptionValue($start);
}
: ID
| STRING_LITERAL
| INT
;

```

```

delegateGrammars
@init {
  enterDelegateGrammars($start);
}
@after {
  exitDelegateGrammars($start);
}
: ^(IMPORT delegateGrammar+)
;

```

```

delegateGrammar
@init {
  enterDelegateGrammar($start);
}
@after {
  exitDelegateGrammar($start);
}
: ^(ASSIGN label=ID id=ID) {importGrammar($label, $id);}
| id=ID {importGrammar(null, $id);}
;

```

```

tokensSpec
@init {
  enterTokensSpec($start);
}
@after {
  exitTokensSpec($start);
}
: ^(TOKENS_SPEC tokenSpec+)
;

```

```

tokenSpec
@init {
  enterTokenSpec($start);
}
@after {
  exitTokenSpec($start);
}
: ID {defineToken($ID);}

```

```

;

channelsSpec
@init {
  enterChannelsSpec($start);
}
@after {
  exitChannelsSpec($start);
}
: ^(CHANNELS channelSpec+)
;

channelSpec
@init {
  enterChannelSpec($start);
}
@after {
  exitChannelSpec($start);
}
: ID {defineChannel($ID);}
;

action
@init {
  enterAction($start);
}
@after {
  exitAction($start);
}
: ^(AT sc=ID? name=ID ACTION) {globalNamedAction($sc, $name, (ActionAST)$ACTION);}
;

rules
@init {
  enterRules($start);
}
@after {
  exitRules($start);
}
: ^(RULES {discoverRules($RULES);} (rule|lexerRule)* {finishRules($RULES);})
;

mode
@init {
  enterMode($start);
}
@after {
  exitMode($start);
}

```

```

}
: ^( MODE ID {currentModeName=$ID.text; modeDef($MODE, $ID);} lexerRule* )
;

lexerRule
@init {
enterLexerRule($start);
List<GrammarAST> mods = new ArrayList<GrammarAST>();
currentOuterAltNumber=0;
}
@after {
exitLexerRule($start);
}
: ^( RULE TOKEN_REF
{currentRuleName=$TOKEN_REF.text; currentRuleAST=$RULE;}
(^(RULEMODIFIERS m=FRAGMENT {mods.add($m);}))?
{discoverLexerRule((RuleAST)$RULE, $TOKEN_REF, mods, (GrammarAST)input.LT(1));}
lexerRuleBlock
{
finishLexerRule((RuleAST)$RULE, $TOKEN_REF, $lexerRuleBlock.start);
currentRuleName=null; currentRuleAST=null;
}
)
;

rule
@init {
enterRule($start);
List<GrammarAST> mods = new ArrayList<GrammarAST>();
List<GrammarAST> actions = new ArrayList<GrammarAST>(); // track roots
currentOuterAltNumber=0;
}
@after {
exitRule($start);
}
: ^( RULE RULE_REF {currentRuleName=$RULE_REF.text; currentRuleAST=$RULE;}
(^(RULEMODIFIERS (m=ruleModifier{mods.add($m.start);})+))?
ARG_ACTION?
ret=ruleReturns?
thr=throwsSpec?
loc=locals?
( opts=optionsSpec
| a=ruleAction {actions.add($a.start);}
)*
{discoverRule((RuleAST)$RULE, $RULE_REF, mods, (ActionAST)$ARG_ACTION,
$ret.start!=null?(ActionAST)$ret.start.getChild(0):null,
$thr.start, $opts.start,
$loc.start!=null?(ActionAST)$loc.start.getChild(0):null,

```

```

        actions, (GrammarAST)input.LT(1));}
ruleBlock exceptionGroup
{finishRule((RuleAST)$RULE, $RULE_REF, $ruleBlock.start); currentRuleName=null; currentRuleAST=null;}
)
;

exceptionGroup
@init {
enterExceptionGroup($start);
}
@after {
exitExceptionGroup($start);
}
: exceptionHandler* finallyClause?
;

exceptionHandler
@init {
enterExceptionHandler($start);
}
@after {
exitExceptionHandler($start);
}
: ^(CATCH ARG_ACTION ACTION) {ruleCatch($ARG_ACTION, (ActionAST)$ACTION);}
;

finallyClause
@init {
enterFinallyClause($start);
}
@after {
exitFinallyClause($start);
}
: ^(FINALLY ACTION) {finallyAction((ActionAST)$ACTION);}
;

locals
@init {
enterLocals($start);
}
@after {
exitLocals($start);
}
: ^(LOCALS ARG_ACTION)
;

ruleReturns
@init {

```



```
enterRuleReturns($start);
}
@after {
exitRuleReturns($start);
}
: ^(RETURNS ARG_ACTION)
;
```

```
throwsSpec
@init {
enterThrowsSpec($start);
}
@after {
exitThrowsSpec($start);
}
: ^(THROWS ID+)
;
```

```
ruleAction
@init {
enterRuleAction($start);
}
@after {
exitRuleAction($start);
}
: ^(AT ID ACTION)
;
```

```
ruleModifier
@init {
enterRuleModifier($start);
}
@after {
exitRuleModifier($start);
}
: PUBLIC
| PRIVATE
| PROTECTED
| FRAGMENT
;
```

```
lexerRuleBlock
@init {
enterLexerRuleBlock($start);
}
@after {
exitLexerRuleBlock($start);
}
}
```

```

: ^( BLOCK
  ( {
    currentOuterAltRoot = (GrammarAST)input.LT(1);
    currentOuterAltNumber++;
  }
  lexerOuterAlternative
)+
)
;

```

```

ruleBlock
@init {
  enterRuleBlock($start);
}
@after {
  exitRuleBlock($start);
}
: ^( BLOCK
  ( {
    currentOuterAltRoot = (GrammarAST)input.LT(1);
    currentOuterAltNumber++;
  }
  outerAlternative
)+
)
;

```

```

lexerOuterAlternative
@init {
  enterLexerOuterAlternative((AltAST)$start);
  discoverOuterAlt((AltAST)$start);
}
@after {
  finishOuterAlt((AltAST)$start);
  exitLexerOuterAlternative((AltAST)$start);
}
: lexerAlternative
;

```

```

outerAlternative
@init {
  enterOuterAlternative((AltAST)$start);
  discoverOuterAlt((AltAST)$start);
}
@after {
  finishOuterAlt((AltAST)$start);
  exitOuterAlternative((AltAST)$start);
}

```

```

}
: alternative
;

lexerAlternative
@init {
enterLexerAlternative($start);
}
@after {
exitLexerAlternative($start);
}
: ^(LEXER_ALT_ACTION lexerElements lexerCommand+)
| lexerElements
;

lexerElements
@init {
enterLexerElements($start);
}
@after {
exitLexerElements($start);
}
: ^(ALT lexerElement+)
;

lexerElement
@init {
enterLexerElement($start);
}
@after {
exitLexerElement($start);
}
: labeledLexerElement
| lexerAtom
| lexerSubrule
| ACTION {actionInAlt((ActionAST)$ACTION);}
| SEMPRED {sempredInAlt((PredAST)$SEMPRED);}
| ^(ACTION elementOptions) {actionInAlt((ActionAST)$ACTION);}
| ^(SEMPRED elementOptions) {sempredInAlt((PredAST)$SEMPRED);}
| EPSILON
;

labeledLexerElement
@init {
enterLabeledLexerElement($start);
}
@after {
exitLabeledLexerElement($start);
}

```

```
}  
: ^((ASSIGN|PLUS_ASSIGN) ID (lexerAtom|block))  
;
```

```
lexerBlock  
@init {  
  enterLexerBlock($start);  
}  
@after {  
  exitLexerBlock($start);  
}  
: ^(BLOCK optionsSpec? lexerAlternative+)  
;
```

```
lexerAtom  
@init {  
  enterLexerAtom($start);  
}  
@after {  
  exitLexerAtom($start);  
}  
: terminal  
| ^(NOT blockSet)  
| blockSet  
| ^(WILDCARD elementOptions)  
| WILDCARD  
| LEXER_CHAR_SET  
| range  
| ruleref  
;
```

```
actionElement  
@init {  
  enterActionElement($start);  
}  
@after {  
  exitActionElement($start);  
}  
: ACTION  
| ^(ACTION elementOptions)  
| SEMPRED  
| ^(SEMPRED elementOptions)  
;
```

```
alternative  
@init {  
  enterAlternative((AltAST)$start);  
  discoverAlt((AltAST)$start);  
}
```

```

}
@after {
finishAlt((AltAST)$start);
exitAlternative((AltAST)$start);
}
: ^(ALT elementOptions? element+)
| ^(ALT elementOptions? EPSILON)
;

lexerCommand
@init {
enterLexerCommand($start);
}
@after {
exitLexerCommand($start);
}
: ^(LEXER_ACTION_CALL ID lexerCommandExpr)
  {lexerCallCommand(currentOuterAltNumber, $ID, $lexerCommandExpr.start);}
| ID
  {lexerCommand(currentOuterAltNumber, $ID);}
;

lexerCommandExpr
@init {
enterLexerCommandExpr($start);
}
@after {
exitLexerCommandExpr($start);
}
: ID
| INT
;

element
@init {
enterElement($start);
}
@after {
exitElement($start);
}
: labeledElement
| atom
| subrule
| ACTION    {actionInAlt((ActionAST)$ACTION);}
| SEMPRED   {sempredInAlt((PredAST)$SEMPRED);}
| ^(ACTION elementOptions) {actionInAlt((ActionAST)$ACTION);}
| ^(SEMPRED elementOptions) {sempredInAlt((PredAST)$SEMPRED);}

```

| ^(NOT blockSet)

| ^(NOT block)

;

astOperand

@init {

enterAstOperand(\$start);

}

@after {

exitAstOperand(\$start);

}

: atom

| ^(NOT blockSet)

| ^(NOT block)

;

labeledElement

@init {

enterLabeledElement(\$start);

}

@after {

exitLabeledElement(\$start);

}

: ^((ASSIGN|PLUS_ASSIGN) ID element) {label(\$start, \$ID, \$element.start);}

;

subrule

@init {

enterSubrule(\$start);

}

@after {

exitSubrule(\$start);

}

: ^(blockSuffix block)

| block

;

lexerSubrule

@init {

enterLexerSubrule(\$start);

}

@after {

exitLexerSubrule(\$start);

}

: ^(blockSuffix lexerBlock)

| lexerBlock

;

```

blockSuffix
@init {
  enterBlockSuffix($start);
}
@after {
  exitBlockSuffix($start);
}
: ebnfSuffix
;

```

```

ebnfSuffix
@init {
  enterEbnfSuffix($start);
}
@after {
  exitEbnfSuffix($start);
}
: OPTIONAL
| CLOSURE
| POSITIVE_CLOSURE
;

```

```

atom
@init {
  enterAtom($start);
}
@after {
  exitAtom($start);
}
: ^(DOT ID terminal)
| ^(DOT ID ruleref)
| ^(WILDCARD elementOptions) { wildcardRef($WILDCARD);}
| WILDCARD {wildcardRef($WILDCARD);}
| terminal
| blockSet
| ruleref
;

```

```

blockSet
@init {
  enterBlockSet($start);
}
@after {
  exitBlockSet($start);
}
: ^(SET setElement+)
;

```

```

setElement
@init {
  enterSetElement($start);
}
@after {
  exitSetElement($start);
}
: ^(STRING_LITERAL elementOptions) {stringRef((TerminalAST)$STRING_LITERAL);}
| ^(TOKEN_REF elementOptions) {tokenRef((TerminalAST)$TOKEN_REF);}
| STRING_LITERAL {stringRef((TerminalAST)$STRING_LITERAL);}
| TOKEN_REF {tokenRef((TerminalAST)$TOKEN_REF);}
| ^(RANGE a=STRING_LITERAL b=STRING_LITERAL)
{
  stringRef((TerminalAST)$a);
  stringRef((TerminalAST)$b);
}
| LEXER_CHAR_SET
;

```

```

block
@init {
  enterBlock($start);
}
@after {
  exitBlock($start);
}
: ^(BLOCK optionsSpec? ruleAction* ACTION? alternative+)
;

```

```

ruleref
@init {
  enterRuleref($start);
}
@after {
  exitRuleref($start);
}
: ^(RULE_REF arg=ARG_ACTION? elementOptions?)
{
  ruleRef($RULE_REF, (ActionAST)$ARG_ACTION);
  if ( $arg!=null ) actionInAlt((ActionAST)$arg);
}
;

```

```

range
@init {
  enterRange($start);
}
@after {

```



```

exitRange($start);
}
: ^(RANGE STRING_LITERAL STRING_LITERAL)
;

terminal
@init {
enterTerminal($start);
}
@after {
exitTerminal($start);
}
: ^(STRING_LITERAL elementOptions)
  {stringRef((TerminalAST)$STRING_LITERAL);}
| STRING_LITERAL {stringRef((TerminalAST)$STRING_LITERAL);}
| ^(TOKEN_REF elementOptions) {tokenRef((TerminalAST)$TOKEN_REF);}
| TOKEN_REF {tokenRef((TerminalAST)$TOKEN_REF);}
;

elementOptions
@init {
enterElementOptions($start);
}
@after {
exitElementOptions($start);
}
: ^(ELEMENT_OPTIONS elementOption[(GrammarASTWithOptions)$start.getParent()]*)
;

elementOption[GrammarASTWithOptions t]
@init {
enterElementOption($start);
}
@after {
exitElementOption($start);
}
: ID {elementOption(t, $ID, null);}
| ^(ASSIGN id=ID v=ID) {elementOption(t, $id, $v);}
| ^(ASSIGN ID v=STRING_LITERAL) {elementOption(t, $ID, $v);}
| ^(ASSIGN ID v=ACTION) {elementOption(t, $ID, $v);}
| ^(ASSIGN ID v=INT) {elementOption(t, $ID, $v);}
;

```

Found in path(s):

* /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-jar/org/antlr/v4/parse/GrammarTreeVisitor.g

1.17 txw2-runtime 2.3.5

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1.19 isaacs-once 1.4.0

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1.20 js-traverse 0.3.9

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1.21 parse5 5.1.1

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1.22 d3-polygon v1.0.3

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1.23 aspectj-weaver 1.8.1

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1.24 junit-jupiter-aggregator 5.7.2

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```
import java.io.File
import java.net.URI
```

```
data class License(val name: String, val url: URI, val headerFile: File)
```

```
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```

```
=====
```

```
_Version 2.0, January 2004_
```

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1.25 jackson-core 2.10.0

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1.26 commons-codec 1.9

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1.27 async 2.6.3

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1.28 kerby-xdr-project 1.0.1

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1.29 calvinmetcalf-lie 3.1.1

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1.30 util-deprecate 1.0.2

1.31 apache-zookeeper-jute 3.5.6

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1.32 aws-java-sdk-for-amazon-dynamodb-accelerator-(dax) 1.11.257

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1.33 aws-sdk-for-java-models 1.11.155

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1.37 woden-core 1.0M10

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1.40 d3-scale 2.2.2

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1.43 jackson-xc 2.12.4

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1.45 aws-sdk-for-java-core 1.11.257

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1.46 asm-based-accessors-helper-used-by-json-smart 2.4.2

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1.49 d3-time-format 2.1.1

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1.50 jackson-core 2.9.8

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1.52 path-is-absolute 1.0.1

1.53 slice 0.33

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```

* /opt/cola/permits/1237463047_1638811417.04/0/slice-0-33-sources-jar/io/airlift/slice/SliceOutput.java
* /opt/cola/permits/1237463047_1638811417.04/0/slice-0-33-sources-jar/io/airlift/slice/BasicSliceOutput.java
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jar/io/airlift/slice/OutputStreamSliceOutput.java
* /opt/cola/permits/1237463047_1638811417.04/0/slice-0-33-sources-jar/io/airlift/slice/testing/SliceAssertions.java
* /opt/cola/permits/1237463047_1638811417.04/0/slice-0-33-sources-jar/io/airlift/slice/BasicSliceInput.java
* /opt/cola/permits/1237463047_1638811417.04/0/slice-0-33-sources-
jar/io/airlift/slice/InvalidCodePointException.java
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* /opt/cola/permits/1237463047_1638811417.04/0/slice-0-33-sources-jar/io/airlift/slice/InvalidUtf8Exception.java

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1.54 Iodash 4.17.21

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1.55 apache-commons-cli 1.2

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1.59 d3-time 1.0.8

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1.60 aspectj-weaver 1.9.7

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1.61 aws-sdk-for-java 1.11.257

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1.62 rimraf 2.7.1

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jar/org/apache/commons/chain/Command.java
* /opt/cola/permits/1137272565_1614043347.88/0/commons-chain-1-1-sources-2-
jar/org/apache/commons/chain/Chain.java
* /opt/cola/permits/1137272565_1614043347.88/0/commons-chain-1-1-sources-2-
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jar/org/apache/commons/chain/web/ChainServlet.java
* /opt/cola/permits/1137272565_1614043347.88/0/commons-chain-1-1-sources-2-
jar/org/apache/commons/chain/Context.java
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- * /opt/cola/permits/1137272565_1614043347.88/0/commons-chain-1-1-sources-2-jar/org/apache/commons/chain/web/portlet/PortletApplicationScopeMap.java
- * /opt/cola/permits/1137272565_1614043347.88/0/commons-chain-1-1-sources-2-jar/org/apache/commons/chain/web/faces/FacesGetLocaleCommand.java
- * /opt/cola/permits/1137272565_1614043347.88/0/commons-chain-1-1-sources-2-jar/org/apache/commons/chain/web/portlet/PortletSetLocaleCommand.java
- * /opt/cola/permits/1137272565_1614043347.88/0/commons-chain-1-1-sources-2-jar/org/apache/commons/chain/config/ConfigDefineRule.java
- * /opt/cola/permits/1137272565_1614043347.88/0/commons-chain-1-1-sources-2-jar/org/apache/commons/chain/web/servlet/ServletApplicationScopeMap.java
- * /opt/cola/permits/1137272565_1614043347.88/0/commons-chain-1-1-sources-2-jar/org/apache/commons/chain/generic/RemoveCommand.java
- * /opt/cola/permits/1137272565_1614043347.88/0/commons-chain-1-1-sources-2-jar/org/apache/commons/chain/generic/LookupCommand.java
- * /opt/cola/permits/1137272565_1614043347.88/0/commons-chain-1-1-sources-2-jar/org/apache/commons/chain/web/MapEntry.java
- * /opt/cola/permits/1137272565_1614043347.88/0/commons-chain-1-1-sources-2-jar/org/apache/commons/chain/web/portlet/PortletSessionScopeMap.java
- * /opt/cola/permits/1137272565_1614043347.88/0/commons-chain-1-1-sources-2-jar/org/apache/commons/chain/web/portlet/PortletParamMap.java
- * /opt/cola/permits/1137272565_1614043347.88/0/commons-chain-1-1-sources-2-jar/org/apache/commons/chain/web/portlet/PortletWebContext.java
- * /opt/cola/permits/1137272565_1614043347.88/0/commons-chain-1-1-sources-2-jar/org/apache/commons/chain/web/servlet/ServletHeaderMap.java
- * /opt/cola/permits/1137272565_1614043347.88/0/commons-chain-1-1-sources-2-jar/org/apache/commons/chain/config/ConfigRuleSet.java
- * /opt/cola/permits/1137272565_1614043347.88/0/commons-chain-1-1-sources-2-jar/org/apache/commons/chain/web/AbstractSetLocaleCommand.java
- * /opt/cola/permits/1137272565_1614043347.88/0/commons-chain-1-1-sources-2-jar/org/apache/commons/chain/web/servlet/PathInfoMapper.java
- * /opt/cola/permits/1137272565_1614043347.88/0/commons-chain-1-1-sources-2-jar/org/apache/commons/chain/web/portlet/PortletGetLocaleCommand.java
- * /opt/cola/permits/1137272565_1614043347.88/0/commons-chain-1-1-sources-2-jar/org/apache/commons/chain/generic/CopyCommand.java
- * /opt/cola/permits/1137272565_1614043347.88/0/commons-chain-1-1-sources-2-jar/org/apache/commons/chain/config/ConfigParser.java
- * /opt/cola/permits/1137272565_1614043347.88/0/commons-chain-1-1-sources-2-jar/org/apache/commons/chain/web/servlet/ServletGetLocaleCommand.java
- * /opt/cola/permits/1137272565_1614043347.88/0/commons-chain-1-1-sources-2-jar/org/apache/commons/chain/web/servlet/ServletPathMapper.java
- * /opt/cola/permits/1137272565_1614043347.88/0/commons-chain-1-1-sources-2-

jar/org/apache/commons/chain/web/faces/FacesWebContext.java
* /opt/cola/permits/1137272565_1614043347.88/0/commons-chain-1-1-sources-2-
jar/org/apache/commons/chain/web/ChainResources.java
* /opt/cola/permits/1137272565_1614043347.88/0/commons-chain-1-1-sources-2-
jar/org/apache/commons/chain/impl/ContextBase.java
* /opt/cola/permits/1137272565_1614043347.88/0/commons-chain-1-1-sources-2-
jar/org/apache/commons/chain/web/AbstractGetLocaleCommand.java
* /opt/cola/permits/1137272565_1614043347.88/0/commons-chain-1-1-sources-2-
jar/org/apache/commons/chain/impl/CatalogFactoryBase.java
* /opt/cola/permits/1137272565_1614043347.88/0/commons-chain-1-1-sources-2-
jar/org/apache/commons/chain/web/servlet/ServletHeaderValuesMap.java
* /opt/cola/permits/1137272565_1614043347.88/0/commons-chain-1-1-sources-2-
jar/org/apache/commons/chain/config/ConfigCatalogRule.java
* /opt/cola/permits/1137272565_1614043347.88/0/commons-chain-1-1-sources-2-
jar/org/apache/commons/chain/CatalogFactory.java
* /opt/cola/permits/1137272565_1614043347.88/0/commons-chain-1-1-sources-2-
jar/org/apache/commons/chain/web/servlet/ServletParamMap.java
* /opt/cola/permits/1137272565_1614043347.88/0/commons-chain-1-1-sources-2-
jar/org/apache/commons/chain/web/servlet/ServletRequestScopeMap.java
* /opt/cola/permits/1137272565_1614043347.88/0/commons-chain-1-1-sources-2-
jar/org/apache/commons/chain/web/ChainListener.java
* /opt/cola/permits/1137272565_1614043347.88/0/commons-chain-1-1-sources-2-
jar/org/apache/commons/chain/web/servlet/RequestParameterMapper.java
* /opt/cola/permits/1137272565_1614043347.88/0/commons-chain-1-1-sources-2-
jar/org/apache/commons/chain/web/servlet/ChainProcessor.java
* /opt/cola/permits/1137272565_1614043347.88/0/commons-chain-1-1-sources-2-
jar/org/apache/commons/chain/web/WebContext.java
* /opt/cola/permits/1137272565_1614043347.88/0/commons-chain-1-1-sources-2-
jar/org/apache/commons/chain/impl/ChainBase.java
* /opt/cola/permits/1137272565_1614043347.88/0/commons-chain-1-1-sources-2-
jar/org/apache/commons/chain/impl/CatalogBase.java
* /opt/cola/permits/1137272565_1614043347.88/0/commons-chain-1-1-sources-2-
jar/org/apache/commons/chain/web/portlet/PortletRequestScopeMap.java
* /opt/cola/permits/1137272565_1614043347.88/0/commons-chain-1-1-sources-2-
jar/org/apache/commons/chain/web/servlet/ServletParamValuesMap.java
* /opt/cola/permits/1137272565_1614043347.88/0/commons-chain-1-1-sources-2-
jar/org/apache/commons/chain/web/servlet/ServletSetLocaleCommand.java
* /opt/cola/permits/1137272565_1614043347.88/0/commons-chain-1-1-sources-2-
jar/org/apache/commons/chain/web/servlet/ServletWebContext.java
* /opt/cola/permits/1137272565_1614043347.88/0/commons-chain-1-1-sources-2-
jar/org/apache/commons/chain/web/portlet/PortletInitParamMap.java
* /opt/cola/permits/1137272565_1614043347.88/0/commons-chain-1-1-sources-2-
jar/org/apache/commons/chain/web/servlet/ServletSessionScopeMap.java
* /opt/cola/permits/1137272565_1614043347.88/0/commons-chain-1-1-sources-2-
jar/org/apache/commons/chain/web/servlet/ServletInitParamMap.java
* /opt/cola/permits/1137272565_1614043347.88/0/commons-chain-1-1-sources-2-
jar/org/apache/commons/chain/web/portlet/PortletParamValuesMap.java
* /opt/cola/permits/1137272565_1614043347.88/0/commons-chain-1-1-sources-2-

```
jar/org/apache/commons/chain/generic/DispatchLookupCommand.java
* /opt/cola/permits/1137272565_1614043347.88/0/commons-chain-1-1-sources-2-
jar/org/apache/commons/chain/config/ConfigRegisterRule.java
* /opt/cola/permits/1137272565_1614043347.88/0/commons-chain-1-1-sources-2-
jar/org/apache/commons/chain/web/faces/FacesSetLocaleCommand.java
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```
* /opt/cola/permits/1137272565_1614043347.88/0/commons-chain-1-1-sources-2-
jar/org/apache/commons/chain/generic/DispatchCommand.java
* /opt/cola/permits/1137272565_1614043347.88/0/commons-chain-1-1-sources-2-
jar/org/apache/commons/chain/web/servlet/ServletCookieMap.java
```

1.64 tar-stream v2.2.0

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hej

1.65 apache-regexp 1.3

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1.67 opentest4j-opentest4j 1.2.0

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1.68 types-jquery 3.3.22

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1.69 reactor-core 3.4.9

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Found in path(s):

```
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-
jar/reactor/core/publisher/MonoCacheInvalidateWhen.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-
jar/reactor/core/publisher/FluxSwitchMapNoPrefetch.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-
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```

Found in path(s):

```
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/package-info.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/util/package-info.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-
jar/reactor/core/publisher/MonoFunctions.kt
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/util/function/package-
info.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/util/concurrent/package-
info.java
```

```
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-
jar/reactor/core/publisher/FluxExtensions.kt
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/adapters/package-info.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-
jar/reactor/core/publisher/MonoExtensions.kt
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/scheduler/package-
info.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-
jar/reactor/util/function/TupleExtensions.kt
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/package-
info.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/util/context/package-
info.java
```

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```
*/
```

Found in path(s):

```
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-
jar/reactor/core/publisher/OnNextFailureStrategy.java
```

```
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-
jar/reactor/core/publisher/FluxMetrics.java
```

```
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/Traces.java
```

```
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-
jar/reactor/core/publisher/FluxSwitchOnFirst.java
```

```
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-
jar/reactor/core/publisher/MonoMetrics.java
```

```
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-
jar/reactor/core/publisher/QueueDrainSubscriber.java
```

```
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-
jar/reactor/core/publisher/MonoUsingWhen.java
```

```
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-
jar/reactor/core/publisher/FluxMergeComparing.java
```

```
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-
```

```
jar/reactor/core/publisher/FluxUsingWhen.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-
jar/reactor/core/publisher/MonoMetricsFuseable.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-
jar/reactor/core/scheduler/ReactorThreadFactory.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-
jar/reactor/core/scheduler/SchedulerMetricDecorator.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-
jar/reactor/core/publisher/FluxMetricsFuseable.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-
jar/reactor/util/concurrent/MpscLinkedQueue.java
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reactor.core.scheduler.ReactorBlockHoundIntegration
```

```
Found in path(s):
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/META-
INF/services/reactor.blockhound.integration.BlockHoundIntegration
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Found in path(s):

- * /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/FluxConcatMap.java
- * /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/FluxSubscribeOn.java
- * /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/FluxSkipLast.java
- * /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/MonoMaterialize.java
- * /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/MonoFromPublisher.java
- * /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/FluxStream.java
- * /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/scheduler/ImmediateScheduler.java
- * /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/adaptor/JdkFlowAdapter.java
- * /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/MonoIgnoreElements.java
- * /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/util/concurrent/SpscLinkedListArrayQueue.java
- * /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/MonoCreate.java
- * /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/SourceProducer.java
- * /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/MonoRetry.java
- * /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/CorePublisher.java
- * /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/util/function/Tuple2.java
- * /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/FluxSink.java
- * /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/MonoFromFluxOperator.java
- * /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/SerializedSubscriber.java
- * /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/Flux.java
- * /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/FluxRepeat.java
- * /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/InternalMonoOperator.java
- * /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/FluxDefer.java
- * /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/MonoPeekFuseable.java
- * /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/MonoError.java
- * /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-

jar/reactor/core/publisher/ParallelSource.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-
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* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-
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* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-
jar/reactor/core/publisher/MonoTimed.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-
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* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-
jar/reactor/core/publisher/FluxSubscribeOnCallable.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-
jar/reactor/core/publisher/MonoHasElement.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-
jar/reactor/core/publisher/FluxRetryWhen.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-
jar/reactor/core/publisher/FluxSwitchIfEmpty.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-
jar/reactor/core/publisher/DirectProcessor.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-
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* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-
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* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-
jar/reactor/core/publisher/ParallelLift.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-
jar/reactor/core/publisher/SignalLogger.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-
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* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-
jar/reactor/core/publisher/MonoLog.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-
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* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-
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* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-
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* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-
jar/reactor/core/publisher/FluxSampleFirst.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-
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* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-
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* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-
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* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-

jar/reactor/core/publisher/MonoIgnoreThen.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/MonoSourceFluxFuseable.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/util/function/Tuple7.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/MonoCollectList.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/ConnectableFlux.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/MonoDelayElement.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/FluxFirstWithSignal.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/InnerConsumer.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/FluxSourceMonoFuseable.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/FluxGroupBy.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/FluxOnBackpressureLatest.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/scheduler/ElasticScheduler.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/MonoAny.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/ParallelMergeSequential.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/FluxError.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/MonoDelay.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/FluxFromMonoOperator.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/FluxBufferTimeout.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/FluxWithLatestFrom.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/MonoHide.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/FluxErrorOnRequest.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/MonoHandle.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/FluxIterable.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/ParallelConcatMap.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/FluxSubscribeOnValue.java

* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/ConnectableLift.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/ParallelFluxName.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/NextProcessor.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/FluxDematerialize.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/FluxElapsed.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/FluxCallable.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/scheduler/Scheduler.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/FluxRepeatPredicate.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/FluxLog.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/MonoPeek.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/MonoFilterFuseable.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/MonoReduce.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/LambdaMonoSubscriber.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/ParallelMap.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/MonoDoOnEachFuseable.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/MonoOnAssembly.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/ParallelMergeOrdered.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/DirectInnerContainer.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/MonoSourceFuseable.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/MonoDefaultIfEmpty.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/FluxOnBackpressureDrop.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/MonoSourceFlux.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/util/Metrics.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/FluxEmpty.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-

jar/reactor/core/publisher/MonoHandleFuseable.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-
jar/reactor/core/publisher/MonoFirstWithSignal.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/Exceptions.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-
jar/reactor/core/publisher/FluxUsing.java
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* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/MonoMapFuseable.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-

jar/reactor/core/publisher/FluxDoFirstFuseable.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-
jar/reactor/core/publisher/ParallelFluxOnAssembly.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-
jar/reactor/core/publisher/FluxFlatMap.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-
jar/reactor/core/publisher/FluxRefCount.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-
jar/reactor/core/publisher/FluxMapSignal.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-
jar/reactor/core/publisher/FluxZip.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-
jar/reactor/core/publisher/FluxDeferContextual.java
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jar/reactor/core/publisher/MonoName.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-
jar/reactor/core/publisher/InternalFluxOperator.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/util/function/Tuple3.java
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* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-
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* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-
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* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-
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* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-
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* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-
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* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-
jar/reactor/core/publisher/FluxHandle.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-
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* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-
jar/reactor/core/publisher/FluxArray.java

* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/BlockingFirstSubscriber.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/FluxCancelOn.java
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* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/MonoCallableOnAssembly.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/MonoTimeout.java
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* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/Signal.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/FluxHandleFuseable.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/FluxLogFuseable.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/FluxOnAssembly.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/Mono.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/MonoDefer.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/FluxFilterFuseable.java
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jar/reactor/core/publisher/ParallelLiftFuseable.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/FluxDoFinallyFuseable.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/Operators.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/MonoContextWrite.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/MonoOnErrorResume.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/MonoSubscribeOnCallable.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/FluxMap.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/FluxDistinct.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/FluxTakeUntilOther.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/MonoDelaySubscription.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/MonoDetach.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/scheduler/NonBlocking.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/util/Loggers.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/FluxIndexFuseable.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/scheduler/Schedulers.java

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* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/MonoRunnable.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/FluxOnBackpressureBuffer.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/FluxJust.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/scheduler/ExecutorServiceWorker.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/util/context/Context1.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/ContextHolder.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/MonoJust.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/util/context/ContextN.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/Disposable.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/util/context/Context2.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/GroupedFlux.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/BufferOverflowStrategy.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/ParallelArraySource.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/util/context/Context0.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/MonoSink.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/InnerOperator.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/FluxOnBackpressureBufferStrategy.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/BlockingLastSubscriber.java
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- * /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/util/annotation/NonNullApi.java
- * /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/util/annotation/NonNull.java

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- * /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/SinkOneSerialized.java

- * /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/SinkManySerialized.java

- * /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/SinkManyBestEffort.java

- * /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/util/retry/Retry.java

- * /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/UnicastManySinkNoBackpressure.java

- * /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/InternalOneSink.java

- * /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/Sinks.java

- * /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/FluxTimed.java

- * /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/FluxConcatMapNoPrefetch.java

- * /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/util/retry/RetrySpec.java

- * /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/SinksSpecs.java

* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/SinkEmptySerialized.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/scheduler/DelegatingScheduledExecutorService.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/InternalManySink.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/Timer.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/util/context/ContextView.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/InternalEmptySink.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/util/retry/ImmutableRetrySignal.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/SinkEmptyMulticast.java

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* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-

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* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-
jar/reactor/core/scheduler/SchedulerTask.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-
jar/reactor/core/publisher/FluxExpand.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-
jar/reactor/core/publisher/FluxDelaySequence.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-
jar/reactor/core/publisher/MonoCacheTime.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-
jar/reactor/core/publisher/FluxWindowTimeout.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-
jar/reactor/core/publisher/MonoPublishMulticast.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-
jar/reactor/util/concurrent/Queues.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-
jar/reactor/core/publisher/FluxFilterWhen.java
* /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-
jar/reactor/core/scheduler/WorkerTask.java
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- */

Found in path(s):

- * /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/ContextTrackingFunctionWrapper.java
- * /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/scheduler/BoundedElasticScheduler.java
- * /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/publisher/ParallelThen.java
- * /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/core/scheduler/ReactorBlockHoundIntegration.java
- * /opt/cola/permits/1241104474_1639450859.31/0/reactor-core-3-4-9-sources-jar/reactor/util/context/CoreContext.java

1.70 aws-java-sdk-for-amazon-kinesis

1.11.257

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1.71 slf4j-api-module 1.7.28

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1.72 antlr 3.3

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*/

/** Templates for building ASTs during tree parsing.

*

* Deal with many combinations. Dimensions are:

* Auto build or rewrite

* no label, label, list label (label/no-label handled together)

* child, root

* token, set, rule, wildcard

*

* Each combination has its own template except that label/no label

* is combined into tokenRef, ruleRef, ...

*/

group ASTTreeParser;

/* addition memVars for returnscopes */

@returnScopeInterface.memVars() ::= <<

/* ASTTreeParser returnScopeInterface.memVars */

<recognizer.ASTLabelType; null="ANTLRCommonTree"> *tree;

>>

/** the interface of returnScope methodsDecl */

@returnScopeInterface.methodsDecl() ::= <<

/* ASTTreeParser returnScopeInterface.methodsDecl */

- (<recognizer.ASTLabelType; null="ANTLRCommonTree"> *)getTree;

```

- (void) setTree:(<recognizer.ASTLabelType; null="ANTLRCommonTree"> *)aTree;<\n>
>>

/** the implementation of returnScope methods */
@returnScope.methods() ::= <<
/* ASTTreeParser returnScope.methods */
- (<ASTLabelType> *)getTree
{
    return tree;
}

- (void) setTree:(<ASTLabelType> *)aTree
{
    if (tree != aTree) {
        if (tree != nil) [tree release];
        if (aTree != nil) [aTree retain];
        tree = aTree;
    }
}

- (void) dealloc
{
    [self setTree:nil];
    [super dealloc];
}

>>

/** Add a variable to track last element matched */
ruleDeclarations() ::= <<
/* ASTTreeParser ruleDeclarations */
<super.ruleDeclarations()>
<ASTLabelType> *_first_0 = nil;
<ASTLabelType> *_last = nil;<\n>
>>

/** What to emit when there is no rewrite rule. For auto build
 * mode, does nothing.
 */
noRewrite(rewriteBlockLevel, treeLevel) ::= <<
/* ASTTreeParser noRewrite */
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<if(rewriteMode)>
retval.tree = (<ASTLabelType> *)_first_0;
if ( [treeAdaptor getParent:retval.tree] != nil && [treeAdaptor isNil:[treeAdaptor getParent:retval.tree]] ) )
    retval.tree = (<ASTLabelType> *)[treeAdaptor getParent:retval.tree];
<endif>
<if(backtracking)>}<endif>

```

```

>>

/** match ^(root children) in tree parser; override here to
 * add tree construction actions.
 */
tree(root, actionsAfterRoot, children, nullableChildList,
     enclosingTreeLevel, treeLevel) ::= <<
/* ASTTreeParser tree */
_last = (<ASTLabelType> *)[input LT:1];
{
<ASTLabelType> *_save_last_<treeLevel> = _last;
<ASTLabelType> *_first_<treeLevel> = nil;
<if(!rewriteMode)>
<ASTLabelType> *root_<treeLevel> = [[[treeAdaptor class] newEmptyTree] retain];
<endif>
<root:element()>
<if(rewriteMode)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> )<endif>
<if(root.el.rule)>
if ( _first_<enclosingTreeLevel>==nil ) _first_<enclosingTreeLevel> = <root.el.label>.tree;
<else>
if ( _first_<enclosingTreeLevel>==nil ) _first_<enclosingTreeLevel> = <root.el.label>;
<endif>
<endif>
<actionsAfterRoot:element()>
<if(nullableChildList)>
if ( [input LA:1] == ANTLRTokenTypeDOWN ) {
[self match:input TokenType:ANTLRTokenTypeDOWN Follow:nil]; <checkRuleBacktrackFailure()>
<children:element()>
[self match:input TokenType:ANTLRTokenTypeUP Follow:nil]; <checkRuleBacktrackFailure()>
}
<else>
[self match:input TokenType:ANTLRTokenTypeDOWN Follow:nil]; <checkRuleBacktrackFailure()>
<children:element()>
[self match:input TokenType:ANTLRTokenTypeUP Follow:nil]; <checkRuleBacktrackFailure()>
<endif>
<if(!rewriteMode)>
[treeAdaptor addChild:root_<treeLevel> toTree:root_<enclosingTreeLevel>];
<endif>
_last = _save_last_<treeLevel>;
}<\n>
>>

/** What to emit when there is no rewrite. For auto build
 * mode, does nothing.
 */
noRewrite(rewriteBlockLevel, treeLevel) ::= <<
/* ASTTreeParser noRewrite */

```

```

<if(rewriteMode)>_retval.tree = (<ASTLabelType> *)_retval.startToken;<endif>
>>

// TOKEN AST STUFF

/** ID! and output=AST (same as plain tokenRef) 'cept add
 * setting of _last
 */
tokenRefBang(token,label,elementIndex) ::= <<
/* ASTTreeParser tokenRefBang */
_last = (<ASTLabelType> *)[input LT:1];
<super.tokenRef(...)>
>>

/** ID auto construct */
tokenRef(token,label,elementIndex,hetero) ::= <<
/* ASTTreeParser tokenRef */
_last = (<ASTLabelType> *)[input LT:1];
<super.tokenRef(...)>
<if(!rewriteMode)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<if(hetero)>
    <label>_tree = [ANTLR<hetero> newANTLR<hetero>:<label>];
<else>
    <label>_tree = (<ASTLabelType> *)[adaptor dupNode:<label>]];
<endif><\n>
    [treeAdaptor addChild:<label>_tree toTree:root_<treeLevel>];
<if(backtracking)>}<endif>
<else><! rewrite mode !>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> )<endif>
if ( _first_<treeLevel>==nil ) _first_<treeLevel> = <label>;
<endif>
>>

/** label+=TOKEN auto construct */
tokenRefAndListLabel(token,label,elementIndex,hetero) ::= <<
/* ASTTreeParser tokenRefAndListLabel */
<tokenRef(...)>
<listLabel(elem=label,...)>
>>

/** ^(ID ...) auto construct */
tokenRefRuleRoot(token,label,elementIndex) ::= <<
/* ASTTreeParser tokenRefRuleRoot */
_last = (<ASTLabelType> *)[input LT:1];
<super.tokenRef(...)>
<if(!rewriteMode)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>

```

```

<if(hetero)>
<label>_tree = [ANTLR<hetero> newANTLR<hetero>:<label>];
<else>
<label>_tree = (<ASTLabelType> *)[treeAdaptor dupNode:<label>];
<endif><\n>
root_<treeLevel> = (<ASTLabelType> *)[treeAdaptor becomeRoot:<label>_tree old:root_<treeLevel>];
<if(backtracking)>><endif>
<endif>
>>

```

```

/** Match ^(label+=TOKEN ...) auto construct */
tokenRefRuleRootAndListLabel(token,label,elementIndex,hetero) ::= <<
/* ASTTreeParser tokenRefRuleRootAndListLabel */
<tokenRefRuleRoot(...)>
<listLabel(elem=label,...)>
>>

```

```

/** Match . wildcard and auto dup the node/subtree */
wildcard(token,label,elementIndex,hetero) ::= <<
/* ASTTreeParser wildcard */
_last = (<ASTLabelType> *)[input LT:1];
<super.wildcard(...)>
<if(!rewriteMode)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<label>_tree = (<ASTLabelType> *)[adaptor dupTree:<label>];
[adaptor addChild:<label>_tree toTree:root_<treeLevel>];
<if(backtracking)>><endif>
<else> <! rewrite mode !>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> )<endif>
if ( _first_<treeLevel> == nil ) _first_<treeLevel> = <label>;
<endif>
>>

```

// SET AST

```

matchSet(s,label,hetero,elementIndex,postmatchCode) ::= <<
/* ASTTreeParser matchSet */
_last = (<ASTLabelType> *)[input LT:1];
<super.matchSet(..., postmatchCode={
<if(!rewriteMode)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<if(hetero)>
<label>_tree = [ANTLR<hetero> newANTLR<hetero>:<label>];
<else>
<label>_tree = (<ASTLabelType> *)[adaptor dupNode:<label>];
<endif><\n>
[adaptor addChild:<label>_tree toTree:root_<treeLevel>];
<if(backtracking)>><endif>

```

```

<endif>
}
)>
>>

matchRuleBlockSet(s,label,hetero,elementIndex,postmatchCode,treeLevel="0") ::= <<
/* ASTTreeParser matchRuleBlockSet */
<matchSet(...)>
<noRewrite()> <! set return tree !>
>>

matchSetBang(s,label,elementIndex,postmatchCode) ::= <<
/* ASTTreeParser matchSetBang */
_last = (<ASTLabelType> *)[input LT:1];
<super.matchSet(...)>
>>

matchSetRuleRoot(s,label,hetero,elementIndex,debug) ::= <<
/* ASTTreeParser matchSetRuleRoot */
<super.matchSet(..., postmatchCode={
<if(!rewriteMode)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<if(hetero)>
<label>_tree = [ANTLR<hetero> newANTLR<hetero>:<label>];
<else>
<label>_tree = (<ASTLabelType> *)[adaptor dupNode:<label>];
<endif><\n>
root_<treeLevel> = (<ASTLabelType> *)[adaptor becomeRoot:<label>_tree old:root_<treeLevel>];
<if(backtracking)>}<endif>
<endif>
}
)>
>>

// RULE REF AST

/** rule auto construct */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
/* ASTTreeParser ruleRef */
_last = (<ASTLabelType> *)[input LT:1];
<super.ruleRef(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>
<if(!rewriteMode)>
    [treeAdaptor addChild:[<label> getTree] toTree:root_<treeLevel>];
<else> <! rewrite mode !>
if ( _first_<treeLevel> == nil ) _first_<treeLevel> = <label>.tree;
<endif>
>>

```

```

/** x+=rule auto construct */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
/* ASTTreeParser ruleRefAndListLabel */
<ruleRef(...)>
<listLabel(elem = "["+label+" getTree]",...)>
>>

/** ^(rule ...) auto construct */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
/* ASTTreeParser ruleRefRuleRoot */
_last = (<ASTLabelType> *)[input LT:1];
<super.ruleRef(...)>
<if(!rewriteMode)>
<if(backtracking)>if ( state.backtracking == 0 ) <endif>
root_<treeLevel> = (<ASTLabelType> *)[treeAdaptor becomeRoot:[<label> getTree] old:root_<treeLevel>];
<endif>
>>

/** ^(x+=rule ...) auto construct */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
/* ASTTreeParser ruleRefRuleRootAndListLabel */
<ruleRefRuleRoot(...)>
<listLabel(elem="["+label+" getTree]",...)>
>>

/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
/* ASTTreeParser ruleRefTrack */
_last = (<ASTLabelType> *)[input LT:1];
<super.ruleRefTrack(...)>
>>

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
/* ASTTreeParser ruleRefTrackAndListLabel */
_last = (<ASTLabelType> *)[input LT:1];
<super.ruleRefTrackAndListLabel(...)>
>>

/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
/* ASTTreeParser ruleRefRuleRootTrack */
_last = (<ASTLabelType> *)[input LT:1];
<super.ruleRefRootTrack(...)>
>>

/** ^(x+=rule ...) rewrite */

```

```

ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
/* ASTTreeParser ruleRefRuleRootTrackAndListLabel */
_last = (<ASTLabelType> *)[input LT:1];
<super.ruleRefRuleRootTrackAndListLabel(...)>
>>

```

```

/** Streams for token refs are tree nodes now; override to
 * change nextToken to nextNode.
 */
createRewriteNodeFromElement(token,hetero,scope) ::= <<
/* ASTTreeParser createRewriteNodeFromElement */
#error Heterogeneous tree support not implemented.
<if(hetero)>
<! new <hetero>(stream_<token>.nextNode()) !>
[[[ANTLR<hetero>(stream_<token> alloc) init] nextNode];
<else>
<! stream_<token>.nextNode() !>
[stream_<token> nextNode]
<endif>
>>

```

```

ruleCleanUp() ::= <<
/* ASTTreeParser ruleCleanUp */
<super.ruleCleanUp()>
<if(!rewriteMode)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<\n><endif>
retval.tree = (<ASTLabelType> *)[treeAdaptor rulePostProcessing:root_0];
<if(backtracking)>}<endif>
<endif>
>>

```

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```

* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-
jar/org/antlr/codegen/templates/ObjC/ASTTreeParser.stg

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*/

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*
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* achieved through the use of StringTemplateGroup objects. All output
* strings are completely encapsulated in the group files such as Java.stg.
* Some computations are done that are unused by a particular language.
* This generator just computes and sets the values into the templates;
* the templates are free to use or not use the information.
*
* To make a new code generation target, define X.stg for language X
* by copying from existing Y.stg most closely related to your language;
* e.g., to do CSharp.stg copy Java.stg. The template group file has a
* bunch of templates that are needed by the code generator. You can add
* a new target w/o even recompiling ANTLR itself. The language=X option
* in a grammar file dictates which templates get loaded/used.
*
* Some language like C need both parser files and header files. Java needs
* to have a separate file for the cyclic DFA as ANTLR generates bytecodes
* directly (which cannot be in the generated parser Java file). To facilitate
* this,
*
* cyclic can be in same file, but header, output must be searpate. recognizer
* is in outptufile.
*/

Found in path(s):

* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/codegen/CodeGenerator.java

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

/*

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*/

```
interface ANTLRCore;
```

```
/** The overall file structure of a recognizer; stores methods for rules  
 * and cyclic DFAs plus support code.
```

```
*/
```

```
outputFile(LEXER,PARSER,TREE_PARSER, actionScope, actions,  
           docComment, recognizer,  
           name, tokens, tokenNames, rules, cyclicDFAs,  
           bitsets, buildTemplate, buildAST, rewriteMode, profile,  
           backtracking, synpreds, memoize, numRules,  
           fileName, ANTLRVersion, generatedTimestamp, trace,  
           scopes, superClass, literals);
```

```
/** The header file; make sure to define headerFileExtension() below */
```

```
optional
```

```
headerFile(LEXER,PARSER,TREE_PARSER, actionScope, actions,  
           docComment, recognizer,  
           name, tokens, tokenNames, rules, cyclicDFAs,  
           bitsets, buildTemplate, buildAST, rewriteMode, profile,  
           backtracking, synpreds, memoize, numRules,  
           fileName, ANTLRVersion, generatedTimestamp, trace,  
           scopes, superClass, literals);
```

```
lexer(grammar, name, tokens, scopes, rules, numRules, labelType,
```

```

    filterMode, superClass);

parser(grammar, name, scopes, tokens, tokenNames, rules, numRules,
    bitsets, ASTLabelType, superClass,
    labelType, members);

/** How to generate a tree parser; same as parser except the input
 * stream is a different type.
 */
treeParser(grammar, name, scopes, tokens, tokenNames, globalAction, rules,
    numRules, bitsets, labelType, ASTLabelType,
    superClass, members, filterMode);

/** A simpler version of a rule template that is specific to the imaginary
 * rules created for syntactic predicates. As they never have return values
 * nor parameters etc..., just give simplest possible method. Don't do
 * any of the normal memoization stuff in here either; it's a waste.
 * As predicates cannot be inlined into the invoking rule, they need to
 * be in a rule by themselves.
 */
synpredRule(ruleName, ruleDescriptor, block, description, nakedBlock);

/** How to generate code for a rule. This includes any return type
 * data aggregates required for multiple return values.
 */
rule(ruleName,ruleDescriptor,block,emptyRule,description,exceptions,finally,memoize);

/** How to generate a rule in the lexer; naked blocks are used for
 * fragment rules.
 */
lexerRule(ruleName,nakedBlock,ruleDescriptor,block,memoize);

/** How to generate code for the implicitly-defined lexer grammar rule
 * that chooses between lexer rules.
 */
tokensRule(ruleName,nakedBlock,args,block,ruleDescriptor);

filteringNextToken();

filteringActionGate();

// S U B R U L E S

/** A (...) subrule with multiple alternatives */
block(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description);

/** A rule block with multiple alternatives */
ruleBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description);

```

```

ruleBlockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description);

/** A special case of a (...) subrule with a single alternative */
blockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description);

/** A (..)+ block with 0 or more alternatives */
positiveClosureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description);

positiveClosureBlockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description);

/** A (..)* block with 0 or more alternatives */
closureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description);

closureBlockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description);

/** Optional blocks (x)? are translated to (x|) by before code generation
 * so we can just use the normal block template
 */
optionalBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description);

optionalBlockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description);

/** An alternative is just a list of elements; at outermost level */
alt(elements,altNum,description,autoAST,outerAlt,treeLevel,rew);

// E L E M E N T S

/** match a token optionally with a label in front */
tokenRef(token,label,elementIndex,hetero);

/** ids+=ID */
tokenRefAndListLabel(token,label,elementIndex,hetero);

listLabel(label,elem);

/** match a character */
charRef(char,label);

/** match a character range */
charRangeRef(a,b,label);

/** For now, sets are interval tests and must be tested inline */
matchSet(s,label,elementIndex,postmatchCode);

```

```

matchSetAndListLabel(s,label,elementIndex,postmatchCode);

/** Match a string literal */
lexerStringRef(string,label,elementIndex);

wildcard(label,elementIndex);

wildcardAndListLabel(label,elementIndex);

/** Match . wildcard in lexer */
wildcardChar(label, elementIndex);

wildcardCharListLabel(label, elementIndex);

/** Match a rule reference by invoking it possibly with arguments
 * and a return value or values.
 */
ruleRef(rule,label,elementIndex,args,scope);

/** ids+=ID */
ruleRefAndListLabel(rule,label,elementIndex,args,scope);

/** A lexer rule reference */
lexerRuleRef(rule,label,args,elementIndex,scope);

/** i+=INT in lexer */
lexerRuleRefAndListLabel(rule,label,args,elementIndex,scope);

/** EOF in the lexer */
lexerMatchEOF(label,elementIndex);

/** match ^(root children) in tree parser */
tree(root, actionsAfterRoot, children, nullableChildList,
    enclosingTreeLevel, treeLevel);

/** Every predicate is used as a validating predicate (even when it is
 * also hoisted into a prediction expression).
 */
validateSemanticPredicate(pred,description);

// F i x e d D F A (if-then-else)

dfaState(k,edges,eotPredictsAlt,description,stateNumber,semPredState);

/** Same as a normal DFA state except that we don't examine lookahead
 * for the bypass alternative. It delays error detection but this
 * is faster, smaller, and more what people expect. For (X)? people

```

```

* expect "if ( LA(1)==X ) match(X);" and that's it.
*
* If a semPredState, don't force lookahead lookup; preds might not
* need.
*/
dfaOptionalBlockState(k,edges,eotPredictsAlt,description,stateNumber,semPredState);

/** A DFA state that is actually the loopback decision of a closure
* loop. If end-of-token (EOT) predicts any of the targets then it
* should act like a default clause (i.e., no error can be generated).
* This is used only in the lexer so that for ('a')* on the end of a
* rule anything other than 'a' predicts exiting.
*
* If a semPredState, don't force lookahead lookup; preds might not
* need.
*/
dfaLoopbackState(k,edges,eotPredictsAlt,description,stateNumber,semPredState);

/** An accept state indicates a unique alternative has been predicted */
dfaAcceptState(alt);

/** A simple edge with an expression. If the expression is satisfied,
* enter to the target state. To handle gated productions, we may
* have to evaluate some predicates for this edge.
*/
dfaEdge(labelExpr, targetState, predicates);

// F i x e d D F A (switch case)

/** A DFA state where a SWITCH may be generated. The code generator
* decides if this is possible: CodeGenerator.canGenerateSwitch().
*/
dfaStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState);

dfaOptionalBlockStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState);

dfaLoopbackStateSwitch(k, edges,eotPredictsAlt,description,stateNumber,semPredState);

dfaEdgeSwitch(labels, targetState);

// C y c l i c D F A

/** The code to initiate execution of a cyclic DFA; this is used
* in the rule to predict an alt just like the fixed DFA case.
* The <name> attribute is inherited via the parser, lexer, ...
*/
dfaDecision(decisionNumber,description);

```

```

/** Generate the tables and support code needed for the DFAState object
 * argument. Unless there is a semantic predicate (or syn pred, which
 * become sem preds), all states should be encoded in the state tables.
 * Consequently, cyclicDFAState/cyclicDFAEdge,eotDFAEdge templates are
 * not used except for special DFA states that cannot be encoded as
 * a transition table.
 */
cyclicDFA(dfa);

/** A special state in a cyclic DFA; special means has a semantic predicate
 * or it's a huge set of symbols to check.
 */
cyclicDFAState(decisionNumber,stateNumber,edges,needErrorClause,semPredState);

/** Just like a fixed DFA edge, test the lookahead and indicate what
 * state to jump to next if successful. Again, this is for special
 * states.
 */
cyclicDFAEdge(labelExpr, targetStateNumber, edgeNumber, predicates);

/** An edge pointing at end-of-token; essentially matches any char;
 * always jump to the target.
 */
eotDFAEdge(targetStateNumber,edgeNumber, predicates);

// D F A E X P R E S S I O N S

andPredicates(left,right);

orPredicates(operands);

notPredicate(pred);

evalPredicate(pred,description);

evalSynPredicate(pred,description);

lookaheadTest(atom,k,atomAsInt);

/** Sometimes a lookahead test cannot assume that LA(k) is in a temp variable
 * somewhere. Must ask for the lookahead directly.
 */
isolatedLookaheadTest(atom,k,atomAsInt);

lookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt);

isolatedLookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt);

```

```

setTest(ranges);

// A T T R I B U T E S

parameterAttributeRef(attr);
parameterSetAttributeRef(attr,expr);

scopeAttributeRef(scope,attr,index,negIndex);
scopeSetAttributeRef(scope,attr,expr,index,negIndex);

/** $x is either global scope or x is rule with dynamic scope; refers
 * to stack itself not top of stack. This is useful for predicates
 * like {$function.size(>0 && $function::name.equals("foo"))}?
 */
isolatedDynamicScopeRef(scope);

/** reference an attribute of rule; might only have single return value */
ruleLabelRef(referencedRule,scope,attr);

returnAttributeRef(ruleDescriptor,attr);
returnSetAttributeRef(ruleDescriptor,attr,expr);

/** How to translate $tokenLabel */
tokenLabelRef(label);

/** ids+=ID {$ids} or e+=expr {$e} */
listLabelRef(label);

// not sure the next are the right approach; and they are evaluated early;
// they cannot see TREE_PARSER or PARSER attributes for example. :(

tokenLabelPropertyRef_text(scope,attr);
tokenLabelPropertyRef_type(scope,attr);
tokenLabelPropertyRef_line(scope,attr);
tokenLabelPropertyRef_pos(scope,attr);
tokenLabelPropertyRef_channel(scope,attr);
tokenLabelPropertyRef_index(scope,attr);
tokenLabelPropertyRef_tree(scope,attr);

ruleLabelPropertyRef_start(scope,attr);
ruleLabelPropertyRef_stop(scope,attr);
ruleLabelPropertyRef_tree(scope,attr);
ruleLabelPropertyRef_text(scope,attr);
ruleLabelPropertyRef_st(scope,attr);

/** Isolated $RULE ref ok in lexer as it's a Token */
lexerRuleLabel(label);

```



```

lexerRuleLabelPropertyRef_type(scope,attr);
lexerRuleLabelPropertyRef_line(scope,attr);
lexerRuleLabelPropertyRef_pos(scope,attr);
lexerRuleLabelPropertyRef_channel(scope,attr);
lexerRuleLabelPropertyRef_index(scope,attr);
lexerRuleLabelPropertyRef_text(scope,attr);

// Somebody may ref $template or $tree or $stop within a rule:
rulePropertyRef_start(scope,attr);
rulePropertyRef_stop(scope,attr);
rulePropertyRef_tree(scope,attr);
rulePropertyRef_text(scope,attr);
rulePropertyRef_st(scope,attr);

lexerRulePropertyRef_text(scope,attr);
lexerRulePropertyRef_type(scope,attr);
lexerRulePropertyRef_line(scope,attr);
lexerRulePropertyRef_pos(scope,attr);
/** Undefined, but present for consistency with Token attributes; set to -1 */
lexerRulePropertyRef_index(scope,attr);
lexerRulePropertyRef_channel(scope,attr);
lexerRulePropertyRef_start(scope,attr);
lexerRulePropertyRef_stop(scope,attr);

ruleSetPropertyRef_tree(scope,attr,expr);
ruleSetPropertyRef_st(scope,attr,expr);

/** How to execute an action */
execAction(action);

// M I S C (properties, etc...)

codeFileExtension();

/** Your language needs a header file; e.g., ".h" */
optional headerFileExtension();

true();
false();

Found in path(s):
* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/codegen/templates/ANTLRCore.sti
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```

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*/

group AST;

```
@outputFile.imports() ::= <<
<@super.imports()>
<if(!TREE_PARSER)><! tree parser would already have imported !>
import org.antlr.runtime.tree.*;<\n>
<endif>
>>
```

```
@genericParser.members() ::= <<
<@super.members()>
<parserMembers()>
>>
```

```
/** Add an adaptor property that knows how to build trees */
parserMembers() ::= <<
protected var adaptor:TreeAdaptor = new CommonTreeAdaptor();<\n>
override public function set treeAdaptor(adaptor:TreeAdaptor):void {
    this.adaptor = adaptor;
    <grammar.directDelegates:{g|<g.delegateName()>.treeAdaptor = this.adaptor;}>
}
override public function get treeAdaptor():TreeAdaptor {
    return adaptor;
}
>>
```

```

@returnScope.ruleReturnMembers() ::= <<
<ASTLabelType> tree;
public function get tree():Object { return tree; }
>>

/** Add a variable to track rule's return AST */
ruleDeclarations() ::= <<
<super.ruleDeclarations()>
var root_0:<ASTLabelType> = null;<\n>
>>

ruleLabelDefs() ::= <<
<super.ruleLabelDefs()>
<[ruleDescriptor.tokenLabels,ruleDescriptor.wildcardTreeLabels,
ruleDescriptor.wildcardTreeListLabels]:{ var <it.label.text>_tree:<ASTLabelType>=null;}; separator="\n">
<ruleDescriptor.tokenListLabels:{ var <it.label.text>_tree:<ASTLabelType>=null;}; separator="\n">
<ruleDescriptor.allTokenRefsInAltsWithRewrites
: {var stream_<it>:RewriteRule<rewriteElementType>Stream=new
RewriteRule<rewriteElementType>Stream(adaptor,"token <it>");}; separator="\n">
<ruleDescriptor.allRuleRefsInAltsWithRewrites
: {var stream_<it>:RewriteRuleSubtreeStream=new RewriteRuleSubtreeStream(adaptor,"rule <it>");};
separator="\n">
>>

/** When doing auto AST construction, we must define some variables;
* These should be turned off if doing rewrites. This must be a "mode"
* as a rule could have both rewrite and AST within the same alternative
* block.
*/
@alt.declarations() ::= <<
<if(autoAST)>
<if(outerAlt)>
<if(!rewriteMode)>
root_0 = <ASTLabelType>(adaptor.nil());<\n>
<endif>
<endif>
<endif>
>>

// Tracking Rule Elements

/** ID and track it for use in a rewrite rule */
tokenRefTrack(token,label,elementIndex,hetero) ::= <<
<tokenRefBang(...)> <! Track implies no auto AST construction!>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>stream_<token>.add(<label>);<\n>
>>

```

```

/** ids+=ID and track it for use in a rewrite rule; adds to ids *and*
 * to the tracking list stream_ID for use in the rewrite.
 */
tokenRefTrackAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRefTrack(...)>
<listLabel(elem=label,...)>
>>

/** ^(ID ...) track for rewrite */
tokenRefRuleRootTrack(token,label,elementIndex,hetero) ::= <<
<tokenRefBang(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>stream_<token>.add(<label>);<\n>
>>

/** Match ^(label+=TOKEN ...) track for rewrite */
tokenRefRuleRootTrackAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRefRuleRootTrack(...)>
<listLabel(elem=label,...)>
>>

/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>stream_<rule.name>.add(<label>.tree);
>>

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefTrack(...)>
<listLabel(elem=label+".tree",...)>
>>

/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>stream_<rule>.add(<label>.tree);
>>

/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRootTrack(...)>
<listLabel(elem=label+".tree",...)>
>>

// R e w r i t e

rewriteCode(
  alts, description,

```

```

referencedElementsDeep, // ALL referenced elements to right of ->
referencedTokenLabels,
referencedTokenListLabels,
referencedRuleLabels,
referencedRuleListLabels,
  referencedWildcardLabels,
  referencedWildcardListLabels,
rewriteBlockLevel, enclosingTreeLevel, treeLevel) ::=
<<

// AST REWRITE
// elements: <referencedElementsDeep; separator=", ">
// token labels: <referencedTokenLabels; separator=", ">
// rule labels: <referencedRuleLabels; separator=", ">
// token list labels: <referencedTokenListLabels; separator=", ">
// rule list labels: <referencedRuleListLabels; separator=", ">
<if(backtracking)>
if ( <actions.(actionScope).synpredgate> ) {<\n>
<endif>
<prevRuleRootRef(>.tree = root_0;
<rewriteCodeLabels(>
root_0 = <ASTLabelType>(adaptor.nil());
<alts:rewriteAlt(> separator="else ">
<! if tree parser and rewrite=true !>
<if(TREE_PARSER)>
<if(rewriteMode)>
<prevRuleRootRef(>.tree = <ASTLabelType>(adaptor.rulePostProcessing(root_0));
input.replaceChildren(adaptor.getParent(retval.start),
  adaptor.getChildIndex(retval.start),
  adaptor.getChildIndex(_last),
  retval.tree);
<endif>
<endif>
<! if parser or tree-parser && rewrite!=true, we need to set result !>
<if(!TREE_PARSER)>
<prevRuleRootRef(>.tree = root_0;
<else>
<if(!rewriteMode)>
<prevRuleRootRef(>.tree = root_0;
<endif>
<endif>
<if(backtracking)>
}
<endif>
>>

rewriteCodeLabels() ::= <<
<referencedTokenLabels

```

```

: {var stream_<it>:RewriteRule<rewriteElementType>Stream=new
RewriteRule<rewriteElementType>Stream(adaptor,"token <it>",<it>)};
separator="\n"
>
<referencedTokenListLabels
: {var stream_<it>:RewriteRule<rewriteElementType>Stream=new
RewriteRule<rewriteElementType>Stream(adaptor,"token <it> ", list_<it>)};
separator="\n"
>
<referencedWildcardLabels
: {var stream_<it>:RewriteRuleSubtreeStream=new RewriteRuleSubtreeStream(adaptor,"wildcard <it>",<it>)};
separator="\n"
>
<referencedWildcardListLabels
: {var stream_<it>:RewriteRuleSubtreeStream=new RewriteRuleSubtreeStream(adaptor,"wildcard
<it> ",list_<it>)};
separator="\n"
>
<referencedRuleLabels
: {var stream_<it>:RewriteRuleSubtreeStream=new RewriteRuleSubtreeStream(adaptor,"rule
<it>",<it>!=null?<it>.tree:null)};
separator="\n"
>
<referencedRuleListLabels
: {var stream_<it>:RewriteRuleSubtreeStream=new RewriteRuleSubtreeStream(adaptor,"rule <it> ",list_<it>)};
separator="\n"
>
>>

/** Generate code for an optional rewrite block; note it uses the deep ref'd element
 * list rather shallow like other blocks.
 */
rewriteOptionalBlock(
alt,rewriteBlockLevel,
referencedElementsDeep, // all nested refs
referencedElements, // elements in immediately block; no nested blocks
description) ::=
<<
// <fileName>:<description>
if ( <referencedElementsDeep:{el | stream_<el>.hasNext}; separator="||"> ) {
  <alt>
}
<referencedElementsDeep:{el | stream_<el>.reset();<\n>}>
>>

rewriteClosureBlock(
alt,rewriteBlockLevel,
referencedElementsDeep, // all nested refs

```

```

referencedElements, // elements in immediately block; no nested blocks
description) ::=
<<
// <fileName>:<description>
while ( <referencedElements:{el | stream_<el>.hasNext}; separator="||"> ) {
  <alt>
}
<referencedElements:{el | stream_<el>.reset();<\n>}>
>>

```

```

rewritePositiveClosureBlock(
  alt,rewriteBlockLevel,
  referencedElementsDeep, // all nested refs
  referencedElements, // elements in immediately block; no nested blocks
  description) ::=
<<
if ( !(<referencedElements:{el | stream_<el>.hasNext}; separator="||">) ) {
  throw new RewriteEarlyExitException();
}
while ( <referencedElements:{el | stream_<el>.hasNext}; separator="||"> ) {
  <alt>
}
<referencedElements:{el | stream_<el>.reset();<\n>}>
>>

```

```

rewriteAlt(a) ::= <<
// <a.description>
<if(a.pred)>
if (<a.pred>) {
  <a.alt>
}<\n>
<else>
{
  <a.alt>
}<\n>
<endif>
>>

```

```

/** For empty rewrites: "r : ... -> ;" */
rewriteEmptyAlt() ::= "root_0 = null;"

```

```

rewriteTree(root,children,description,enclosingTreeLevel,treeLevel) ::= <<
// <fileName>:<description>
{
var root_<treeLevel>:<ASTLabelType> = <ASTLabelType>(adaptor.nil());
<root:rewriteElement()>
<children:rewriteElement()>
adaptor.addChild(root_<enclosingTreeLevel>, root_<treeLevel>);
}

```

```

}<\n>
>>

rewriteElementList(elements) ::= "<elements:rewriteElement()>"

rewriteElement(e) ::= <<
<@pregen()>
<e.el>
>>

/** Gen ID or ID[args] */
rewriteTokenRef(token,elementIndex,hetero,args) ::= <<
adaptor.addChild(root_<treeLevel>, <createRewriteNodeFromElement(...)>);<\n>
>>

/** Gen $label ... where defined via label=ID */
rewriteTokenLabelRef(label,elementIndex) ::= <<
adaptor.addChild(root_<treeLevel>, stream_<label>.nextNode());<\n>
>>

/** Gen $label ... where defined via label+=ID */
rewriteTokenListLabelRef(label,elementIndex) ::= <<
adaptor.addChild(root_<treeLevel>, stream_<label>.nextNode());<\n>
>>

/** Gen ^($label ...) */
rewriteTokenLabelRefRoot(label,elementIndex) ::= <<
root_<treeLevel> = <ASTLabelType>(adaptor.becomeRoot(stream_<label>.nextNode(), root_<treeLevel>));<\n>
>>

/** Gen ^($label ...) where label+=... */
rewriteTokenListLabelRefRoot ::= rewriteTokenLabelRefRoot

/** Gen ^(ID ...) or ^(ID[args] ...) */
rewriteTokenRefRoot(token,elementIndex,hetero,args) ::= <<
root_<treeLevel> = <ASTLabelType>(adaptor.becomeRoot(<createRewriteNodeFromElement(...)>,
root_<treeLevel>));<\n>
>>

rewriteImaginaryTokenRef(args,token,hetero,elementIndex) ::= <<
adaptor.addChild(root_<treeLevel>, <createImaginaryNode(tokenType=token, ...)>);<\n>
>>

rewriteImaginaryTokenRefRoot(args,token,hetero,elementIndex) ::= <<
root_<treeLevel> = <ASTLabelType>(adaptor.becomeRoot(<createImaginaryNode(tokenType=token, ...)>,
root_<treeLevel>));<\n>
>>

```



```

/** plain -> {foo} action */
rewriteAction(action) ::= <<
root_0 = <action>;<\n>
>>

/** What is the name of the previous value of this rule's root tree? This
 * let's us refer to $rule to mean previous value. I am reusing the
 * variable 'tree' sitting in retval struct to hold the value of root_0 right
 * before I set it during rewrites. The assign will be to retval.tree.
 */
prevRuleRootRef() ::= "retval"

rewriteRuleRef(rule) ::= <<
adaptor.addChild(root_<treeLevel>, stream_<rule>.nextTree());<\n>
>>

rewriteRuleRefRoot(rule) ::= <<
root_<treeLevel> = <ASTLabelType>(adaptor.becomeRoot(stream_<rule>.nextNode(), root_<treeLevel>));<\n>
>>

rewriteNodeAction(action) ::= <<
adaptor.addChild(root_<treeLevel>, <action>);<\n>
>>

rewriteNodeActionRoot(action) ::= <<
root_<treeLevel> = <ASTLabelType>(adaptor.becomeRoot(<action>, root_<treeLevel>));<\n>
>>

/** Gen $ruleLabel ... where defined via ruleLabel=rule */
rewriteRuleLabelRef(label) ::= <<
adaptor.addChild(root_<treeLevel>, stream_<label>.nextTree());<\n>
>>

/** Gen $ruleLabel ... where defined via ruleLabel+=rule */
rewriteRuleListLabelRef(label) ::= <<
adaptor.addChild(root_<treeLevel>, stream_<label>.nextTree());<\n>
>>

/** Gen ^($ruleLabel ...) where ruleLabel=rule */
rewriteRuleLabelRefRoot(label) ::= <<
root_<treeLevel> = <ASTLabelType>(adaptor.becomeRoot(stream_<label>.nextNode(), root_<treeLevel>));<\n>
>>

/** Gen ^($ruleLabel ...) where ruleLabel+=rule */
rewriteRuleListLabelRefRoot(label) ::= <<
root_<treeLevel> = <ASTLabelType>(adaptor.becomeRoot(stream_<label>.nextNode(), root_<treeLevel>));<\n>
>>

```

```
rewriteWildcardLabelRef(label) ::= <<
adaptor.addChild(root_<treeLevel>, stream_<label>.nextTree());<\n>
>>
```

```
createImaginaryNode(tokenType,hetero,args) ::= <<
<if(hetero)>
<! new MethodNode(IDLabel, args) !>
new <hetero>(<tokenType><if(args)>, <args; separator=", "><endif>)
<else>
<ASTLabelType>(adaptor.create(<tokenType>, <args; separator=", "><if(!args)>"<tokenType>"<endif>))
<endif>
>>
```

```
createRewriteNodeFromElement(token,hetero,args) ::= <<
<if(hetero)>
new <hetero>(stream_<token>.nextToken()<if(args)>, <args; separator=", "><endif>)
<else>
<if(args)> <! must create new node from old !>
adaptor.create(<token>, <args; separator=", ">)
<else>
stream_<token>.nextNode()
<endif>
<endif>
>>
```

Found in path(s):

* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-
jar/org/antlr/codegen/templates/ActionScript/AST.stg

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* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/codegen/RubyTarget.java
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*/

/** Templates for building ASTs during normal parsing.

*

- * Deal with many combinations. Dimensions are:
- * Auto build or rewrite
- * no label, label, list label (label/no-label handled together)
- * child, root

```

* token, set, rule, wildcard
*
* The situation is not too bad as rewrite (->) usage makes ^ and !
* invalid. There is no huge explosion of combinations.
*/
group ASTParser;

finishedBacktracking(block) ::= <<
<if(backtracking)>
if <actions.(actionScope).synpredgate>:
    <block>
<else>
<block>
<endif>
>>

@ruleBody.setErrorReturnValue() ::= <<
retval.tree = self._adaptor.errorNode(self.input, retval.start, self.input.LT(-1), re)
>>

// TOKEN AST STUFF

/** ID and output=AST */
tokenRef(token,label,elementIndex,hetero) ::= <<
<super.tokenRef(...)>
<finishedBacktracking({
<label>_tree = <createNodeFromToken(...)>
self._adaptor.addChild(root_0, <label>_tree)
})>
>>

/** ID! and output=AST (same as plain tokenRef) */
tokenRefBang(token,label,elementIndex) ::= "<super.tokenRef(...)>"

/** ID^ and output=AST */
tokenRefRuleRoot(token,label,elementIndex,hetero) ::= <<
<super.tokenRef(...)>
<finishedBacktracking({
<label>_tree = <createNodeFromToken(...)>
root_0 = self._adaptor.becomeRoot(<label>_tree, root_0)
})>
>>

/** ids+=ID! and output=AST */
tokenRefBangAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRefBang(...)>
<listLabel(elem=label,...)>
>>

```

```

/** label+=TOKEN when output=AST but not rewrite alt */
tokenRefAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRef(...)>
<listLabel(elem=label,...)>
>>

/** Match label+=TOKEN^ when output=AST but not rewrite alt */
tokenRefRuleRootAndListLabel(token,label,hetero,elementIndex) ::= <<
<tokenRefRuleRoot(...)>
<listLabel(elem=label,...)>
>>

// SET AST

// the match set stuff is interesting in that it uses an argument list
// to pass code to the default matchSet; another possible way to alter
// inherited code. I don't use the region stuff because I need to pass
// different chunks depending on the operator. I don't like making
// the template name have the operator as the number of templates gets
// large but this is the most flexible--this is as opposed to having
// the code generator call matchSet then add root code or ruleroot code
// plus list label plus ... The combinations might require complicated
// rather than just added on code. Investigate that refactoring when
// I have more time.

matchSet(s,label,hetero,elementIndex,postmatchCode) ::= <<
<super.matchSet(..., postmatchCode={<finishedBacktracking({self._adaptor.addChild(root_0,
<createNodeFromToken(...)>})})}>>>
>>

matchRuleBlockSet(s,label,hetero,elementIndex,postmatchCode,treeLevel="0") ::= <<
<matchSet(...)>
>>

matchSetBang(s,label,elementIndex,postmatchCode) ::= "<super.matchSet(...)>"

// note there is no matchSetTrack because -> rewrites force sets to be
// plain old blocks of alts: (A|B|...|C)

matchSetRuleRoot(s,label,hetero,elementIndex,debug) ::= <<
<if(label)>
<label> = self.input.LT(1)<\n>
<endif>
<super.matchSet(..., postmatchCode={<finishedBacktracking({root_0 =
self._adaptor.becomeRoot(<createNodeFromToken(...)>, root_0)})}>>}>
>>

```

```

// RULE REF AST

/** rule when output=AST */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(...)>
<finishedBacktracking({self._adaptor.addChild(root_0, <label>.tree)})>
>>

/** rule! is same as normal rule ref */
ruleRefBang(rule,label,elementIndex,args,scope) ::= "<super.ruleRef(...)>"

/** rule^ */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(...)>
<finishedBacktracking({root_0 = self._adaptor.becomeRoot(<label>.tree, root_0)})>
>>

/** x+=rule when output=AST */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>
<listLabel(elem=label+".tree",...)>
>>

/** x+=rule! when output=AST is a rule ref with list addition */
ruleRefBangAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefBang(...)>
<listLabel(elem=label+".tree",...)>
>>

/** x+=rule^ */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...)>
<listLabel(elem=label+".tree",...)>
>>

// WILDCARD AST

wildcard(label,elementIndex) ::= <<
<super.wildcard(...)>
<finishedBacktracking({
<label>_tree = self._adaptor.createWithPayload(<label>)
self._adaptor.addChild(root_0, <label>_tree)
})>
>>

wildcardBang(label,elementIndex) ::= "<super.wildcard(...)>"

wildcardRuleRoot(label,elementIndex) ::= <<

```

```

<super.wildcard(...)>
<finishedBacktracking({
<label>_tree = self._adaptor.createWithPayload(<label>)
root_0 = self._adaptor.becomeRoot(<label>_tree, root_0)
})>
>>

```

```

createNodeFromToken(label,hetero) ::= <<
<if(hetero)>
<hetero>(<label>) <! new MethodNode(IDLabel) !>
<else>
self._adaptor.createWithPayload(<label>)
<endif>
>>

```

```

ruleCleanUp() ::= <<
<super.ruleCleanUp()>
<finishedBacktracking({
retval.tree = self._adaptor.rulePostProcessing(root_0)
self._adaptor.setTokenBoundaries(retval.tree, retval.start, retval.stop)
})>
>>

```

Found in path(s):

```

* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-
jar/org/antlr/codegen/templates/Python/ASTParser.stg

```

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*/

group AST;

```
@outputFile.imports() ::= <<
<@super.imports()><if(!TREE_PARSER)><! tree parser would already have imported !>
Antlr.Runtime.Tree,<\n><endif>
>>
```

```
@genericParser.members() ::= <<
<@super.members()>
<parserMembers()>
>>
```

```
@genericParser.membersConstructor() ::= <<
<@super.membersConstructor()>
<parserMembersConstructor()>
>>
```

```
@genericParser.membersImplementation() ::= <<
<@super.membersImplementation()>
<parserMembersImplementation()>
>>
```

/** Add an adaptor property that knows how to build trees */

```
parserMembers() ::= <<
strict protected
  FAdaptor: ITreeAdaptor;
  procedure SetAdaptor(const Value: ITreeAdaptor);
  property Adaptor: ITreeAdaptor read FAdaptor;
public
  property TreeAdaptor: ITreeAdaptor read FAdaptor write SetAdaptor;
```

```
>>
```

```
parserMembersConstructor() ::= <<
FAdaptor := TCommonTreeAdaptor.Create;
>>
```

```
parserMembersImplementation() ::= <<
```



```

procedure T<grammar.recognizerName>.SetAdaptor(const Value: ITreeAdaptor);
begin
  FAdaptor := Value;
  <grammar.directDelegates: {g|<g.delegateName()>.TreeAdaptor := FAdaptor;}>
end;
>>

@returnScope.ruleReturnMembers() ::= <<
function T<grammar.recognizerName>.T<ruleDescriptor:returnStructName()>.GetTree: IANTLRInterface;
begin
  Result := FTree;
end;

procedure T<grammar.recognizerName>.T<ruleDescriptor:returnStructName()>.SetTree(const Value:
IANTLRInterface);
begin
  FTree := Value as I<ASTLabelType>;
end;
>>

@returnScopeDeclaration.ruleReturnMembers() ::= <<
strict private
  FTree: I<ASTLabelType>;
protected
  { IRuleReturnScope }
  function GetTree: IANTLRInterface; override;
  procedure SetTree(const Value: IANTLRInterface); override;
>>

/** Add a variable to track rule's return AST */
ruleDeclarations() ::= <<
<super.ruleDeclarations()>
Root[0] := nil;<\n>
>>

ruleDeclarationVars() ::= <<
<super.ruleDeclarationVars()>
Root: array [0..63] of I<ASTLabelType>;
>>

ruleLabelDefs() ::= <<
<super.ruleLabelDefs()>
<ruleDescriptor.tokenLabels: {<it.label.text>_tree := nil;}; separator="\n">
<ruleDescriptor.tokenListLabels: {<it.label.text>_tree := nil;}; separator="\n">
<ruleDescriptor.allTokenRefsInAltsWithRewrites: {Locals['Stream_<it>'] :=
TRewriteRule<rewriteElementType>Stream.Create(Adaptor,'token <it>');}; separator="\n">
<ruleDescriptor.allRuleRefsInAltsWithRewrites: {Locals['Stream_<it>'] :=
TRewriteRuleSubtreeStream.Create(Adaptor,'rule <it>');}; separator="\n">

```

```

>>

ruleLabelDefVars() ::= <<
<super.ruleLabelDefVars()>
<ruleDescriptor.tokenLabels:{<it.label.text>_tree: I<ASTLabelType>;}; separator="\n">
<ruleDescriptor.tokenListLabels:{<it.label.text>_tree: I<ASTLabelType>;}; separator="\n">
>>
/** When doing auto AST construction, we must define some variables;
 * These should be turned off if doing rewrites. This must be a "mode"
 * as a rule could have both rewrite and AST within the same alternative
 * block.
 */
@alt.declarations() ::= <<
<if(autoAST)>
<if(outerAlt)>
<if(!rewriteMode)>
Root[0] := Adaptor.GetNilNode as I<ASTLabelType>;
<endif>
<endif>
<endif>
>>

// Tracking Rule Elements

/** ID and track it for use in a rewrite rule */
tokenRefTrack(token,label,elementIndex,hetero) ::= <<
<tokenRefBang(...)> <! Track implies no auto AST construction!>
<if(backtracking)>if (State.Backtracking = 0) then <endif>(Locals['Stream_<token>'] as
IRewriteRuleElementStream).Add(<label>);<\n>
>>

/** ids+=ID and track it for use in a rewrite rule; adds to ids *and*
 * to the tracking list stream_ID for use in the rewrite.
 */
tokenRefTrackAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRefTrack(...)>
<listLabel(elem=label,...)>
>>

/** ^(ID ...) track for rewrite */
tokenRefRuleRootTrack(token,label,elementIndex,hetero) ::= <<
<tokenRefBang(...)>
<if(backtracking)>if (State.Backtracking = 0) then <endif>(Locals['Stream_<token>'] as
IRewriteRuleElementStream).Add(<label>);<\n>
>>

/** Match ^(label+=TOKEN ...) track for rewrite */
tokenRefRuleRootTrackAndListLabel(token,label,elementIndex,hetero) ::= <<

```

```

<tokenRefRuleRootTrack(...)>
<listLabel(elem=label,...)>
>>

wildcardTrack(label,elementIndex) ::= <<
<super.wildcard(...)>
>>

/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(...)>
<if(backtracking)>if (State.Backtracking = 0) then <endif>(Locals['Stream_<rule.name>'] as
IRewriteRuleElementStream).Add(<label>.Tree);<\n>
>>

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefTrack(...)>
<listLabel(elem=label+".Tree",...)>
>>

/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...)>
<if(backtracking)>if (State.Backtracking = 0) then <endif>(Locals['Stream_<rule>'] as
IRewriteRuleElementStream).Add(<label>.Tree);
>>

/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRootTrack(...)>
<listLabel(elem=label+".Tree",...)>
>>

// R e w r i t e

rewriteCode(
alts, description,
referencedElementsDeep, // ALL referenced elements to right of ->
referencedTokenLabels,
referencedTokenListLabels,
referencedRuleLabels,
referencedRuleListLabels,
referencedWildcardLabels,
referencedWildcardListLabels,
rewriteBlockLevel, enclosingTreeLevel, treeLevel) ::=
<<

```

```

// AST REWRITE
// elements:      <referencedElementsDeep; separator=", ">
// token labels:  <referencedTokenLabels; separator=", ">
// rule labels:   <referencedRuleLabels; separator=", ">
// token list labels: <referencedTokenListLabels; separator=", ">
// rule list labels: <referencedRuleListLabels; separator=", ">
<if(backtracking)>
if (State.Backtracking = 0) then
begin<\n>
<endif>
<prevRuleRootRef().Tree := Root[0];
<rewriteCodeLabels()>
Root[0] := Adaptor.GetNilNode as I<ASTLabelType>;
<alts:rewriteAlt(); separator="else ">
<! if tree parser and rewrite=true !>
<if(TREE_PARSER)>
<if(rewriteMode)>
<prevRuleRootRef().Tree = (<ASTLabelType>)adaptor.rulePostProcessing(root[0]);
input.ReplaceChildren(adaptor.GetParent(retval.Start),
                    adaptor.GetChildIndex(retval.Start),
                    adaptor.GetChildIndex(_last),
                    retval.Tree);
<endif>
<endif>
<! if parser or rewrite!=true, we need to set result !>
<if(!TREE_PARSER)>
<prevRuleRootRef().Tree := Root[0];<\n>
<endif>
<if(!rewriteMode)>
<prevRuleRootRef().Tree := Root[0];<\n>
<endif>
<if(backtracking)>
end;
<endif>
>>

rewriteCodeLabels() ::= <<
<referencedTokenLabels
: {Locals['Stream_<it>'] := TRewriteRule<rewriteElementType>Stream.Create(Adaptor, 'token <it>', <it>);};
separator="\n"
>
<referencedTokenListLabels
: {Locals['Stream_<it>'] := TRewriteRule<rewriteElementType>Stream.Create(Adaptor, 'token <it>', list_<it>);};
separator="\n"
>
<referencedRuleLabels: {
if Assigned(<it>) then
Locals['Stream_<it>'] := TRewriteRuleSubtreeStream.Create(Adaptor, 'token <it>', <it>.Tree)

```

```

else
  Locals['Stream_<it>'] := TRewriteRuleSubtreeStream.Create(Adaptor, 'token <it>', nil);}; separator="\n">
<referencedRuleListLabels
  :{Locals['Stream_<it>'] := TRewriteRuleSubtreeStream.Create(Adaptor, 'token <it>', list_<it>)};
  separator="\n"
>
>>

/** Generate code for an optional rewrite block; note it uses the deep ref'd element
 * list rather shallow like other blocks.
 */
rewriteOptionalBlock(
  alt,rewriteBlockLevel,
  referencedElementsDeep, // all nested refs
  referencedElements, // elements in immediately block; no nested blocks
  description) ::=
<<
(* <fileName>:<description> *)
if (<referencedElementsDeep:{el | (Locals['Stream_<el>'] as IRewriteRuleElementStream).HasNext}; separator="
or ">) then
begin
  <alt>
end;
<referencedElementsDeep:{el | (Locals['Stream_<el>'] as IRewriteRuleElementStream).Reset;<n>}>
>>

rewriteClosureBlock(
  alt,rewriteBlockLevel,
  referencedElementsDeep, // all nested refs
  referencedElements, // elements in immediately block; no nested blocks
  description) ::=
<<
(* <fileName>:<description> *)
while (<referencedElements:{el | (Locals['Stream_<el>'] as IRewriteRuleElementStream).HasNext}; separator=" or
">) do
begin
  <alt>
end;
<referencedElements:{el | (Locals['Stream_<el>'] as IRewriteRuleElementStream).Reset();<n>}>
>>

rewritePositiveClosureBlock(
  alt,rewriteBlockLevel,
  referencedElementsDeep, // all nested refs
  referencedElements, // elements in immediately block; no nested blocks
  description) ::=
<<
if (not (<referencedElements:{el | (Locals['Stream_<el>'] as IRewriteRuleElementStream).HasNext}; separator=" or

```

```

">)) then
  raise ERewriteEarlyExitException.Create("");

while (<referencedElements:{el | (Locals['Stream_<el>'] as IRewriteRuleElementStream).HasNext}; separator=" or
">) do
begin
  <alt>
end;
<referencedElements:{el | (Locals['Stream_<el>'] as IRewriteRuleElementStream).Reset();<n>}>
>>

rewriteAlt(a) ::= <<
(* <a.description> *)
<if(a.pred)>
if (<a.pred>) then
begin
  <a.alt>
end<\n>
<else>
begin
  <a.alt>
end;<\n>
<endif>
>>

/** For empty rewrites: "r : ... -> ;" */
rewriteEmptyAlt() ::= "Root[0] = null;"

rewriteTree(root,children,description,enclosingTreeLevel,treeLevel) ::= <<
(* <fileName>:<description> *)
begin
  Root[<treeLevel>] := Adaptor.GetNilNode as I<ASTLabelType>;
  <root:rewriteElement()>
  <children:rewriteElement()>
  Adaptor.AddChild(Root[<enclosingTreeLevel>], Root[<treeLevel>]);
end;<\n>
>>

rewriteElementList(elements) ::= "<elements:rewriteElement()>"

rewriteElement(e) ::= <<
<@pregen()>
<e.el>
>>

/** Gen ID or ID[args] */
rewriteTokenRef(token,elementIndex,hetero,args) ::= <<
Adaptor.AddChild(Root[<treeLevel>], <createRewriteNodeFromElement(...)>);<n>

```

```

>>

/** Gen $label ... where defined via label=ID */
rewriteTokenLabelRef(label,elementIndex) ::= <<
Adaptor.AddChild(Root[<treeLevel>], (Locals['Stream_<label>'] as
IRewriteRuleElementStream).NextNode());<\n>
>>

/** Gen $label ... where defined via label+=ID */
rewriteTokenListLabelRef(label,elementIndex) ::= <<
Adaptor.AddChild(Root[<treeLevel>], (Locals['Stream_<label>'] as IRewriteRuleElementStream).NextNode());<\n>
>>

/** Gen ^($label ...) */
rewriteTokenLabelRefRoot(label,elementIndex) ::= <<
Root[<treeLevel>] := Adaptor.BecomeRoot((Locals['Stream_<label>'] as
IRewriteRuleElementStream).NextNode(), Root[<treeLevel>]) as I<ASTLabelType>;<\n>
>>

/** Gen ^($label ...) where label+=... */
rewriteTokenListLabelRefRoot ::= rewriteTokenLabelRefRoot

/** Gen ^(ID ...) or ^(ID[args] ...) */
rewriteTokenRefRoot(token,elementIndex,hetero,args) ::= <<
Root[<treeLevel>] := Adaptor.BecomeRoot(<createRewriteNodeFromElement(...)>, Root[<treeLevel>]) as
I<ASTLabelType>;<\n>
>>

rewriteImaginaryTokenRef(args,token,hetero,elementIndex) ::= <<
Adaptor.AddChild(Root[<treeLevel>], <createImaginaryNode(tokenType=token, ...)>);<\n>
>>

rewriteImaginaryTokenRefRoot(args,token,hetero,elementIndex) ::= <<
Root[<treeLevel>] := Adaptor.BecomeRoot(<createImaginaryNode(tokenType=token, ...)>, Root[<treeLevel>]) as
I<ASTLabelType>;<\n>
>>

/** plain -> {foo} action */
rewriteAction(action) ::= <<
Root[0] = <action>;<\n>
>>

/** What is the name of the previous value of this rule's root tree? This
* let's us refer to $rule to mean previous value. I am reusing the
* variable 'tree' sitting in retval struct to hold the value of Root[0] right
* before I set it during rewrites. The assign will be to retval.Tree.
*/
prevRuleRootRef() ::= "RetVal"

```

```

rewriteRuleRef(rule) ::= <<
Adaptor.AddChild(Root[<treeLevel>], (Locals['Stream_<rule>'] as IRewriteRuleElementStream).NextTree());<\n>
>>

rewriteRuleRefRoot(rule) ::= <<
Root[<treeLevel>] := Adaptor.BecomeRoot((Locals['Stream_<rule>'] as IRewriteRuleElementStream).NextNode,
Root[<treeLevel>]) as I<ASTLabelType>;<\n>
>>

rewriteNodeAction(action) ::= <<
Adaptor.AddChild(Root[<treeLevel>], <action>);<\n>
>>

rewriteNodeActionRoot(action) ::= <<
Root[<treeLevel>] := Adaptor.BecomeRoot(<action>, Root[<treeLevel>]) as I<ASTLabelType>;<\n>
>>

/** Gen $ruleLabel ... where defined via ruleLabel=rule */
rewriteRuleLabelRef(label) ::= <<
Adaptor.AddChild(Root[<treeLevel>], (Locals['Stream_<label>'] as IRewriteRuleElementStream).NextTree());<\n>
>>

/** Gen $ruleLabel ... where defined via ruleLabel+=rule */
rewriteRuleListLabelRef(label) ::= <<
Adaptor.AddChild(Root[<treeLevel>], (Locals['Stream_<label>'] as IRewriteRuleElementStream).NextTree());<\n>
>>

/** Gen ^($ruleLabel ...) where ruleLabel=rule */
rewriteRuleLabelRefRoot(label) ::= <<
Root[<treeLevel>] := Adaptor.BecomeRoot((Locals['Stream_<label>'] as IRewriteRuleElementStream).NextNode,
Root[<treeLevel>]) as I<ASTLabelType>;<\n>
>>

/** Gen ^($ruleLabel ...) where ruleLabel+=rule */
rewriteRuleListLabelRefRoot(label) ::= <<
Root[<treeLevel>] := Adaptor.BecomeRoot((Locals['Stream_<label>'] as IRewriteRuleElementStream).NextNode,
Root[<treeLevel>]) as I<ASTLabelType>;<\n>
>>

createImaginaryNode(tokenType,hetero,args) ::= <<
<if(hetero)>
<! new MethodNode(IDLabel, args) !>
T<hetero>.Create(<tokenType><if(args)>, <args; separator=", "><endif>)
<else>
Adaptor.CreateNode(<tokenType>, <args; separator=", "><if(!args)><tokenType><endif>) as I<ASTLabelType>
<endif>
>>

```



```

createRewriteNodeFromElement(token,hetero,args) ::= <<
<if(hetero)>
T<hetero>.Create((Locals['Stream_<token>'] as IRewriteRuleElementStream).NextToken<if(args)>, <args;
separator=", "><endif>)
<else>
<if(args)> <! must create new node from old !>
Adaptor.Create(<token>, <args; separator=", ">)
<else>
(Locals['Stream_<token>'] as IRewriteRuleElementStream).NextNode
<endif>
<endif>
>>

```

Found in path(s):

* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/codegen/templates/Delphi/AST.stg
No license file was found, but licenses were detected in source scan.

/*

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*/

```

/** Templates for building ASTs during tree parsing.
 *
 * Deal with many combinations. Dimensions are:
 * Auto build or rewrite
 * no label, label, list label (label/no-label handled together)
 * child, root
 * token, set, rule, wildcard
 *
 * Each combination has its own template except that label/no label
 * is combined into tokenRef, ruleRef, ...
 */
group ASTTreeParser;

/** Add a variable to track last element matched */
ruleDeclarations() ::= <<
<super.ruleDeclarations()>
_First[0] := nil;
_Last := nil;<\n>
>>

ruleDeclarationVars() ::= <<
<super.ruleDeclarationVars()>
_First, _Save_Last: array [0..63] of I<ASTLabelType>;
_Last: I<ASTLabelType>;
>>

/** What to emit when there is no rewrite rule. For auto build
 * mode, does nothing.
 */
noRewrite(rewriteBlockLevel, treeLevel) ::= <<
<if(backtracking)>if (State.Backtracking = 0) then
begin<endif>
<if(rewriteMode)>
RetVal.Tree := _First[0] as I<ASTLabelType>;
if (Adaptor.GetParent(RetVal.Tree) \<\> nil) and (Adaptor.IsNil(Adaptor.GetParent(RetVal.Tree))) then
RetVal.Tree := Adaptor.GetParent(RetVal.Tree) as I<ASTLabelType>;
<endif>
<if(backtracking)>end;<endif>
>>

/** match ^(root children) in tree parser; override here to
 * add tree construction actions.
 */
tree(root, actionsAfterRoot, children, nullableChildList,
enclosingTreeLevel, treeLevel) ::= <<
_Last := Input.LT(1) as I<ASTLabelType>;
begin

```

```

_Save_Last[<treeLevel>] := _Last;
_First[<treeLevel>] := nil;
<if(!rewriteMode)>
  Root[<treeLevel>] := Adaptor.GetNilNode as I<ASTLabelType>;<\n>
<endif>
  <root:element()>
  <if(rewriteMode)>
  <if(backtracking)>if (State.Backtracking = 0) then <endif>
  <if(root.el.rule)>
  if (_First[<enclosingTreeLevel>] = nil) then _First[<enclosingTreeLevel>] := <root.el.label>.Tree;
  <else>
  if (_First[<enclosingTreeLevel>] = nil) then _First[<enclosingTreeLevel>] := <root.el.label>;
  <endif>
  <endif>
  <actionsAfterRoot:element()>
  <if(nullableChildList)>
  if (Input.LA(1) = TToken.DOWN) then
  begin
  Match(Input, TToken.DOWN, nil); <checkRuleBacktrackFailure()>
  <children:element()>
  Match(Input, TToken.UP, nil); <checkRuleBacktrackFailure()>
  end;
  <else>
  Match(Input, TToken.DOWN, nil); <checkRuleBacktrackFailure()>
  <children:element()>
  Match(Input, TToken.UP, nil); <checkRuleBacktrackFailure()>
  <endif>
  <if(!rewriteMode)>
  Adaptor.AddChild(Root[<enclosingTreeLevel>], Root[<treeLevel>]);
  <endif>
  _Last := _Save_Last[<treeLevel>];
  end;<\n>
  >>

// TOKEN AST STUFF

/** ID! and output=AST (same as plain tokenRef) 'cept add
 * setting of _last
 */
tokenRefBang(token,label,elementIndex) ::= <<
_Last := Input.LT(1) as I<ASTLabelType>;
<super.tokenRef(...)>
>>

/** ID auto construct */
tokenRef(token,label,elementIndex,hetero) ::= <<
_Last := Input.LT(1) as I<ASTLabelType>;
<super.tokenRef(...)>

```

```

<if(!rewriteMode)>
<if(backtracking)>
if (State.Backtracking = 0) then
begin<\n>
<endif>
<if(hetero)>
<label>_tree := T<hetero>.Create(<label>);
<else>
<label>_tree := Adaptor.DupNode(<label>) as I<ASTLabelType>;
<endif><\n>
Adaptor.AddChild(Root[<treeLevel>], <label>_tree);
<if(backtracking)>
end;
<endif>
<else> <! rewrite mode !>
<if(backtracking)>if (State.Backtracking = 0) then <endif>
if (_First[<treeLevel>] = nil) then _First[<treeLevel>] := <label>;
<endif>
>>

/** label+=TOKEN auto construct */
tokenRefAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRef(...)>
<listLabel(elem=label,...)>
>>

/** ^(ID ...) auto construct */
tokenRefRuleRoot(token,label,elementIndex,hetero) ::= <<
_Last := Input.LT(1) as I<ASTLabelType>;
<super.tokenRef(...)>
<if(!rewriteMode)>
<if(backtracking)>
if (State.Backtracking = 0) then
begin
<endif>
<if(hetero)>
<label>_tree := T<hetero>.Create(<label>);
<else>
<label>_tree := Adaptor.DupNode(<label>) as I<ASTLabelType>;
<endif><\n>
Root[<treeLevel>] := Adaptor.BecomeRoot(<label>_tree, Root[<treeLevel>]) as I<ASTLabelType>;
<if(backtracking)>
end;
<endif>
<endif>
>>

/** Match ^(label+=TOKEN ...) auto construct */

```

```

tokenRefRuleRootAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRefRuleRoot(...)>
<listLabel(elem=label,...)>
>>

// SET AST

matchSet(s,label,hetero,elementIndex,postmatchCode) ::= <<
_Llast := Input.LT(1) as I<ASTLabelType>;
<super.matchSet(..., postmatchCode={
<if(!rewriteMode)>
<if(backtracking)>if (State.Backtracking = 0) then begin <endif>
<if(hetero)>
<label>_tree := T<hetero>.Create(<label>);
<else>
<label>_tree := Adaptor.DupNode(<label>) as I<ASTLabelType>;
<endif><\n>
Adaptor.AddChild(Root[<treeLevel>], <label>_tree);
<if(backtracking)>end;<endif>
<endif>
}
)>
>>

matchRuleBlockSet(s,label,hetero,elementIndex,postmatchCode,treeLevel="0") ::= <<
<matchSet(...)>
<noRewrite()> <! set return tree !>
>>

matchSetBang(s,label,elementIndex,postmatchCode) ::= <<
_Last := Input.LT(1) as I<ASTLabelType>;
<super.matchSet(...)>
>>

matchSetRuleRoot(s,label,hetero,elementIndex,debug) ::= <<
<super.matchSet(..., postmatchCode={
<if(!rewriteMode)>
<if(backtracking)>if (State.Backtracking = 0) then begin <endif>
<if(hetero)>
<label>_tree := T<hetero>.Create(<label>);
<else>
<label>_tree := Adaptor.DupNode(<label>) as I<ASTLabelType>;
<endif><\n>
Root[<treeLevel>] := Adaptor.BecomeRoot(<label>_tree, Root[<treeLevel>]) as I<ASTLabelType>;
<if(backtracking)>end;<endif>
<endif>
}
)>

```

>>

// RULE REF AST

/** rule auto construct */

```
ruleRef(rule,label,elementIndex,args,scope) ::= <<
  _Last := Input.LT(1) as I<ASTLabelType>;
  <super.ruleRef(...)>
  <if(backtracking)>if (State.Backtracking = 0) then <endif>
  <if(!rewriteMode)>
  Adaptor.AddChild(Root[<treeLevel>], <label>.Tree);
  <else> <! rewrite mode !>
  if (_First[<treeLevel>] = nil) then _First[<treeLevel>] := <label>.Tree;
  <endif>
>>
```

/** x+=rule auto construct */

```
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  <ruleRef(...)>
  <listLabel(elem=label+".Tree",...)>
>>
```

/** ^(rule ...) auto construct */

```
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
  _Last := Input.LT(1) as I<ASTLabelType>;
  <super.ruleRef(...)>
  <if(!rewriteMode)>
  <if(backtracking)>if (State.Backtracking = 0) then <endif>Root[<treeLevel>] :=
  Adaptor.BecomeRoot(<label>.Tree, Root[<treeLevel>]) as I<ASTLabelType>;
  <endif>
>>
```

/** ^(x+=rule ...) auto construct */

```
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  <ruleRefRuleRoot(...)>
  <listLabel(elem=label+".Tree",...)>
>>
```

/** rule when output=AST and tracking for rewrite */

```
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
  _Last := Input.LT(1) as I<ASTLabelType>;
  <super.ruleRefTrack(...)>
>>
```

/** x+=rule when output=AST and tracking for rewrite */

```
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  _Last := Input.LT(1) as I<ASTLabelType>;
  <super.ruleRefTrackAndListLabel(...)>
>>
```

>>

```
/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
  _Last := Input.LT(1) as I<ASTLabelType>;
  <super.ruleRefRuleRootTrack(...)>
>>
```

```
/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  _Last := Input.LT(1) as I<ASTLabelType>;
  <super.ruleRefRuleRootTrackAndListLabel(...)>
>>
```

```
/** Streams for token refs are tree nodes now; override to
 * change nextToken to nextNode.
 */
createRewriteNodeFromElement(token,hetero,scope) ::= <<
  <if(hetero)>
  T<hetero>.Create((Locals['Stream_<token>'] as IRewriteRuleElementStream).NextNode)
  <else>
  (Locals['Stream_<token>'] as IRewriteRuleElementStream).NextNode
  <endif>
>>
```

```
ruleCleanUp() ::= <<
  <super.ruleCleanUp()>
  <if(!rewriteMode)>
  <if(backtracking)>
  if (State.Backtracking = 0) then
  begin<\n>
  <endif>
  RetVal.Tree := Adaptor.RulePostProcessing(Root[0]) as I<ASTLabelType>;
  <if(backtracking)>
  end;
  <endif>
  <endif>
>>
```

Found in path(s):

```
* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-
jar/org/antlr/codegen/templates/Delphi/ASTTreeParser.stg
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```

/*

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*/

/** Templates for building ASTs during tree parsing.

*

* Deal with many combinations. Dimensions are:

* Auto build or rewrite

* no label, label, list label (label/no-label handled together)

* child, root

* token, set, rule, wildcard

*

* Each combination has its own template except that label/no label

* is combined into tokenRef, ruleRef, ...

*/

group ASTTreeParser;

/** Add a variable to track last element matched */

```
ruleDeclarations() ::= <<
```

```
<super.ruleDeclarations()>
```

```
<ASTLabelType> _first_0 = null;
```

```
<ASTLabelType> _last = null;<\n>
```

```
>>
```

/** What to emit when there is no rewrite rule. For auto build

* mode, does nothing.


```

*/
noRewrite(rewriteBlockLevel, treeLevel) ::= <<
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<if(rewriteMode)>
retval.Tree = (<ASTLabelType>)_first_0;
if (adaptor.GetParent(retval.Tree)!=null && adaptor.IsNil(adaptor.GetParent(retval.Tree)))
    retval.Tree = (<ASTLabelType>)adaptor.GetParent(retval.Tree);
<endif>
<if(backtracking)>}<endif>
>>

/** match ^(root children) in tree parser; override here to
* add tree construction actions.
*/
tree(root, actionsAfterRoot, children, nullableChildList,
    enclosingTreeLevel, treeLevel) ::= <<
_last = (<ASTLabelType>)input.LT(1);
{
<ASTLabelType> _save_last_<treeLevel> = _last;
<ASTLabelType> _first_<treeLevel> = null;
<if(!rewriteMode)>
<ASTLabelType> root_<treeLevel> = (<ASTLabelType>)adaptor.Nil();
<endif>
<root:element()>
<if(rewriteMode)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> )<endif>
<if(root.el.rule)>
if ( _first_<enclosingTreeLevel>==null ) _first_<enclosingTreeLevel> = <root.el.label>.Tree;
<else>
if ( _first_<enclosingTreeLevel>==null ) _first_<enclosingTreeLevel> = <root.el.label>;
<endif>
<endif>
<actionsAfterRoot:element()>
<if(nullableChildList)>
if ( input.LA(1)==TokenTypes.Down ) {
    Match(input, TokenTypes.Down, null); <checkRuleBacktrackFailure()>
    <children:element()>
    Match(input, TokenTypes.Up, null); <checkRuleBacktrackFailure()>
}
<else>
Match(input, TokenTypes.Down, null); <checkRuleBacktrackFailure()>
<children:element()>
Match(input, TokenTypes.Up, null); <checkRuleBacktrackFailure()>
<endif>
<if(!rewriteMode)>
adaptor.AddChild(root_<enclosingTreeLevel>, root_<treeLevel>);
<endif>
_last = _save_last_<treeLevel>;

```

```

}<\n>
>>

// TOKEN AST STUFF

/** ID! and output=AST (same as plain tokenRef) 'cept add
 * setting of _last
 */
tokenRefBang(token,label,elementIndex) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.tokenRef(...)>
>>

/** ID auto construct */
tokenRef(token,label,elementIndex,hetero) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.tokenRef(...)>
<if(!rewriteMode)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<if(hetero)>
<label>_tree = new <hetero>(<label>);
<else>
<label>_tree = (<ASTLabelType>)adaptor.DupNode(<label>);
<endif><\n>
adaptor.AddChild(root_<treeLevel>, <label>_tree);
<if(backtracking)>}<endif>
<else> <! rewrite mode !>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> )<endif>
if ( _first_<treeLevel>==null ) _first_<treeLevel> = <label>;
<endif>
>>

/** label+=TOKEN auto construct */
tokenRefAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRef(...)>
<listLabel(elem=label,...)>
>>

/** ^(ID ...) auto construct */
tokenRefRuleRoot(token,label,elementIndex,hetero) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.tokenRef(...)>
<if(!rewriteMode)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<if(hetero)>
<label>_tree = new <hetero>(<label>);
<else>
<label>_tree = (<ASTLabelType>)adaptor.DupNode(<label>);

```

```

<endif><\n>
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(<label>_tree, root_<treeLevel>);
<if(backtracking)>}<endif>
<endif>
>>

/** Match ^(label+=TOKEN ...) auto construct */
tokenRefRuleRootAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRefRuleRoot(...)>
<listLabel(elem=label,...)>
>>

/** Match . wildcard and auto dup the node/subtree */
wildcard(token,label,elementIndex,hetero) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.wildcard(...)>
<if(!rewriteMode)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<label>_tree = (<ASTLabelType>)adaptor.DupTree(<label>);
adaptor.AddChild(root_<treeLevel>, <label>_tree);
<if(backtracking)>}<endif>
<else> <! rewrite mode !>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> )<endif>
if ( _first_<treeLevel>==null ) _first_<treeLevel> = <label>;
<endif>
>>

// SET AST

matchSet(s,label,hetero,elementIndex,postmatchCode) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.matchSet(..., postmatchCode={
<if(!rewriteMode)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<if(hetero)>
<label>_tree = new <hetero>(<label>);
<else>
<label>_tree = (<ASTLabelType>)adaptor.DupNode(<label>);
<endif><\n>
adaptor.AddChild(root_<treeLevel>, <label>_tree);
<if(backtracking)>}<endif>
<endif>
}
)>
>>

matchRuleBlockSet(s,label,hetero,elementIndex,postmatchCode,treeLevel="0") ::= <<
<matchSet(...)>

```

```

<noRewrite()> <! set return tree !>
>>

matchSetBang(s,label,elementIndex,postmatchCode) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.matchSet(...)>
>>

matchSetRuleRoot(s,label,hetero,elementIndex,debug) ::= <<
<super.matchSet(..., postmatchCode={
<if(!rewriteMode)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<if(hetero)>
<label>_tree = new <hetero>(<label>);
<else>
<label>_tree = (<ASTLabelType>)adaptor.DupNode(<label>);
<endif><\n>
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(<label>_tree, root_<treeLevel>);
<if(backtracking)>}<endif>
<endif>
}
)>
>>

// RULE REF AST

/** rule auto construct */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.ruleRef(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>
<if(!rewriteMode)>
adaptor.AddChild(root_<treeLevel>, <label>.Tree);
<else> <! rewrite mode !>
if ( _first_<treeLevel>==null ) _first_<treeLevel> = <label>.Tree;
<endif>
>>

/** x+=rule auto construct */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>
<listLabel(elem=label+".Tree",...)>
>>

/** ^(rule ...) auto construct */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.ruleRef(...)>

```

```

<if(!rewriteMode)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>root_<treeLevel> =
(<ASTLabelType>)adaptor.BecomeRoot(<label>.Tree, root_<treeLevel>);
<endif>
>>

/** ^(x+=rule ...) auto construct */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...)>
<listLabel(elem=label+".Tree",...)>
>>

/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.ruleRefTrack(...)>
>>

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.ruleRefTrackAndListLabel(...)>
>>

/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.ruleRefRootTrack(...)>
>>

/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.ruleRefRuleRootTrackAndListLabel(...)>
>>

/** Streams for token refs are tree nodes now; override to
 * change NextToken to NextNode.
 */
createRewriteNodeFromElement(token,hetero,scope) ::= <<
<if(hetero)>
new <hetero>(stream_<token>.NextNode())
<else>
stream_<token>.NextNode()
<endif>
>>

ruleCleanUp() ::= <<

```

```

<super.ruleCleanUp()>
<if(!rewriteMode)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<\n><endif>
retval.Tree = (<ASTLabelType>)adaptor.RulePostProcessing(root_0);
<if(backtracking)>}<endif>
<endif>
>>

```

Found in path(s):

```

* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-
jar/org/antlr/codegen/templates/CSharp2/ASTTreeParser.stg

```

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```

/*

```

```

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```

```

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```

```

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```

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```

*/

```

```

group AST;

```

```

@outputFile.imports() ::= <<

```

```

<@super.imports()>

```

```

<if(!TREE_PARSER)><! tree parser would already have imported !>

```

```

import org.antlr.runtime.tree.*;<\n>

```

```

<endif>

```

```

>>

```

```

@genericParser.members() ::= <<
<@super.members()>
<parserMembers()>
>>

/** Add an adaptor property that knows how to build trees */
parserMembers() ::= <<
protected TreeAdaptor adaptor = new CommonTreeAdaptor();<\n>
public void setTreeAdaptor(TreeAdaptor adaptor) {
    this.adaptor = adaptor;
    <grammar.directDelegates: {g|<g.delegateName()>.setTreeAdaptor(this.adaptor);}>
}
public TreeAdaptor getTreeAdaptor() {
    return adaptor;
}
>>

@returnScope.ruleReturnMembers() ::= <<
<ASTLabelType> tree;
public Object getTree() { return tree; }
>>

/** Add a variable to track rule's return AST */
ruleDeclarations() ::= <<
<super.ruleDeclarations()>
<ASTLabelType> root_0 = null;<\n>
>>

ruleLabelDefs() ::= <<
<super.ruleLabelDefs()>
<[ruleDescriptor.tokenLabels,ruleDescriptor.wildcardTreeLabels,
ruleDescriptor.wildcardTreeListLabels]:{<ASTLabelType> <it.label.text>_tree=null;}; separator="\n">
<ruleDescriptor.tokenListLabels: {<ASTLabelType> <it.label.text>_tree=null;}; separator="\n">
<ruleDescriptor.allTokenRefsInAltsWithRewrites
: {RewriteRule<rewriteElementType>Stream stream_<it>=new
RewriteRule<rewriteElementType>Stream(adaptor,"token <it>");}; separator="\n">
<ruleDescriptor.allRuleRefsInAltsWithRewrites
: {RewriteRuleSubtreeStream stream_<it>=new RewriteRuleSubtreeStream(adaptor,"rule <it>");};
separator="\n">
>>

/** When doing auto AST construction, we must define some variables;
* These should be turned off if doing rewrites. This must be a "mode"
* as a rule could have both rewrite and AST within the same alternative
* block.
*/
@alt.declarations() ::= <<

```

```

<if(autoAST)>
<if(outerAlt)>
<if(!rewriteMode)>
root_0 = (<ASTLabelType>)adaptor.nil();<\n>
<endif>
<endif>
<endif>
>>

// Tracking Rule Elements

/** ID and track it for use in a rewrite rule */
tokenRefTrack(token,label,elementIndex,hetero) ::= <<
<tokenRefBang(...)> <! Track implies no auto AST construction!>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>stream_<token>.add(<label>);<\n>
>>

/** ids+=ID and track it for use in a rewrite rule; adds to ids *and*
 * to the tracking list stream_ID for use in the rewrite.
 */
tokenRefTrackAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRefTrack(...)>
<listLabel(elem=label,...)>
>>

/** ^(ID ...) track for rewrite */
tokenRefRuleRootTrack(token,label,elementIndex,hetero) ::= <<
<tokenRefBang(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>stream_<token>.add(<label>);<\n>
>>

/** Match ^(label+=TOKEN ...) track for rewrite */
tokenRefRuleRootTrackAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRefRuleRootTrack(...)>
<listLabel(elem=label,...)>
>>

/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>stream_<rule.name>.add(<label>.getTree());
>>

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefTrack(...)>
<listLabel(elem=label+".getTree()",...)>
>>

```



```

/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>stream_<rule>.add(<label>.getTree());
>>

```

```

/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRootTrack(...)>
<listLabel(elem=label+".getTree()",...)>
>>

```

// R e w r i t e

```

rewriteCode(
alts, description,
referencedElementsDeep, // ALL referenced elements to right of ->
referencedTokenLabels,
referencedTokenListLabels,
referencedRuleLabels,
referencedRuleListLabels,
referencedWildcardLabels,
referencedWildcardListLabels,
rewriteBlockLevel, enclosingTreeLevel, treeLevel) ::=
<<

```

// AST REWRITE

```

// elements: <referencedElementsDeep; separator=", ">
// token labels: <referencedTokenLabels; separator=", ">
// rule labels: <referencedRuleLabels; separator=", ">
// token list labels: <referencedTokenListLabels; separator=", ">
// rule list labels: <referencedRuleListLabels; separator=", ">
// wildcard labels: <[referencedWildcardLabels,referencedWildcardListLabels]; separator=", ">
<if(backtracking)>
if ( <actions.(actionScope).synpredgate> ) {<\n>
<endif>
<prevRuleRootRef()>.tree = root_0;
<rewriteCodeLabels()>
root_0 = (<ASTLabelType>)adaptor.nil();
<alts:rewriteAlt(); separator="else ">
<! if tree parser and rewrite=true !>
<if(TREE_PARSER)>
<if(rewriteMode)>
<prevRuleRootRef()>.tree = (<ASTLabelType>)adaptor.rulePostProcessing(root_0);
input.replaceChildren(adaptor.getParent(retval.start),
adaptor.getChildIndex(retval.start),
adaptor.getChildIndex(_last),

```

```

        retval.tree);
<endif>
<endif>
<! if parser or tree-parser && rewrite!=true, we need to set result !>
<if(!TREE_PARSER)>
<prevRuleRootRef(>).tree = root_0;
<else>
<if(!rewriteMode)>
<prevRuleRootRef(>).tree = root_0;
<endif>
<endif>
<endif>
<if(backtracking)>
}
<endif>
>>

rewriteCodeLabels() ::= <<
<referencedTokenLabels
: { RewriteRule<rewriteElementType>Stream stream_<it>=new
RewriteRule<rewriteElementType>Stream(adaptor,"token <it>",<it>);};
separator="\n"
>
<referencedTokenListLabels
: { RewriteRule<rewriteElementType>Stream stream_<it>=new
RewriteRule<rewriteElementType>Stream(adaptor,"token <it> ", list_<it>);};
separator="\n"
>
<referencedWildcardLabels
: { RewriteRuleSubtreeStream stream_<it>=new RewriteRuleSubtreeStream(adaptor,"wildcard <it>",<it>);};
separator="\n"
>
<referencedWildcardListLabels
: { RewriteRuleSubtreeStream stream_<it>=new RewriteRuleSubtreeStream(adaptor,"wildcard <it> ",list_<it>);};
separator="\n"
>
<referencedRuleLabels
: { RewriteRuleSubtreeStream stream_<it>=new RewriteRuleSubtreeStream(adaptor,"rule
<it>",<it>!=null?<it>.tree:null);};
separator="\n"
>
<referencedRuleListLabels
: { RewriteRuleSubtreeStream stream_<it>=new RewriteRuleSubtreeStream(adaptor,"token <it> ",list_<it>);};
separator="\n"
>
>>

/** Generate code for an optional rewrite block; note it uses the deep ref'd element
* list rather shallow like other blocks.

```

```

*/
rewriteOptionalBlock(
  alt,rewriteBlockLevel,
  referencedElementsDeep, // all nested refs
  referencedElements, // elements in immediately block; no nested blocks
  description) ::=
<<
// <fileName>:<description>
if ( <referencedElementsDeep:{el | stream_<el>.hasNext()}; separator="||"> ) {
  <alt>
}
<referencedElementsDeep:{el | stream_<el>.reset();<\n>}>
>>

```

```

rewriteClosureBlock(
  alt,rewriteBlockLevel,
  referencedElementsDeep, // all nested refs
  referencedElements, // elements in immediately block; no nested blocks
  description) ::=
<<
// <fileName>:<description>
while ( <referencedElements:{el | stream_<el>.hasNext()}; separator="||"> ) {
  <alt>
}
<referencedElements:{el | stream_<el>.reset();<\n>}>
>>

```

```

rewritePositiveClosureBlock(
  alt,rewriteBlockLevel,
  referencedElementsDeep, // all nested refs
  referencedElements, // elements in immediately block; no nested blocks
  description) ::=
<<
if ( !(<referencedElements:{el | stream_<el>.hasNext()}; separator="||">) ) {
  throw new RewriteEarlyExitException();
}
while ( <referencedElements:{el | stream_<el>.hasNext()}; separator="||"> ) {
  <alt>
}
<referencedElements:{el | stream_<el>.reset();<\n>}>
>>

```

```

rewriteAlt(a) ::= <<
// <a.description>
<if(a.pred)>
if (<a.pred>) {
  <a.alt>
}<\n>

```

```

<else>
{
  <a.alt>
}<\n>
<endif>
>>

/** For empty rewrites: "r : ... -> ;" */
rewriteEmptyAlt() ::= "root_0 = null;"

rewriteTree(root,children,description,enclosingTreeLevel,treeLevel) ::= <<
// <fileName>:<description>
{
  <ASTLabelType> root_<treeLevel> = (<ASTLabelType>)adaptor.nil();
  <root:rewriteElement()>
  <children:rewriteElement()>
  adaptor.addChild(root_<enclosingTreeLevel>, root_<treeLevel>);
}<\n>
>>

rewriteElementList(elements) ::= "<elements:rewriteElement()>"

rewriteElement(e) ::= <<
<@pregen()>
<e.el>
>>

/** Gen ID or ID[args] */
rewriteTokenRef(token,elementIndex,hetero,args) ::= <<
adaptor.addChild(root_<treeLevel>, <createRewriteNodeFromElement(...)>);<\n>
>>

/** Gen $label ... where defined via label=ID */
rewriteTokenLabelRef(label,elementIndex) ::= <<
adaptor.addChild(root_<treeLevel>, stream_<label>.nextNode());<\n>
>>

/** Gen $label ... where defined via label+=ID */
rewriteTokenListLabelRef(label,elementIndex) ::= <<
adaptor.addChild(root_<treeLevel>, stream_<label>.nextNode());<\n>
>>

/** Gen ^($label ...) */
rewriteTokenLabelRefRoot(label,elementIndex) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.becomeRoot(stream_<label>.nextNode(), root_<treeLevel>);<\n>
>>

/** Gen ^($label ...) where label+=... */

```

```
rewriteTokenListLabelRefRoot ::= rewriteTokenLabelRefRoot
```

```
/** Gen ^(ID ...) or ^(ID[args] ...) */
```

```
rewriteTokenRefRoot(token,elementIndex,hetero,args) ::= <<  
root_<treeLevel> = (<ASTLabelType>)adaptor.becomeRoot(<createRewriteNodeFromElement(...)>,  
root_<treeLevel>);<\n>  
>>
```

```
rewriteImaginaryTokenRef(args,token,hetero,elementIndex) ::= <<  
adaptor.addChild(root_<treeLevel>, <createImaginaryNode(tokenType=token, ...)>);<\n>  
>>
```

```
rewriteImaginaryTokenRefRoot(args,token,hetero,elementIndex) ::= <<  
root_<treeLevel> = (<ASTLabelType>)adaptor.becomeRoot(<createImaginaryNode(tokenType=token, ...)>,  
root_<treeLevel>);<\n>  
>>
```

```
/** plain -> {foo} action */  
rewriteAction(action) ::= <<  
root_0 = <action>;<\n>  
>>
```

```
/** What is the name of the previous value of this rule's root tree? This  
* let's us refer to $rule to mean previous value. I am reusing the  
* variable 'tree' sitting in retval struct to hold the value of root_0 right  
* before I set it during rewrites. The assign will be to retval.tree.  
*/  
prevRuleRootRef() ::= "retval"
```

```
rewriteRuleRef(rule) ::= <<  
adaptor.addChild(root_<treeLevel>, stream_<rule>.nextTree());<\n>  
>>
```

```
rewriteRuleRefRoot(rule) ::= <<  
root_<treeLevel> = (<ASTLabelType>)adaptor.becomeRoot(stream_<rule>.nextNode(), root_<treeLevel>);<\n>  
>>
```

```
rewriteNodeAction(action) ::= <<  
adaptor.addChild(root_<treeLevel>, <action>);<\n>  
>>
```

```
rewriteNodeActionRoot(action) ::= <<  
root_<treeLevel> = (<ASTLabelType>)adaptor.becomeRoot(<action>, root_<treeLevel>);<\n>  
>>
```

```
/** Gen $ruleLabel ... where defined via ruleLabel=rule */  
rewriteRuleLabelRef(label) ::= <<  
adaptor.addChild(root_<treeLevel>, stream_<label>.nextTree());<\n>
```

>>

```
/** Gen $ruleLabel ... where defined via ruleLabel+=rule */  
rewriteRuleListLabelRef(label) ::= <<  
adaptor.addChild(root_<treeLevel>, stream_<label>.nextTree());<\n>  
>>
```

```
/** Gen ^($ruleLabel ...) where ruleLabel=rule */  
rewriteRuleLabelRefRoot(label) ::= <<  
root_<treeLevel> = (<ASTLabelType>)adaptor.becomeRoot(stream_<label>.nextNode(), root_<treeLevel>);<\n>  
>>
```

```
/** Gen ^($ruleLabel ...) where ruleLabel+=rule */  
rewriteRuleListLabelRefRoot(label) ::= <<  
root_<treeLevel> = (<ASTLabelType>)adaptor.becomeRoot(stream_<label>.nextNode(), root_<treeLevel>);<\n>  
>>
```

```
rewriteWildcardLabelRef(label) ::= <<  
adaptor.addChild(root_<treeLevel>, stream_<label>.nextTree());<\n>  
>>
```

```
createImaginaryNode(tokenType,hetero,args) ::= <<  
<if(hetero)>  
<! new MethodNode(IDLabel, args) !>  
new <hetero>(<tokenType><if(args)>, <args; separator=", "><endif>)  
<else>  
(<ASTLabelType>)adaptor.create(<tokenType>, <args; separator=", "><if(!args)>"<tokenType>"<endif>)  
<endif>  
>>
```

```
createRewriteNodeFromElement(token,hetero,args) ::= <<  
<if(hetero)>  
new <hetero>(stream_<token>.nextToken()<if(args)>, <args; separator=", "><endif>)  
<else>  
<if(args)> <! must create new node from old !>  
adaptor.create(<token>, <args; separator=", ">)  
<else>  
stream_<token>.nextNode()  
<endif>  
<endif>  
>>
```

Found in path(s):

* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/codegen/templates/Java/AST.stg

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group Dbg;

/*

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*/

```
@parserBody.mixins() ::= <<
include ANTLR3::<if(profile)>Profile<else>Debug<endif>::ParserEvents
>>
```

```
@parserBody.additionalMembers() ::= <<
<if(grammar.grammarIsRoot)>
RULE_NAMES = [
:invalid_rule, <grammar.allImportedRules: {rST|:<rST.name>}>; wrap="\n ", separator=", ">
].freeze
<endif>
>>
```

```
@rule.body() ::= <<
in_rule(grammar_file_name, "<ruleName>") do
@debug_listener.location(<ruleDescriptor.tree.line>, <ruleDescriptor.tree.column>)

<@super.body()>
```

```
@debug_listener.location(<ruleDescriptor.EORNode.line>, <ruleDescriptor.EORNode.column>)  
end  
>>
```

```
// Common debug event triggers used by region overrides below  
enterSubRule() ::= <<  
in_subrule(<decisionNumber>) do<\n>  
>>
```

```
exitSubRule() ::= <<  
end<\n>  
>>
```

```
enterDecision() ::= <<  
in_decision(<decisionNumber>) do<\n>  
>>
```

```
exitDecision() ::= <<  
end<\n>  
>>
```

```
enterAlt(n) ::= <<  
in_alternative(<n>)<\n>  
>>
```

```
// Region overrides that tell various constructs to add debugging triggers  
@block.body() ::= <<  
in_subrule(<decisionNumber>) do  
<@super.body()>  
end  
>>
```

```
// @blockBody.predecision() ::= "<enterSubRule()>"  
// @blockBody.postdecision() ::= "<exitDecision()>"  
// @blockBody.postbranch() ::= "<exitSubRule()>"  
@blockBody.decision() ::= <<  
in_decision(<decisionNumber>) do  
<@super.decision()>  
end  
>>
```



```
@ruleBlock.decision() ::= <<
in_decision(<decisionNumber>) do
  <@super.decision()>
end<\n>
>>
```

```
@ruleBlockSingleAlt.preal() ::= "<enterAlt(n={1})>"
```

```
@blockSingleAlt.preal() ::= "<enterAlt(n={1})>"
```

```
@positiveClosureBlock.loopBody() ::= <<
in_subrule(<decisionNumber>) do
  <@super.loopBody()>
end
>>
```

```
@positiveClosureBlockLoop.decisionBody() ::= <<
in_decision(<decisionNumber>) do
  <@super.decisionBody()>
end
>>
```

```
@positiveClosureBlockLoop.earlyExitException() ::= <<
@debug_listener.recognition_exception(eee)
>>
```

```
@closureBlock.loopBody() ::= <<
in_subrule(<decisionNumber>) do
  <@super.loopBody()>
end
>>
```

```
@closureBlockLoop.decisionBody() ::= <<
in_decision(<decisionNumber>) do
  <@super.decisionBody()>
end
>>
```

```
@altSwitchCase.preal() ::= "<enterAlt(n=i)>"
```

```
element() ::= <<  
  @debug_listener.location(<it.line>, <it.pos>)  
  <super.element()>  
>>
```

```
@matchSet.mismatchedSetException() ::= "@debug_listener.recognition_exception(mse)"
```

```
@dfaState.noViableAltException() ::= <<  
  nvae = NoViableAlternative( "<description>", <decisionNumber>, <stateNumber> )  
  @debug_listener.recognition_exception( nvae )  
  raise( nvae )<\n>  
>>
```

```
@dfaStateSwitch.noViableAltException() ::= <<  
  nvae = NoViableAlternative( "<description>", <decisionNumber>, <stateNumber> )  
  @debug_listener.recognition_exception( nvae )  
  raise( nvae )<\n>  
>>
```

```
dfaDecision(decisionNumber,description) ::= <<  
  begin  
    @state.cyclic_decision = true  
    <super.dfaDecision(...)>  
  rescue ANTLR3::Error::NoViableAlternative => nvae  
    @debug_listener.recognition_exception(nvae)  
    raise  
  end  
>>
```

```
@cyclicDFA.errorMethod() ::= <<  
  def error(nvae)  
    @recognizer.debug_listener.recognition_exception(nvae)  
    super  
  end  
>>  
  /** Force predicate validation to trigger an event */  
  evalPredicate(pred,description) ::= <<  
    predicate?("<description>") { <pred> }  
>>
```

Found in path(s):

* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/codegen/templates/Ruby/Dbg.stg

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*/

/** Templates for building ASTs during normal parsing.

*

* Deal with many combinations. Dimensions are:

* Auto build or rewrite

* no label, label, list label (label/no-label handled together)

* child, root

* token, set, rule, wildcard

*

* The situation is not too bad as rewrite (->) usage makes ^ and !

* invalid. There is no huge explosion of combinations.

*/

group ASTParser;

@rule.setErrorReturnValue() ::= <<

retval.tree = (<ASTLabelType>)(ADAPTOR->errorNode(ADAPTOR, INPUT, retval.start, LT(-1), EXCEPTION));

```

>>

// TOKEN AST STUFF

/** ID and output=AST */
tokenRef(token,label,elementIndex,hetero) ::= <<
<super.tokenRef(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<label>_tree = (<ASTLabelType>)(ADAPTOR->create(ADAPTOR, <label>));
ADAPTOR->addChild(ADAPTOR, root_0, <label>_tree);
<if(backtracking)>}<endif>
>>

/** ID! and output=AST (same as plain tokenRef) */
tokenRefBang(token,label,elementIndex) ::= "<super.tokenRef(...)>"

/** ID^ and output=AST */
tokenRefRuleRoot(token,label,elementIndex,hetero) ::= <<
<super.tokenRef(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<label>_tree = <createNodeFromToken(...)>;
root_0 = (<ASTLabelType>)(ADAPTOR->becomeRoot(ADAPTOR, <label>_tree, root_0));
<if(backtracking)>}<endif>
>>

/** ids+=ID! and output=AST */
tokenRefBangAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRefBang(...)>
<listLabel(elem=label,...)>
>>

/** label+=TOKEN when output=AST but not rewrite alt */
tokenRefAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRef(...)>
<listLabel(elem=label,...)>
>>

/** Match label+=TOKEN^ when output=AST but not rewrite alt */
tokenRefRuleRootAndListLabel(token,label,hetero,elementIndex) ::= <<
<tokenRefRuleRoot(...)>
<listLabel(elem=label,...)>
>>

// SET AST

// the match set stuff is interesting in that it uses an argument list

```

```

// to pass code to the default matchSet; another possible way to alter
// inherited code. I don't use the region stuff because I need to pass
// different chunks depending on the operator. I don't like making
// the template name have the operator as the number of templates gets
// large but this is the most flexible--this is as opposed to having
// the code generator call matchSet then add root code or ruleroot code
// plus list label plus ... The combinations might require complicated
// rather than just added on code. Investigate that refactoring when
// I have more time.

matchSet(s,label,hetero,elementIndex,postmatchCode) ::= <<
<super.matchSet(..., postmatchCode={<if(backtracking)>if ( <actions.(actionScope).synpredgate> )
<endif>ADAPTOR->addChild(ADAPTOR, root_0, <createNodeFromToken(...)>);}>
>>

matchRuleBlockSet(s,label,hetero,elementIndex,postmatchCode,treeLevel="0") ::= <<
<matchSet(...)>
>>

matchSetBang(s,label,elementIndex,postmatchCode) ::= "<super.matchSet(...)>"

// note there is no matchSetTrack because -> rewrites force sets to be
// plain old blocks of alts: (A|B|...|C)

matchSetRuleRoot(s,label,hetero,elementIndex,debug) ::= <<
<if(label)>
<label>=(<labelType>)LT(1);<\n>
<endif>
<super.matchSet(..., postmatchCode={<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>root_0
= (<ASTLabelType>)(ADAPTOR->becomeRoot(ADAPTOR, <createNodeFromToken(...)>, root_0));}>
>>

// RULE REF AST

/** rule when output=AST */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>ADAPTOR->addChild(ADAPTOR, root_0,
<label>.tree);
>>

/** rule! is same as normal rule ref */
ruleRefBang(rule,label,elementIndex,args,scope) ::= "<super.ruleRef(...)>"

/** rule^ */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>root_0 = (<ASTLabelType>)(ADAPTOR->

```

```

>becomeRoot(ADAPTOR, <label>.tree, root_0);
>>

/** x+=rule when output=AST */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>
<listLabelAST(...)>
>>

/** x+=rule! when output=AST is a rule ref with list addition */
ruleRefBangAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefBang(...)>
<listLabelAST(...)>
>>

/** x+=rule^ */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...)>
<listLabelAST(...)>
>>

// WILDCARD AST

wildcard(label,elementIndex) ::= <<
<super.wildcard(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<label>_tree = (<ASTLabelType>)(ADAPTOR->create(ADAPTOR, <label>));
ADAPTOR->addChild(ADAPTOR, root_0, <label>_tree);
<if(backtracking)>}<endif>
>>

wildcardBang(label,elementIndex) ::= "<super.wildcard(...)>"

wildcardRuleRoot(label,elementIndex) ::= <<
<super.wildcard(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<label>_tree = (<ASTLabelType>)(ADAPTOR->create(ADAPTOR, <label>));
root_0 = (<ASTLabelType>)(ADAPTOR->becomeRoot(ADAPTOR, <label>_tree, root_0));
<if(backtracking)>}<endif>
>>

createNodeFromToken(label,hetero) ::= <<
<if(hetero)>
<hetero>New(<label>) <! new MethodNode(IDLabel) !>
<else>
(<ASTLabelType>)(ADAPTOR->create(ADAPTOR, <label>))
<endif>
>>

```

```

ruleCleanUp() ::= <<
<super.ruleCleanUp(...)>
<if(backtracking)>
if ( <actions.(actionScope).synpredgate> )
{<\n>
<endif>
<if(!ruleDescriptor.isSynPred)>
retval.stop = LT(-1);<\n>
<endif>
retval.tree = (<ASTLabelType>)(ADAPTOR->rulePostProcessing(ADAPTOR, root_0));
ADAPTOR->setTokenBoundaries(ADAPTOR, retval.tree, retval.start, retval.stop);
<ruleDescriptor.allTokenRefsInAltsWithRewrites
: {if (stream_<it> != NULL) stream_<it>->free(stream_<it>);}; separator="\n">
<ruleDescriptor.allRuleRefsInAltsWithRewrites
: {if (stream_<it> != NULL) stream_<it>->free(stream_<it>);}; separator="\n">
<if(backtracking)>
}<\n>
<endif>
>>

```

Found in path(s):

* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-
jar/org/antlr/codegen/templates/C/ASTParser.stg

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*/

/** Templates for building ASTs during tree parsing.

*

* Deal with many combinations. Dimensions are:

* Auto build or rewrite

* no label, label, list label (label/no-label handled together)

* child, root

* token, set, rule, wildcard

*

* Each combination has its own template except that label/no label

* is combined into tokenRef, ruleRef, ...

*/

group ASTTreeParser;

/** Add a variable to track last element matched */

ruleDeclarations() ::= <<

<super.ruleDeclarations()>

var _first_0:<ASTLabelType> = null;

var _last:<ASTLabelType> = null;<\n>

>>

/** What to emit when there is no rewrite rule. For auto build

* mode, does nothing.

*/

noRewrite(rewriteBlockLevel, treeLevel) ::= <<

<if(backtracking)>if (<actions.(actionScope).synpredgate>) {<endif>

<if(rewriteMode)>

retval.tree = <ASTLabelType>(_first_0);

if (adaptor.getParent(retval.tree)!=null && adaptor.isNil(adaptor.getParent(retval.tree)))

retval.tree = <ASTLabelType>(adaptor.getParent(retval.tree));

<endif>

<if(backtracking)>}<endif>

>>

/** match ^(root children) in tree parser; override here to

* add tree construction actions.

*/

tree(root, actionsAfterRoot, children, nullableChildList,

enclosingTreeLevel, treeLevel) ::= <<

_last = <ASTLabelType>(input.LT(1));

{

var _save_last_<treeLevel>:<ASTLabelType> = _last;

var _first_<treeLevel>:<ASTLabelType> = null;


```

<if(!rewriteMode)>
var root_<treeLevel>:<ASTLabelType> = <ASTLabelType>(adaptor.nil());
<endif>
<root:element()>
<if(rewriteMode)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> )<endif>
<if(root.el.rule)>
if ( _first_<enclosingTreeLevel>==null ) _first_<enclosingTreeLevel> = <root.el.label>.tree;
<else>
if ( _first_<enclosingTreeLevel>==null ) _first_<enclosingTreeLevel> = <root.el.label>;
<endif>
<endif>
<actionsAfterRoot:element()>
<if(nullableChildList)>
if ( input.LA(1)==TokenConstants.DOWN ) {
    matchStream(input, TokenConstants.DOWN, null); <checkRuleBacktrackFailure()>
    <children:element()>
    matchStream(input, TokenConstants.UP, null); <checkRuleBacktrackFailure()>
}
<else>
matchStream(input, TokenConstants.DOWN, null); <checkRuleBacktrackFailure()>
<children:element()>
matchStream(input, TokenConstants.UP, null); <checkRuleBacktrackFailure()>
<endif>
<if(!rewriteMode)>
adaptor.addChild(root_<enclosingTreeLevel>, root_<treeLevel>);
<endif>
_last = _save_last_<treeLevel>;
}<\n>
>>

// TOKEN AST STUFF

/** ID! and output=AST (same as plain tokenRef) 'cept add
 * setting of _last
 */
tokenRefBang(token,label,elementIndex) ::= <<
_last = <ASTLabelType>(input.LT(1));
<super.tokenRef(...)>
>>

/** ID auto construct */
tokenRef(token,label,elementIndex,hetero) ::= <<
_last = <ASTLabelType>(input.LT(1));
<super.tokenRef(...)>
<if(!rewriteMode)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<if(hetero)>

```

```

<label>_tree = new <hetero>(<label>);
<else>
<label>_tree = <ASTLabelType>(adaptor.dupNode(<label>));
<endif><\n>
adaptor.addChild(root_<treeLevel>, <label>_tree);
<if(backtracking)>}<endif>
<else> <! rewrite mode !>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> )<endif>
if ( _first_<treeLevel>==null ) _first_<treeLevel> = <label>;
<endif>
>>

/** label+=TOKEN auto construct */
tokenRefAndListLabel(token,label,elementIndex) ::= <<
<tokenRef(...)>
<listLabel(elem=label,...)>
>>

/** ^(ID ...) auto construct */
tokenRefRuleRoot(token,label,elementIndex,hetero) ::= <<
_last = <ASTLabelType>(input.LT(1));
<super.tokenRef(...)>
<if(!rewriteMode)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<if(hetero)>
<label>_tree = new <hetero>(<label>);
<else>
<label>_tree = <ASTLabelType>(adaptor.dupNode(<label>));
<endif><\n>
root_<treeLevel> = <ASTLabelType>(adaptor.becomeRoot(<label>_tree, root_<treeLevel>));
<if(backtracking)>}<endif>
<endif>
>>

/** Match ^(label+=TOKEN ...) auto construct */
tokenRefRuleRootAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRefRuleRoot(...)>
<listLabel(elem=label,...)>
>>

/** Match . wildcard and auto dup the node/subtree */
wildcard(token,label,elementIndex,hetero) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.wildcard(...)>
<if(!rewriteMode)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<label>_tree = (<ASTLabelType>)adaptor.dupTree(<label>);
adaptor.addChild(root_<treeLevel>, <label>_tree);

```

```

<if(backtracking)>><endif>
<else> <! rewrite mode !>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> )<endif>
if ( _first_<treeLevel>==null ) _first_<treeLevel> = <label>;
<endif>
>>

// SET AST

matchSet(s,label,hetero,elementIndex,postmatchCode) ::= <<
  _last = <ASTLabelType>(input.LT(1));
  <super.matchSet(..., postmatchCode={
  <if(!rewriteMode)>
  <if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
  <if(hetero)>
  <label>_tree = new <hetero>( <label>);
  <else>
  <label>_tree = <ASTLabelType>(adaptor.dupNode(<label>));
  <endif><\n>
  adaptor.addChild(root_<treeLevel>, <label>_tree);
  <if(backtracking)>><endif>
  <endif>
  }
  )>
  >>

matchRuleBlockSet(s,label,hetero,elementIndex,postmatchCode,treeLevel="0") ::= <<
  <matchSet(...)>
  <noRewrite()> <! set return tree !>
  >>

matchSetBang(s,label,elementIndex,postmatchCode) ::= <<
  _last = <ASTLabelType>(input.LT(1));
  <super.matchSet(...)>
  >>

matchSetRuleRoot(s,label,hetero,elementIndex,debug) ::= <<
  <super.matchSet(..., postmatchCode={
  <if(!rewriteMode)>
  <if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
  <if(hetero)>
  <label>_tree = new <hetero>( <label>);
  <else>
  <label>_tree = <ASTLabelType>(adaptor.dupNode(<label>));
  <endif><\n>
  root_<treeLevel> = <ASTLabelType>(adaptor.becomeRoot(<label>_tree, root_<treeLevel>));
  <if(backtracking)>><endif>
  <endif>
  }
  )>
  >>

```

```

}
)>
>>

// RULE REF AST

/** rule auto construct */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
  _last = <ASTLabelType>(input.LT(1));
  <super.ruleRef(...)>
  <if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>
  <if(!rewriteMode)>
  adaptor.addChild(root_<treeLevel>, <label>.tree);
  <else> <! rewrite mode !>
  if ( _first_<treeLevel>==null ) _first_<treeLevel> = <label>.tree;
  <endif>
  >>

/** x+=rule auto construct */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  <ruleRef(...)>
  <listLabel(elem=label+".tree",...)>
  >>

/** ^(rule ...) auto construct */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
  _last = <ASTLabelType>(input.LT(1));
  <super.ruleRef(...)>
  <if(!rewriteMode)>
  <if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>root_<treeLevel> =
  <ASTLabelType>(adaptor.becomeRoot(<label>.tree, root_<treeLevel>));
  <endif>
  >>

/** ^(x+=rule ...) auto construct */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  <ruleRefRuleRoot(...)>
  <listLabel(elem=label+".tree",...)>
  >>

/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
  _last = <ASTLabelType>(input.LT(1));
  <super.ruleRefTrack(...)>
  >>

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<

```

```

_last = <ASTLabelType>(input.LT(1));
<super.ruleRefTrackAndListLabel(...)>
>>

/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
_last = <ASTLabelType>(input.LT(1));
<super.ruleRefRootTrack(...)>
>>

/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
_last = <ASTLabelType>(input.LT(1));
<super.ruleRefRuleRootTrackAndListLabel(...)>
>>

/** Streams for token refs are tree nodes now; override to
 * change nextToken to nextNode.
 */
createRewriteNodeFromElement(token,hetero,scope) ::= <<
<if(hetero)>
new <hetero>(stream_<token>.nextNode())
<else>
stream_<token>.nextNode()
<endif>
>>

ruleCleanUp() ::= <<
<super.ruleCleanUp()>
<if(!rewriteMode)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<\n><endif>
retval.tree = <ASTLabelType>(adaptor.rulePostProcessing(root_0));
<if(backtracking)>}<endif>
<endif>
>>

```

Found in path(s):

```

* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-
jar/org/antlr/codegen/templates/ActionScript/ASTTreeParser.stg
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```

/*

```

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*/

Found in path(s):

```
* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-  
jar/org/antlr/grammar/v2/AssignTokenTypesWalker.java  
* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/ANTLRLexer.java  
* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-  
jar/org/antlr/grammar/v2/CodeGenTreeWalker.java  
* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/ANTLRTokenTypes.java  
* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/ANTLRParser.java  
* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-  
jar/org/antlr/grammar/v2/CodeGenTreeWalkerTokenTypes.java  
* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-  
jar/org/antlr/grammar/v2/DefineGrammarItemsWalker.java  
* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-  
jar/org/antlr/grammar/v2/TreeToNFAConverterTokenTypes.java  
* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-  
jar/org/antlr/grammar/v2/AssignTokenTypesWalkerTokenTypes.java  
* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-  
jar/org/antlr/grammar/v2/TreeToNFAConverter.java  
* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-  
jar/org/antlr/grammar/v2/ANTLRTreePrinterTokenTypes.java  
* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-  
jar/org/antlr/grammar/v2/DefineGrammarItemsWalkerTokenTypes.java  
* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-  
jar/org/antlr/grammar/v2/ANTLRTreePrinter.java
```

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*/

/*

* Template group file for the Objective C code generator.

* Heavily based on Java.stg

*

* Written by Kay Roepke <kroepke(at)classdump.org>

* Modified by Alan Condit <acondit(at)ipns.com>

*

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*/

group ObjC implements ANTLRCore;

objcTypeInitMap ::= [

```
"int"      : "0",      // Integers  start out being 0
"long"     : "0",      // Longs   start out being 0
"float"    : "0.0",    // Floats  start out being 0
"double"   : "0.0",    // Doubles start out being 0
"BOOL"     : "NO",     // Booleans start out being Antlr ObjC for false
"byte"     : "0",      // Bytes   start out being 0
"short"    : "0",      // Shorts  start out being 0
"char"     : "0",      // Chars   start out being 0
```

```

    "id"      : "nil",      // ids      start out being nil
    default  : "nil"      // anything other than an atomic type
]

className() ::= "<name><!if(LEXER)>Lexer<else><if(TREE_PARSER)>Tree<endif>Parser<endif>!"
leadIn(type) ::=
<<
/** \file
 * This <type> file was generated by $ANTLR version <ANTLRVersion>
 *
 * - From the grammar source file : <fileName>
 * - On : <generatedTimestamp>
<if(LEXER)>
 * - for the lexer : <name>Lexer
<endif>
<if(PARSER)>
 * - for the parser : <name>Parser
<endif>
<if(TREE_PARSER)>
 * - for the tree parser : <name>TreeParser
<endif>
 *
 * Editing it, at least manually, is not wise.
 *
 * ObjC language generator and runtime by Alan Condit, acondit|hereisanat|ipns|dotgoeshere|com.
 *
 *
>>

/** The overall file structure of a recognizer; stores methods for rules
 * and cyclic DFAs plus support code.
 */
outputFile( LEXER,
            PARSER,
            TREE_PARSER,
            actionScope,
            actions,
            docComment,
            recognizer,
            name,
            tokens,
            tokenNames,
            rules,
            cyclicDFAs,
            bitsets,
            buildTemplate,
            buildAST,
            rewriteMode,

```



```

    profile,
    backtracking,
    synpreds,
    memoize,
    numRules,
    fileName,
    ANTLRVersion,
    generatedTimestamp,
    trace,
    scopes,
    superClass,
    literals
) ::=
<<
<leadIn("OBJC source")>
*/
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// $ANTLR <ANTLRVersion> <fileName> <generatedTimestamp>

<if(actions.(actionScope).header)>

/* =====

```

```

* This is what the grammar programmer asked us to put at the top of every file.
*/
<actions.(actionScope).header>
/* End of Header action.
* =====
*/
<endif>

/* -----
* Include the ANTLR3 generated header file.
*/
#import "<name><!<if(LEXER)>Lexer<else><if(TREE_PARSER)>Tree<endif>Parser<endif>!>.h"
<actions.(actionScope).postinclude>
/* ----- */

<docComment>

<if(literals)>
/** String literals used by <name> that we must do things like MATCHS() with.
* C will normally just lay down 8 bit characters, and you can use L"xxx" to
* get wchar_t, but wchar_t is 16 bits on Windows, which is not UTF32 and so
* we perform this little trick of defining the literals as arrays of UINT32
* and passing in the address of these.
*/
<literals:{static ANTLR3_UCHAR lit_<i>[] = <it>;}; separator="\n">

<endif>

/* ===== */

/* =====
* Start of recognizer
*/

<recognizer>

/* End of code
* =====
*/

>>
headerFileExtension() ::= ".h"

headerFile( LEXER,
            PARSEr,
            TREE_PARSER,
            actionScope,
            actions,

```

```

    docComment,
    recognizer,
    name,
    tokens,
    tokenNames,
    rules,
    cyclicDFAs,
    bitsets,
    buildTemplate,
    buildAST,
    rewriteMode,
    profile,
    backtracking,
    synpreds,
    memoize,
    numRules,
    fileName,
    ANTLRVersion,
    generatedTimestamp,
    trace,
    scopes,
    superClass,
    literals
) ::=
<<
// $ANTLR <ANTLRVersion> <fileName> <generatedTimestamp>

<@imports>
<actions.(actionScope).preincludes>
/* =====
* Standard antlr3 OBJC runtime definitions
*/
#import \<Cocoa/Cocoa.h>
#import "antlr3.h"
/* End of standard antlr3 runtime definitions
* =====
*/
<actions.(actionScope).includes>
<@end>

<if(LEXER)>
<lexerHeaderFile(...)>
<endif>
<if(PARSER)>
<parserHeaderFile(...)>
<endif>
<if(TREE_PARSER)>
<treeParserHeaderFile(...)>

```

```

<endif>
<docComment>
>>

lexerHeaderFile( LEXER,
    PARSEr,
    TREE_PARSER,
    actionScope,
    actions,
    docComment,
    recognizer,
    name,
    tokens,
    tokenNames,
    rules,
    cyclicDFAs,
    bitsets,
    buildTemplate,
    profile,
    backtracking,
    synpreds,
    memoize,
    numRules,
    fileName,
    ANTLRVersion,
    generatedTimestamp,
    trace,
    scopes,
    superClass="ANTLRLexer"
) ::=
<<

```

```

/* Start cyclicDFAInterface */

```

```

<cyclicDFAs:cyclicDFAInterface()>

```

```

#pragma mark Rule return scopes start

```

```

<rules:{rule |

```

```

<rule:{ruleDescriptor | <returnScopeInterface(scope=ruleDescriptor.returnScope)>}>

```

```

}>

```

```

#pragma mark Rule return scopes end

```

```

#pragma mark Tokens

```

```

<tokens:{#define <it.name> <it.type>; separator="\n">

```

```

<! @interface <grammar.recognizerName> <@superClassName>: <superClass><@end> { !>

```

```

@interface <className()> <@superClassName>: <superClass><@end> { // line 283

```

```

<cyclicDFAs:{ dfa | DFA<dfa.decisionNumber> *dfa<dfa.decisionNumber>;}; separator="\n">

```

```

<synpreds:{ pred | SEL <pred>Selector;}; separator="\n">

```

```

// start of actions.lexer.memVars

```

```

<actions.lexer.memVars>

```

```

// start of action-actionScope-memVars
<actions.(actionScope).memVars>
}
+ (<className()> *)new<className()>WithCharStream:(id<ANTLRCharStream>)anInput;

<actions.lexer.methodsdecl>
<rules:{rule |
-
(<rule.ruleDescriptor:{ruleDescriptor|<returnType()>>)<if(!rule.ruleDescriptor.isSynPred)>m<rule.ruleName><else><rule.ruleName>_fragment<endif><if(rule.ruleDescriptor.parameterScope)><rule.ruleDescriptor.parameterScope>:parameterScope(scope=it)><endif>; } separator="\n"><\n>
<! <synpreds:{pred|- (void)<pred>_fragment;}; separator="\n"><\n> !>
@end /* end of <className()> interface */<\n>
>>

headerReturnScope(ruleDescriptor) ::= "<returnScope(...)>"
headerReturnType(ruleDescriptor) ::= <<
<if(LEXER)>
<if(!r.ruleDescriptor.isSynPred)>
void
<else>
<ruleDescriptor:returnType()>
<endif>
<else>
<ruleDescriptor:returnType()>
<endif>
>>
// Produce the lexer output
lexer( grammar,
    name,
    tokens,
    scopes,
    rules,
    numRules,
    labelType="id<ANTLRToken>",
    filterMode,
    superClass="ANTLR Lexer"
) ::= <<
<cyclicDFAs:cyclicDFA()>

/** As per Terence: No returns for lexer rules! */
<!
#pragma mark Rule return scopes start
<rules:{rule |
<rule.ruleDescriptor:{ruleDescriptor | <returnScope(scope=ruleDescriptor.returnScope)>>
}>
#pragma mark Rule return scopes end
!>

```

```

@implementation <grammar.recognizerName> // line 330

+ (void) initialize
{
    [ANTLRBaseRecognizer setGrammarFileName:@"<fileName>"];
}

+ (NSString *) tokenNameForType:(NSInteger)aTokenType
{
    return [[self getTokenNames] objectAtIndex:aTokenType];
}

+ (<grammar.recognizerName>
*)new<grammar.recognizerName>WithCharStream:(id<ANTLRCharStream>)anInput
{
    return [[<grammar.recognizerName> alloc] initWithCharStream:anInput];
}

- (id) initWithCharStream:(id<ANTLRCharStream>)anInput
{
    if ((self = [super initWithCharStream:anInput state:[ANTLRRecognizerSharedState
newANTLRRecognizerSharedStateWithRuleLen:<numRules>+1]]) != nil) {
<if(memoize)>
        if ( state.ruleMemo == nil ) {
            state.ruleMemo = [[ANTLRRuleStack newANTLRRuleStackWithSize:<numRules>+1] retain];
        }
        if ( [state.ruleMemo count] == 0 ) {
            // initialize the memoization cache - the indices are 1-based in the runtime code!
            <! [state.ruleMemo addObject:[NSNull null]]; // dummy entry to ensure 1-basedness. !>
            for (NSInteger i = 0; i << <numRules>; i++) {
                [state.ruleMemo addObject:[ANTLRHashRule newANTLRHashRuleWithLen:17]];
            }
        }
    }
<endif>
    <synpreds:{pred | <lexerSynpred(name=pred)>};separator="\n">
    <cyclicDFAs:{dfa | dfa<dfa.decisionNumber> = [DFA<dfa.decisionNumber>
newDFA<dfa.decisionNumber>WithRecognizer:self];}; separator="\n">
    <actions.lexer.init>
}
return self;
}

- (void) dealloc
{
    <cyclicDFAs:{dfa | [dfa<dfa.decisionNumber> release];}; separator="\n">
<actions.lexer.dealloc>
    [super dealloc];
}

```

```

/* Start of actions.lexer.methods */
<actions.lexer.methods>
/* start methods() */
<@methods()>

<if(actions.lexer.reset)>
- (void) reset
{
  <actions.lexer.reset>
  [super reset];
}
<endif>

<if(filterMode)>
<filteringNextToken()>
<endif>
/* Start of Rules */
<rules; separator="\n\n">

@end /* end of <grammar.recognizerName> implementation line 397 */
>>

/** A override of Lexer.nextToken() that backtracks over mTokens() looking
 * for matches. No error can be generated upon error; just rewind, consume
 * a token and then try again. backtracking needs to be set as well.
 * Make rule memoization happen only at levels above 1 as we start mTokens
 * at backtracking==1.
 */
filteringNextToken() ::= <<
- (id<ANTLRToken>) nextToken
{
  while (YES) {
    if ( [input LA:1] == ANTLRCharStreamEOF ) {
      return [ANTLRCommonToken eofToken];
    }
    state.token = nil;
    state.channel = ANTLRTokenChannelDefault;
    state.tokenStartCharIndex = [input getIndex];
    state.tokenStartCharPositionInLine = [input getCharPositionInLine];
    state.tokenStartLine = [input getLine];
    state.text = nil;
    @try {
      NSInteger m = [input mark];
      state.backtracking = 1; /* means we won't throw slow exception */
      state.failed = NO;
      [self mTokens];
      state.backtracking = 0;
    }
  }
}

```

```

    /* mTokens backtracks with synpred at backtracking==2
       and we set the synpredgate to allow actions at level 1. */
    if ( state.failed == YES ) {
        [input rewind:m];
        [input consume]; /* advance one char and try again */
    } else {
        [self emit];
        return state.token;
    }
}
}
@catch (ANTLRRecognitionException *re) {
    // shouldn't happen in backtracking mode, but...
    [self reportError:re];
    [self recover:re];
}
}
}

- (void)memoize:(id<ANTLRIntStream>)anInput
  RuleIndex:(NSInteger)ruleIndex
  StartIndex:(NSInteger)ruleStartIndex
{
    if ( state.backtracking > 1 ) [super memoize:anInput RuleIndex:ruleIndex StartIndex:ruleStartIndex];
}

- (BOOL)alreadyParsedRule:(id<ANTLRIntStream>)anInput RuleIndex:(NSInteger)ruleIndex
{
    if ( state.backtracking > 1 ) return [super alreadyParsedRule:anInput RuleIndex:ruleIndex];
    return NO;
}
>>

actionGate() ::= "state.backtracking == 0"

filteringActionGate() ::= "state.backtracking == 1"

parserHeaderFile( LEXER,
  PARSE,
  TREE_PARSER,
  actionScope,
  actions,
  docComment,
  recognizer,
  name,
  tokens,
  tokenNames,
  rules,
  cyclicDFAs,

```



```

    bitsets,
    buildTemplate,
    profile,
    backtracking,
    synpreds,
    memoize,
    numRules,
    fileName,
    ANTLRVersion,
    generatedTimestamp,
    trace,
    scopes,
    superClass="ANTLRParser"
  ) ::=
<<
/* parserHeaderFile */
<genericParserHeaderFile(...)>
>>

treeParserHeaderFile( LEXER,
  PARSER,
  TREE_PARSER,
  actionScope,
  actions,
  docComment,
  recognizer,
  name,
  tokens,
  tokenNames,
  rules,
  cyclicDFAs,
  bitsets,
  buildTemplate,
  profile,
  backtracking,
  synpreds,
  memoize,
  numRules,
  fileName,
  ANTLRVersion,
  generatedTimestamp,
  trace,
  scopes,
  superClass="ANTLRTreeParser"
) ::=
<<
/* treeParserHeaderFile */
<genericParserHeaderFile(...)>

```

>>

```
genericParserHeaderFile( LEXER,  
    PARSER,  
    TREE_PARSER,  
    actionScope,  
    actions,  
    docComment,  
    recognizer,  
    name,  
    tokens,  
    tokenNames,  
    rules,  
    cyclicDFAs,  
    bitsets,  
    buildTemplate,  
    profile,  
    backtracking,  
    synpreds,  
    memoize,  
    numRules,  
    fileName,  
    ANTLRVersion,  
    generatedTimestamp,  
    trace,  
    scopes,  
    superClass  
    ) ::=
```

<<

```
typedef enum {  
    ANTLR_EOF = -1,  
    INVALID,  
    EOR,  
    DOWN,  
    UP,  
    MIN  
} ANTLR3TokenType;
```

```
<cyclicDFAs:cyclicDFAInterface()>  
#pragma mark Tokens  
<tokens:{#define <it.name> <it.type>} ; separator="\n">  
#pragma mark Dynamic Global Scopes  
<scopes:{<if(it.isDynamicGlobalScope)><globalAttributeScopeDecl(scope=it)><endif>}>  
#pragma mark Dynamic Rule Scopes  
<rules:{rule |  
<rule.ruleDescriptor:{ ruleDescriptor | <ruleAttributeScopeDecl(scope=ruleDescriptor.ruleScope)>}>  
}>
```

```

#pragma mark Rule Return Scopes start
<rules:{ rule |<rule.ruleDescriptor:{ ruleDescriptor |<returnScopeInterface(scope=ruleDescriptor.returnScope)>>>>}>
#pragma mark Rule return scopes end
<!
#pragma mark Rule Return Scopes start
<rules:{ rule |<rule.ruleDescriptor:{ ruleDescriptor |<returnScopeInterface:{ returnScopeInterface
|<methodsDecl(scope=ruleDescriptor.returnScope)>>>>}>}>
#pragma mark Rule return scopes end
!>
<! @interface <grammar.recognizerName> <@superClassName>: <superClass><@end> { !>
@interface <className()> <@superClassName>: <superClass><@end> { /* line 572 */
// start of globalAttributeScopeMemVar
<scopes:{<if(it.isDynamicGlobalScope)><globalAttributeScopeMemVar(scope=it)><endif>>><\n>
// start of action-actionScope-memVars
<actions.(actionScope).memVars>
// start of ruleAttributeScopeMemVar
<rules:{ rule | <rule.ruleDescriptor.ruleScope:ruleAttributeScopeMemVar(scope=it)>>><\n>
// Start of memVars
<@memVars()>

<cyclicDFAs:{ dfa | DFA<dfa.decisionNumber> *dfa<dfa.decisionNumber>;}; separator="\n">
<synpreds:{ pred | SEL <pred>Selector;}; separator="\n">
}

// start of action-actionScope-methodsDecl
<actions.(actionScope).methodsDecl>

<@methodsdecl()>

<rules:{ rule |
-
(<rule.ruleDescriptor:{ ruleDescriptor|<returnType()>>>)<if(!rule.ruleDescriptor.isSynPred)><rule.ruleName><else
><rule.ruleName>_fragment<endif><if(rule.ruleDescriptor.parameterScope)><rule.ruleDescriptor.parameterScope:
parameterScope(scope=it)><endif>; }; separator="\n"><\n>
<! <synpreds:{ pred|- (void)<pred>_fragment;}; separator="\n">><\n> !>

@end /* end of <className()> interface */<\n>
>>

/** How to generate a parser */
genericParser( grammar,
    name,
    scopes,
    tokens,
    tokenNames,
    rules,
    numRules,
    cyclicDFAs,    // parser init -- initializes the DFAs

```

```

    bitsets,
    inputStreamType,
    superClass="ANTLRParser",
    ASTLabelType="ANTLRCommonTree",
    labelType="id<ANTLRToken>",
    members,
    rewriteElementType,
    filterMode
) ::= <<

```

```
<cyclicDFAs:cyclicDFA(>
```

```
#pragma mark Bitsets
```

```
<bitsets:bitset(name={FOLLOW_<it.name>_in_<it.inName><it.tokenIndex>}, words64=it.bits)>
```

```
#pragma mark Dynamic Global Scopes
```

```
<scopes:{<if(it.isDynamicGlobalScope)><globalAttributeScopeImpl(scope=it)><endif>}>
```

```
#pragma mark Dynamic Rule Scopes
```

```
<rules:{rule |
```

```
<rule.ruleDescriptor.ruleScope:ruleAttributeScopeImpl(scope=it)>
```



```
#pragma mark Rule return scopes start
```

```
<rules:{rule |
```

```
<rule.ruleDescriptor:{ruleDescriptor | <returnScope(scope=ruleDescriptor.returnScope)>}>
```



```
@implementation <grammar.recognizerName> // line 637
```

```
+ (void) initialize
```

```
{
```

```
    #pragma mark Bitsets
```

```
    <bitsets:bitsetInit(name={FOLLOW_<it.name>_in_<it.inName><it.tokenIndex>}, words64=it.bits)>
```

```
    [ANTLRBaseRecognizer setTokenNames:[[[NSArray alloc] initWithObjects:@"\<invalid>", @"\<EOR>",
```

```
@"\<DOWN>", @"\<UP>", <tokenNames:{ @<it>}; separator=", ", wrap="\n ">, nil] retain]];
```

```
    <synpreds:{pred | <synpred(pred)>}>
```

```
}
```

```
+ (<grammar.recognizerName> *)new<grammar.recognizerName>:(<inputStreamType>)aStream
```

```
{
```

```
    <if(PARSER)>
```

```
        return [[<grammar.recognizerName> alloc] initWithTokenStream:aStream];
```

```
    <else><! TREE_PARSER !>
```

```
        return [[<grammar.recognizerName> alloc] initWithStream:aStream];
```

```
    <endif><\n>
```

```
}
```

```

<if(PARSER)>
- (id) initWithTokenStream:(<inputStreamType>)aStream
{
    if ((self = [super initWithTokenStream:aStream State:[[ANTLRRecognizerSharedState
newANTLRRecognizerSharedStateWithRuleLen:<numRules>+1] retain]]) != nil) {
<else><! TREE_PARSER !>
- (id) initWithStream:(<inputStreamType>)aStream
{
    if ((self = [super initWithStream:aStream State:[[ANTLRRecognizerSharedState
newANTLRRecognizerSharedStateWithRuleLen:<numRules>+1] retain]]) != nil) {
<endif><\n>
        <! <parserCtorBody()> !>
        <cyclicDFAs:{ dfa | dfa<dfa.decisionNumber> = [DFA<dfa.decisionNumber>
newDFA<dfa.decisionNumber>WithRecognizer:self];}; separator="\n">
        <! <scopes:{<if(it.isDynamicGlobalScope)><globalAttributeScopeInit(scope=it)><endif>}> !>
        <rules:{rule | <rule.ruleDescriptor.ruleScope:ruleAttributeScopeInit(scope=it)>}>
        /* start of actions-actionScope-init */
        <actions.(actionScope).init>
        /* start of init */
        <@init()>
    }
    return self;
}

- (void) dealloc
{
    <cyclicDFAs:{ dfa | [dfa<dfa.decisionNumber> release];}; separator="\n">
    <scopes:{<if(it.isDynamicGlobalScope)><globalAttributeScopeDealloc(scope=it)><endif>}>
    <actions.(actionScope).dealloc>
    <@dealloc()>
    [super dealloc];
}
// start actions.actionScope.methods
<actions.(actionScope).methods>
// start methods()
<@methods()>
// start rules
<rules; separator="\n">

@end /* end of <grammar.recognizerName> implementation line 692 */<\n>
>>

parserCtorBody() ::= <<
<if(memoize)>
<if(grammar.grammarIsRoot)>
state.ruleMemo = [[ANTLRRuleStack newANTLRRuleStack:<numRules>+1] retain];<\n> <! index from 1..n !>
<endif>
<endif>

```

```

<grammar.delegators:
{g|this.<g.delegateName()> = <g.delegateName()>;}; separator="\n">
>>

parser( grammar,
    name,
    scopes,
    tokens,
    tokenNames,
    rules,
    numRules,
    bitsets,
    ASTLabelType="ANTLRCommonTree",
    superClass="ANTLRParser",
    labelType="ANTLRCommonToken",
    members={<actions.parser.members>}
) ::= <<
<genericParser(inputStreamType="id\<ANTLRTokenStream>", rewriteElementType="ANTLRCommonToken",
...)>
>>

treeParser( grammar,
    name,
    scopes,
    tokens,
    tokenNames,
    globalAction,
    rules,
    numRules,
    bitsets,
    ASTLabelType="ANTLRCommonTree",
    superClass={<if(filterMode)><if(buildAST)>ANTLRTreeRewriter<else>ANTLRTreeFilter<endif><else>ANTLR
TreeParser<endif>},
    labelType="ANTLRCommonTree",
    members={<actions.treeparser.members>},
    filterMode
) ::= <<
<genericParser(inputStreamType="id\<ANTLRTreeNodeStream>", rewriteElementType="Node", ...)>
>>

/** A simpler version of a rule template that is specific to the imaginary
* rules created for syntactic predicates. As they never have return values
* nor parameters etc..., just give simplest possible method. Don't do
* any of the normal memoization stuff in here either; it's a waste.
* As predicates cannot be inlined into the invoking rule, they need to
* be in a rule by themselves.
*/
synpredRule(ruleName, ruleDescriptor, block, description, nakedBlock) ::=

```

```

<<
// $ANTLR start <ruleName>_fragment
- (void) <ruleName>_fragment
{
  <ruleLabelDefs()>
  <if(trace)>
    [self traceIn:@"<ruleName>_fragment" Index:<ruleDescriptor.index>];
  @try {
    <block>
  }
  @finally {
    [self traceOut:@"<ruleName>_fragment" Index:<ruleDescriptor.index>];
  }
<else>
  <block>
<endif>
} // $ANTLR end <ruleName>_fragment
>>

```

```

synpred(name) ::= <<
SEL <name>Selector = @selector(<name>_fragment);
<! // $ANTLR start <name>
- (BOOL) <name>
{
  state.backtracking++;
  <@start()>
  NSInteger start = [input mark];
  @try {
    [self <name>_fragment]; // can never throw exception
  }
  @catch (ANTLRRecognitionException *re) {
    NSLog(@"impossible: %@\n", re);
  }
  BOOL success = (state.failed == NO);
  [input rewind:start];
  <@stop()>
  state.backtracking--;
  state.failed=NO;
  return success;
} // $ANTLR end <name> <\n> !>
>>

```

```

lexerSynpred(name) ::= <<
<synpred(name)>
>>

```

```

ruleMemoization(name) ::= <<
<if(memoize)>

```

```

if ( state.backtracking && [self alreadyParsedRule:input RuleIndex:<ruleDescriptor.index>] ) return
<ruleReturnValue(>;
<endif>
>>

/** How to test for failure and return from rule */
checkRuleBacktrackFailure() ::= <<
<if (backtracking)>if ( state.failed == YES ) return <ruleReturnValue(>;<endif>
>>

/** This rule has failed, exit indicating failure during backtrack */
ruleBacktrackFailure() ::= <<
<if(backtracking)>if ( state.backtracking > 0 ) { state.failed = YES; return <ruleReturnValue(>; }<endif>
>>

/** How to generate code for a rule.
 * The return type aggregates are declared in the header file (headerFile template)
 */
rule(ruleName,ruleDescriptor,block,emptyRule,description,exceptions,finally,memoize) ::= <<
/*
 * $ANTLR start <ruleName>
 * <fileName>:<description>
 */
- (<returnType(>) <ruleName><ruleDescriptor.parameterScope:parameterScope(scope=it)>
{
  <if(trace)>traceIn("<ruleName>", <ruleDescriptor.index>);<endif>
  <if(trace)>NSLog(@"enter <ruleName> %@ failed=%@ backtracking=%d", [input LT:1],
(state.failed==YES)?@"YES":@"NO", state.backtracking);<endif>
  <ruleScopeSetUp(>
  <ruleDeclarations(>
  <ruleDescriptor.actions.init>
  <@preamble(>
  @try {
    <ruleMemoization(name=ruleName)>
    <ruleLabelDefs(>
    <block>
    <ruleCleanUp(>
    <(ruleDescriptor.actions.after):execAction(>
  }
  <if(exceptions)>
    <exceptions:{e|<catch(decl=e.decl,action=e.action)><n}>}>
  <else>
  <if(!emptyRule)>
  <if(actions.(actionScope).rulecatch)>
    <actions.(actionScope).rulecatch>
  <else>
    @catch (ANTLRRecognitionException *re) {
      [self reportError:re];

```



```

        [self recover:input Exception:re];
        <@setErrorReturnValue()>
    }
<endif>
<endif>
<endif>
    @finally {
        <if(trace)>traceOut("<ruleName>", <ruleDescriptor.index>);
        NSLog(@"exit <ruleName> % @ failed=% @ backtracking=%d", [input LT:1], state.failed ? @"YES" : @"NO",
state.backtracking);<endif>
        <memoize()>
        <ruleScopeCleanUp()>
        <finally>
    }
    <@postamble()>
    return <ruleReturnValue()>;
}
/* $ANTLR end <ruleName> */
>>

finalCode(finalBlock) ::= <<
{
    <finalBlock>
}
>>

catch(decl,action) ::= <<
@catch (<e.decl>) {
    <e.action>
}
>>

ruleDeclarations() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<returnType()> retval = [<ruleDescriptor:returnStructName()> new<ruleDescriptor:returnStructName()>];
[retval setStart:[input LT:1]];<n>
<else>
<ruleDescriptor.returnScope.attributes: { a |
<a.type> <a.name> = <if(a.initValue)><a.initValue><else><initValue(a.type)><endif>;
}>
<! <if(ruleDescriptor.hasSingleReturnValue)> // This is not in the Java.stg
<returnType()> <ruleDescriptor.singleValueReturnName> = <initValue(typeName=returnType())>;
<endif> !>
<endif>
<if(memoize)>
NSInteger <ruleDescriptor.name>_startIndex = [input getIndex];
<endif>
>>

```

```

ruleScopeSetUp() ::= <<
/* ruleScopeSetUp */
<ruleDescriptor.useScopes:{gStack = [ANTLRSymbolStack newANTLRSymbolStackWithLen:30];
<it>_scope = [[<it>_Scope new<it>_Scope] retain];
[gStack push:<it>_scope];}>
<ruleDescriptor.ruleScope:{ANTLRSymbolStack *ruleStack<i0> = [ANTLRSymbolStack
newANTLRSymbolStackWithLen:30];
[ruleStack<i0> push:[[<it.name>_Scope new<it.name>_Scope] retain]];}>
>>

ruleScopeCleanUp() ::= <<
<ruleDescriptor.useScopes:{[gStack pop];}; separator="\n">
<ruleDescriptor.ruleScope:{[ruleStack<i0> pop];}; separator="\n">
>>

ruleLabelDefs() ::= <<
<[ruleDescriptor.tokenLabels, ruleDescriptor.tokenListLabels,
ruleDescriptor.wildcardTreeLabels,ruleDescriptor.wildcardTreeListLabels]
: {<labelType> *<it.label.text> = nil;}; separator="\n">
<[ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels,ruleDescriptor.wildcardTreeListLabels]
: {NSMutableArray *list_<it.label.text> = nil;}; separator="\n"
>
<ruleDescriptor.ruleLabels:ruleLabelDef(label=it); separator="\n">
<ruleDescriptor.ruleListLabels:{ll|ANTLRParserRuleReturnScope *<ll.label.text> = nil;}; separator="\n">
>>

lexerRuleLabelDefs() ::= <<
<[ruleDescriptor.tokenLabels,
ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleLabels]
: {<labelType> *<it.label.text>=nil;}; separator="\n"
>
<ruleDescriptor.charLabels:{NSInteger <it.label.text>;}; separator="\n">
<[ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleListLabels]:{NSMutableArray *list_<it.label.text>=nil; }; separator="\n">
>>

ruleReturnValue() ::= <<
<if(!ruleDescriptor.isSynPred)>
<if(ruleDescriptor.hasReturnValue)>
<if(ruleDescriptor.hasSingleReturnValue)>
<ruleDescriptor.singleValueReturnName>
<else>
retval
<endif>
<endif>
<endif>

```

```

>>

ruleCleanUp() ::= <<
// token+rule list labels
<[ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels]:{[list_<it.label.text> release];}; separator="\n">
<if(ruleDescriptor.hasMultipleReturnValues)>
<if(!TREE_PARSER)>
[retval setStop:[input LT:-1]];<\n>
<endif>
<endif>
>>

memoize() ::= <<
<if(memoize)>
<if(backtracking)>
if (state.backtracking > 0) [self memoize:input RuleIndex:<ruleDescriptor.index>
StartIndex:<ruleDescriptor.name>_StartIndex];
<endif>
<endif>
>>

/** How to generate a rule in the lexer; naked blocks are used for
 * fragment rules.
 */
lexerRule(ruleName, nakedBlock, ruleDescriptor, block, memoize) ::= <<
// $ANTLR start "<ruleName>"
- (void)
m<ruleName><if(ruleDescriptor.parameterScope)><ruleDescriptor.parameterScope:parameterScope(scope=it)><endif>
{
//<if(trace)>[self traceIn:[NSString stringWithFormat:@"<ruleName> %d\n", <ruleDescriptor.index>]];<endif>
<if(trace)>NSLog(@"enter <ruleName> %C line=%d:%d failed=%@ backtracking=%d",
[input LA:1],
[self getLine],
[self getCharPositionInLine],
(state.failed==YES) ? @"YES" : @"NO",
state.backtracking);
<endif>
<ruleScopeSetUp()>
<ruleDeclarations()>
@try {
<if(nakedBlock)>
<ruleMemoization(name=ruleName)>
<lexerRuleLabelDefs()>
<ruleDescriptor.actions.init>
<block><\n>
<else>
NSInteger _type = <ruleName>;

```

```

    NSInteger _channel = ANTLRTokenChannelDefault;
    <ruleMemoization(name=ruleName)>
    <lexerRuleLabelDefs()>
    <ruleDescriptor.actions.init>
    <block>
    <ruleCleanUp()>
    [state setType:_type];<\n>
    state.channel = _channel;
    <(ruleDescriptor.actions.after):execAction()>
<endif>
}
@finally {
    //<if(trace)>[self traceOut:[NSString stringWithFormat:@"<ruleName> %d\n",
<ruleDescriptor.index>]];<endif>
    <if(trace)>NSLog(@"exit <ruleName> %C line=%d:%d failed=%@ backtracking=%d",
        [input LA:1], [self getLine], [self getCharPositionInLine],
        (state.failed==YES) ? @"YES" : @"NO", state.backtracking);<endif>
    <ruleScopeCleanUp()>
    <memoize()>
}
return;
}
// $ANTLR end "<ruleName>"
>>

/** How to generate code for the implicitly-defined lexer grammar rule
 * that chooses between lexer rules.
 */
tokensRule(ruleName,nakedBlock,args,block,ruleDescriptor) ::= <<
- (void) mTokens
{
    <block><\n>
}
>>

// S U B R U L E S

/** A (...) subrule with multiple alternatives */
block(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// <fileName>:<description> // block
NSInteger alt<decisionNumber>=<maxAlt>;
<decls>
<@predecision()>
<decision>
<@postdecision()>
<@prebranch()>
switch (alt<decisionNumber>) {
    <alts:altSwitchCase()>

```

```

}
<@postbranch()>
>>

/** A rule block with multiple alternatives */
ruleBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// <fileName>:<description> //ruleblock
NSInteger alt<decisionNumber>=<maxAlt>;
<decls>
<@predecision()>
<decision>
<@postdecision()>
switch (alt<decisionNumber>) {
  <alts:altSwitchCase()>
}
>>

ruleBlockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
// <fileName>:<description> // ruleBlockSingleAlt
<decls>
<@prealt()>
<alts>
<@postalt()>
>>

/** A special case of a (...) subrule with a single alternative */
blockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
// <fileName>:<description> // blockSingleAlt
<decls>
<@prealt()>
<alts>
<@postalt()>
>>

/** A (..)+ block with 1 or more alternatives */
positiveClosureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// <fileName>:<description> // positiveClosureBlock
NSInteger cnt<decisionNumber>=0;
<decls>
<@preloop()>
do {
  NSInteger alt<decisionNumber>=<maxAlt>;
  <@predecision()>
  <decision>
  <@postdecision()>
  switch (alt<decisionNumber>) {
    <alts:altSwitchCase()>
  }
}

```

```

    default :
        if ( cnt<decisionNumber> >= 1 )
            goto loop<decisionNumber>;
<if(backtracking)>
    <ruleBacktrackFailure()>
<endif>
    ANTLREarlyExitException *eee = [ANTLREarlyExitException exceptionWithStream:input
decisionNumber:<decisionNumber>];
    <@earlyExitException()>
    @throw eee;
}
    cnt<decisionNumber>++;
} while (YES);
loop<decisionNumber>; ;
<@postloop()>
>>

```

positiveClosureBlockSingleAlt ::= positiveClosureBlock

/** A (..)* block with 0 or more alternatives */

closureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::=

<<

<decls>

<@preloop()>

do {

NSInteger alt<decisionNumber>=<maxAlt>;

<@predecision()>

<decision>

<@postdecision()>

switch (alt<decisionNumber>) {

<alts:altSwitchCase()>

default :

goto loop<decisionNumber>;

}

} while (YES);

loop<decisionNumber>; ;

<@postloop()>

>>

closureBlockSingleAlt ::= closureBlock

/** Optional blocks (x)? are translated to (x|) by before code generation

* so we can just use the normal block template

*/

optionalBlock ::= block

optionalBlockSingleAlt ::= block

```

/** A case in a switch that jumps to an alternative given the alternative
 * number. A DFA predicts the alternative and then a simple switch
 * does the jump to the code that actually matches that alternative.
 */

```

```

altSwitchCase() ::= <<
case <i> : ;
  <@prealt(>
  <it>
  break;<\n>
>>

```

```

/** An alternative is just a list of elements; at outermost level */
alt(elements,altNum,description,autoAST,outerAlt,treeLevel,rew) ::= <<
// <fileName>:<description> // alt
{
<@declarations(>
<elements:element(> /* elements */
<rew>
<@cleanup(>
}
>>

```

```

/** What to emit when there is no rewrite. For auto build
 * mode, does nothing.
 */
noRewrite(rewriteBlockLevel, treeLevel) ::= ""

```

// E L E M E N T S

```

/** Dump the elements one per line */
element() ::= <<
<@prematch(>
<it.el> /* element() */<\n>
>>

```

```

/** match a token optionally with a label in front */
tokenRef(token,label,elementIndex,hetero) ::= <<
<if(label)><label>=(<labelType> *)<endif>[self match:input TokenType:<token>
Follow:FOLLOW_<token>_in_<ruleName><elementIndex>]; <checkRuleBacktrackFailure(>
>>

```

```

/** ids+=ID */
tokenRefAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRef(...)>
<listLabel(elem=label,...)>
>>

```

```

listLabel(label,elem) ::= <<

```

```

if (list_<label> == nil) list_<label> = [[NSMutableArray arrayWithCapacity:5] retain];
[list_<label> addObject:<elem>];<\n>
>>

/** match a character */
charRef(char,label) ::= <<
<if(label)>
NSInteger <label> = [input LA:1];<\n>
<endif>
[self matchChar:<char>]; <checkRuleBacktrackFailure()><\n>
>>

/** match a character range */
charRangeRef(a,b,label) ::= <<
<if(label)>
<label> = [input LA:1];<\n>
<endif>
[self matchRangeFromChar:<a> to:<b>]; <checkRuleBacktrackFailure()>
>>

/** For now, sets are interval tests and must be tested inline */
matchSet(s,label,elementIndex,postmatchCode="") ::= <<
<if(label)>
<if(LEXER)>
<label> = [input LA:1];<\n>
<else>
<label> = (<labelType> *)[input LT:1];<\n>
<endif>
<endif>
if (<s>) {
    [input consume];
    <postmatchCode>
<if(!LEXER)>
    [state setIsErrorRecovery:NO];
<endif>
    <if(backtracking)>state.failed = NO;<\n><endif>
} else {
    <ruleBacktrackFailure()>
    ANTLRMismatchedSetException *mse = [ANTLRMismatchedSetException exceptionWithSet:nil stream:input];
    <@mismatchedSetException()>
<if(LEXER)>
    [self recover:mse];
    @throw mse;
<else>
    @throw mse;
    <! use following code to make it recover inline; remove throw mse;
    [self recoverFromMismatchedSet:input exception:mse follow:FOLLOW_set_in_<ruleName><elementIndex>];
    !>

```



```

<endif>
}<\n>
>>

matchRuleBlockSet ::= matchSet

matchSetAndListLabel(s,label,elementIndex,postmatchCode) ::= <<
<matchSet(...)>
<listLabel(elem=label,...)>
>>

/** Match a string literal */
lexerStringRef(string,label) ::= <<
<if(label)>
NSInteger <label>Start = [self getIndex];
[self matchString:<string>]; <checkRuleBacktrackFailure()>
<label> = [[ANTLRCommonToken newANTLRCommonToken:input Type:ANTLRTokenTypeInvalid
Channel:ANTLRTokenChannelDefault Start:<label>Start Stop:[self getIndex]] retain];
<else>
[self matchString:<string>]; <checkRuleBacktrackFailure()><\n>
<endif>
>>

wildcard(label,elementIndex) ::= <<
<if(label)>
<label> = (<labelType> *)[input LT:1];<\n>
<endif>
[self matchAny:input]; <checkRuleBacktrackFailure()>
>>

wildcardAndListLabel(label,elementIndex) ::= <<
<wildcard(...)>
<listLabel(elem=label,...)>
>>

/** Match . wildcard in lexer */
wildcardChar(label, elementIndex) ::= <<
<if(label)>
NSInteger <label> = [input LA:1];<\n>
<endif>
[self matchAny]; <checkRuleBacktrackFailure()><\n>
>>

wildcardCharListLabel(label, elementIndex) ::= <<
<wildcardChar(...)>
<listLabel(elem=label,...)>
>>

```

```

/** Match a rule reference by invoking it possibly with arguments
 * and a return value or values. The 'rule' argument was the
 * target rule name, but now is type Rule, whose toString is
 * same: the rule name. Now though you can access full rule
 * descriptor stuff.
 */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
[self pushFollow:FOLLOW_<rule.name>_in_<ruleName><elementIndex>];
<if(label)><label> = [self <rule.name><if(args)>:<args; separator=" :"><endif>];<\n>
<else>
[self <rule.name><if(args)>:<args; separator=" :"><endif>];<\n>
<endif>
[self popFollow];
<checkRuleBacktrackFailure()><\n>
>>

/** ids+=r */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>
<listLabel(elem=label,...)>
>>

/** A lexer rule reference.
 *
 * The 'rule' argument was the target rule name, but now
 * is type Rule, whose toString is same: the rule name.
 * Now though you can access full rule descriptor stuff.
 */
lexerRuleRef(rule,label,args,elementIndex,scope) ::= <<
<if(label)>
NSInteger <label>Start<elementIndex> = [self getIndex];
[self m<rule.name><if(args)>:<args; separator=" :"><endif>]; <checkRuleBacktrackFailure()><\n>
<label> = [[ANTLRCommonToken newANTLRCommonToken:input Type:ANTLRTokenTypeInvalid
Channel:ANTLRTokenChannelDefault Start:<label>Start<elementIndex> Stop:[self getIndex]-1] retain];
[<label> setLine:[self getLine]];
<else>
[self m<rule.name><if(args)>:<args; separator=" :"><endif>]; <checkRuleBacktrackFailure()><\n>
<endif>
>>

/** i+=INT in lexer */
lexerRuleRefAndListLabel(rule,label,args,elementIndex,scope) ::= <<
<lexerRuleRef(...)>
<listLabel(elem=label,...)>
>>

/** EOF in the lexer */
lexerMatchEOF(label,elementIndex) ::= <<

```

```

<if(label)>
NSInteger <label>Start<elementIndex> = [self getIndex];
[self matchChar:ANTLRCharStreamEOF]; <checkRuleBacktrackFailure()><\n>
<labelType> <label> = [[ANTLRCommonToken newANTLRCommonToken:input Type:ANTLRTokenTypeEOF
Channel:ANTLRTokenChannelDefault Start:<label>Start<elementIndex> Stop:[self getIndex]-1] retain];
[<label> setLine:[self getLine]];
<else>
[self matchChar:ANTLRCharStreamEOF]; <checkRuleBacktrackFailure()><\n>
<endif>
>>

/** match ^(root children) in tree parser */
tree(root, actionsAfterRoot, children, nullableChildList, enclosingTreeLevel, treeLevel) ::= <<
<root:element()>
<actionsAfterRoot:element()>
<if(nullableChildList)>
if ( [input LA:1] == DOWN ) {
    [self match:input TokenType:DOWN Follow:nil]; <checkRuleBacktrackFailure()>
    <children:element()>
    [self match:input TokenType:UP Follow:nil]; <checkRuleBacktrackFailure()>
}
<else>
    [self match:input TokenType:DOWN Follow:nil]; <checkRuleBacktrackFailure()>
    <children:element()>
    [self match:input TokenType:UP Follow:nil]; <checkRuleBacktrackFailure()>
<endif>
>>

/** Every predicate is used as a validating predicate (even when it is
* also hoisted into a prediction expression).
*/
validateSemanticPredicate(pred,description) ::= <<
if ( !(<evalPredicate(...)> ) ) {
    <ruleBacktrackFailure()>
    @throw [ANTLRFailedPredicateException exceptionWithRuleName:@"<ruleName>"
predicate:@"<description>" stream:input];
}
>>

// F i x e d D F A (if-then-else)

dfaState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
NSInteger LA<decisionNumber>_<stateNumber> = [input LA:<k>];<\n>
<edges; separator="\nelse ">
else {
<if(eotPredictsAlt)>
    alt<decisionNumber> = <eotPredictsAlt>;
<else>

```

```

    <ruleBacktrackFailure()>
    ANTLRNoViableAltException *nvae = [ANTLRNoViableAltException
newANTLRNoViableAltException:<decisionNumber> state:<stateNumber> stream:input];
    <@noViableAltException()>
    @throw nvae;<\n>
<endif>
}
>>

/** Same as a normal DFA state except that we don't examine lookahead
 * for the bypass alternative. It delays error detection but this
 * is faster, smaller, and more what people expect. For (X)? people
 * expect "if ( LA(1)==X ) match(X);" and that's it.
 */
dfaOptionalBlockState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
NSInteger LA<decisionNumber>_<stateNumber> = [input LA:<k>];<\n>
<edges; separator="\nelse ">
>>

/** A DFA state that is actually the loopback decision of a closure
 * loop. If end-of-token (EOT) predicts any of the targets then it
 * should act like a default clause (i.e., no error can be generated).
 * This is used only in the lexer so that for ('a')* on the end of a rule
 * anything other than 'a' predicts exiting.
 */
dfaLoopbackState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
NSInteger LA<decisionNumber>_<stateNumber> = [input LA:<k>];
<edges; separator="\nelse "><\n>
<if(eotPredictsAlt)>
<if(!edges)>
alt<decisionNumber>=<eotPredictsAlt>; <! if no edges, don't gen ELSE !>
<else>
else {
    alt<decisionNumber> = <eotPredictsAlt>;
}<\n>
<endif>
<endif>
>>

/** An accept state indicates a unique alternative has been predicted */
dfaAcceptState(alt) ::= "alt<decisionNumber>=<alt>";

/** A simple edge with an expression. If the expression is satisfied,
 * enter to the target state. To handle gated productions, we may
 * have to evaluate some predicates for this edge.
 */
dfaEdge(labelExpr, targetState, predicates) ::= <<
if ( (<labelExpr> <if(predicates)>&& (<predicates>)<endif> ) {

```

```

    <targetState>
  }
>>

// F i x e d D F A (switch case)

/** A DFA state where a SWITCH may be generated. The code generator
 * decides if this is possible: CodeGenerator.canGenerateSwitch().
 */
dfaStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch ([input LA:<k>]) {
  <edges; separator="\n"><\n>
default: ;
<if(eotPredictsAlt)>
  alt<decisionNumber> = <eotPredictsAlt>;
<else>
  <ruleBacktrackFailure()>
  ANTLRNoViableAltException *nvae = [ANTLRNoViableAltException
newANTLRNoViableAltException:<decisionNumber> state:<stateNumber> stream:input];
  <@noViableAltException()>
  @throw nvae;<\n>
<endif>
}<\n>
>>

dfaOptionalBlockStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch ([input LA:<k>]) {
  <edges; separator="\n"><\n>
}<\n>
>>

dfaLoopbackStateSwitch(k, edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch ([input LA:<k>]) {
  <edges; separator="\n"><\n>
<if(eotPredictsAlt)>
default: ;
  alt<decisionNumber> = <eotPredictsAlt>
  break;<\n>
<endif>
}<\n>
>>

dfaEdgeSwitch(labels, targetState) ::= <<
<labels: { case <it>: ;}; separator="\n">
{
  <targetState>
}
break;

```

```

>>

// C y c l i c D F A

/** The code to initiate execution of a cyclic DFA; this is used
 * in the rule to predict an alt just like the fixed DFA case.
 * The <name> attribute is inherited via the parser, lexer, ...
 */
dfaDecision(decisionNumber,description) ::= <<
alt<decisionNumber> = [dfa<decisionNumber> predict:input];
>>

/** Used in headerFile */
cyclicDFAInterface(dfa) ::= <<
#pragma mark Cyclic DFA interface start DFA<dfa.decisionNumber>
@interface DFA<dfa.decisionNumber> : ANTLRDFA {
}
+ newDFA<dfa.decisionNumber>WithRecognizer:(ANTLRBaseRecognizer *)theRecognizer;
- initWithRecognizer:(ANTLRBaseRecognizer *)recognizer;
@end /* end of DFA<dfa.decisionNumber> interface */<\n>
#pragma mark Cyclic DFA interface end DFA<dfa.decisionNumber>
>>

/** Used in lexer/parser implementation files */
/* Dump DFA tables as run-length-encoded Strings of octal values.
 * Can't use hex as compiler translates them before compilation.
 * These strings are split into multiple, concatenated strings.
 * Java puts them back together at compile time thankfully.
 * Java cannot handle large static arrays, so we're stuck with this
 * encode/decode approach. See analysis and runtime DFA for
 * the encoding methods.
 */
cyclicDFA(dfa) ::= <<
#pragma mark Cyclic DFA implementation start DFA<dfa.decisionNumber>
@implementation DFA<dfa.decisionNumber>
const static NSInteger dfa<dfa.decisionNumber>_eot[<dfa.numberofStates>] =
    {<dfa.eot; wrap="\n    ", separator=",", null="-1">};
const static NSInteger dfa<dfa.decisionNumber>_eof[<dfa.numberofStates>] =
    {<dfa.eof; wrap="\n    ", separator=",", null="-1">};
const static unichar dfa<dfa.decisionNumber>_min[<dfa.numberofStates>] =
    {<dfa.min; wrap="\n    ", separator=",", null="0">};
const static unichar dfa<dfa.decisionNumber>_max[<dfa.numberofStates>] =
    {<dfa.max; wrap="\n    ", separator=",", null="0">};
const static NSInteger dfa<dfa.decisionNumber>_accept[<dfa.numberofStates>] =
    {<dfa.accept; wrap="\n    ", separator=",", null="-1">};
const static NSInteger dfa<dfa.decisionNumber>_special[<dfa.numberofStates>] =
    {<dfa.special; wrap="\n    ", separator=",", null="-1">};
const static NSInteger dfa<dfa.decisionNumber>_transition[] = {};

```

```

<dfa.edgeTransitionClassMap.keys:{ table |
const static NSInteger dfa<dfa.decisionNumber>_transition<i0>[] = {<table; separator=", ", wrap="\n ", null="-
1">};
}; null="">

+ () newDFA<dfa.decisionNumber>WithRecognizer:(ANTLRBaseRecognizer *)aRecognizer
{
    return [[[DFA<dfa.decisionNumber> alloc] initWithRecognizer:aRecognizer] retain];
}

- (id) initWithRecognizer:(ANTLRBaseRecognizer *) theRecognizer
{
    if ((self = [super initWithRecognizer:theRecognizer]) != nil) {
        decisionNumber = <dfa.decisionNumber>;
        eot = dfa<dfa.decisionNumber>_eot;
        eof = dfa<dfa.decisionNumber>_eof;
        min = dfa<dfa.decisionNumber>_min;
        max = dfa<dfa.decisionNumber>_max;
        accept = dfa<dfa.decisionNumber>_accept;
        special = dfa<dfa.decisionNumber>_special;
        if (!(transition = calloc(<dfa.numberofStates>, sizeof(void*)))) {
            [self release];
            return nil;
        }
        len = <dfa.numberofStates>;
        <dfa.transitionEdgeTables:{ whichTable|transition[<i0>] =
dfa<dfa.decisionNumber>_transition<whichTable>;}; separator="\n", null="">
    }
    return self;
}

<if(dfa.specialStateSTs)>
/* start dfa.specialStateSTs */
- (NSInteger) specialStateTransition:(NSInteger)s Stream:(id<ANTLRIntStream>)anInput
{
    <if(LEXER)>
        id<ANTLRIntStream> input = anInput;<\n>
    <endif>
    <if(PARSER)>
        id<ANTLRTokenStream> input = (id<ANTLRTokenStream>)anInput;<\n>
    <endif>
    <if(TREE_PARSER)>
        id<ANTLRTreeNodeStream> input = (id<ANTLRTreeNodeStream>)anInput;<\n>
    <endif>
    switch (s) {
        <dfa.specialStateSTs:{ state |
        case <i0> : ;<! compressed special state numbers 0..n-1 !>
        <state>;}; separator="\n">

```

```

    }
<endif(backtracking)>
    if ( [recognizer getBacktrackingLevel] > 0 ) { [recognizer setFailed:YES]; return -1; }<\n>
<endif>
    ANTLRNoViableAltException *nvae = [ANTLRNoViableAltException
newANTLRNoViableAltException:<dfa.decisionNumber> state:s stream:[recognizer getInput]];
    /* [self error:nvae]; */ <! for debugger - do later !>
    @throw nvae;
}<\n>
/* end dfa.specialStateSTs */
<endif>

- (void) dealloc
{
    free(transition);
    [super dealloc];
}

- (NSString *) description
{
    return @"<dfa.description>";
}

<@errorMethod()>

@end /* end DFA<dfa.decisionNumber> implementation */<\n>
#pragma mark Cyclic DFA implementation end DFA<dfa.decisionNumber>
<\n>
>>
/** A state in a cyclic DFA; it's a special state and part of a big switch on
 * state.
 */
cyclicDFAState(decisionNumber, stateNumber, edges, needErrorClause, semPredState) ::= <<
/* cyclicDFAState */
NSInteger LA<decisionNumber>_<stateNumber> = [input LA:1];<\n>
<if(semPredState)> <! get next lookahead symbol to test edges, then rewind !>
NSInteger index<decisionNumber>_<stateNumber> = [input getIndex];
[input rewind];<\n>
<endif>
s = -1;
<edges; separator="\nelse ">
<if(semPredState)> <! return input cursor to state before we rewound !>
[input seek:index<decisionNumber>_<stateNumber>];<\n>
<endif>
if ( s >= 0 )
    return s;
break;
>>

```



```

/** Just like a fixed DFA edge, test the lookahead and indicate what
 * state to jump to next if successful.
 */
cyclicDFAEdge(labelExpr, targetStateNumber, edgeNumber, predicates) ::= <<
/* cyclicDFAEdge */
if (<labelExpr><if(predicates)> && (<predicates><endif>) { s = <targetStateNumber>;<n>
>>

/** An edge pointing at end-of-token; essentially matches any char;
 * always jump to the target.
 */
eotDFAEdge(targetStateNumber,edgeNumber, predicates) ::= <<
/* eotDFAEdge */
s = <targetStateNumber>;<n>
>>

// D F A E X P R E S S I O N S

andPredicates(left,right) ::= "<left>&&<right>"

orPredicates(operands) ::= "(first(operands)<rest(operands):{ o ||<o>}>)"

notPredicate(pred) ::= "!(<evalPredicate(...)>)"

evalPredicate(pred,description) ::= "<pred>"

/*
 * evalSynPredicate(pred,description) ::= "<pred>()"
 *
 * synpreds are broken in cyclic DFA special states
 * Damn! For now, work around with using the selectors directly, and by providing a trampoline evalSynPred
method in
 * ANTLRDFA
 */
/* evalSynPredicate(pred,description) ::= "[self evaluateSyntacticPredicate:<pred>Selector stream:input]" */
evalSynPredicate(pred,description) ::= "[self evaluateSyntacticPredicate:@selector(<pred>_fragment)]"
/* evalSynPredicate(pred,description) ::= "[recognizer <pred>]" */

lookaheadTest(atom,k,atomAsInt) ::= "LA<decisionNumber>_<stateNumber>===<atom>"

/** Sometimes a lookahead test cannot assume that LA(k) is in a temp variable
 * somewhere. Must ask for the lookahead directly.
 */
isolatedLookaheadTest(atom,k,atomAsInt) ::= "[input LA:<k>] == <atom>"

lookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= <<
(LA<decisionNumber>_<stateNumber>)\>=<lower> && LA<decisionNumber>_<stateNumber>\<=<upper>

```

>>

```
isolatedLookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= "(((input LA:<k>] \>=  
<lower>) && ([input LA:<k>] \<= <upper>)))"
```

```
setTest(ranges) ::= "<ranges; separator=\\\"\\\">"
```

// A T T R I B U T E S

```
globalAttributeScopeDecl(scope) ::= <<
```

```
@interface <scope.name>_Scope : ANTLRSymbolsScope { /* globalAttributeScopeDecl */
```

```
<if(scope.attributes)>
```

```
<scope.attributes:{a|<a.type> <a.name>;}; separator="\n"><\n>
```

```
<endif>
```

```
}
```

```
<if(scope.attributes)> /* start of properties */<\n>
```

```
<scope.attributes:{a|@property (retain, getter=get<a.name>, setter=set<a.name>:) <a.type> <a.name>;};
```

```
separator="\n"><\n>
```

```
/* end properties */<endif><\n>
```

```
+ (<scope.name>_Scope *)new<scope.name>_Scope;
```

```
<if(scope.attributes)> /* start of iterated get and set functions */<\n>
```

```
<scope.attributes:{a|- (<a.type>)get<a.name>;<\n>- (void)set<a.name>:(<a.type>)aVal;}; separator="\n"><\n>
```

```
/* End of iterated get and set functions */<endif><\n>
```

```
@end /* end of <scope.name>_Scope interface */<\n>
```

>>

```
globalAttributeScopeMemVar(scope) ::= <<
```

```
/* globalAttributeScopeMemVar */
```

```
ANTLRSymbolStack *gStack;
```

```
<scope.name>_Scope *<scope.name>_scope;
```

>>

```
globalAttributeScopeImpl(scope) ::= <<
```

```
@implementation <scope.name>_Scope /* globalAttributeScopeImpl */
```

```
<if(scope.attributes)> /* start of synthesise -- OBJC-Line 1750 */<\n>
```

```
<scope.attributes:{a|@synthesise <a.name>;}; separator="\n"><\n>
```

```
<endif>
```

```
+ (<scope.name>_Scope *)new<scope.name>_Scope
```

```
{
```

```
    return [[[<scope.name>_Scope alloc] init] retain];
```

```
}
```

```
<if(scope.attributes)> /* start of iterate get and set functions */<\n>
```

```
<scope.attributes:{a|- (<a.type>)get<a.name> \{ return( <a.name> ); \}<\n>
```

```
- (void)set<a.name>:(<a.type>)aVal \{ <a.name> = aVal; \}<\n\n>; separator="\n"><\n>
```

```
/* End of iterate get and set functions */<endif><\n>
```

```
@end /* end of <scope.name>_Scope implementation */<\n>
```

>>

```

globalAttributeScopeInit(scope) ::= <<
/* globalAttributeScopeInit */
<scope.name>_scope = [<scope.name>_Scope new<scope.name>_Scope];
>>

globalAttributeScopeDealloc(scope) ::= <<
[<scope.name>_scope release];
>>

globalAttributeScope(scope) ::= <<
<if(scope.attributes)>
ANTLRSymbolStack *gStack = [ANTLRSymbolStack newANTLRSymbolStackWithLen:30];<\n>
<endif>
>>

ruleAttributeScopeDecl(scope) ::= <<
<if(scope.attributes)>
@interface <scope.name>_Scope : ANTLRSymbolsScope { /* ruleAttributeScopeDecl */<\n>
<! <scope.attributes:{<it.decl>;}; separator="\n"> !>
<scope.attributes:{a|<a.name> <a.type>;}; separator="\n"><\n>
}
<if(scope.attributes)>
<scope.attributes:{a|@property (getter=get<a.name>, setter=set<a.name>:) <a.type> <a.name>;};
separator="\n"><\n>
/* end properties */<\n>
<endif>
+ (<scope.name>_Scope *)new<scope.name>_Scope;
- (get<a.name>
@end /* end of <scope.name>_Scope interface */<\n>
<endif>
>>

ruleAttributeScopeMemVar(scope) ::= <<
/* ruleAttributeScopeMemVar */<\n>
<scope.name>_Scope *<scope.name>_scope;
>>

ruleAttributeScopeImpl(scope) ::= <<
<if(scope.attributes)>
@implementation <scope.name>_Scope /* ruleAttributeScopeImpl */<\n>
<if(scope.attributes)><scope.attributes:{a|@synthesize <a.name>;}; separator="\n"><\n><endif>
+ (<scope.name>_Scope *)new<scope.name>_Scope
{
return [[[<scope.name>_Scope alloc] init] retain];
}
<if(scope.attributes)>
// start of iterate get and set functions<\n>
<scope.attributes:{a|<\n>

```

```

- (<a.type>)get<a.name> \{ return( <a.name> ); \}<\n>
- (void)set<a.name>:(<a.type>)aVal \{ <a.name> = aVal; \}<\n\n>; separator="\n"<\n>
// End of iterate get and set functions<\n>
<endif>
@end /* end of <scope.name>_Scope implementation */<\n>
<endif>
>>

ruleAttributeScopeInit(scope) ::= <<
/* ruleAttributeScopeInit */
<scope.name>_scope = [<scope.name>_Scope new<scope.name>_Scope];
>>

ruleAttributeScopeDealloc(scope) ::= <<
[<scope.name>_Scope release];
>>

ruleAttributeScope(scope) ::= <<
<if(scope.attributes)>
/* ruleAttributeScope */
ANTLRSymbolStack *<scope.name>Stack = [ANTLRSymbolStack newANTLRSymbolStackWithLen:30];<\n>
<endif>
>>

returnStructName() ::= "<className(>_<it.name>_return"

returnType() ::= <<
<if(!ruleDescriptor.isSynPred)>
<if(ruleDescriptor.hasMultipleReturnValues)>
<ruleDescriptor:returnStructName()> *
<else>
<if(ruleDescriptor.hasSingleReturnValue)>
<ruleDescriptor.singleValueReturnType>
<else>
void
<endif>
<endif>
<else>
void
<endif>
>>

/** Generate the Objective-C type associated with a single or multiple return
 * values.
 */
ruleLabelType(referencedRule) ::= <<
<if(referencedRule.hasMultipleReturnValues)>
<className(>_<referencedRule.name>_return *<else>

```

```

<if(referencedRule.hasSingleReturnValue)><referencedRule.singleValueType><else>
void<endif>
<endif>
>>

delegateName() ::= <<
<if(it.label)><it.label><else>g<it.name><endif>
>>

/** Using a type to init value map, try to init a type; if not in table
 * must be an object, default value is "null".
 */
initValue(typeName) ::= <<
<objcTypeInitMap.(typeName)>
>>

/** Define a rule label including default value */
ruleLabelDef(label) ::= <<
<ruleLabelType(referencedRule=label.referencedRule)> <label.label.text> =
<initValue(typeName=ruleLabelType(referencedRule=label.referencedRule))>;<\n>
>>

/** Define a return struct for a rule if the code needs to access its
 * start/stop tokens, tree stuff, attributes, ... Leave a hole for
 * subgroups to stick in members.
 */
returnScopeInterface(scope) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
/* returnScopeInterface */
@interface <ruleDescriptor:returnStructName()>
:ANTLR<if(TREE_PARSER)>Tree<else>Parser<endif>RuleReturnScope { /* returnScopeInterface line 1806 */
<@memVars()> /* start of memVars() */
<if(scope.attributes)>
<scope.attributes:{a|<a.type> <a.name>;}; separator="\n"><\n>
<endif>
}
<@properties()> /* start properties */
<if(scope.attributes)>
<scope.attributes:{a|@property (getter=get<a.name>, setter=set<a.name>:) <a.type> <a.name>;};
separator="\n"><\n>
/* end properties */<\n>
<endif>
+ (<ruleDescriptor:returnStructName()> *)new<ruleDescriptor:returnStructName()>;
/* this is start of set and get methods */
<@methodsDecl()> /* methodsDecl */
<if(scope.attributes)>
/* start of iterated get and set functions */<\n>
<scope.attributes:{a|<\n>

```

```

- (<a.type>)get<a.name>;
- (void)set<a.name>:(<a.type>)aVal;}; separator="\n"><\n>
// End of iterated get and set functions<\n>
<endif>
@end /* end of returnScopeInterface interface */<\n>
<endif>
>>

returnScope(scope) ::= <<
/* returnScope */
<if(ruleDescriptor.hasMultipleReturnValues)>
@implementation <ruleDescriptor:returnStructName()> /* returnScope */
<@synthesize()> /* start of synthesize -- OBJC-Line 1837 */
<if(scope.attributes)>
<scope.attributes:{a|@synthesize <a.name>;}; separator="\n"><\n>
<endif>
+ (<ruleDescriptor:returnStructName()> *)new<ruleDescriptor:returnStructName()>
{
return [[<ruleDescriptor:returnStructName()> alloc] init] retain];
}

<@methods()>
<if(scope.attributes)>
/* start of iterate get and set functions */<\n>
<scope.attributes:{a|<\n>
- (<a.type>)get<a.name> \{ return( <a.name> ); \}<\n>
- (void)set<a.name>:(<a.type>)aVal \{ <a.name> = aVal; \}<\n\n>; separator="\n"><\n>
// End of iterate get and set functions<\n>
<endif>
<actions.(actionScope).ruleReturnMethods>
<@ruleReturnMembers()><\n>
@end /* end of returnScope implementation */<\n>
<endif>
>>

parameterScope(scope) ::= <<
<scope.attributes:{:(<it.type>)<it.name>;}; separator=" ">
>>

parameterAttributeRef(attr) ::= "<attr.name>"
parameterSetAttributeRef(attr,expr) ::= "<attr.name>=<expr>";

/** Note that the scopeAttributeRef does not have access to the
* grammar name directly
*/
scopeAttributeRef(scope,attr,index,negIndex) ::= <<
/* scopeAttributeRef */
<if(negIndex)>

```

```

(((<scope>_Scope *)[gStack objectAtIndex:[gStack size]-<negIndex>-1])).<attr.name>
<else>
<if(index)>
(((<scope>_Scope *)[gStack objectAtIndex:<index>])).<attr.name>
<else>
(((<scope>_Scope *)[gStack peek])).<attr.name>
<endif>
<endif>
>>

scopeSetAttributeRef(scope,attr,expr,index,negIndex) ::= <<
/* scopeSetAttributeRef */
<if(negIndex)>
(((<scope>_Scope *)[gStack objectAtIndex:([gStack size]-<negIndex>-1])).<attr.name> =<expr>;
<else>
<if(index)>
(((<scope>_Scope *)[gStack objectAtIndex:<index>])).<attr.name> = <expr>;
<else>
(((<scope>_Scope *)[gStack peek])).<attr.name> = <expr>;
<endif>
<endif>
>>

scopeAttributeRefStack() ::= <<
/* scopeAttributeRefStack */
<if(negIndex)>
(((<scope>_scope *)[<scope>Stack objectAtIndex:[<scope>Stack count]-<negIndex>-1])).<attr.name> = <expr>;
<else>
<if(index)>
(((<scope>_scope *)[<scope>Stack objectAtIndex:<index>])).<attr.name> = <expr>;
<else>
[<scope>Stack peek].<attr.name> = <expr>;
<endif>
<endif>
>>

/** $x is either global scope or x is rule with dynamic scope; refers
 * to stack itself not top of stack. This is useful for predicates
 * like { $function.size()>0 && $function::name.equals("foo") }?
 */
isolatedDynamicScopeRef(scope) ::= "<scope>Stack"

/** reference an attribute of rule; might only have single return value */
ruleLabelRef(referencedRule,scope,attr) ::= <<
<if(referencedRule.hasMultipleReturnValues)>
(<scope>!=nil?<scope>.<attr.name>:<initValue(attr.type)>)
<else>
<scope>

```

```

<endif>
>>

returnAttributeRef(ruleDescriptor,attr) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
retval.<attr.name>; /* added to returnAttributeRef */
<else>
<attr.name>
<endif>
>>

returnSetAttributeRef(ruleDescriptor,attr,expr) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
retval.<attr.name> =<expr>; /* added to returnSetAttributeRef */
<else>
<attr.name> = <expr>;
<endif>
>>

/** How to translate $tokenLabel */
tokenLabelRef(label) ::= "<label>"

/** ids+=ID {$ids} or e+=expr {$e} */
listLabelRef(label) ::= "list_<label>"

// not sure the next are the right approach; and they are evaluated early;
// they cannot see TREE_PARSER or PARSER attributes for example. :(

tokenLabelPropertyRef_text(scope,attr) ::= "(<scope>!=nil?[<scope> getText]:0)"
tokenLabelPropertyRef_type(scope,attr) ::= "(<scope>!=nil?[<scope> getType]:0)"
tokenLabelPropertyRef_line(scope,attr) ::= "(<scope>!=nil?[<scope> getLine]:0)"
tokenLabelPropertyRef_pos(scope,attr) ::= "(<scope>!=nil?[<scope> getCharPositionInLine]:0)"
tokenLabelPropertyRef_channel(scope,attr) ::= "(<scope>!=nil?[<scope> getChannel]:0)"
tokenLabelPropertyRef_index(scope,attr) ::= "(<scope>!=nil?[<scope> getTokenIndex]:0)"
tokenLabelPropertyRef_tree(scope,attr) ::= "<scope>_tree"
tokenLabelPropertyRef_int(scope,attr) ::= "(<scope>!=nil?[[<scope> getText] integerValue]:0)"

ruleLabelPropertyRef_start(scope,attr) ::= "(<scope>!=nil?((<ASTLabelType> *)<scope>.startToken):nil)"
ruleLabelPropertyRef_stop(scope,attr) ::= "(<scope>!=nil?((<ASTLabelType> *)<scope>.stopToken):nil)"
ruleLabelPropertyRef_tree(scope,attr) ::= "(<scope>!=nil?((<ASTLabelType> *)<scope>.tree):nil)"
ruleLabelPropertyRef_text(scope,attr) ::= <<
<if(TREE_PARSER)>
(<scope>!=nil?[[input getTokenStream] toStringFromStart:[input getTreeAdaptor] getTokenStartIndex:[<scope>
getStart]]
    ToEnd:[input getTreeAdaptor] getTokenStopIndex:[<scope> getStart]]:nil)
<else>
(<scope>!=nil?[[input toStringFromStart:[<scope> getStart] ToEnd:[<scope> getStop]]:nil)

```



```

<endif>
>>
ruleLabelPropertyRef_st(scope,attr) ::= "<scope>!=nil?[<scope> st]:nil"

/** Isolated $RULE ref ok in lexer as it's a Token */
lexerRuleLabel(label) ::= "<label>"

lexerRuleLabelPropertyRef_type(scope,attr) ::= "<scope>!=nil?[<scope> getType]:0)"
lexerRuleLabelPropertyRef_line(scope,attr) ::= "<scope>!=nil?[<scope> getLine]:0)"
lexerRuleLabelPropertyRef_pos(scope,attr) ::= "<scope>!=nil?[<scope> getCharPositionInLine]:-1)"
lexerRuleLabelPropertyRef_channel(scope,attr) ::= "<scope>!=nil?[<scope> getChannel]:0)"
lexerRuleLabelPropertyRef_index(scope,attr) ::= "<scope>!=nil?[<scope> getTokenIndex]:0)"
lexerRuleLabelPropertyRef_text(scope,attr) ::= "<scope>!=nil?[<scope> getText]:nil)"
lexerRuleLabelPropertyRef_int(scope,attr) ::= "<scope>!=nil?[<scope> text] integerValue]:0)"

// Somebody may ref $template or $tree or $stop within a rule:
rulePropertyRef_start(scope,attr) ::= "((<labelType> *)retval.startToken)"
rulePropertyRef_stop(scope,attr) ::= "((<labelType> *)retval.stopToken)"
rulePropertyRef_tree(scope,attr) ::= "((<ASTLabelType> *)retval.tree)"
rulePropertyRef_text(scope,attr) ::= <<
<if(TREE_PARSER)>
[[input getTokenStream] toStringFromStart:[input getTreeAdaptor] getTokenStartIndex:retval.start]
    ToEnd:[input getTreeAdaptor] getTokenStopIndex:retval.start]]
<else>
[input toStringFromToken:retval.start ToToken:[input LT:-1]]
<endif>
>>
rulePropertyRef_st(scope,attr) ::= "retval.st"

/* hideous: find a way to cut down on the number of templates to support read/write access */
/* TODO: also, which ones are valid to write to? ask Ter */
lexerRuleSetPropertyRef_text(scope,attr,expr) ::= "[state setText:<expr>];"
lexerRuleSetPropertyRef_type(scope,attr,expr) ::= "_type"
lexerRuleSetPropertyRef_line(scope,attr,expr) ::= "[state getTokenStartLine]"
lexerRuleSetPropertyRef_pos(scope,attr,expr) ::= "[state getCharPositionInLine]"
lexerRuleSetPropertyRef_index(scope,attr,expr) ::= "-1" /* undefined token index in lexer */
lexerRuleSetPropertyRef_channel(scope,attr,expr) ::= "[state setChannel:<expr>];"
lexerRuleSetPropertyRef_start(scope,attr,expr) ::= "[state getTokenStartCharIndex]"
lexerRuleSetPropertyRef_stop(scope,attr,expr) ::= "([self getIndex]-1)"

lexerRulePropertyRef_text(scope,attr) ::= "[self getText]"
lexerRulePropertyRef_type(scope,attr) ::= "[state getType]"
lexerRulePropertyRef_line(scope,attr) ::= "state.tokenStartLine"
lexerRulePropertyRef_pos(scope,attr) ::= "state.tokenStartCharPositionInLine"
lexerRulePropertyRef_index(scope,attr) ::= "-1" // undefined token index in lexer
lexerRulePropertyRef_channel(scope,attr) ::= "_channel"
lexerRulePropertyRef_start(scope,attr) ::= "state.tokenStartCharIndex"

```

```

lexerRulePropertyRef_stop(scope,attr) ::= "([self getIndex]-1)"
lexerRulePropertyRef_int(scope,attr) ::= "[[<scope> getText] integerValue]"

// setting $st and $tree is allowed in local rule. everything else
// is flagged as error
ruleSetPropertyRef_tree(scope,attr,expr) ::= "retval.tree =<expr>";
ruleSetPropertyRef_st(scope,attr,expr) ::= "retval.st =<expr>"; /* "<\n>#error StringTemplates are
unsupported<\n>" */

/** How to execute an action */
execAction(action) ::= <<
<if(backtracking)>
if ( <actions.(actionScope).synpredgate> ) {
    <action>
}
<else>
<action>
<endif>
>>

/** How to always execute an action even when backtracking */
execForcedAction(action) ::= "<action>"

// M I S C (properties, etc...)

bitset(name, words64) ::= <<
static ANTLRBitSet *<name>;
static const unsigned long long <name>_data[] = { <words64:{<it>LL};separator=", ">};<\n>
>>

bitsetInit(name, words64) ::= <<
<name> = [[ANTLRBitSet newANTLRBitSetWithBits:(const unsigned long long *)<name>_data
Count:(NSUInteger)<length(words64)>] retain];<\n>
>>

codeFileExtension() ::= ".m"

true() ::= "YES"
false() ::= "NO"

Found in path(s):
* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/codegen/templates/ObjC/ObjC.stg
No license file was found, but licenses were detected in source scan.

/*
* [The "BSD licence"]
* Copyright (c) 2005-2008 Terence Parr

```

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 *
 * Conversion to C#:
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 * THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
 * (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 * THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
 */
 group AST;

```
@outputFile.imports() ::= <<
<@super.imports()>
<if(!TREE_PARSER)><! tree parser would already have imported !>
using Antlr.Runtime.Tree;
using RewriteRuleITokenStream = Antlr.Runtime.Tree.RewriteRuleTokenStream;<\n>
<endif>
>>
```

```
@genericParser.members() ::= <<
<@super.members()>
<parserMembers()>
>>
```

```
parserCtorBody() ::= <<
<super.parserCtorBody()>
ITreeAdaptor treeAdaptor = null;
CreateTreeAdaptor(ref treeAdaptor);
TreeAdaptor = treeAdaptor ?? new CommonTreeAdaptor();
```

```

>>

/** Add an adaptor property that knows how to build trees */
parserMembers() ::= <<
// Implement this function in your helper file to use a custom tree adaptor
partial void CreateTreeAdaptor(ref ITreeAdaptor adaptor);

private ITreeAdaptor adaptor;

public ITreeAdaptor TreeAdaptor
{
    get
    {
        return adaptor;
    }
    set
    {
        this.adaptor = value;
        <grammar.directDelegates: {g|<g:delegateName()>.TreeAdaptor = this.adaptor;}>
    }
}
>>

@returnScope.ruleReturnInterfaces() ::= <<
, IAstRuleReturnScope<<ASTLabelType>>
>>

@returnScope.ruleReturnMembers() ::= <<
private <ASTLabelType> _tree;
public <ASTLabelType> Tree { get { return _tree; } set { _tree = value; } }
>>

/** Add a variable to track rule's return AST */
ruleDeclarations() ::= <<
<super.ruleDeclarations()>
<ASTLabelType> root_0 = null;<\n>
>>

ruleLabelDefs() ::= <<
<super.ruleLabelDefs()>
<[ruleDescriptor.tokenLabels,ruleDescriptor.wildcardTreeLabels,ruleDescriptor.wildcardTreeListLabels]
: {<ASTLabelType> <it.label.text>_tree=null;}; separator="\n">
<ruleDescriptor.tokenListLabels: {<ASTLabelType> <it.label.text>_tree=null;}; separator="\n">
<ruleDescriptor.allTokenRefsInAltsWithRewrites
: {RewriteRule<rewriteElementType>Stream stream_<it>=new
RewriteRule<rewriteElementType>Stream(adaptor,"token <it>");}; separator="\n">
<ruleDescriptor.allRuleRefsInAltsWithRewrites
: {RewriteRuleSubtreeStream stream_<it>=new RewriteRuleSubtreeStream(adaptor,"rule <it>");}; separator="\n">

```

```

>>

/** When doing auto AST construction, we must define some variables;
 * These should be turned off if doing rewrites. This must be a "mode"
 * as a rule could have both rewrite and AST within the same alternative
 * block.
 */
@alt.declarations() ::= <<
<if(autoAST)>
<if(outerAlt)>
<if(!rewriteMode)>
root_0 = (<ASTLabelType>)adaptor.Nil();<\n>
<endif>
<endif>
<endif>
>>

// Tracking Rule Elements

/** ID and track it for use in a rewrite rule */
tokenRefTrack(token,label,elementIndex,hetero) ::= <<
<tokenRefBang(...)> <! Track implies no auto AST construction!>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>stream_<token>.Add(<label>);<\n>
>>

/** ids+=ID and track it for use in a rewrite rule; adds to ids *and*
 * to the tracking list stream_ID for use in the rewrite.
 */
tokenRefTrackAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRefTrack(...)>
<listLabel(elem=label,...)>
>>

/** ^(ID ...) track for rewrite */
tokenRefRuleRootTrack(token,label,elementIndex,hetero) ::= <<
<tokenRefBang(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>stream_<token>.Add(<label>);<\n>
>>

/** Match ^(label+=TOKEN ...) track for rewrite */
tokenRefRuleRootTrackAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRefRuleRootTrack(...)>
<listLabel(elem=label,...)>
>>

/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(...)>

```

```

<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>stream_<rule.name>.Add(<label>.Tree);
>>

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefTrack(...)>
<listLabel(elem=label+".Tree",...)>
>>

/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>stream_<rule>.Add(<label>.Tree);
>>

/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRootTrack(...)>
<listLabel(elem=label+".Tree",...)>
>>

// R e w r i t e

rewriteCode(
alts, description,
referencedElementsDeep, // ALL referenced elements to right of ->
referencedTokenLabels,
referencedTokenListLabels,
referencedRuleLabels,
referencedRuleListLabels,
referencedWildcardLabels,
referencedWildcardListLabels,
rewriteBlockLevel, enclosingTreeLevel, treeLevel) ::=
<<

{
// AST REWRITE
// elements: <referencedElementsDeep; separator=", ">
// token labels: <referencedTokenLabels; separator=", ">
// rule labels: <referencedRuleLabels; separator=", ">
// token list labels: <referencedTokenListLabels; separator=", ">
// rule list labels: <referencedRuleListLabels; separator=", ">
// wildcard labels: <referencedWildcardLabels,referencedWildcardListLabels; separator=", ">
<if(backtracking)>
if ( <actions.(actionScope).synpredgate> ) {<\n>
<endif>
<prevRuleRootRef(>.Tree = root_0;
<rewriteCodeLabels(>

```

```

root_0 = (<ASTLabelType>)adaptor.Nil();
<alts:rewriteAlt(); separator="else ">
<! if tree parser and rewrite=true !>
<if(TREE_PARSER)>
<if(rewriteMode)>
<prevRuleRootRef(>).Tree = (<ASTLabelType>)adaptor.RulePostProcessing(root_0);
input.ReplaceChildren(adaptor.GetParent(retval.Start),
    adaptor.GetChildIndex(retval.Start),
    adaptor.GetChildIndex(_last),
    retval.Tree);
<endif>
<endif>
<! if parser or tree-parser && rewrite!=true, we need to set result !>
<if(!TREE_PARSER)>
<prevRuleRootRef(>).Tree = root_0;<\n>
<else>
<if(!rewriteMode)>
<prevRuleRootRef(>).Tree = root_0;
<endif>
<endif>
<if(backtracking)>
}<\n>
<endif>
}

>>

rewriteCodeLabels() ::= <<
<referencedTokenLabels
    :{RewriteRule<rewriteElementType>Stream stream_<it>=new
RewriteRule<rewriteElementType>Stream(adaptor,"token <it>",<it>)};
    separator="\n"
>
<referencedTokenListLabels
    :{RewriteRule<rewriteElementType>Stream stream_<it>=new
RewriteRule<rewriteElementType>Stream(adaptor,"token <it> ", list_<it>)};
    separator="\n"
>
<referencedWildcardLabels
    :{RewriteRuleSubtreeStream stream_<it>=new RewriteRuleSubtreeStream(adaptor,"wildcard <it>",<it>)};
    separator="\n"
>
<referencedWildcardListLabels
    :{RewriteRuleSubtreeStream stream_<it>=new RewriteRuleSubtreeStream(adaptor,"wildcard <it> ",list_<it>)};
    separator="\n"
>
<referencedRuleLabels
    :{RewriteRuleSubtreeStream stream_<it>=new RewriteRuleSubtreeStream(adaptor,"rule

```

```

<it>",<it>!=null?<it>.Tree:null);};
    separator="\n"
>
<referencedRuleListLabels
  :{RewriteRuleSubtreeStream stream_<it>=new RewriteRuleSubtreeStream(adaptor,"token <it>",list_<it>);};
  separator="\n"
>
>>

/** Generate code for an optional rewrite block; note it uses the deep ref'd element
 * list rather shallow like other blocks.
 */
rewriteOptionalBlock(
  alt,rewriteBlockLevel,
  referencedElementsDeep, // all nested refs
  referencedElements, // elements in immediately block; no nested blocks
  description) ::=
<<
// <fileName>:<description>
if ( <referencedElementsDeep:{el | stream_<el>.HasNext}; separator="||"> )
{
  <alt>
}
<referencedElementsDeep:{el | stream_<el>.Reset();<\n>}>
>>

rewriteClosureBlock(
  alt,rewriteBlockLevel,
  referencedElementsDeep, // all nested refs
  referencedElements, // elements in immediately block; no nested blocks
  description) ::=
<<
// <fileName>:<description>
while ( <referencedElements:{el | stream_<el>.HasNext}; separator="||"> )
{
  <alt>
}
<referencedElements:{el | stream_<el>.Reset();<\n>}>
>>

rewritePositiveClosureBlock(
  alt,rewriteBlockLevel,
  referencedElementsDeep, // all nested refs
  referencedElements, // elements in immediately block; no nested blocks
  description) ::=
<<
if ( !(<referencedElements:{el | stream_<el>.HasNext}; separator="||"> )
{

```



```

    throw new RewriteEarlyExitException();
}
while ( <referencedElements:{el | stream_<el>.HasNext}; separator="||"> )
{
    <alt>
}
<referencedElements:{el | stream_<el>.Reset();<\n>}>
>>

rewriteAlt(a) ::= <<
// <a.description>
<if(a.pred)>
if (<a.pred>)
{
    <a.alt>
}<\n>
<else>
{
    <a.alt>
}<\n>
<endif>
>>

/** For empty rewrites: "r : ... -> ;" */
rewriteEmptyAlt() ::= "root_0 = null;"

rewriteTree(root,children,description,enclosingTreeLevel,treeLevel) ::= <<
// <fileName>:<description>
{
    <ASTLabelType> root_<treeLevel> = (<ASTLabelType>)adaptor.Nil();
    <root:rewriteElement()>
    <children:rewriteElement()>
    adaptor.AddChild(root_<enclosingTreeLevel>, root_<treeLevel>);
}<\n>
>>

rewriteElementList(elements) ::= "<elements:rewriteElement()>"

rewriteElement(e) ::= <<
<@pregen()>
DebugLocation(<e.line>, <e.pos>);
<e.el>
>>

/** Gen ID or ID[args] */
rewriteTokenRef(token,elementIndex,hetero,args) ::= <<
adaptor.AddChild(root_<treeLevel>, <createRewriteNodeFromElement(...)>);<\n>
>>

```

```

/** Gen $label ... where defined via label=ID */
rewriteTokenLabelRef(label,elementIndex) ::= <<
adaptor.AddChild(root_<treeLevel>, stream_<label>.NextNode());<\n>
>>

/** Gen $label ... where defined via label+=ID */
rewriteTokenListLabelRef(label,elementIndex) ::= <<
adaptor.AddChild(root_<treeLevel>, stream_<label>.NextNode());<\n>
>>

/** Gen ^($label ...) */
rewriteTokenLabelRefRoot(label,elementIndex) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(stream_<label>.NextNode(), root_<treeLevel>);<\n>
>>

/** Gen ^($label ...) where label+=... */
rewriteTokenListLabelRefRoot ::= rewriteTokenLabelRefRoot

/** Gen ^(ID ...) or ^(ID[args] ...) */
rewriteTokenRefRoot(token,elementIndex,hetero,args) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(<createRewriteNodeFromElement(...)>,
root_<treeLevel>);<\n>
>>

rewriteImaginaryTokenRef(args,token,hetero,elementIndex) ::= <<
adaptor.AddChild(root_<treeLevel>, <createImaginaryNode(tokenType=token, ...)>);<\n>
>>

rewriteImaginaryTokenRefRoot(args,token,hetero,elementIndex) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(<createImaginaryNode(tokenType=token, ...)>,
root_<treeLevel>);<\n>
>>

/** plain -> {foo} action */
rewriteAction(action) ::= <<
root_0 = <action>;<\n>
>>

/** What is the name of the previous value of this rule's root tree? This
* let's us refer to $rule to mean previous value. I am reusing the
* variable 'tree' sitting in retval struct to hold the value of root_0 right
* before I set it during rewrites. The assign will be to retval.tree.
*/
prevRuleRootRef() ::= "retval"

rewriteRuleRef(rule) ::= <<
adaptor.AddChild(root_<treeLevel>, stream_<rule>.NextTree());<\n>

```

```

>>

rewriteRuleRefRoot(rule) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(stream_<rule>.NextNode(), root_<treeLevel>);<\n>
>>

rewriteNodeAction(action) ::= <<
adaptor.AddChild(root_<treeLevel>, <action>);<\n>
>>

rewriteNodeActionRoot(action) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(<action>, root_<treeLevel>);<\n>
>>

/** Gen $ruleLabel ... where defined via ruleLabel=rule */
rewriteRuleLabelRef(label) ::= <<
adaptor.AddChild(root_<treeLevel>, stream_<label>.NextTree());<\n>
>>

/** Gen $ruleLabel ... where defined via ruleLabel+=rule */
rewriteRuleListLabelRef(label) ::= <<
adaptor.AddChild(root_<treeLevel>, stream_<label>.NextTree());<\n>
>>

/** Gen ^($ruleLabel ...) where ruleLabel=rule */
rewriteRuleLabelRefRoot(label) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(stream_<label>.NextNode(), root_<treeLevel>);<\n>
>>

/** Gen ^($ruleLabel ...) where ruleLabel+=rule */
rewriteRuleListLabelRefRoot(label) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(stream_<label>.NextNode(), root_<treeLevel>);<\n>
>>

rewriteWildcardLabelRef(label) ::= <<
adaptor.AddChild(root_<treeLevel>, stream_<label>.NextTree());<\n>
>>

createImaginaryNode(tokenType,hetero,args) ::= <<
<if(hetero)>
<! new MethodNode(IDLabel, args) !>
new <hetero>(<tokenType><if(args)>, <args; separator=", "><endif>)
<else>
(<ASTLabelType>)adaptor.Create(<tokenType>, <args; separator=", "><if(!args)>"<tokenType>"<endif>)
<endif>
>>

createRewriteNodeFromElement(token,hetero,args) ::= <<

```

```

<if(hetero)>
new <hetero>(stream_<token>.NextToken(<if(args)>, <args; separator=", "><endif>)
<else>
<if(args)> <! must create new node from old !>
adaptor.Create(<token>, <args; separator=", ">)
<else>
stream_<token>.NextNode()
<endif>
<endif>
>>

```

Found in path(s):

```

* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-
jar/org/antlr/codegen/templates/CSharp3/AST.stg

```

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```

/*

```

```

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```

```

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```

```

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```

*/

```

```

/** Template overrides to add debugging to AST stuff. Dynamic inheritance

```

* hierarchy is set up as ASTDbg : AST : Dbg : Java by code generator.

*/

group ASTDbg;

parserMembers() ::= <<

protected DebugTreeAdaptor adaptor =

new DebugTreeAdaptor(null,new CommonTreeAdaptor());

public void setTreeAdaptor(TreeAdaptor adaptor) {

this.adaptor = new DebugTreeAdaptor(dbg,adaptor);

}

public TreeAdaptor getTreeAdaptor() {

return adaptor;

}<\n>

>>

parserCtorBody() ::= <<

>>

createListenerAndHandshake() ::= <<

<super.createListenerAndHandshake(>

>>

ctorForPredefinedListener() ::= <<

>>

@rewriteElement.pregen() ::= ""

Found in path(s):

* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/codegen/templates/C/ASTDbg.stg

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*/

```
group ActionScript implements ANTLRCore;
```

```
asTypeInitMap ::= [
```

```
  "int": "0",
```

```
  "uint": "0",
```

```
  "Number": "0.0",
```

```
  "Boolean": "false",
```

```
  default: "null" // anything other than an atomic type
```

```
]
```

```
/** The overall file structure of a recognizer; stores methods for rules
```

```
 * and cyclic DFAs plus support code.
```

```
*/
```

```
outputFile(LEXER,PARSER,TREE_PARSER, actionScope, actions,
```

```
  docComment, recognizer,
```

```
  name, tokens, tokenNames, rules, cyclicDFAs,
```

```
  bitsets, buildTemplate, buildAST, rewriteMode, profile,
```

```
  backtracking, synpreds, memoize, numRules,
```

```
  fileName, ANTLRVersion, generatedTimestamp, trace,
```

```
  scopes, superClass, literals) ::=
```

```
<<
```

```
// $ANTLR <ANTLRVersion> <fileName> <generatedTimestamp>
```

```
package<if(actions.(actionScope).package)> <actions.(actionScope).package><endif> {
```

```
  <actions.(actionScope).header>
```

```
  <@imports>
```

```
import org.antlr.runtime.*;
```

```
<if(TREE_PARSER)>
```

```
  import org.antlr.runtime.tree.*;
```

```
<endif>
```

```
  <@end>
```

```
  <docComment>
```

```
  <recognizer>
```

```
}
```

```
>>
```

```
lexer(grammar, name, tokens, scopes, rules, numRules, labelType="Token",
```

```
  filterMode, superClass="Lexer") ::= <<
```

```

public class <grammar.recognizerName> extends
<if(actions.(actionScope).superClass)><actions.(actionScope).superClass><else><@superClassName><superClass
><@end><endif> {
    <tokens:{public static const <it.name>:int=<it.type>;}; separator="\n">
    <scopes:{<if(it.isDynamicGlobalScope)><globalAttributeScope(scope=it)><endif>}>
    <actions.lexer.members>

    // delegates
    <grammar.delegates:
        {g|public var <g.delegateName()>:<g.recognizerName>;}; separator="\n">
    // delegators
    <grammar.delegators:
        {g|public var <g.delegateName()>:<g.recognizerName>;}; separator="\n">
    <last(grammar.delegators):{g|public var gParent:<g.recognizerName>;}>

    public function <grammar.recognizerName>(<grammar.delegators:{g|<g.delegateName()>:<g.recognizerName>,
}>input:CharStream = null, state:RecognizerSharedState = null) {
        super(input, state);
        <cyclicDFAs:cyclicDFACTOR()>
    <if(memoize)>
    <if(grammar.grammarIsRoot)>
        this.state.ruleMemo = new Array(<numRules>+1);<\n> <! index from 1..n !>
    <endif>
    <endif>
        <grammar.directDelegates:
            {g|<g.delegateName()> = new <g.recognizerName>(<trunc(g.delegators):{p|<p.delegateName()>, }>this,
input, this.state);}; separator="\n">
        <grammar.delegators:
            {g|this.<g.delegateName()> = <g.delegateName()>;}; separator="\n">
        <last(grammar.delegators):{g|gParent = <g.delegateName()>;}>
        }
        public override function get grammarFileName():String { return "<fileName>"; }

    <if(filterMode)>
        <filteringNextToken()>
    <endif>
        <rules; separator="\n\n">

        <synpreds:{p | <lexerSynpred(p)>}>

        <cyclicDFAs:cyclicDFA()> <! dump tables for all DFA !>

    }
    >>

    /** A override of Lexer.nextToken() that backtracks over mTokens() looking
    * for matches. No error can be generated upon error; just rewind, consume
    * a token and then try again. backtracking needs to be set as well.

```

```

* Make rule memoization happen only at levels above 1 as we start mTokens
* at backtracking==1.
*/
filteringNextToken() ::= <<
public override function nextToken():Token {
  while (true) {
    if ( input.LA(1)==CharStreamConstants.EOF ) {
      return TokenConstants.EOF_TOKEN;
    }
    this.state.token = null;
    this.state.channel = TokenConstants.DEFAULT_CHANNEL;
    this.state.tokenStartCharIndex = input.index;
    this.state.tokenStartCharPositionInLine = input.charPositionInLine;
    this.state.tokenStartLine = input.line;
    this.state.text = null;
    try {
      var m:int = input.mark();
      this.state.backtracking=1; <! means we won't throw slow exception !>
      this.state.failed=false;
      mTokens();
      this.state.backtracking=0;
      <! mTokens backtracks with synpred at backtracking==2
      and we set the synpredgate to allow actions at level 1. !>
      if ( this.state.failed ) {
        input.rewindTo(m);
        input.consume(); <! advance one char and try again !>
      }
      else {
        emit();
        return this.state.token;
      }
    }
    catch (re:RecognitionException) {
      // shouldn't happen in backtracking mode, but...
      reportError(re);
      recover(re);
    }
  }
  // Not reached - For ActionScript compiler
  throw new Error();
}

public override function memoize(input:IntStream,
  ruleIndex:int,
  ruleStartIndex:int):void
{
  if ( this.state.backtracking>1 ) super.memoize(input, ruleIndex, ruleStartIndex);
}

```



```

public override function alreadyParsedRule(input:IntStream, ruleIndex:int):Boolean {
if ( this.state.backtracking>1 ) return super.alreadyParsedRule(input, ruleIndex);
return false;
}
>>

actionGate() ::= "this.state.backtracking==0"

filteringActionGate() ::= "this.state.backtracking==1"

/** How to generate a parser */
genericParser(grammar, name, scopes, tokens, tokenNames, rules, numRules,
    bitsets, inputStreamType, superClass, filterMode,
    ASTLabelType="Object", labelType, members, rewriteElementType) ::= <<
public class <grammar.recognizerName> extends
<if(actions.(actionScope).superClass)><actions.(actionScope).superClass><else><@superClassName><superClass
><@end><endif> {
<if(grammar.grammarIsRoot)>
    public static const tokenNames:Array = [
        "\<invalid>", "\<EOR>", "\<DOWN>", "\<UP>", <tokenNames; separator=", ">
    ];<\n>
<endif>
    <tokens:{public static const <it.name>:int=<it.type>;}; separator="\n">

    // delegates
    <grammar.delegates:
        {g|public var <g.delegateName():<g.recognizerName>;}; separator="\n">
    // delegators
    <grammar.delegators:
        {g|public var <g.delegateName():<g.recognizerName>;}; separator="\n">
    <last(grammar.delegators):{g|public var gParent:<g.recognizerName>;}>

    <scopes:{<if(it.isDynamicGlobalScope)><globalAttributeScope(scope=it)><endif>}>
    <@members>
    <! WARNING. bug in ST: this is cut-n-paste into Dbg.stg !>
    public function <grammar.recognizerName>(<grammar.delegators:{g|<g.delegateName():<g.recognizerName>,
}>input:<inputStreamType>, state:RecognizerSharedState = null) {
        super(input, state);
        <cyclicDFAs:cyclicDFACtor()>
        <parserCtorBody()>
        <grammar.directDelegates:
            {g|<g.delegateName() = new <g.recognizerName>(<trunc(g.delegators):{p|p.delegateName()>, }>this,
input, this.state);}; separator="\n">
        <grammar.indirectDelegates:{g | <g.delegateName() = <g.delegator.delegateName()>.<g.delegateName()>;};
separator="\n">
        <last(grammar.delegators):{g|gParent = <g.delegateName()>;}>
    }
}

```

```

<@end>

public override function get tokenNames():Array { return
<grammar.composite.rootGrammar.recognizerName>.tokenNames; }
public override function get grammarFileName():String { return "<fileName>"; }

<members>

<rules; separator="\n\n">

<! generate rule/method definitions for imported rules so they
appear to be defined in this recognizer. !>
// Delegated rules
<grammar.delegatedRules:{ruleDescriptor|
public function
<ruleDescriptor.name><(ruleDescriptor.parameterScope:parameterScope(scope=it))>:<returnType()> \{
<if(ruleDescriptor.hasReturnValue)>return
<endif><ruleDescriptor.grammar.delegateName()>.<ruleDescriptor.name><(ruleDescriptor.parameterScope.attribut
es:{a|<a.name>}; separator=", ">); \}}; separator="\n">

<synpreds:{p | <synpred(p)>>

<cyclicDFAs:cyclicDFA()> <! dump tables for all DFA !>

<bitsets:bitset(name={FOLLOW_<it.name>_in_<it.inName><it.tokenIndex>},
words64=it.bits)>
}
>>

parserCtorBody() ::= <<
<if(memoize)>
<if(grammar.grammarIsRoot)>
this.state.ruleMemo = new Array(<length(grammar.allImportedRules)>+1);<\n> <! index from 1..n !>
<endif>
<endif>
<grammar.delegators:
{g|this.<g.delegateName()> = <g.delegateName()>;}; separator="\n">
>>

parser(grammar, name, scopes, tokens, tokenNames, rules, numRules, bitsets, ASTLabelType="Object",
superClass="Parser", labelType="Token", members={<actions.parser.members>}) ::= <<
<genericParser(inputStreamType="TokenStream", rewriteElementType="Token", ...)>
>>

/** How to generate a tree parser; same as parser except the input
* stream is a different type.
*/
treeParser(grammar, name, scopes, tokens, tokenNames, globalAction, rules, numRules, bitsets,

```

```

labelType={<ASTLabelType>}, ASTLabelType="Object", superClass="TreeParser",
members={<actions.treeparser.members>}, filterMode) ::= <<
<genericParser(inputStreamType="TreeNodeStream", rewriteElementType="Node", ...)>
>>

```

```

/** A simpler version of a rule template that is specific to the imaginary
 * rules created for syntactic predicates. As they never have return values
 * nor parameters etc..., just give simplest possible method. Don't do
 * any of the normal memoization stuff in here either; it's a waste.
 * As predicates cannot be inlined into the invoking rule, they need to
 * be in a rule by themselves.
 */

```

```

synpredRule(ruleName, ruleDescriptor, block, description, nakedBlock) ::=
<<

```

```

// $ANTLR start <ruleName>

```

```

public final function <ruleName>_fragment(<ruleDescriptor.parameterScope:parameterScope(scope=it)>):void {
    <ruleLabelDefs()>

```

```

<if(trace)>

```

```

    traceIn("<ruleName>_fragment", <ruleDescriptor.index>);

```

```

    try {

```

```

        <block>

```

```

    }

```

```

    finally {

```

```

        traceOut("<ruleName>_fragment", <ruleDescriptor.index>);

```

```

    }

```

```

<else>

```

```

    <block>

```

```

<endif>

```

```

}

```

```

// $ANTLR end <ruleName>

```

```

>>

```

```

synpred(name) ::= <<

```

```

public final function <name>():Boolean {

```

```

    this.state.backtracking++;

```

```

    <@start()>

```

```

    var start:int = input.mark();

```

```

    try {

```

```

        <name>_fragment(); // can never throw exception

```

```

    } catch (re:RecognitionException) {

```

```

        trace("impossible: "+re);

```

```

    }

```

```

    var success:Boolean = !this.state.failed;

```

```

    input.rewindTo(start);

```

```

    <@stop()>

```

```

    this.state.backtracking--;

```

```

    this.state.failed=false;

```

```

    return success;

```

```

}<\n>
>>

lexerSynpred(name) ::= <<
<synpred(name)>
>>

ruleMemoization(name) ::= <<
<if(memoize)>
if ( this.state.backtracking>0 && alreadyParsedRule(input, <ruleDescriptor.index> ) ) { return <ruleReturnValue()>;
}
<endif>
>>

/** How to test for failure and return from rule */
checkRuleBacktrackFailure() ::= <<
<if(backtracking)>if (this.state.failed) return <ruleReturnValue()>;<endif>
>>

/** This rule has failed, exit indicating failure during backtrack */
ruleBacktrackFailure() ::= <<
<if(backtracking)>if (this.state.backtracking>0) { this.state.failed=true; return <ruleReturnValue()>;}<endif>
>>

/** How to generate code for a rule. This includes any return type
 * data aggregates required for multiple return values.
 */
rule(ruleName,ruleDescriptor,block,emptyRule,description,exceptions,finally,memoize) ::= <<
<ruleAttributeScope(scope=ruleDescriptor.ruleScope)>
// $ANTLR start <ruleName>
// <fileName>:<description>
public final function <ruleName>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>):<returnType()> {
  <if(trace)>traceIn("<ruleName>", <ruleDescriptor.index>);<endif>
  <ruleScopeSetUp()>
  <ruleDeclarations()>
  <ruleLabelDefs()>
  <ruleDescriptor.actions.init>
  <@preamble()>
  try {
    <ruleMemoization(name=ruleName)>
    <block>
    <ruleCleanUp()>
    <(ruleDescriptor.actions.after):execAction()>
  }
  <if(exceptions)>
    <exceptions:{e|<catch(decl=e.decl,action=e.action)><\n>}>
  <else>
  <if(!emptyRule)>

```

```

<if(actions.(actionScope).rulecatch)>
  <actions.(actionScope).rulecatch>
<else>
  catch (re:RecognitionException) {
    reportError(re);
    recoverStream(input,re);
    <@setErrorReturnValue()>
  }<\n>
<endif>
<endif>
<endif>
  finally {
    <if(trace)>traceOut("<ruleName>", <ruleDescriptor.index>);<endif>
    <memoize()>
    <ruleScopeCleanUp()>
    <finally>
  }
  <@postamble()>
  return <ruleReturnValue()>;
}
// $ANTLR end <ruleName>
>>

catch(decl,action) ::= <<
catch (<e.decl>) {
  <e.action>
}
>>

ruleDeclarations() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
var retval:<returnType()> = new <returnType()>();
retval.start = input.LT(1);<\n>
<else>
<ruleDescriptor.returnScope.attributes:{ a |
var <a.name>:<a.type> = <if(a.initValue)><a.initValue><else><initValue(a.type)><endif>;
}>
<endif>
<if(memoize)>
var <ruleDescriptor.name>_startIndex:int = input.index;
<endif>
>>

ruleScopeSetUp() ::= <<
<ruleDescriptor.useScopes:{<it>_stack.push(new Object());}; separator="\n">
<ruleDescriptor.ruleScope:{<it.name>_stack.push(new Object());}; separator="\n">
>>

```

```

ruleScopeCleanup() ::= <<
<ruleDescriptor.useScopes:{<it>_stack.pop();}; separator="\n">
<ruleDescriptor.ruleScope:{<it.name>_stack.pop();}; separator="\n">
>>

```

```

ruleLabelDefs() ::= <<
<[ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels,
ruleDescriptor.wildcardTreeLabels,ruleDescriptor.wildcardTreeListLabels]
:{var <it.label.text>:<labelType>=null;}; separator="\n"
>
<[ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels,ruleDescriptor.wildcardTreeListLabels]
:{var list_<it.label.text>:Array=null;}; separator="\n"
>
<ruleDescriptor.ruleLabels:ruleLabelDef(label=it); separator="\n">
<ruleDescriptor.ruleListLabels:{ll|var <ll.label.text>:RuleReturnScope = null;}; separator="\n">
>>

```

```

lexerRuleLabelDefs() ::= <<
<[ruleDescriptor.tokenLabels,
ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleLabels]
:{var <it.label.text>:<labelType>=null;}; separator="\n"
>
<ruleDescriptor.charLabels:{var <it.label.text>:int;}; separator="\n">
<[ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleListLabels]
:{var list_<it.label.text>:Array=null;}; separator="\n"
>
>>

```

```

ruleReturnValue() ::= <<
<if(!ruleDescriptor.isSynPred)>
<if(ruleDescriptor.hasReturnValue)>
<if(ruleDescriptor.hasSingleReturnValue)>
<ruleDescriptor.singleValueReturnName>
<else>
retval
<endif>
<endif>
<endif>
>>

```

```

ruleCleanup() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<if(!TREE_PARSER)>
retval.stop = input.LT(-1);<\n>
<endif>
<endif>

```

```

>>

memoize() ::= <<
<if(memoize)>
<if(backtracking)>
if ( this.state.backtracking>0 ) { memoize(input, <ruleDescriptor.index>, <ruleDescriptor.name>_StartIndex); }
<endif>
<endif>
>>

```

```

/** How to generate a rule in the lexer; naked blocks are used for
 * fragment rules.
 */

```

```

lexerRule(ruleName,nakedBlock,ruleDescriptor,block,memoize) ::= <<
// $ANTLR start <ruleName>
public final function m<ruleName>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>):void {
  <if(trace)>traceIn("<ruleName>", <ruleDescriptor.index>);<endif>
  <ruleScopeSetUp()>
  <ruleDeclarations()>
  try {
<if(nakedBlock)>
    <ruleMemoization(name=ruleName)>
    <lexerRuleLabelDefs()>
    <ruleDescriptor.actions.init>
    <block><\n>
<else>
    var _type:int = <ruleName>;
    var _channel:int = DEFAULT_TOKEN_CHANNEL;
    <ruleMemoization(name=ruleName)>
    <lexerRuleLabelDefs()>
    <ruleDescriptor.actions.init>
    <block>
    <ruleCleanUp()>
    this.state.type = _type;
    this.state.channel = _channel;
    <(ruleDescriptor.actions.after):execAction()>
<endif>
  }
  finally {
    <if(trace)>traceOut("<ruleName>", <ruleDescriptor.index>);<endif>
    <ruleScopeCleanUp()>
    <memoize()>
  }
}
// $ANTLR end <ruleName>
>>

```

```

/** How to generate code for the implicitly-defined lexer grammar rule

```

```

* that chooses between lexer rules.
*/
tokensRule(ruleName,nakedBlock,args,block,ruleDescriptor) ::= <<
public override function mTokens():void {
    <block><\n>
}
>>

// S U B R U L E S

/** A (...) subrule with multiple alternatives */
block(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// <fileName>:<description>
var alt<decisionNumber>:int=<maxAlt>;
<decls>
<@predecision()>
<decision>
<@postdecision()>
<@prebranch()>
switch (alt<decisionNumber>) {
    <alts:altSwitchCase()>
}
<@postbranch()>
>>

/** A rule block with multiple alternatives */
ruleBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// <fileName>:<description>
var alt<decisionNumber>:int=<maxAlt>;
<decls>
<@predecision()>
<decision>
<@postdecision()>
switch (alt<decisionNumber>) {
    <alts:altSwitchCase()>
}
>>

ruleBlockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
// <fileName>:<description>
<decls>
<@prealt()>
<alts>
<@postalt()>
>>

/** A special case of a (...) subrule with a single alternative */
blockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<

```



```

// <fileName>:<description>
<decls>
<@prealt()>
<alts>
<@postalt()>
>>

/** A (..)+ block with 1 or more alternatives */
positiveClosureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// <fileName>:<description>
var cnt<decisionNumber>:int=0;
<decls>
<@preloop()>
loop<decisionNumber>:
do {
  var alt<decisionNumber>:int=<maxAlt>;
  <@predecision()>
  <decision>
  <@postdecision()>
  switch (alt<decisionNumber>) {
<alts:altSwitchCase()>
default :
  if ( cnt<decisionNumber> >= 1 ) break loop<decisionNumber>;
  <ruleBacktrackFailure()>
  throw new EarlyExitException(<decisionNumber>, input);
  <! Need to add support for earlyExitException debug hook !>
  }
  cnt<decisionNumber>++;
} while (true);
<@postloop()>
>>

```

```

positiveClosureBlockSingleAlt ::= positiveClosureBlock

```

```

/** A (..)* block with 1 or more alternatives */
closureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// <fileName>:<description>
<decls>
<@preloop()>
loop<decisionNumber>:
do {
  var alt<decisionNumber>:int=<maxAlt>;
  <@predecision()>
  <decision>
  <@postdecision()>
  switch (alt<decisionNumber>) {

```

```

<alts:altSwitchCase(>
default :
    break loop<decisionNumber>;
}
} while (true);
<@postloop(>
>>

closureBlockSingleAlt ::= closureBlock

/** Optional blocks (x)? are translated to (x|) by before code generation
 * so we can just use the normal block template
 */
optionalBlock ::= block

optionalBlockSingleAlt ::= block

/** A case in a switch that jumps to an alternative given the alternative
 * number. A DFA predicts the alternative and then a simple switch
 * does the jump to the code that actually matches that alternative.
 */
altSwitchCase() ::= <<
case <i> :
    <@prealt(>
    <it>
    break;<\n>
>>

/** An alternative is just a list of elements; at outermost level */
alt(elements,altNum,description,autoAST,outerAlt,treeLevel,rew) ::= <<
// <fileName>:<description>
{
<@declarations(>
<elements:element(>
<rew>
<@cleanup(>
}
>>

/** What to emit when there is no rewrite. For auto build
 * mode, does nothing.
 */
noRewrite(rewriteBlockLevel, treeLevel) ::= ""

// E L E M E N T S

/** Dump the elements one per line */
element() ::= <<

```

```

<@prematch(>
<it.el><\n>
>>

/** match a token optionally with a label in front */
tokenRef(token,label,elementIndex,hetero) ::= <<
<if(label)><label>=<labelType><(<endif>matchStream(input,<token>,FOLLOW_<token>_in_<ruleName><element
Index>)<if(label)><endif>; <checkRuleBacktrackFailure(>
>>

/** ids+=ID */
tokenRefAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRef(...)>
<listLabel(elem=label,...)>
>>

listLabel(label,elem) ::= <<
if (list_<label>==null) list_<label>=new Array();
list_<label>.push(<elem>);<\n>
>>

/** match a character */
charRef(char,label) ::= <<
<if(label)>
<label> = input.LA(1);<\n>
<endif>
match(<char>); <checkRuleBacktrackFailure(>
>>

/** match a character range */
charRangeRef(a,b,label) ::= <<
<if(label)>
<label> = input.LA(1);<\n>
<endif>
matchRange(<a>,<b>); <checkRuleBacktrackFailure(>
>>

/** For now, sets are interval tests and must be tested inline */
matchSet(s,label,elementIndex,postmatchCode="") ::= <<
<if(label)>
<if(LEXER)>
<label>= input.LA(1);<\n>
<else>
<label>=<labelType>(input.LT(1));<\n>
<endif>
<endif>
<endif>
if ( <s> ) {
    input.consume();

```

```

    <postmatchCode>
<if(!LEXER)>
    this.state.errorRecovery=false;
<endif>
    <if(backtracking)>this.state.failed=false;<endif>
}
else {
    <ruleBacktrackFailure()>
    <@mismatchedSetException()>
<if(LEXER)>
    throw recover(new MismatchedSetException(null,input));<\n>
<else>
    throw new MismatchedSetException(null,input);
    <! use following code to make it recover inline; remove throw mse;
    recoverFromMismatchedSet(input,mse,FOLLOW_set_in_<ruleName><elementIndex>);
    !>
<endif>
}<\n>
>>

```

```

matchRuleBlockSet ::= matchSet

```

```

matchSetAndListLabel(s,label,elementIndex,postmatchCode) ::= <<
<matchSet(...)>
<listLabel(elem=label,...)>
>>

```

```

/** Match a string literal */
lexerStringRef(string,label,elementIndex) ::= <<
<if(label)>
var <label>Start:int = charIndex;
matchString(<string>); <checkRuleBacktrackFailure()>
<label> = CommonToken.createFromStream(input, TokenConstants.INVALID_TOKEN_TYPE,
TokenConstants.DEFAULT_CHANNEL, <label>Start, charIndex-1);
<else>
matchString(<string>); <checkRuleBacktrackFailure()><\n>
<endif>
>>

```

```

wildcard(label,elementIndex) ::= <<
<if(label)>
<label>=<labelType>(input.LT(1));<\n>
<endif>
matchAny(input); <checkRuleBacktrackFailure()>
>>

```

```

wildcardAndListLabel(label,elementIndex) ::= <<
<wildcard(...)>

```

```

<listLabel(elem=label,...)>
>>

/** Match . wildcard in lexer */
wildcardChar(label, elementIndex) ::= <<
<if(label)>
<label> = input.LA(1);<\n>
<endif>
matchAny(); <checkRuleBacktrackFailure()>
>>

wildcardCharListLabel(label, elementIndex) ::= <<
<wildcardChar(...)>
<listLabel(elem=label,...)>
>>

/** Match a rule reference by invoking it possibly with arguments
 * and a return value or values. The 'rule' argument was the
 * target rule name, but now is type Rule, whose toString is
 * same: the rule name. Now though you can access full rule
 * descriptor stuff.
 *
 * GMS: Note: do not use post-decrement operator! ASC produces bad code for exceptions in this case.
 * See: https://bugs.adobe.com/jira/browse/ASC-3625
 */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
pushFollow(FOLLOW_<rule.name>_in_<ruleName><elementIndex>);
<if(label)><label>=<endif><if(scope)><scope.delegateName()>.<endif><rule.name>(<args; separator=", ">);<\n>
state._fsp = state._fsp - 1;
<checkRuleBacktrackFailure()>
>>

/** ids+=r */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>
<listLabel(elem=label,...)>
>>

/** A lexer rule reference.
 *
 * The 'rule' argument was the target rule name, but now
 * is type Rule, whose toString is same: the rule name.
 * Now though you can access full rule descriptor stuff.
 */
lexerRuleRef(rule,label,args,elementIndex,scope) ::= <<
<if(label)>
var <label>Start<elementIndex>:int = charIndex;

```

```

<if(scope)><scope:delegateName().<endif>m<rule.name>(<args; separator=", ">);
<checkRuleBacktrackFailure()>
<label> = CommonToken.createFromStream(input, TokenConstants.INVALID_TOKEN_TYPE,
TokenConstants.DEFAULT_CHANNEL, <label>Start<elementIndex>, charIndex-1);
<else>
<if(scope)><scope:delegateName().<endif>m<rule.name>(<args; separator=", ">);
<checkRuleBacktrackFailure()>
<endif>
>>

```

```

/** i+=INT in lexer */
lexerRuleRefAndListLabel(rule,label,args,elementIndex,scope) ::= <<
<lexerRuleRef(...)>
<listLabel(elem=label,...)>
>>

```

```

/** EOF in the lexer */
lexerMatchEOF(label,elementIndex) ::= <<
<if(label)>
var <label>Start<elementIndex>:int = charIndex;
match(EOF); <checkRuleBacktrackFailure()>
var <label>:<labelType> = CommonToken.createFromStream(input, EOF,
TokenConstants.DEFAULT_CHANNEL, <label>Start<elementIndex>, charIndex-1);
<else>
match(EOF); <checkRuleBacktrackFailure()>
<endif>
>>

```

```

/** match ^(root children) in tree parser */
tree(root, actionsAfterRoot, children, nullableChildList,
enclosingTreeLevel, treeLevel) ::= <<
<root:element()>
<actionsAfterRoot:element()>
<if(nullableChildList)>
if ( input.LA(1)==TokenConstants.DOWN ) {
matchStream(input, TokenConstants.DOWN, null); <checkRuleBacktrackFailure()>
<children:element()>
matchStream(input, TokenConstants.UP, null); <checkRuleBacktrackFailure()>
}
<else>
matchStream(input, TokenConstants.DOWN, null); <checkRuleBacktrackFailure()>
<children:element()>
matchStream(input, TokenConstants.UP, null); <checkRuleBacktrackFailure()>
<endif>
>>

```

```

/** Every predicate is used as a validating predicate (even when it is
* also hoisted into a prediction expression).

```

```

*/
validateSemanticPredicate(pred,description) ::= <<
if ( !( <evalPredicate(...)> ) ) {
    <ruleBacktrackFailure()>
    throw new FailedPredicateException(input, "<ruleName>", "<description>");
}
>>

// F i x e d D F A (if-then-else)

dfaState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
var LA<decisionNumber>_<stateNumber>:int = input.LA(<k>);<\n>
<edges; separator="\nelse ">
else {
<if(eotPredictsAlt)>
    alt<decisionNumber>=<eotPredictsAlt>;
<else>
    <ruleBacktrackFailure()>
    throw new NoViableAltException("<description>", <decisionNumber>, <stateNumber>, input);<\n>
    <! Need to add hook for noViableAltException() !>
<endif>
}
>>

/** Same as a normal DFA state except that we don't examine lookahead
 * for the bypass alternative. It delays error detection but this
 * is faster, smaller, and more what people expect. For (X)? people
 * expect "if ( LA(1)==X ) match(X);" and that's it.
 */
dfaOptionalBlockState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
var LA<decisionNumber>_<stateNumber>:int = input.LA(<k>);<\n>
<edges; separator="\nelse ">
>>

/** A DFA state that is actually the loopback decision of a closure
 * loop. If end-of-token (EOT) predicts any of the targets then it
 * should act like a default clause (i.e., no error can be generated).
 * This is used only in the lexer so that for ('a')* on the end of a rule
 * anything other than 'a' predicts exiting.
 */
dfaLoopbackState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
var LA<decisionNumber>_<stateNumber>:int = input.LA(<k>);<\n>
<edges; separator="\nelse "><\n>
<if(eotPredictsAlt)>
<if(!edges)>
alt<decisionNumber>=<eotPredictsAlt>; <! if no edges, don't gen ELSE !>
<else>
else {

```

```

    alt<decisionNumber>=<eotPredictsAlt>;
  }<\n>
<endif>
<endif>
>>

/** An accept state indicates a unique alternative has been predicted */
dfaAcceptState(alt) ::= "alt<decisionNumber>=<alt>";

/** A simple edge with an expression. If the expression is satisfied,
 * enter to the target state. To handle gated productions, we may
 * have to evaluate some predicates for this edge.
 */
dfaEdge(labelExpr, targetState, predicates) ::= <<
if ( (<labelExpr> <if(predicates)>&& (<predicates>)<endif>) {
  <targetState>
}
>>

// F i x e d D F A (switch case)

/** A DFA state where a SWITCH may be generated. The code generator
 * decides if this is possible: CodeGenerator.canGenerateSwitch().
 */
dfaStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch ( input.LA(<k>) ) {
<edges; separator="\n">
default:
<if(eotPredictsAlt)>
  alt<decisionNumber>=<eotPredictsAlt>;
<else>
  <ruleBacktrackFailure()>
  throw new NoViableAltException("<description>", <decisionNumber>, <stateNumber>, input);<\n>
  <! Need to add hook for noViableAltException !>
<endif>
}<\n>
>>

dfaOptionalBlockStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch ( input.LA(<k>) ) {
  <edges; separator="\n">
}<\n>
>>

dfaLoopbackStateSwitch(k, edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch ( input.LA(<k>) ) {
<edges; separator="\n"><\n>
<if(eotPredictsAlt)>

```



```

default:
    alt<decisionNumber>=<eotPredictsAlt>;
    break;<\n>
<endif>
}<\n>
>>

dfaEdgeSwitch(labels, targetState) ::= <<
<labels:{ case <it>:}; separator="\n">
{
    <targetState>
}
    break;
>>

// C y c l i c D F A

/** The code to initiate execution of a cyclic DFA; this is used
 * in the rule to predict an alt just like the fixed DFA case.
 * The <name> attribute is inherited via the parser, lexer, ...
 */
dfaDecision(decisionNumber,description) ::= <<
alt<decisionNumber> = dfa<decisionNumber>.predict(input);
>>

cyclicDFActor(dfa) ::= <<

dfa<dfa.decisionNumber> = new DFA(this, <dfa.decisionNumber>,
    "<dfa.description>",
    DFA<dfa.decisionNumber>_eot, DFA<dfa.decisionNumber>_eof, DFA<dfa.decisionNumber>_min,
    DFA<dfa.decisionNumber>_max, DFA<dfa.decisionNumber>_accept, DFA<dfa.decisionNumber>_special,
    DFA<dfa.decisionNumber>_transition<if(dfa.specialStateSTs)>,
    DFA<dfa.decisionNumber>_specialStateTransition<endif>);

>>

/* Dump DFA tables as run-length-encoded Strings of octal values.
 * Can't use hex as compiler translates them before compilation.
 * These strings are split into multiple, concatenated strings.
 * Java puts them back together at compile time thankfully.
 * Java cannot handle large static arrays, so we're stuck with this
 * encode/decode approach. See analysis and runtime DFA for
 * the encoding methods.
 */
cyclicDFA(dfa) ::= <<

private const DFA<dfa.decisionNumber>_eot:Array =
    DFA.unpackEncodedString("<dfa.javaCompressedEOT; wrap=\"\"+\n  \>");
private const DFA<dfa.decisionNumber>_eof:Array =

```

```

    DFA.unpackEncodedString("<dfa.javaCompressedEOF; wrap=\""+\n  \>");
private const DFA<dfa.decisionNumber>_min:Array =
    DFA.unpackEncodedString("<dfa.javaCompressedMin; wrap=\""+\n  \>", true);
private const DFA<dfa.decisionNumber>_max:Array =
    DFA.unpackEncodedString("<dfa.javaCompressedMax; wrap=\""+\n  \>", true);
private const DFA<dfa.decisionNumber>_accept:Array =
    DFA.unpackEncodedString("<dfa.javaCompressedAccept; wrap=\""+\n  \>");
private const DFA<dfa.decisionNumber>_special:Array =
    DFA.unpackEncodedString("<dfa.javaCompressedSpecial; wrap=\""+\n  \>");
private const DFA<dfa.decisionNumber>_transition:Array = [
    <dfa.javaCompressedTransition:{s|DFA.unpackEncodedString("<s; wrap=\""+\n\>")}); separator=",\n">
];
<if(dfa.specialStateSTs)>
    private function DFA<dfa.decisionNumber>_specialStateTransition(dfa:DFA, s:int, _input:InputStream):int {
        <if(LEXER)>
            var input:InputStream = _input;
        <endif>
        <if(PARSER)>
            var input:TokenStream = TokenStream(_input);
        <endif>
        <if(TREE_PARSER)>
            var input:TreeNodeStream = TreeNodeStream(_input);
        <endif>
        var _s:int = s;
        switch ( s ) {
            <dfa.specialStateSTs:{state |
                case <i0> : <! compressed special state numbers 0..n-1 !>
                    <state>}; separator="\n">
            }
        <if(backtracking)>
            if (this.state.backtracking>0) {this.state.failed=true; return -1;}<\n>
        <endif>
        throw dfa.error(new NoViableAltException(dfa.description, <dfa.decisionNumber>, _s, input));
    }<\n>
    <endif>

protected var dfa<dfa.decisionNumber>:DFA; // initialized in constructor

>>

/** A state in a cyclic DFA; it's a special state and part of a big switch on
 * state.
 */
cyclicDFAState(decisionNumber,stateNumber,edges,needErrorClause,semPredState) ::= <<
var LA<decisionNumber>_<stateNumber>:int = input.LA(1);<\n>
<if(semPredState)> <! get next lookahead symbol to test edges, then rewind !>
var index<decisionNumber>_<stateNumber>:int = input.index;
input.rewind();<\n>

```

```

<endif>
s = -1;
<edges; separator="\nelse ">
<if(semPredState)> <! return input cursor to state before we rewound !>
input.seek(index<decisionNumber>_<stateNumber>);<\n>
<endif>
if ( s>=0 ) return s;
break;
>>

/** Just like a fixed DFA edge, test the lookahead and indicate what
 * state to jump to next if successful.
 */
cyclicDFAEdge(labelExpr, targetStateNumber, edgeNumber, predicates) ::= <<
if ( (<labelExpr> <if(predicates)>&& (<predicates>)<endif> ) { s = <targetStateNumber>;}<\n>
>>

/** An edge pointing at end-of-token; essentially matches any char;
 * always jump to the target.
 */
eotDFAEdge(targetStateNumber,edgeNumber, predicates) ::= <<
s = <targetStateNumber>;<\n>
>>

// D F A E X P R E S S I O N S

andPredicates(left,right) ::= "<left>&&<right>"

orPredicates(operands) ::= "<first(operands)><rest(operands): { o | ||<o> }>"

notPredicate(pred) ::= "!(<evalPredicate(...)>)"

evalPredicate(pred,description) ::= "<pred>"

evalSynPredicate(pred,description) ::= "<pred>()"

lookaheadTest(atom,k,atomAsInt) ::= "LA<decisionNumber>_<stateNumber>===<atomAsInt>"

/** Sometimes a lookahead test cannot assume that LA(k) is in a temp variable
 * somewhere. Must ask for the lookahead directly.
 */
isolatedLookaheadTest(atom,k,atomAsInt) ::= "input.LA(<k>)==<atomAsInt>"

lookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= <<
(LA<decisionNumber>_<stateNumber>)\>=<lowerAsInt> &&
LA<decisionNumber>_<stateNumber>\<=<upperAsInt>
>>

```

```

isolatedLookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::=
"(input.LA(<k>))>=<lowerAsInt> && input.LA(<k>)\<=upperAsInt>"

setTest(ranges) ::= "<ranges; separator=\\|\\>"

// A T T R I B U T E S

globalAttributeScope(scope) ::= <<
<if(scope.attributes)>
protected var <scope.name>_stack:Array = new Array();<\n>
<endif>
>>

ruleAttributeScope(scope) ::= <<
<if(scope.attributes)>
protected var <scope.name>_stack:Array = new Array();<\n>
<endif>
>>

returnStructName() ::= "<if(TREE_PARSER)>Tree<else>Parser<endif>RuleReturnScope"

returnType() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<returnStructName()>
<else>
<if(ruleDescriptor.hasSingleReturnValue)>
<ruleDescriptor.singleValueReturnType>
<else>
void
<endif>
<endif>
>>

/** Generate the Java type associated with a single or multiple return
 * values.
 */
ruleLabelType(referencedRule) ::= <<
<if(referencedRule.hasMultipleReturnValues)>
<returnStructName()>
<else>
<if(referencedRule.hasSingleReturnValue)>
<referencedRule.singleValueReturnType>
<else>
void
<endif>
<endif>
>>

```

```

delegateName() ::= <<
<if(it.label)><it.label><else>g<it.name><endif>
>>

/** Using a type to init value map, try to init a type; if not in table
 * must be an object, default value is "null".
 */
initValue(typeName) ::= <<
<asTypeInitMap.(typeName)>
>>

/** Define a rule label including default value */
ruleLabelDef(label) ::= <<
var <label.label.text>:<ruleLabelType(referencedRule=label.referencedRule)> =
<initValue(typeName=ruleLabelType(referencedRule=label.referencedRule))>;<\n>
>>

/** Define a return struct for a rule if the code needs to access its
 * start/stop tokens, tree stuff, attributes, ... Leave a hole for
 * subgroups to stick in members.
 */
returnScope(scope) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
public static class <returnType()> extends <if(TREE_PARSER)>Tree<else>Parser<endif>RuleReturnScope {
    <scope.attributes:{public <it.decl>;}; separator="\n">
    <@ruleReturnMembers()>
};
<endif>
>>

parameterScope(scope) ::= <<
<scope.attributes:{<it.name>:<it.type>}; separator=", ">
>>

parameterAttributeRef(attr) ::= "<attr.name>"
parameterSetAttributeRef(attr,expr) ::= "<attr.name> =<expr>;"

scopeAttributeRef(scope,attr,index,negIndex) ::= <<
<if(negIndex)>
<scope>_stack[<scope>_stack.length-<negIndex>-1].<attr.name>
<else>
<if(index)>
<scope>_stack[<index>].<attr.name>
<else>
<scope>_stack[<scope>_stack.length-1].<attr.name>
<endif>
<endif>
>>

```

```

>>

scopeSetAttributeRef(scope,attr,expr,index,negIndex) ::= <<
<if(negIndex)>
<scope>_stack[<scope>_stack.length-<negIndex>-1].<attr.name> =<expr>;
<else>
<if(index)>
<scope>_stack[<index>].<attr.name> =<expr>;
<else>
<scope>_stack[<scope>_stack.length-1].<attr.name> =<expr>;
<endif>
<endif>
>>

/** $x is either global scope or x is rule with dynamic scope; refers
 * to stack itself not top of stack. This is useful for predicates
 * like {$function.size()>0 && $function::name.equals("foo")}?
 */
isolatedDynamicScopeRef(scope) ::= "<scope>_stack"

/** reference an attribute of rule; might only have single return value */
ruleLabelRef(referencedRule,scope,attr) ::= <<
<if(referencedRule.hasMultipleReturnValues)>
(<scope>!=null?<scope>.values.<attr.name>:<initValue(attr.type)>)
<else>
<scope>
<endif>
>>

returnAttributeRef(ruleDescriptor,attr) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
retval.values.<attr.name>
<else>
<attr.name>
<endif>
>>

returnSetAttributeRef(ruleDescriptor,attr,expr) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
retval.values.<attr.name> =<expr>;
<else>
<attr.name> =<expr>;
<endif>
>>

/** How to translate $tokenLabel */
tokenLabelRef(label) ::= "<label>"

```

```

/** ids+=ID {$ids} or e+=expr {$e} */
listLabelRef(label) ::= "list_<label>"

// not sure the next are the right approach

tokenLabelPropertyRef_text(scope,attr) ::= "<scope>!=null?<scope>.text:null)"
tokenLabelPropertyRef_type(scope,attr) ::= "<scope>!=null?<scope>.type:0)"
tokenLabelPropertyRef_line(scope,attr) ::= "<scope>!=null?<scope>.line:0)"
tokenLabelPropertyRef_pos(scope,attr) ::= "<scope>!=null?<scope>.charPositionInLine:0)"
tokenLabelPropertyRef_channel(scope,attr) ::= "<scope>!=null?<scope>.channel:0)"
tokenLabelPropertyRef_index(scope,attr) ::= "<scope>!=null?<scope>.tokenIndex:0)"
tokenLabelPropertyRef_tree(scope,attr) ::= "<scope>_tree"
tokenLabelPropertyRef_int(scope,attr) ::= "<scope>!=null?int(<scope>.text):0)"

ruleLabelPropertyRef_start(scope,attr) ::= "<scope>!=null?<labelType>(<scope>.start):null)"
ruleLabelPropertyRef_stop(scope,attr) ::= "<scope>!=null?<labelType>(<scope>.stop):null)"
ruleLabelPropertyRef_tree(scope,attr) ::= "<scope>!=null?<ASTLabelType>(<scope>.tree):null)"
ruleLabelPropertyRef_text(scope,attr) ::= <<
<if(TREE_PARSER)>
(<scope>!=null?(input.tokenStream.toStringWithRange(
input.treeAdaptor.getTokenStartIndex(<scope>.start),
input.treeAdaptor.getTokenStopIndex(<scope>.start))):null)
<else>
(<scope>!=null?input.toStringWithTokenRange(<scope>.start,<scope>.stop):null)
<endif>
>>

ruleLabelPropertyRef_st(scope,attr) ::= "<scope>!=null?<scope>.st:null)"

/** Isolated $RULE ref ok in lexer as it's a Token */
lexerRuleLabel(label) ::= "<label>"

lexerRuleLabelPropertyRef_type(scope,attr) ::=
"<scope>!=null?<scope>.type:0)"
lexerRuleLabelPropertyRef_line(scope,attr) ::=
"<scope>!=null?<scope>.lien:0)"
lexerRuleLabelPropertyRef_pos(scope,attr) ::=
"<scope>!=null?<scope>.charPositionInLine:0)"
lexerRuleLabelPropertyRef_channel(scope,attr) ::=
"<scope>!=null?<scope>.channel:0)"
lexerRuleLabelPropertyRef_index(scope,attr) ::=
"<scope>!=null?<scope>.tokenIndex:0)"
lexerRuleLabelPropertyRef_text(scope,attr) ::=
"<scope>!=null?<scope>.text:null)"
lexerRuleLabelPropertyRef_int(scope,attr) ::=
"<scope>!=null?int(<scope>.text):0)"

```

```

// Somebody may ref $template or $tree or $stop within a rule:
rulePropertyRef_start(scope,attr) ::= "<labelType>(retval.start)"
rulePropertyRef_stop(scope,attr) ::= "<labelType>(retval.stop)"
rulePropertyRef_tree(scope,attr) ::= "<ASTLabelType>(retval.tree)"
rulePropertyRef_text(scope,attr) ::= <<
<if(TREE_PARSER)>
input.tokenStream.toStringWithRange(
input.treeAdaptor.getTokenStartIndex(retval.start),
input.treeAdaptor.getTokenStopIndex(retval.start))
<else>
input.toStringWithTokenRange(retval.start,input.LT(-1))
<endif>
>>
rulePropertyRef_st(scope,attr) ::= "retval.st"

lexerRulePropertyRef_text(scope,attr) ::= "text"
lexerRulePropertyRef_type(scope,attr) ::= "_type"
lexerRulePropertyRef_line(scope,attr) ::= "state.tokenStartLine"
lexerRulePropertyRef_pos(scope,attr) ::= "state.tokenStartCharPositionInLine"
lexerRulePropertyRef_index(scope,attr) ::= "-1" // undefined token index in lexer
lexerRulePropertyRef_channel(scope,attr) ::= "_channel"
lexerRulePropertyRef_start(scope,attr) ::= "state.tokenStartCharIndex"
lexerRulePropertyRef_stop(scope,attr) ::= "(charIndex-1)"
lexerRulePropertyRef_int(scope,attr) ::= "int(<scope>.text)"

// setting $st and $tree is allowed in local rule. everything else
// is flagged as error
ruleSetPropertyRef_tree(scope,attr,expr) ::= "retval.tree =<expr>;"
ruleSetPropertyRef_st(scope,attr,expr) ::= "retval.st =<expr>;"

/** How to execute an action (only when not backtracking) */
execAction(action) ::= <<
<if(backtracking)>
if ( <actions.(actionScope).synpredgate> ) {
<action>
}
<else>
<action>
<endif>
>>

/** How to always execute an action even when backtracking */
execForcedAction(action) ::= "<action>"

// M I S C (properties, etc...)

bitset(name, words64) ::= <<
public static const <name>:BitSet = new BitSet([<words64:{<it>};separator=", ">]);<\n>

```


>>

```
codeFileExtension() ::= ".as"
```

```
true() ::= "true"
```

```
false() ::= "false"
```

Found in path(s):

```
* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-  
jar/org/antlr/codegen/templates/ActionScript/ActionScript.stg
```

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```
/*
```

```
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```
*/
```

```
/** Template overrides to add debugging to normal C output;
```

```
* If ASTs are built, then you'll also get ASTDbg.stg loaded.
```

```
*/
```

```
group Dbg;
```

```
@genericParser.members() ::= <<
```

```

<if(grammar.grammarIsRoot)>
const char *
ruleNames[] =
{
  "invalidRule", <grammar.allImportedRules:{rST | "<rST.name>"}; wrap="\n ", separator=", ">
};<\n>
<endif>
<if(grammar.grammarIsRoot)> <! grammar imports other grammar(s) !>
static ANTLR3_UINT32 ruleLevel = 0;
static ANTLR3_UINT32 getRuleLevel()
{
  return ruleLevel;
}
static void incRuleLevel()
{
  ruleLevel++;
}
static void decRuleLevel()
{
  ruleLevel--;
}
<else> <! imported grammar !>
static ANTLR3_UINT32
getRuleLevel()
{
  return <grammar.delegators:{g| <g.delegateName()>}>->getRuleLevel();
}
static void incRuleLevel()
{
  <grammar.delegators:{g| <g.delegateName()>}>->incRuleLevel();
}
static void
decRuleLevel()
{
  <grammar.delegators:{g| <g.delegateName()>}>.decRuleLevel();
}
<endif>
<if(profile)>
// Profiling not yet implemented for C target
//
<endif>
<if(grammar.grammarIsRoot)>
<ctorForPredefinedListener()>
<else>
<ctorForDelegateGrammar()>
<endif>

static ANTLR3_BOOLEAN

```

```

evalPredicate(p<name> ctx, ANTLR3_BOOLEAN result, const char * predicate)
{
    DBG->semanticPredicate(DBG, result, predicate);
    return result;
}<\n>
>>

@genericParser.debugStuff() ::= <<
<if(grammar.grammarIsRoot)>
<createListenerAndHandshake(>
<endif>
>>

ctorForProfilingRootGrammar() ::= <<
>>

/** Basically we don't want to set any dbg listeners as root will have it. */
ctorForDelegateGrammar() ::= <<
>>

ctorForPredefinedListener() ::= <<
>>

createListenerAndHandshake() ::= <<
{
    // DEBUG MODE code
    //
    pANTLR3_DEBUG_EVENT_LISTENER proxy;
    proxy = antlr3DebugListenerNew();
    proxy->grammarFileName = INPUT->tokenSource->strFactory->newStr8(INPUT->tokenSource->strFactory,
    (pANTLR3_UINT8)ctx->getGrammarFileName());

    <if(TREE_PARSER)>
    proxy->adaptor = ADAPTOR;
    <endif>
    PARSER->setDebugListener(PARSER, proxy);

    // Try to connect to the debugger (waits forever for a connection)
    //
    proxy->handshake(proxy);

    // End DEBUG MODE code
    //
}
>>

```

```

@rule.preamble() ::= <<
if ( getRuleLevel()==0 )
{
DBG->commence(DBG);
}
DBG->enterRule(DBG, getGrammarFileName(), (const char *)"<ruleName>");
incRuleLevel();
DBG->location(DBG, <ruleDescriptor.tree.line>, <ruleDescriptor.tree.column>);<\n>
>>

@rule.postamble() ::= <<
DBG->location(DBG, <ruleDescriptor.EORNode.line>, <ruleDescriptor.EORNode.column>);<\n>
DBG->exitRule(DBG, getGrammarFileName(), (const char *)"<ruleName>");
decRuleLevel();
if ( getRuleLevel()==0 )
{
DBG->terminate(DBG);
}
<\n>
>>

@checkRuleBacktrackFailure.debugClean() ::= <<
DBG->exitRule(DBG, getGrammarFileName(), (const char *)"<ruleName>");
decRuleLevel();
>>

@synpred.start() ::= "DBG->beginBacktrack(DBG, BACKTRACKING);"

@synpred.stop() ::= "DBG->endBacktrack(DBG, BACKTRACKING, success);"

// Common debug event triggers used by region overrides below

enterSubRule() ::=
"DBG->enterSubRule(DBG, <decisionNumber>);<\n>"

exitSubRule() ::=
"DBG->exitSubRule(DBG, <decisionNumber>);<\n>"

enterDecision() ::=
"DBG->enterDecision(DBG, <decisionNumber>);<\n>"

exitDecision() ::=
"DBG->exitDecision(DBG, <decisionNumber>);<\n>"

enterAlt(n) ::= "DBG->enterAlt(DBG, <n>);<\n>"

// Region overrides that tell various constructs to add debugging triggers

```

```

@block.predecision() ::= "<enterSubRule()><enterDecision()>"

@block.postdecision() ::= "<exitDecision()>"

@block.postbranch() ::= "<exitSubRule()>"

@ruleBlock.predecision() ::= "<enterDecision()>"

@ruleBlock.postdecision() ::= "<exitDecision()>"

@ruleBlockSingleAlt.preal() ::= "<enterAlt(n=\"1\")>"

@blockSingleAlt.preal() ::= "<enterAlt(n=\"1\")>"

@positiveClosureBlock.preloop() ::= "<enterSubRule()>"

@positiveClosureBlock.postloop() ::= "<exitSubRule()>"

@positiveClosureBlock.predecision() ::= "<enterDecision()>"

@positiveClosureBlock.postdecision() ::= "<exitDecision()>"

@positiveClosureBlock.earlyExitException() ::=
    "DBG->recognitionException(DBG, EXCEPTION);<\n>"

@closureBlock.preloop() ::= "<enterSubRule()>"

@closureBlock.postloop() ::= "<exitSubRule()>"

@closureBlock.predecision() ::= "<enterDecision()>"

@closureBlock.postdecision() ::= "<exitDecision()>"

@altSwitchCase.preal() ::= "<enterAlt(n=i)>"

@element.prematch() ::=
    "DBG->location(DBG, <it.line>, <it.pos>);"

@matchSet.mismatchedSetException() ::=
    "DBG->recognitionException(DBG, EXCEPTION);"

@newNVException.noViableAltException() ::= "DBG->recognitionException(DBG, EXCEPTION);"

dfaDecision(decisionNumber,description) ::= <<
    alt<decisionNumber> = cdfa<decisionNumber>.predict(ctx, RECOGNIZER, ISTREAM,
    &cdfa<decisionNumber>);
    if (HASEXCEPTION())

```

```

{
DBG->recognitionException(DBG, EXCEPTION);
goto rule<ruleDescriptor.name>Ex;
}
<checkRuleBacktrackFailure()>
>>

```

```

@cyclicDFA.errorMethod() ::= <<
//static void
//dfaError(p<name> ctx)
//{{
// DBG->recognitionException(DBG, EXCEPTION);
//}}
>>

```

```

/** Force predicate validation to trigger an event */
evalPredicate(pred,description) ::= <<
evalPredicate(ctx, <pred>, (const char *)"<description>")
>>

```

Found in path(s):

```

* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/codegen/templates/C/Dbg.stg
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```

```

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```

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*/

/** Template overrides to add debugging to AST stuff. Dynamic inheritance

* hierarchy is set up as ASTDbg : AST : Dbg : Java by code generator.

*/

group ASTDbg;

parserMembers() ::= <<

// Implement this function in your helper file to use a custom tree adaptor

void InitializeTreeAdaptor() { }

protected DebugTreeAdaptor adaptor;

public ITreeAdaptor TreeAdaptor

{

get

{

return adaptor;

}

set

{

<if(grammar.grammarIsRoot)>

this.adaptor = new DebugTreeAdaptor(dbg, adaptor);

<else>

this.adaptor = (DebugTreeAdaptor) adaptor; // delegator sends dbg adaptor

<endif><\n>

<grammar.directDelegates: { g | <g:delegateName()>.TreeAdaptor = this.adaptor; }>

}

<\n>

>>

parserCtorBody() ::= <<

<super.parserCtorBody()>

>>

createListenerAndHandshake() ::= <<

DebugEventSocketProxy proxy = new DebugEventSocketProxy(this, port,

<if(TREE_PARSER)>input.TreeAdaptor<else>adaptor<endif>);

DebugListener = proxy;

<inputStreamType> = new Debug<inputStreamType>(input, proxy);

try

{

proxy.Handshake();

}

catch (IOException ioe)

```

{
  ReportError( ioe );
}
>>

@ctorForRootGrammar.finally() ::= <<
ITreeAdaptor adap = new CommonTreeAdaptor();
TreeAdaptor = adap;
proxy.TreeAdaptor = adap;
>>

@ctorForProfilingRootGrammar.finally() ::= <<
ITreeAdaptor adap = new CommonTreeAdaptor();
TreeAdaptor = adap;
>>

@ctorForPredefinedListener.superClassRef() ::= " : base( input, dbg )"

@ctorForPredefinedListener.finally() ::= <<
<if(grammar.grammarIsRoot)><! don't create new adaptor for delegates !>
ITreeAdaptor adap = new CommonTreeAdaptor();
TreeAdaptor = adap;<\n>
<endif>
>>

//@rewriteElement.pregen() ::= "dbg.Location( <e.line>, <e.pos> );"

```

Found in path(s):

```

* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-
jar/org/antlr/codegen/templates/CSharp2/ASTDbg.stg
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```

/*

```

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*/

/** Templates for building ASTs during tree parsing.

*

* Deal with many combinations. Dimensions are:

* Auto build or rewrite

* no label, label, list label (label/no-label handled together)

* child, root

* token, set, rule, wildcard

*

* Each combination has its own template except that label/no label

* is combined into tokenRef, ruleRef, ...

*/

group ASTTreeParser;

/** Add a variable to track last element matched */

ruleDeclarations() ::= <<

<super.ruleDeclarations()>

<ASTLabelType> _first_0 = null;

<ASTLabelType> _last = null;<\n>

>>

/** What to emit when there is no rewrite rule. For auto build

* mode, does nothing.

*/

noRewrite(rewriteBlockLevel, treeLevel) ::= <<

<if(backtracking)>if (<actions.(actionScope).synpredgate>) {<endif>

<if(rewriteMode)>

retval.tree = (<ASTLabelType>)_first_0;

if (adaptor.getParent(retval.tree)!=null && adaptor.isNil(adaptor.getParent(retval.tree)))

retval.tree = (<ASTLabelType>)adaptor.getParent(retval.tree);

<endif>

<if(backtracking)>}<endif>

>>

/** match ^(root children) in tree parser; override here to

* add tree construction actions.

*/

```

tree(root, actionsAfterRoot, children, nullableChildList,
  enclosingTreeLevel, treeLevel) ::= <<
_last = (<ASTLabelType>)input.LT(1);
{
<ASTLabelType> _save_last_<treeLevel> = _last;
<ASTLabelType> _first_<treeLevel> = null;
<if(!rewriteMode)>
<ASTLabelType> root_<treeLevel> = (<ASTLabelType>)adaptor.nil();
<endif>
<root:element()>
<if(rewriteMode)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> )<endif>
<if(root.el.rule)>
if ( _first_<enclosingTreeLevel>==null ) _first_<enclosingTreeLevel> = <root.el.label>.tree;
<else>
if ( _first_<enclosingTreeLevel>==null ) _first_<enclosingTreeLevel> = <root.el.label>;
<endif>
<endif>
<actionsAfterRoot:element()>
<if(nullableChildList)>
if ( input.LA(1)==Token.DOWN ) {
  match(input, Token.DOWN, null); <checkRuleBacktrackFailure()>
  <children:element()>
  match(input, Token.UP, null); <checkRuleBacktrackFailure()>
}
<else>
match(input, Token.DOWN, null); <checkRuleBacktrackFailure()>
<children:element()>
match(input, Token.UP, null); <checkRuleBacktrackFailure()>
<endif>
<if(!rewriteMode)>
adaptor.addChild(root_<enclosingTreeLevel>, root_<treeLevel>);
<endif>
_last = _save_last_<treeLevel>;
}<\n>
>>

// TOKEN AST STUFF

/** ID! and output=AST (same as plain tokenRef) 'cept add
 * setting of _last
 */
tokenRefBang(token,label,elementIndex) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.tokenRef(...)>
>>

/** ID auto construct */

```

```

tokenRef(token,label,elementIndex,hetero) ::= <<
  _last = (<ASTLabelType>)input.LT(1);
  <super.tokenRef(...)>
  <if(!rewriteMode)>
  <if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
  <if(hetero)>
  <label>_tree = new <hetero>(<label>);
  <else>
  <label>_tree = (<ASTLabelType>)adaptor.dupNode(<label>);
  <endif><\n>
  adaptor.addChild(root_<treeLevel>, <label>_tree);
  <if(backtracking)>}<endif>
  <else> <! rewrite mode !>
  <if(backtracking)>if ( <actions.(actionScope).synpredgate> )<endif>
  if ( _first_<treeLevel>==null ) _first_<treeLevel> = <label>;
  <endif>
  >>

/** label+=TOKEN auto construct */
tokenRefAndListLabel(token,label,elementIndex,hetero) ::= <<
  <tokenRef(...)>
  <listLabel(elem=label,...)>
  >>

/** ^(ID ...) auto construct */
tokenRefRuleRoot(token,label,elementIndex,hetero) ::= <<
  _last = (<ASTLabelType>)input.LT(1);
  <super.tokenRef(...)>
  <if(!rewriteMode)>
  <if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
  <if(hetero)>
  <label>_tree = new <hetero>(<label>);
  <else>
  <label>_tree = (<ASTLabelType>)adaptor.dupNode(<label>);
  <endif><\n>
  root_<treeLevel> = (<ASTLabelType>)adaptor.becomeRoot(<label>_tree, root_<treeLevel>);
  <if(backtracking)>}<endif>
  <endif>
  >>

/** Match ^(label+=TOKEN ...) auto construct */
tokenRefRuleRootAndListLabel(token,label,elementIndex,hetero) ::= <<
  <tokenRefRuleRoot(...)>
  <listLabel(elem=label,...)>
  >>

/** Match . wildcard and auto dup the node/subtree */
wildcard(token,label,elementIndex,hetero) ::= <<

```

```

_last = (<ASTLabelType>)input.LT(1);
<super.wildcard(...)>
<if(!rewriteMode)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<label>_tree = (<ASTLabelType>)adaptor.dupTree(<label>);
adaptor.addChild(root_<treeLevel>, <label>_tree);
<if(backtracking)>}<endif>
<else> <! rewrite mode !>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> )<endif>
if ( _first_<treeLevel>==null ) _first_<treeLevel> = <label>;
<endif>
>>

// SET AST

matchSet(s,label,hetero,elementIndex,postmatchCode) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.matchSet(..., postmatchCode={
<if(!rewriteMode)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<if(hetero)>
<label>_tree = new <hetero>(<label>);
<else>
<label>_tree = (<ASTLabelType>)adaptor.dupNode(<label>);
<endif><\n>
adaptor.addChild(root_<treeLevel>, <label>_tree);
<if(backtracking)>}<endif>
<endif>
}
)>
>>

matchRuleBlockSet(s,label,hetero,elementIndex,postmatchCode,treeLevel="0") ::= <<
<matchSet(...)>
<noRewrite()> <! set return tree !>
>>

matchSetBang(s,label,elementIndex,postmatchCode) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.matchSet(...)>
>>

matchSetRuleRoot(s,label,hetero,elementIndex,debug) ::= <<
<super.matchSet(..., postmatchCode={
<if(!rewriteMode)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<if(hetero)>
<label>_tree = new <hetero>(<label>);

```

```

<else>
<label>_tree = (<ASTLabelType>)adaptor.dupNode(<label>);
<endif><\n>
root_<treeLevel> = (<ASTLabelType>)adaptor.becomeRoot(<label>_tree, root_<treeLevel>);
<if(backtracking)>}<endif>
<endif>
}
)>
>>

```

```
// RULE REF AST
```

```

/** rule auto construct */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.ruleRef(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>
<if(!rewriteMode)>
adaptor.addChild(root_<treeLevel>, <label>.getTree());
<else> <! rewrite mode !>
if ( _first_<treeLevel>==null ) _first_<treeLevel> = <label>.tree;
<endif>
>>

```

```

/** x+=rule auto construct */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>
<listLabel(elem=label+".getTree()",...)>
>>

```

```

/** ^(rule ...) auto construct */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.ruleRef(...)>
<if(!rewriteMode)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>root_<treeLevel> =
(<ASTLabelType>)adaptor.becomeRoot(<label>.getTree(), root_<treeLevel>);
<endif>
>>

```

```

/** ^(x+=rule ...) auto construct */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...)>
<listLabel(elem=label+".getTree()",...)>
>>

```

```

/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<

```

```

_last = (<ASTLabelType>)input.LT(1);
<super.ruleRefTrack(...)>
>>

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.ruleRefTrackAndListLabel(...)>
>>

/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.ruleRefRootTrack(...)>
>>

/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.ruleRefRuleRootTrackAndListLabel(...)>
>>

/** Streams for token refs are tree nodes now; override to
 * change nextToken to nextNode.
 */
createRewriteNodeFromElement(token,hetero,scope) ::= <<
<if(hetero)>
new <hetero>(stream_<token>.nextNode())
<else>
stream_<token>.nextNode()
<endif>
>>

ruleCleanUp() ::= <<
<super.ruleCleanUp()>
<if(!rewriteMode)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<\n><endif>
retval.tree = (<ASTLabelType>)adaptor.rulePostProcessing(root_0);
<if(backtracking)>}<endif>
<endif>
>>

```

Found in path(s):

```

* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-
jar/org/antlr/codegen/templates/Java/ASTTreeParser.stg

```

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* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/codegen/templates/ActionScript/ASTParser.stg

* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/codegen/templates/Python/ASTDbg.stg

* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/codegen/templates/Java/ASTParser.stg

* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/codegen/templates/Python/ST.stg

* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/codegen/templates/CSharp2/ASTParser.stg

* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/codegen/templates/Python/AST.stg

* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/tool/serialize.g

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*/

```

```

/** Template overrides to add debugging to AST stuff. Dynamic inheritance
* hierarchy is set up as ASTDbg : AST : Dbg : Java by code generator.
*/

```

```

group ASTDbg;

```

```

parserMembers() ::= <<

```

```

// Implement this function in your helper file to use a custom tree adaptor

```

```

partial void InitializeTreeAdaptor();

```

```

protected DebugTreeAdaptor adaptor;

```

```

public ITreeAdaptor TreeAdaptor

```

```

{

```

```

    get

```

```

    {

```

```

        return adaptor;

```

```

    }

```

```

    set

```

```

    {

```

```

<if(grammar.grammarIsRoot)>

```

```

    this.adaptor = new DebugTreeAdaptor(dbg, adaptor);

```

```

<else>

```

```

    this.adaptor = (DebugTreeAdaptor) adaptor; // delegator sends dbg adaptor

```

```

<endif><\n>

```

```

    <grammar.directDelegates: {g|<g:delegateName().TreeAdaptor = this.adaptor; }>

```

```

    }

```

```

}<\n>

```

```

>>

```

```

parserCtorBody() ::= <<

```

```

<super.parserCtorBody()>

```

```

>>

```

```

createListenerAndHandshake() ::= <<

```

```

DebugEventSocketProxy proxy = new DebugEventSocketProxy( this, port,

```

```

<if(TREE_PARSER)>input.TreeAdaptor<else>adaptor<endif> );

```

```

DebugListener = proxy;

```

```

<inputStreamType> = new Debug<inputStreamType>( input, proxy );

```

```

try

```



```

{
    proxy.Handshake();
}
catch ( IOException ioe )
{
    ReportError( ioe );
}
>>

```

```

@ctorForRootGrammar.finally() ::= <<
ITreeAdaptor adap = new CommonTreeAdaptor();
TreeAdaptor = adap;
proxy.TreeAdaptor = adap;
>>

```

```

@ctorForProfilingRootGrammar.finally() ::= <<
ITreeAdaptor adap = new CommonTreeAdaptor();
TreeAdaptor = adap;
>>

```

```

@ctorForPredefinedListener.superClassRef() ::= " : base( input, dbg )"

```

```

@ctorForPredefinedListener.finally() ::= <<
<if(grammar.grammarIsRoot)><! don't create new adaptor for delegates !>
ITreeAdaptor adap = new CommonTreeAdaptor();
TreeAdaptor = adap;<\n>
<endif>
>>

```

```

//@rewriteElement.pregen() ::= "dbg.Location( <e.line>, <e.pos> );"

```

Found in path(s):

```

* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-
jar/org/antlr/codegen/templates/CSharp3/ASTDbg.stg
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```

```

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*/

```

```
group CSharp3 implements ANTLRCore;
```

```

csharpVisibilityMap ::= [
  "private":"private",
  "protected":"protected",
  "public":"public",
  "fragment":"private",
  default:"private"
]

```

```

// System.Boolean.ToString() returns "True" and "False", but the proper C# literals are "true" and "false"
// The Java version of Boolean returns "true" and "false", so they map to themselves here.

```

```

booleanLiteral ::= [
  "True":"true",
  "False":"false",
  "true":"true",
  "false":"false",
  default:"false"
]

```

```

/** The overall file structure of a recognizer; stores methods for rules
* and cyclic DFAs plus support code.
*/

```

```

outputFile( LEXER,PARSER,TREE_PARSER, actionScope, actions,
  docComment, recognizer,
  name, tokens, tokenNames, rules, cyclicDFAs,
  bitsets, buildTemplate, buildAST, rewriteMode, profile,
  backtracking, synpreds, memoize, numRules,
  fileName, ANTLRVersion, generatedTimestamp, trace,

```

```

    scopes, superClass, literals) ::=
<<
// $ANTLR <ANTLRVersion> <fileName> <generatedTimestamp>

// The variable 'variable' is assigned but its value is never used.
#pragma warning disable 219
// Unreachable code detected.
#pragma warning disable 162

<actions.(actionScope).header>

<@imports>
using System.Collections.Generic;
using Antlr.Runtime;
<if(TREE_PARSER)>
using Antlr.Runtime.Tree;
using RewriteRuleITokenStream = Antlr.Runtime.Tree.RewriteRuleTokenStream;
<endif>
using Stack = System.Collections.Generic.Stack<object>;
using List = System.Collections.IList;
using ArrayList = System.Collections.Generic.List<object>;
<if(backtracking)>
using Map = System.Collections.IDictionary;
using HashMap = System.Collections.Generic.Dictionary<object, object>;
<endif>
<@end>

<if(actions.(actionScope).namespace)>
namespace <actions.(actionScope).namespace>
{
<endif>

<docComment>
<recognizer>
<if(actions.(actionScope).namespace)>

} // namespace <actions.(actionScope).namespace>

<endif>
>>

lexer(grammar, name, tokens, scopes, rules, numRules, labelType="CommonToken",
    filterMode,
    superClass={ <if(actions.(actionScope).superClass)><actions.(actionScope).superClass><else>Antlr.Runtime.Lexer
<endif>}) ::= <<
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<ANTLRVersion>")]
[System.CLSCompliant(false)]
public partial class <grammar.recognizerName> : <@superClassName><superClass><@end>

```

```

{
<tokens:{ public const int <it.name>=<it.type>;}; separator="\n">
<scopes:{ <if(it.isDynamicGlobalScope)><globalAttributeScope(scope=it)><endif>>>
<actions.lexer.members>

// delegates
<grammar.delegates:
    {g|public <g.recognizerName> <g.delegateName()>;}; separator="\n">
// delegators
<grammar.delegators:
    {g|public <g.recognizerName> <g.delegateName()>;}; separator="\n">
<last(grammar.delegators):{g|public <g.recognizerName> gParent;}>

public <grammar.recognizerName>()<! needed by subclasses !>
{
    OnCreated();
}

public <grammar.recognizerName>(ICharStream input<grammar.delegators:{g|, <g.recognizerName>
<g.delegateName()>>> )
: this(input, new RecognizerSharedState()<grammar.delegators:{g|, <g.delegateName()>>>)
{
}

public <grammar.recognizerName>(ICharStream input, RecognizerSharedState state<grammar.delegators:{g|,
<g.recognizerName> <g.delegateName()>>>)
: base(input, state)
{
<if(memoize)>
<if(grammar.grammarIsRoot)>
    state.ruleMemo = new System.Collections.Generic.Dictionary<int, int>[<numRules>+1];<\n><! index from 1..n !>
<endif>
<endif>
<grammar.directDelegates:
    {g|<g.delegateName()> = new <g.recognizerName>(input, this.state<trunc(g.delegators):{p|,
<p.delegateName()>>>, this);}; separator="\n">
<grammar.delegators:
    {g|this.<g.delegateName()> = <g.delegateName()>;}; separator="\n">
<last(grammar.delegators):{g|gParent = <g.delegateName()>;}>

    OnCreated();
}
public override string GrammarFileName { get { return "<fileName>"; } }

private static readonly bool[] decisionCanBacktrack = new bool[0];

<if(grammar.hasDelegates)>
public override ICharStream CharStream

```

```

{
  get
  {
    return base.CharStream;
  }
  set
  {
    base.CharStream = value;
    <grammar.directDelegates:
    {g|<g.delegateName()> = new <g.recognizerName>(input, state<trunc(g.delegators):{p|, <p.delegateName()>>,
this});}; separator="\n">
    <grammar.delegators:
    {g|this.<g.delegateName()> = <g.delegateName()>;}; separator="\n">
    <last(grammar.delegators):{g|gParent = <g.delegateName()>;}>
    }
  }
}

<endif>
<if(filterMode)>
  <filteringNextToken()>
<endif>

partial void OnCreated();
partial void EnterRule(string ruleName, int ruleIndex);
partial void LeaveRule(string ruleName, int ruleIndex);

<rules; separator="\n\n">

<insertLexerSynpreds(synpreds)>

#region DFA
<cyclicDFAs:{dfa | DFA<dfa.decisionNumber> dfa<dfa.decisionNumber>;}; separator="\n">

protected override void InitDFAs()
{
  base.InitDFAs();
  <cyclicDFAs:{dfa | dfa<dfa.decisionNumber> = new DFA<dfa.decisionNumber>(this<if(dfa.specialStateSTs)>,
SpecialStateTransition<dfa.decisionNumber><endif>;);}; separator="\n">
}

<cyclicDFAs:cyclicDFA()> <! dump tables for all DFA !>
#endregion

}
>>

/** A override of Lexer.nextToken() that backtracks over mTokens() looking
* for matches. No error can be generated upon error; just rewind, consume

```

- * a token and then try again. backtracking needs to be set as well.
- * Make rule memoization happen only at levels above 1 as we start mTokens
- * at backtracking==1.
- */

```

filteringNextToken() ::= <<
public override IToken NextToken()
{
    while (true)
    {
        if (input.LA(1) == CharStreamConstants.EndOfFile)
        {
            IToken eof = new CommonToken((ICharStream)input, CharStreamConstants.EndOfFile, TokenChannels.Default,
input.Index, input.Index);
            eof.Line = Line;
            eof.CharPositionInLine = CharPositionInLine;
            return eof;
        }
        state.token = null;
        state.channel = TokenChannels.Default;
        state.tokenStartCharIndex = input.Index;
        state.tokenStartCharPositionInLine = input.CharPositionInLine;
        state.tokenStartLine = input.Line;
        state.text = null;
        try
        {
            int m = input.Mark();
            state.backtracking=1;<! means we won't throw slow exception !>
            state.failed=false;
            mTokens();
            state.backtracking=0;
            <! mTokens backtracks with synpred at backtracking==2
            and we set the synpredgate to allow actions at level 1. !>
            if (state.failed)
            {
                input.Rewind(m);
                input.Consume();<! advance one char and try again !>
            }
            else
            {
                Emit();
                return state.token;
            }
        }
        catch (RecognitionException re)
        {
            // shouldn't happen in backtracking mode, but...
            ReportError(re);
            Recover(re);
        }
    }
}

```

```

    }
    }
}

public override void Memoize(IIntStream input, int ruleIndex, int ruleStartIndex)
{
    if (state.backtracking > 1)
        base.Memoize(input, ruleIndex, ruleStartIndex);
}

public override bool AlreadyParsedRule(IIntStream input, int ruleIndex)
{
    if (state.backtracking > 1)
        return base.AlreadyParsedRule(input, ruleIndex);

    return false;
}
>>

actionGate() ::= "state.backtracking == 0"

filteringActionGate() ::= "state.backtracking==1"

/** How to generate a parser */
genericParser(grammar, name, scopes, tokens, tokenNames, rules, numRules,
              bitsets, inputStreamType, superClass,
              ASTLabelType="object", labelType, members, rewriteElementType,
              filterMode) ::= <<
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<ANTLRVersion>")]
[System.CLSCompliant(false)]
public partial class <grammar.recognizerName> : <@superClassName><superClass><@end>
{
    <if(grammar.grammarIsRoot)>
    internal static readonly string[] tokenNames = new string[] {
        "\<invalid>", "\<EOR>", "\<DOWN>", "\<UP>", <tokenNames; separator=", ">
    };<\n>
    <endif>
    <tokens:{ public const int <it.name>=<it.type>;}; separator="\n">

    // delegates
    <grammar.delegates:
        {g|public <g.recognizerName> <g.delegateName()>;}; separator="\n">
    // delegators
    <grammar.delegators:
        {g|public <g.recognizerName> <g.delegateName()>;}; separator="\n">
    <last(grammar.delegators):{g|public <g.recognizerName> gParent;}>

    <scopes:{ <if(it.isDynamicGlobalScope)><globalAttributeScope(scope=it)><endif>>>

```

```

<@members>
#if ANTLR_DEBUG
private static readonly bool[] decisionCanBacktrack =
    new bool[]
    {
        false, // invalid decision
    }
    <grammar.decisions:{d | <booleanLiteral.(d.dfa.hasSynPred)>>; wrap="\n", separator=", ">
};
#else
private static readonly bool[] decisionCanBacktrack = new bool[0];
#endif
<! WARNING. bug in ST: this is cut-n-paste into Dbg.stg !>
public <grammar.recognizerName>( <inputStreamType> input<grammar.delegators:{g|, <g.recognizerName>
<g.delegateName()>>> )
: this( input, new RecognizerSharedState()<grammar.delegators:{g|, <g.delegateName()>>> )
{
}
public <grammar.recognizerName>( <inputStreamType> input, RecognizerSharedState
state<grammar.delegators:{g|, <g.recognizerName> <g.delegateName()>>> )
: base(input, state)
{
    <parserCtorBody()>
    <grammar.directDelegates:
    {g|<g.delegateName()> = new <g.recognizerName>(input, state<trunc(g.delegators):{p|, <p.delegateName()>>,
this);}; separator="\n">
    <grammar.indirectDelegates:{g | <g.delegateName()> = <g.delegator.delegateName()>.<g.delegateName()>;};
separator="\n">
    <last(grammar.delegators):{g|gParent = <g.delegateName()>;}>

    OnCreated();
}
<@end>

public override string[] TokenNames { get { return
<grammar.composite.rootGrammar.recognizerName>.tokenNames; } }
public override string GrammarFileName { get { return "<fileName>"; } }

<members>

partial void OnCreated();
partial void EnterRule(string ruleName, int ruleIndex);
partial void LeaveRule(string ruleName, int ruleIndex);

#region Rules
<rules; separator="\n\n">
#endregion Rules

<if(grammar.delegatedRules)>

```



```

<! generate rule/method definitions for imported rules so they
  appear to be defined in this recognizer. !>
#region Delegated rules
<grammar.delegatedRules:{ruleDescriptor|
  public <returnType()> <ruleDescriptor.name>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>)
  <!throws RecognitionException !>{\< if(ruleDescriptor.hasReturnValue)>return
  <endif><ruleDescriptor.grammar:delegateName()>.<ruleDescriptor.name>(<ruleDescriptor.parameterScope.attribut
  es:{a|<a.name>}; separator=", ">); \}}; separator="\n">
#endregion Delegated rules<\n>
<endif>

<insertSynpreds(synpreds)>

<if(cyclicDFAs)>
#region DFA
<cyclicDFAs:{dfa | DFA<dfa.decisionNumber> dfa<dfa.decisionNumber>;}; separator="\n">

protected override void InitDFAs()
{
  base.InitDFAs();
  <cyclicDFAs:{dfa | dfa<dfa.decisionNumber> = new DFA<dfa.decisionNumber>( this<if(dfa.specialStateSTs)>,
  SpecialStateTransition<dfa.decisionNumber><endif> );}; separator="\n">
}

<cyclicDFAs:cyclicDFA()><! dump tables for all DFA !>
#endregion DFA<\n>
<endif>

<if(bitsets)>
#region Follow sets
private static class Follow
{
  <bitsets:bitset(name={_<it.name>_in_<it.inName><it.tokenIndex>},
  words64=it.bits)>
}
#endregion Follow sets<\n>
<endif>
}
>>

parserCtorBody() ::= <<
<if(memoize)>
<if(grammar.grammarIsRoot)>
this.state.ruleMemo = new System.Collections.Generic.Dictionary<int,
int>[<length(grammar.allImportedRules)>+1];<\n><! index from 1..n !>
<endif>
<endif>
<grammar.delegators:

```

```

{g|this.<g:delegateName()> = <g:delegateName()>; separator="\n">
>>

parser(grammar, name, scopes, tokens, tokenNames, rules, numRules, bitsets,
    ASTLabelType="object",
superClass={ <if(actions.(actionScope).superClass)><actions.(actionScope).superClass><else>Antlr.Runtime.Parser
<endif>}, labelType="IToken",
    members={ <actions.parser.members>}) ::= <<
<genericParser(inputStreamType="ITokenStream", rewriteElementType="IToken", ...)>
>>

/** How to generate a tree parser; same as parser except the input
 * stream is a different type.
 */
treeParser(grammar, name, scopes, tokens, tokenNames, globalAction, rules,
    numRules, bitsets, labelType={ <ASTLabelType>}, ASTLabelType="object",
superClass={ <if(actions.(actionScope).superClass)><actions.(actionScope).superClass><else>Antlr.Runtime.Tree.<
if(filterMode)><if(buildAST)>TreeRewriter\<<labelType>\<<else>TreeFilter<endif><else>TreeParser<endif><end
if>},
    members={ <actions.treeparser.members>},
    filterMode) ::= <<
<genericParser(inputStreamType="ITreeNodeStream", rewriteElementType="Node", ...)>
>>

/** A simpler version of a rule template that is specific to the imaginary
 * rules created for syntactic predicates. As they never have return values
 * nor parameters etc..., just give simplest possible method. Don't do
 * any of the normal memoization stuff in here either; it's a waste.
 * As predicates cannot be inlined into the invoking rule, they need to
 * be in a rule by themselves.
 */
synpredRule(ruleName, ruleDescriptor, block, description, nakedBlock) ::=
<<
partial void Enter_<ruleName>_fragment();
partial void Leave_<ruleName>_fragment();

// $ANTLR start <ruleName>
public <!final !>void <ruleName>_fragment(<ruleDescriptor.parameterScope:parameterScope(scope=it)>)
{
    <ruleLabelDefs()>
    Enter_<ruleName>_fragment();
    EnterRule("<ruleName>_fragment", <ruleDescriptor.index>);
    TraceIn("<ruleName>_fragment", <ruleDescriptor.index>);
    try
    {
        <block>
    }
    finally

```

```

{
  TraceOut("<ruleName>_fragment", <ruleDescriptor.index>);
  LeaveRule("<ruleName>_fragment", <ruleDescriptor.index>);
  Leave_<ruleName>_fragment();
}
}
// $ANTLR end <ruleName>
>>

insertLexerSynpreds(synpreds) ::= <<
<insertSynpreds(synpreds)>
>>

insertSynpreds(synpreds) ::= <<
<if(synpreds)>
#region Synpreds
private bool EvaluatePredicate(System.Action fragment)
{
  bool success = false;
  state.backtracking++;
  <@start()>
  try { DebugBeginBacktrack(state.backtracking);
  int start = input.Mark();
  try
  {
    fragment();
  }
  catch ( RecognitionException re )
  {
    System.Console.Error.WriteLine("impossible: "+re);
  }
  success = !state.failed;
  input.Rewind(start);
  } finally { DebugEndBacktrack(state.backtracking, success); }
  <@stop()>
  state.backtracking--;
  state.failed=false;
  return success;
}
#endregion Synpreds<\n>
<endif>
>>

ruleMemoization(name) ::= <<
<if(memoize)>
if (state.backtracking > 0 && AlreadyParsedRule(input, <ruleDescriptor.index>)) { <returnFromRule()> }
<endif>
>>

```

```

/** How to test for failure and return from rule */
checkRuleBacktrackFailure() ::= <<
<if(backtracking)>if (state.failed) <returnFromRule()><endif>
>>

/** This rule has failed, exit indicating failure during backtrack */
ruleBacktrackFailure() ::= <<
<if(backtracking)>if (state.backtracking>0) { state.failed=true; <returnFromRule()> }<endif>
>>

/** How to generate code for a rule. This includes any return type
 * data aggregates required for multiple return values.
 */
rule(ruleName,ruleDescriptor,block,emptyRule,description,exceptions,finally,memoize) ::= <<
<ruleAttributeScope(scope=ruleDescriptor.ruleScope)>
<returnScope(scope=ruleDescriptor.returnScope)>

partial void Enter_<ruleName>();
partial void Leave_<ruleName>();

// $ANTLR start "<ruleName>"
// <fileName>:<description>
[GrammarRule("<ruleName>")]
<csharpVisibilityMap.(ruleDescriptor.modifier); null="private"> <returnType()>
<ruleName>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>)
{
  Enter_<ruleName>();
  EnterRule("<ruleName>", <ruleDescriptor.index>);
  TraceIn("<ruleName>", <ruleDescriptor.index>);
  <ruleScopeSetUp()>
  <ruleDeclarations()>
  <ruleLabelDefs()>
  <ruleDescriptor.actions.init>
  try { DebugEnterRule(GrammarFileName, "<ruleName>");
  DebugLocation(<ruleDescriptor.tree.line>, <ruleDescriptor.EORNode.charPositionInLine>);
  <@preamble()>
  try
  {
    <ruleMemoization(name=ruleName)>
    <block>
    <ruleCleanUp()>
    <(ruleDescriptor.actions.after):execAction()>
  }
  <if(exceptions)>
  <exceptions: {e|<catch(decl=e.decl,action=e.action)><\n>}>
  <else>
  <if(!emptyRule)>

```

```

<if(actions.(actionScope).rulecatch)>
  <actions.(actionScope).rulecatch>
<else>
  catch (RecognitionException re)
  {
    ReportError(re);
    Recover(input,re);
    <@setErrorReturnValue()>
  }<\n>
<endif>
<endif>
<endif>
  finally
  {
    TraceOut("<ruleName>", <ruleDescriptor.index>);
    LeaveRule("<ruleName>", <ruleDescriptor.index>);
    Leave_<ruleName>();
    <memoize()>
    <ruleScopeCleanUp()>
    <finally>
  }
  DebugLocation(<ruleDescriptor.EORNode.line>, <ruleDescriptor.EORNode.charPositionInLine>);
} finally { DebugExitRule(GrammarFileName, "<ruleName>"); }
<@postamble()>
<returnFromRule()><\n>
}
// $ANTLR end "<ruleName>"
>>

catch(decl,action) ::= <<
catch (<e.decl>)
{
  <e.action>
}
>>

ruleDeclarations() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<returnType()> retval = new <returnType()>();
retval.Start = (<labelType>)input.LT(1);<\n>
<else>
<ruleDescriptor.returnScope.attributes: { a |
<a.type> <a.name> = <if(a.initValue)><a.initValue><else><initValue(a.type)><endif>;
}>
<endif>
<if(memoize)>
int <ruleDescriptor.name>_startIndex = input.Index;
<endif>

```

>>

```
ruleScopeSetUp() ::= <<
<ruleDescriptor.useScopes:{<it>_stack.Push(new <it>_scope());<it>_scopeInit(<it>_stack.Peek());};
separator="\n">
<ruleDescriptor.ruleScope:{<it.name>_stack.Push(new
<it.name>_scope());<it.name>_scopeInit(<it.name>_stack.Peek());}; separator="\n">
>>
```

```
ruleScopeCleanUp() ::= <<
<ruleDescriptor.useScopes:{<it>_scopeAfter(<it>_stack.Peek());<it>_stack.Pop();}; separator="\n">
<ruleDescriptor.ruleScope:{<it.name>_scopeAfter(<it.name>_stack.Peek());<it.name>_stack.Pop();};
separator="\n">
>>
```

```
ruleLabelDefs() ::= <<
<[ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels,ruleDescriptor.wildcardTreeLabels,ruleDescriptor.wildcardTreeListLabels]
: {<labelType> <it.label.text>=null;}; separator="\n"
>
<[ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels,ruleDescriptor.wildcardTreeListLabels]
: {List list_<it.label.text>=null;}; separator="\n"
>
<ruleDescriptor.ruleLabels:ruleLabelDef(label=it); separator="\n">
<ruleDescriptor.ruleListLabels:ruleLabelDef(label=it); separator="\n">
>>
```

```
lexerRuleLabelDefs() ::= <<
<[ruleDescriptor.tokenLabels,
ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleLabels]
: {<labelType> <it.label.text>=null;}; separator="\n"
>
<ruleDescriptor.charLabels:{int <it.label.text>;}; separator="\n">
<[ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleListLabels]
: {List list_<it.label.text>=null;}; separator="\n"
>
>>
```

```
returnFromRule() ::= <<
return<if(!ruleDescriptor.isSynPred)>
<if(ruleDescriptor.hasReturnValue)>
<if(ruleDescriptor.hasSingleReturnValue)>
<! This comment is a hack to make sure the following
single space appears in the output. !> <ruleDescriptor.singleValueReturnName>
<else>
retval
```

```

<endif>
<endif>
<endif>
;
>>

ruleCleanUp() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<if(!TREE_PARSER)>
retval.Stop = (<labelType>)input.LT(-1);<\n>
<endif>
<endif>
>>

memoize() ::= <<
<if(memoize)>
<if(backtracking)>
if (state.backtracking > 0) { Memoize(input, <ruleDescriptor.index>, <ruleDescriptor.name>_StartIndex); }
<endif>
<endif>
>>

/** How to generate a rule in the lexer; naked blocks are used for
 * fragment rules.
 */
lexerRule(ruleName,nakedBlock,ruleDescriptor,block,memoize) ::= <<
partial void Enter_<ruleName>();
partial void Leave_<ruleName>();

// $ANTLR start "<ruleName>"
[GrammarRule("<ruleName>")]
<csharpVisibilityMap.(ruleDescriptor.modifier); null="private"> void
m<ruleName>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>)
{
Enter_<ruleName>();
EnterRule("<ruleName>", <ruleDescriptor.index>);
TraceIn("<ruleName>", <ruleDescriptor.index>);
<ruleScopeSetUp()>
<ruleDeclarations()>
try
{
<if(nakedBlock)>
<ruleMemoization(name=ruleName)>
<lexerRuleLabelDefs()>
<ruleDescriptor.actions.init>
<block><\n>
<else>
int _type = <ruleName>;

```

```

int _channel = DefaultTokenChannel;
<ruleMemoization(name=ruleName)>
<lexerRuleLabelDefs()>
<ruleDescriptor.actions.init>
<block>
<ruleCleanUp()>
state.type = _type;
state.channel = _channel;
<(ruleDescriptor.actions.after):execAction()>
<endif>
}
finally
{
TraceOut("<ruleName>", <ruleDescriptor.index>);
LeaveRule("<ruleName>", <ruleDescriptor.index>);
Leave_<ruleName>();
<ruleScopeCleanUp()>
<memoize()>
}
}
// $ANTLR end "<ruleName>"
>>

/** How to generate code for the implicitly-defined lexer grammar rule
 * that chooses between lexer rules.
 */
tokensRule(ruleName,nakedBlock,args,block,ruleDescriptor) ::= <<
public override void mTokens()
{
<block><\n>
}
>>

// S U B R U L E S

/** A (...) subrule with multiple alternatives */
block(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// <fileName>:<description>
int alt<decisionNumber>=<maxAlt>;
<decls>
<@predecision()>
try { DebugEnterSubRule(<decisionNumber>);
try { DebugEnterDecision(<decisionNumber>, decisionCanBacktrack[<decisionNumber>]);
<decision>
} finally { DebugExitDecision(<decisionNumber>); }
<@postdecision()>
<@prebranch()>
switch (alt<decisionNumber>)

```



```

{
<alts:altSwitchCase()>
}
} finally { DebugExitSubRule(<decisionNumber>); }
<@postbranch()>
>>

/** A rule block with multiple alternatives */
ruleBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// <fileName>:<description>
int alt<decisionNumber>=<maxAlt>;
<decls>
<@predecision()>
try { DebugEnterDecision(<decisionNumber>, decisionCanBacktrack[<decisionNumber>]);
<decision>
} finally { DebugExitDecision(<decisionNumber>); }
<@postdecision()>
switch (alt<decisionNumber>)
{
<alts:altSwitchCase()>
}
>>

ruleBlockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
// <fileName>:<description>
<decls>
<@prealt()>
DebugEnterAlt(1);
<alts>
<@postalt()>
>>

/** A special case of a (...) subrule with a single alternative */
blockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
// <fileName>:<description>
<decls>
<@prealt()>
DebugEnterAlt(1);
<alts>
<@postalt()>
>>

/** A (..)+ block with 1 or more alternatives */
positiveClosureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// <fileName>:<description>
int cnt<decisionNumber>=0;
<decls>

```

```

<@preloop()>
try { DebugEnterSubRule(<decisionNumber>);
while (true)
{
int alt<decisionNumber>=<maxAlt>;
<@predecision()>
try { DebugEnterDecision(<decisionNumber>, decisionCanBacktrack[<decisionNumber>]);
<decision>
} finally { DebugExitDecision(<decisionNumber>); }
<@postdecision()>
switch (alt<decisionNumber>)
{
<alts:altSwitchCase()>
default:
if (cnt<decisionNumber> >= 1)
goto loop<decisionNumber>;

<ruleBacktrackFailure()>
EarlyExitException eee<decisionNumber> = new EarlyExitException( <decisionNumber>, input );
DebugRecognitionException(eee<decisionNumber>);
<@earlyExitException()>
throw eee<decisionNumber>;
}
cnt<decisionNumber>++;
}
loop<decisionNumber>:
;

} finally { DebugExitSubRule(<decisionNumber>); }
<@postloop()>
>>

```

positiveClosureBlockSingleAlt ::= positiveClosureBlock

*/** A (..)* block with 1 or more alternatives */*

closureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::=

<<

// <fileName>:<description>

<decls>

<@preloop()>

try { DebugEnterSubRule(<decisionNumber>);

while (true)

{

int alt<decisionNumber>=<maxAlt>;

<@predecision()>

try { DebugEnterDecision(<decisionNumber>, decisionCanBacktrack[<decisionNumber>]);

<decision>

} finally { DebugExitDecision(<decisionNumber>); }

```

<@postdecision()>
switch ( alt<decisionNumber> )
{
<alts:altSwitchCase()>
default:
  goto loop<decisionNumber>;
}
}

loop<decisionNumber>:
;

} finally { DebugExitSubRule(<decisionNumber>); }
<@postloop()>
>>

closureBlockSingleAlt ::= closureBlock

/** Optional blocks (x)? are translated to (x|) by before code generation
 * so we can just use the normal block template
 */
optionalBlock ::= block

optionalBlockSingleAlt ::= block

/** A case in a switch that jumps to an alternative given the alternative
 * number. A DFA predicts the alternative and then a simple switch
 * does the jump to the code that actually matches that alternative.
 */
altSwitchCase() ::= <<
case <i>:
  <@prealt()>
  DebugEnterAlt(<i>);
  <it>
  break;<\n>
>>

/** An alternative is just a list of elements; at outermost level */
alt(elements,altNum,description,autoAST,outerAlt,treeLevel,rew) ::= <<
// <fileName>:<description>
{
  <@declarations()>
  <elements:element()>
  <rew>
  <@cleanup()>
}
>>

```

```

/** What to emit when there is no rewrite. For auto build
 * mode, does nothing.
 */
noRewrite(rewriteBlockLevel, treeLevel) ::= ""

// ELEMENTS

/** Dump the elements one per line */
element() ::= <<
<@prematch(>
DebugLocation(<it.line>, <it.pos>);
<it.el><\n>
>>

/** match a token optionally with a label in front */
tokenRef(token,label,elementIndex,hetero) ::= <<
<if(label)><label>=<labelType><endif>Match(input,<token>,Follow._<token>_in_<ruleName><elementIndex>);
<checkRuleBacktrackFailure(>
>>

/** ids+=ID */
tokenRefAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRef(...>
<listLabel(elem=label,...>
>>

listLabel(label,elem) ::= <<
if (list_<label>==null) list_<label>=new ArrayList();
list_<label>.Add(<elem>);<\n>
>>

/** match a character */
charRef(char,label) ::= <<
<if(label)>
<label> = input.LA(1);<\n>
<endif>
Match(<char>); <checkRuleBacktrackFailure(>
>>

/** match a character range */
charRangeRef(a,b,label) ::= <<
<if(label)>
<label> = input.LA(1);<\n>
<endif>
MatchRange(<a>,<b>); <checkRuleBacktrackFailure(>
>>

/** For now, sets are interval tests and must be tested inline */

```

```

matchSet(s,label,elementIndex,postmatchCode="") ::= <<
<if(label)>
<if(LEXER)>
<label>= input.LA(1);<\n>
<else>
<label>=(<labelType>)input.LT(1);<\n>
<endif>
<endif>
if (<s>)
{
input.Consume();
<postmatchCode>
<if(!LEXER)>
state.errorRecovery=false;
<endif>
<if(backtracking)>state.failed=false;<endif>
}
else
{
<ruleBacktrackFailure()>
MismatchedSetException mse = new MismatchedSetException(null,input);
DebugRecognitionException(mse);
<@mismatchedSetException()>
<if(LEXER)>
Recover(mse);
throw mse;
<else>
throw mse;
<! use following code to make it recover inline; remove throw mse;
recoverFromMismatchedSet(input,mse,Follow._set_in_<ruleName><elementIndex>);
!>
<endif>
}<\n>
>>

```

```

matchSetUnchecked(s,label,elementIndex,postmatchCode="") ::= <<
<if(label)>
<if(LEXER)>
<label>= input.LA(1);<\n>
<else>
<label>=(<labelType>)input.LT(1);<\n>
<endif>
<endif>
input.Consume();
<postmatchCode>
<if(!LEXER)>
state.errorRecovery=false;
<endif>

```

```

<if(backtracking)>state.failed=false;<endif>
>>

matchRuleBlockSet ::= matchSet

matchSetAndListLabel(s,label,elementIndex,postmatchCode) ::= <<
<matchSet(...)>
<listLabel(elem=label,...)>
>>

/** Match a string literal */
lexerStringRef(string,label,elementIndex) ::= <<
<if(label)>
int <label>Start = CharIndex;
Match(<string>); <checkRuleBacktrackFailure()>
int <label>StartLine<elementIndex> = Line;
int <label>StartCharPos<elementIndex> = CharPositionInLine;
<label> = new <labelType>(input, TokenType.Invalid, TokenChannels.Default, <label>Start, CharIndex-1);
<label>.Line = <label>StartLine<elementIndex>;
<label>.CharPositionInLine = <label>StartCharPos<elementIndex>;
<else>
Match(<string>); <checkRuleBacktrackFailure()><\n>
<endif>
>>

wildcard(label,elementIndex) ::= <<
<if(label)>
<label>=(<labelType>)input.LT(1);<\n>
<endif>
MatchAny(input); <checkRuleBacktrackFailure()>
>>

wildcardAndListLabel(label,elementIndex) ::= <<
<wildcard(...)>
<listLabel(elem=label,...)>
>>

/** Match . wildcard in lexer */
wildcardChar(label, elementIndex) ::= <<
<if(label)>
<label> = input.LA(1);<\n>
<endif>
MatchAny(); <checkRuleBacktrackFailure()>
>>

wildcardCharListLabel(label, elementIndex) ::= <<
<wildcardChar(...)>
<listLabel(elem=label,...)>

```

```
>>
```

```
/** Match a rule reference by invoking it possibly with arguments
 * and a return value or values. The 'rule' argument was the
 * target rule name, but now is type Rule, whose toString is
 * same: the rule name. Now though you can access full rule
 * descriptor stuff.
 */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
PushFollow(Follow._<rule.name>_in_<ruleName><elementIndex>);
<if(label)><label>=<endif><if(scope)><scope:delegateName()>.<endif><rule.name><(args; separator=", ">);
PopFollow();
<checkRuleBacktrackFailure()>
>>
```

```
/** ids+=r */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>
<listLabel(elem=label,...)>
>>
```

```
/** A lexer rule reference.
 *
 * The 'rule' argument was the target rule name, but now
 * is type Rule, whose toString is same: the rule name.
 * Now though you can access full rule descriptor stuff.
 */
lexerRuleRef(rule,label,args,elementIndex,scope) ::= <<
<if(label)>
int <label>Start<elementIndex> = CharIndex;
int <label>StartLine<elementIndex> = Line;
int <label>StartCharPos<elementIndex> = CharPositionInLine;
<if(scope)><scope:delegateName()>.<endif>m<rule.name><(args; separator=", ">);
<checkRuleBacktrackFailure()>
<label> = new <labelType>(input, TokenType.Invalid, TokenChannels.Default, <label>Start<elementIndex>,
CharIndex-1);
<label>.Line = <label>StartLine<elementIndex>;
<label>.CharPositionInLine = <label>StartCharPos<elementIndex>;
<else>
<if(scope)><scope:delegateName()>.<endif>m<rule.name><(args; separator=", ">);
<checkRuleBacktrackFailure()>
<endif>
>>
```

```
/** i+=INT in lexer */
lexerRuleRefAndListLabel(rule,label,args,elementIndex,scope) ::= <<
<lexerRuleRef(...)>
<listLabel(elem=label,...)>
```

>>

*/** EOF in the lexer */*

lexerMatchEOF(label,elementIndex) ::= <<

<if(label)>

int <label>Start<elementIndex> = CharIndex;

int <label>StartLine<elementIndex> = Line;

int <label>StartCharPos<elementIndex> = CharPositionInLine;

Match(EOF); <checkRuleBacktrackFailure()>

<labelType> <label> = new <labelType>(input, EOF, TokenChannels.Default, <label>Start<elementIndex>, CharIndex-1);

<label>.Line = <label>StartLine<elementIndex>;

<label>.CharPositionInLine = <label>StartCharPos<elementIndex>;

<else>

Match(EOF); <checkRuleBacktrackFailure()>

<endif>

>>

*/** match ^(root children) in tree parser */*

tree(root, actionsAfterRoot, children, nullableChildList,

enclosingTreeLevel, treeLevel) ::= <<

<root:element()>

<actionsAfterRoot:element()>

<if(nullableChildList)>

if (input.LA(1) == TokenTypes.Down)

{

Match(input, TokenTypes.Down, null); <checkRuleBacktrackFailure()>

<children:element()>

Match(input, TokenTypes.Up, null); <checkRuleBacktrackFailure()>

}

<else>

Match(input, TokenTypes.Down, null); <checkRuleBacktrackFailure()>

<children:element()>

Match(input, TokenTypes.Up, null); <checkRuleBacktrackFailure()>

<endif>

>>

*/** Every predicate is used as a validating predicate (even when it is*

** also hoisted into a prediction expression).*

**/*

validateSemanticPredicate(pred,description) ::= <<

if (!(<evalPredicate(...)>))

{

<ruleBacktrackFailure()>

throw new FailedPredicateException(input, "<ruleName>", "<description>");

}

>>


```
// F i x e d D F A (if-then-else)
```

```
dfaState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
int LA<decisionNumber>_<stateNumber> = input.LA(<k>);<\n>
<edges; separator="\nelse ">
else
{
<if(eotPredictsAlt)>
alt<decisionNumber>=<eotPredictsAlt>;
<else>
<ruleBacktrackFailure()>
NoViableAltException nvae = new NoViableAltException("<description>", <decisionNumber>, <stateNumber>,
input);<\n>
DebugRecognitionException(nvae);
<@noViableAltException()>
throw nvae;<\n>
<endif>
}
>>
```

```
/** Same as a normal DFA state except that we don't examine lookahead
 * for the bypass alternative. It delays error detection but this
 * is faster, smaller, and more what people expect. For (X)? people
 * expect "if ( LA(1)==X ) match(X);" and that's it.
 */
```

```
dfaOptionalBlockState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
int LA<decisionNumber>_<stateNumber> = input.LA(<k>);<\n>
<edges; separator="\nelse ">
>>
```

```
/** A DFA state that is actually the loopback decision of a closure
 * loop. If end-of-token (EOT) predicts any of the targets then it
 * should act like a default clause (i.e., no error can be generated).
 * This is used only in the lexer so that for ('a')* on the end of a rule
 * anything other than 'a' predicts exiting.
 */
```

```
dfaLoopbackState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
int LA<decisionNumber>_<stateNumber> = input.LA(<k>);<\n>
<edges; separator="\nelse "><\n>
<if(eotPredictsAlt)>
<if(!edges)>
alt<decisionNumber>=<eotPredictsAlt>; <! if no edges, don't gen ELSE !>
<else>
else
{
alt<decisionNumber>=<eotPredictsAlt>;
}<\n>
<endif>
```

```

<endif>
>>

/** An accept state indicates a unique alternative has been predicted */
dfaAcceptState(alt) ::= "alt<decisionNumber>=<alt>";

/** A simple edge with an expression. If the expression is satisfied,
 * enter to the target state. To handle gated productions, we may
 * have to evaluate some predicates for this edge.
 */
dfaEdge(labelExpr, targetState, predicates) ::= <<
if ((<labelExpr><if(predicates)> && (<predicates><endif>))
{
    <targetState>
}
>>

// F i x e d D F A (switch case)

/** A DFA state where a SWITCH may be generated. The code generator
 * decides if this is possible: CodeGenerator.canGenerateSwitch().
 */
dfaStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch (input.LA(<k>))
{
    <edges; separator="\n">
    default:
    <if(eotPredictsAlt)>
    alt<decisionNumber>=<eotPredictsAlt>;
    break;<\n>
    <else>
    {
        <ruleBacktrackFailure()>
        NoViableAltException nvae = new NoViableAltException("<description>", <decisionNumber>, <stateNumber>,
input);<\n>
        DebugRecognitionException(nvae);
        <@noViableAltException()>
        throw nvae;
    }<\n>
    <endif>
} <\n>
>>

dfaOptionalBlockStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch (input.LA(<k>))
{
    <edges; separator="\n">
} <\n>

```

```

>>

dfaLoopbackStateSwitch(k, edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch (input.LA(<k>))
{
<edges; separator="\n"><\n>
<if(eotPredictsAlt)>
default:
alt<decisionNumber>=<eotPredictsAlt>;
break;<\n>
<endif>
}<\n>
>>

```

```

dfaEdgeSwitch(labels, targetState) ::= <<
<labels:{ case <it>:}; separator="\n">
{
<targetState>
}
break;
>>

```

```
// C y c l i c D F A
```

```

/** The code to initiate execution of a cyclic DFA; this is used
 * in the rule to predict an alt just like the fixed DFA case.
 * The <name> attribute is inherited via the parser, lexer, ...
 */

```

```

dfaDecision(decisionNumber,description) ::= <<
try
{
alt<decisionNumber> = dfa<decisionNumber>.Predict(input);
}
catch (NoViableAltException nvae)
{
DebugRecognitionException(nvae);
throw;
}
>>

```

```

/* Dump DFA tables as run-length-encoded Strings of octal values.
 * Can't use hex as compiler translates them before compilation.
 * These strings are split into multiple, concatenated strings.
 * Java puts them back together at compile time thankfully.
 * Java cannot handle large static arrays, so we're stuck with this
 * encode/decode approach. See analysis and runtime DFA for
 * the encoding methods.
 */

```

```

cyclicDFA(dfa) ::= <<
private class DFA<dfa.decisionNumber> : DFA
{
private const string DFA<dfa.decisionNumber>_eotS =
"<dfa.javaCompressedEOT; wrap="\n\t\t\t">";
private const string DFA<dfa.decisionNumber>_eofS =
"<dfa.javaCompressedEOF; wrap="\n\t\t\t">";
private const string DFA<dfa.decisionNumber>_minS =
"<dfa.javaCompressedMin; wrap="\n\t\t\t">";
private const string DFA<dfa.decisionNumber>_maxS =
"<dfa.javaCompressedMax; wrap="\n\t\t\t">";
private const string DFA<dfa.decisionNumber>_acceptS =
"<dfa.javaCompressedAccept; wrap="\n\t\t\t">";
private const string DFA<dfa.decisionNumber>_specialS =
"<dfa.javaCompressedSpecial; wrap="\n\t\t\t">>";
private static readonly string[] DFA<dfa.decisionNumber>_transitionS =
{
<dfa.javaCompressedTransition: {s|"<s; wrap="\n\t\t\t">"; separator=",\n">
};

private static readonly short[] DFA<dfa.decisionNumber>_eot =
DFA.UnpackEncodedString(DFA<dfa.decisionNumber>_eotS);
private static readonly short[] DFA<dfa.decisionNumber>_eof =
DFA.UnpackEncodedString(DFA<dfa.decisionNumber>_eofS);
private static readonly char[] DFA<dfa.decisionNumber>_min =
DFA.UnpackEncodedStringToUnsignedChars(DFA<dfa.decisionNumber>_minS);
private static readonly char[] DFA<dfa.decisionNumber>_max =
DFA.UnpackEncodedStringToUnsignedChars(DFA<dfa.decisionNumber>_maxS);
private static readonly short[] DFA<dfa.decisionNumber>_accept =
DFA.UnpackEncodedString(DFA<dfa.decisionNumber>_acceptS);
private static readonly short[] DFA<dfa.decisionNumber>_special =
DFA.UnpackEncodedString(DFA<dfa.decisionNumber>_specialS);
private static readonly short[][] DFA<dfa.decisionNumber>_transition;

static DFA<dfa.decisionNumber>()
{
int numStates = DFA<dfa.decisionNumber>_transitionS.Length;
DFA<dfa.decisionNumber>_transition = new short[numStates][];
for ( int i=0; i < numStates; i++ )
{
DFA<dfa.decisionNumber>_transition[i] =
DFA.UnpackEncodedString(DFA<dfa.decisionNumber>_transitionS[i]);
}
}

public DFA<dfa.decisionNumber>( BaseRecognizer recognizer<if(dfa.specialStateSTs)>,
SpecialStateTransitionHandler specialStateTransition<endif> )
<if(dfa.specialStateSTs)>

```

```

: base(specialStateTransition)<\n>
<endif>
{
this.recognizer = recognizer;
this.decisionNumber = <dfa.decisionNumber>;
this.eot = DFA<dfa.decisionNumber>_eot;
this.eof = DFA<dfa.decisionNumber>_eof;
this.min = DFA<dfa.decisionNumber>_min;
this.max = DFA<dfa.decisionNumber>_max;
this.accept = DFA<dfa.decisionNumber>_accept;
this.special = DFA<dfa.decisionNumber>_special;
this.transition = DFA<dfa.decisionNumber>_transition;
}

public override string Description { get { return "<dfa.description>"; } }

public override void Error(NoViableAltException nvae)
{
    DebugRecognitionException(nvae);
}
}<\n>
<if(dfa.specialStateSTs)>
private int SpecialStateTransition<dfa.decisionNumber>(DFA dfa, int s, IIntStream _input)<! throws
NoViableAltException!>
{
    <if(LEXER)>
    IIntStream input = _input;
    <endif>
    <if(PARSER)>
    ITokenStream input = (ITokenStream)_input;
    <endif>
    <if(TREE_PARSER)>
    ITreeNodeStream input = (ITreeNodeStream)_input;
    <endif>
    int _s = s;
    switch (s)
    {
    <dfa.specialStateSTs: {state |
case <i0>:<! compressed special state numbers 0..n-1 !>
    <state>}; separator="\n">
    }
    <if(backtracking)>
    if (state.backtracking > 0) {state.failed=true; return -1;}<\n>
    <endif>
    NoViableAltException nvae = new NoViableAltException(dfa.Description, <dfa.decisionNumber>, _s, input);
    dfa.Error(nvae);
    throw nvae;
}
}<\n>

```

```

<endif>
>>

/** A state in a cyclic DFA; it's a special state and part of a big switch on
 * state.
 */
cyclicDFAState(decisionNumber,stateNumber,edges,needErrorClause,semPredState) ::= <<
int LA<decisionNumber>_<stateNumber> = input.LA(1);<\n>
<if(semPredState)><! get next lookahead symbol to test edges, then rewind !>
int index<decisionNumber>_<stateNumber> = input.Index;
input.Rewind();<\n>
<endif>
s = -1;
<edges; separator="\nelse ">
<if(semPredState)><! return input cursor to state before we rewound !>
input.Seek(index<decisionNumber>_<stateNumber>);<\n>
<endif>
if ( s>=0 ) return s;
break;
>>

/** Just like a fixed DFA edge, test the lookahead and indicate what
 * state to jump to next if successful.
 */
cyclicDFAEdge(labelExpr, targetStateNumber, edgeNumber, predicates) ::= <<
if ( (<labelExpr> <if(predicates)>&& (<predicates>)<endif> ) { s = <targetStateNumber>;}<\n>
>>

/** An edge pointing at end-of-token; essentially matches any char;
 * always jump to the target.
 */
eotDFAEdge(targetStateNumber,edgeNumber, predicates) ::= <<
s = <targetStateNumber>;<\n>
>>

// D F A E X P R E S S I O N S

andPredicates(left,right) ::= "<left>&&<right>"

orPredicates(operands) ::= "<first(operands)><rest(operands):{o | ||<o>}>"

notPredicate(pred) ::= "!(<evalPredicate(...)>)"

evalPredicate(pred,description) ::= "<pred>"

evalSynPredicate(pred,description) ::= "EvaluatePredicate(<pred>_fragment)"

```

```
lookaheadTest(atom,k,atomAsInt) ::= "LA<decisionNumber>_<stateNumber>==<atom>"
```

```
/** Sometimes a lookahead test cannot assume that LA(k) is in a temp variable  
 * somewhere. Must ask for the lookahead directly.  
 */
```

```
isolatedLookaheadTest(atom,k,atomAsInt) ::= "input.LA(<k>)==<atom>"
```

```
lookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= <<  
(LA<decisionNumber>_<stateNumber>)\>=<lower> && LA<decisionNumber>_<stateNumber>\<=<upper>  
>>
```

```
isolatedLookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= "(input.LA(<k>))\>=<lower>  
&& input.LA(<k>)\<=<upper>"
```

```
setTest(ranges) ::= "<ranges; separator=\\\"\\\">"
```

```
// A T T R I B U T E S
```

```
attributeScope(scope) ::= <<  
<if(scope.attributes)>  
protected class <scope.name>_scope  
{  
  <scope.attributes:{ public <it.decl>;}; separator="\n">  
}  
<if(scope.actions.scopeinit)>  
protected void <scope.name>_scopeInit( <scope.name>_scope scope )  
{  
  <scope.actions.scopeinit>  
}<\n>  
<else>  
partial void <scope.name>_scopeInit( <scope.name>_scope scope );<\n>  
<endif>  
<if(scope.actions.scopeafter)>  
protected void <scope.name>_scopeAfter( <scope.name>_scope scope )  
{  
  <scope.actions.scopeafter>  
}<\n>  
<else>  
partial void <scope.name>_scopeAfter( <scope.name>_scope scope );<\n>  
<endif>  
protected Stack\<<scope.name>_scope\> <scope.name>_stack = new Stack\<<scope.name>_scope\>();<\n>  
<endif>  
>>  
  
globalAttributeScope(scope) ::= <<  
<attributeScope(...)>  
>>
```

```

ruleAttributeScope(scope) ::= <<
<attributeScope(...)>
>>

returnStructName() ::= "<it.name>_return"

returnType() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<ruleDescriptor.grammar.recognizerName>.<ruleDescriptor:returnStructName()>
<else>
<if(ruleDescriptor.hasSingleReturnValue)>
<ruleDescriptor.singleValueReturnType>
<else>
void
<endif>
<endif>
>>

/** Generate the C# type associated with a single or multiple return
* values.
*/
ruleLabelType(referencedRule) ::= <<
<if(referencedRule.hasMultipleReturnValues)>
<referencedRule.grammar.recognizerName>.<referencedRule.name>_return
<else>
<if(referencedRule.hasSingleReturnValue)>
<referencedRule.singleValueReturnType>
<else>
void
<endif>
<endif>
>>

delegateName() ::= <<
<if(it.label)><it.label><else>g<it.name><endif>
>>

/** Using a type to init value map, try to init a type; if not in table
* must be an object, default value is "null".
*/
initValue(typeName) ::= <<
default(<typeName>)
>>

/** Define a rule label including default value */
ruleLabelDef(label) ::= <<
<ruleLabelType(referencedRule=label.referencedRule)> <label.label.text> =
<initValue(typeName=ruleLabelType(referencedRule=label.referencedRule))>;

```


>>

```
/** Define a return struct for a rule if the code needs to access its
```

```
* start/stop tokens, tree stuff, attributes, ... Leave a hole for
```

```
* subgroups to stick in members.
```

```
*/
```

```
returnScope(scope) ::= <<
```

```
<if(ruleDescriptor.hasMultipleReturnValues)>
```

```
public class <ruleDescriptor:returnStructName()> :
```

```
<if(TREE_PARSER)>Tree<else>Parser<endif>RuleReturnScope\<<labelType>\><@ruleReturnInterfaces()>
```

```
{
```

```
<scope.attributes:{ public <it.decl>;}; separator="\n">
```

```
<@ruleReturnMembers()>
```

```
}
```

```
<endif>
```

```
>>
```

```
parameterScope(scope) ::= <<
```

```
<scope.attributes:{<it.decl>}; separator=", ">
```

```
>>
```

```
parameterAttributeRef(attr) ::= "<attr.name>"
```

```
parameterSetAttributeRef(attr,expr) ::= "<attr.name> =<expr>";
```

```
scopeAttributeRef(scope,attr,index,negIndex) ::= <<
```

```
<if(negIndex)>
```

```
((<scope>_scope)<scope>_stack.elementAt(<scope>_stack.size()-<negIndex>-1)).<attr.name>
```

```
<else>
```

```
<if(index)>
```

```
((<scope>_scope)<scope>_stack.elementAt(<index>)).<attr.name>
```

```
<else>
```

```
((<scope>_scope)<scope>_stack.Peek()).<attr.name>
```

```
<endif>
```

```
<endif>
```

```
>>
```

```
scopeSetAttributeRef(scope,attr,expr,index,negIndex) ::= <<
```

```
<if(negIndex)>
```

```
((<scope>_scope)<scope>_stack.elementAt(<scope>_stack.size()-<negIndex>-1)).<attr.name> =<expr>;
```

```
<else>
```

```
<if(index)>
```

```
((<scope>_scope)<scope>_stack.elementAt(<index>)).<attr.name> =<expr>;
```

```
<else>
```

```
((<scope>_scope)<scope>_stack.Peek()).<attr.name> =<expr>;
```

```
<endif>
```

```
<endif>
```

```
>>
```

```

/** $x is either global scope or x is rule with dynamic scope; refers
 * to stack itself not top of stack. This is useful for predicates
 * like {$function.size(>0) && $function::name.equals("foo")}?
 */
isolatedDynamicScopeRef(scope) ::= "<scope>_stack"

/** reference an attribute of rule; might only have single return value */
ruleLabelRef(referencedRule,scope,attr) ::= <<
<if(referencedRule.hasMultipleReturnValues)>
(<scope>!=null?<scope>.<attr.name>:<initValue(attr.type)>)
<else>
<scope>
<endif>
>>

returnAttributeRef(ruleDescriptor,attr) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
retval.<attr.name>
<else>
<attr.name>
<endif>
>>

returnSetAttributeRef(ruleDescriptor,attr,expr) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
retval.<attr.name> =<expr>;
<else>
<attr.name> =<expr>;
<endif>
>>

/** How to translate $tokenLabel */
tokenLabelRef(label) ::= "<label>"

/** ids+=ID {$ids} or e+=expr {$e} */
listLabelRef(label) ::= "list_<label>"

// not sure the next are the right approach

tokenLabelPropertyRef_text(scope,attr) ::= "(<scope>!=null?<scope>.Text:null)"
tokenLabelPropertyRef_type(scope,attr) ::= "(<scope>!=null?<scope>.Type:0)"
tokenLabelPropertyRef_line(scope,attr) ::= "(<scope>!=null?<scope>.Line:0)"
tokenLabelPropertyRef_pos(scope,attr) ::= "(<scope>!=null?<scope>.CharPositionInLine:0)"
tokenLabelPropertyRef_channel(scope,attr) ::= "(<scope>!=null?<scope>.Channel:0)"
tokenLabelPropertyRef_index(scope,attr) ::= "(<scope>!=null?<scope>.TokenIndex:0)"
tokenLabelPropertyRef_tree(scope,attr) ::= "<scope>_tree"
tokenLabelPropertyRef_int(scope,attr) ::= "(<scope>!=null?int.Parse(<scope>.Text):0)"

```

```

ruleLabelPropertyRef_start(scope,attr) ::= "<scope>!=null?((<labelType><scope>.Start):null)"
ruleLabelPropertyRef_stop(scope,attr) ::= "<scope>!=null?((<labelType><scope>.Stop):null)"
ruleLabelPropertyRef_tree(scope,attr) ::= "<scope>!=null?((<ASTLabelType><scope>.Tree):null)"
ruleLabelPropertyRef_text(scope,attr) ::= <<
<if(TREE_PARSER)>
<scope>!=null?(input.TokenStream.ToString(
input.TreeAdaptor.GetTokenStartIndex(<scope>.Start),
input.TreeAdaptor.GetTokenStopIndex(<scope>.Start))):null)
<else>
<scope>!=null?input.ToString(<scope>.Start,<scope>.Stop):null)
<endif>
>>

```

```

ruleLabelPropertyRef_st(scope,attr) ::= "<scope>!=null?<scope>.Template:null)"

```

```

/** Isolated $RULE ref ok in lexer as it's a Token */

```

```

lexerRuleLabel(label) ::= "<label>"

```

```

lexerRuleLabelPropertyRef_type(scope,attr) ::=
"<scope>!=null?<scope>.Type:0)"

```

```

lexerRuleLabelPropertyRef_line(scope,attr) ::=
"<scope>!=null?<scope>.Line:0)"

```

```

lexerRuleLabelPropertyRef_pos(scope,attr) ::=
"<scope>!=null?<scope>.CharPositionInLine:-1)"

```

```

lexerRuleLabelPropertyRef_channel(scope,attr) ::=
"<scope>!=null?<scope>.Channel:0)"

```

```

lexerRuleLabelPropertyRef_index(scope,attr) ::=
"<scope>!=null?<scope>.TokenIndex:0)"

```

```

lexerRuleLabelPropertyRef_text(scope,attr) ::=
"<scope>!=null?<scope>.Text:null)"

```

```

lexerRuleLabelPropertyRef_int(scope,attr) ::=
"<scope>!=null?int.Parse(<scope>.Text):0)"

```

```

// Somebody may ref $template or $tree or $stop within a rule:

```

```

rulePropertyRef_start(scope,attr) ::= "retval.Start"
rulePropertyRef_stop(scope,attr) ::= "retval.Stop"
rulePropertyRef_tree(scope,attr) ::= "retval.Tree"
rulePropertyRef_text(scope,attr) ::= <<
<if(TREE_PARSER)>
input.TokenStream.ToString(
input.TreeAdaptor.GetTokenStartIndex(retval.Start),

```

```

input.TreeAdaptor.GetTokenStopIndex(retval.Start))
<else>
input.ToString(retval.Start,input.LT(-1))
<endif>
>>
rulePropertyRef_st(scope,attr) ::= "retval.Template"

lexerRulePropertyRef_text(scope,attr) ::= "Text"
lexerRulePropertyRef_type(scope,attr) ::= "_type"
lexerRulePropertyRef_line(scope,attr) ::= "state.tokenStartLine"
lexerRulePropertyRef_pos(scope,attr) ::= "state.tokenStartCharPositionInLine"
lexerRulePropertyRef_index(scope,attr) ::= "-1" // undefined token index in lexer
lexerRulePropertyRef_channel(scope,attr) ::= "_channel"
lexerRulePropertyRef_start(scope,attr) ::= "state.tokenStartCharIndex"
lexerRulePropertyRef_stop(scope,attr) ::= "(CharIndex-1)"
lexerRulePropertyRef_int(scope,attr) ::= "int.Parse(<scope>.Text)"

// setting $st and $tree is allowed in local rule. everything else
// is flagged as error
ruleSetPropertyRef_tree(scope,attr,expr) ::= "retval.Tree = <expr>;"
ruleSetPropertyRef_st(scope,attr,expr) ::= "retval.Template =<expr>;"

/** How to execute an action (only when not backtracking) */
execAction(action) ::= <<
<if(backtracking)>
if ( <actions.(actionScope).synpredgate> )
{
<action>
}
<else>
<action>
<endif>
>>

/** How to always execute an action even when backtracking */
execForcedAction(action) ::= "<action>"

// M I S C (properties, etc...)

bitset(name, words64) ::= <<
public static readonly BitSet <name> = new BitSet(new ulong[] { <words64: { <it>UL }; separator="," > }); <\n>
>>

codeFileExtension() ::= ".cs"

true() ::= "true"
false() ::= "false"

```

Found in path(s):

```
* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-  
jar/org/antlr/codegen/templates/CSharp3/CSharp3.stg
```

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```

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```
*/
```

```
/** Template subgroup to add template rewrite output
```

```
* If debugging, then you'll also get STDbg.stg loaded.
```

```
*/
```

```
group ST;
```

```
@outputFile.imports() ::= <<
```

```
<@super.imports(>
```

```
using Antlr.StringTemplate;
```

```
using Antlr.StringTemplate.Language;
```

```
<if(!backtracking)>
```

```
using Hashtable = System.Collections.Hashtable;
```

```
<endif>
```

```
>>
```

```

/** Add this to each rule's return value struct */
@returnScope.ruleReturnMembers() ::= <<
private StringTemplate st;
public StringTemplate ST { get { return st; } set { st = value; } }
public override object Template { get { return st; } }
public override string ToString() { return (st == null) ? string.Empty : st.ToString(); }
>>

@genericParser.members() ::= <<
<@super.members(>
protected StringTemplateGroup templateLib = new StringTemplateGroup("<name>Templates",
typeof(AngleBracketTemplateLexer) );

public StringTemplateGroup TemplateLib
{
get { return this.templateLib; }
set { this.templateLib = value; }
}

/// \<summary> Allows convenient multi-value initialization:
/// "new STAttrMap().Add(...).Add(...)"
/// \</summary>
protected class STAttrMap : Hashtable
{
public STAttrMap Add(string attrName, object value)
{
base.Add(attrName, value);
return this;
}
public STAttrMap Add(string attrName, int value)
{
base.Add(attrName, value);
return this;
}
}
>>

/** x+=rule when output=template */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>
<listLabel(elem=label+".Template",...)>
>>

rewriteTemplate(alts) ::= <<

// TEMPLATE REWRITE
<if(backtracking)>

```

```

if ( <actions.(actionScope).synpredgate> )
{
<alts:rewriteTemplateAlt(); separator="else ">
<if(rewriteMode)><replaceTextInLine()><endif>
}
<else>
<alts:rewriteTemplateAlt(); separator="else ">
<if(rewriteMode)><replaceTextInLine()><endif>
<endif>
>>

```

```

replaceTextInLine() ::= <<
<if(TREE_PARSER)>
((TokenRewriteStream)input.TokenStream).Replace(
input.TreeAdaptor.GetTokenStartIndex(retval.Start),
input.TreeAdaptor.GetTokenStopIndex(retval.Start),
retval.ST);
<else>
((TokenRewriteStream)input).Replace(
((IToken)retval.Start).TokenIndex,
input.LT(-1).TokenIndex,
retval.ST);
<endif>
>>

```

```

rewriteTemplateAlt() ::= <<
// <it.description>
<if(it.pred)>
if (<it.pred>) {
    retval.ST = <it.alt>;
}<\n>
<else>
{
    retval.ST = <it.alt>;
}<\n>
<endif>
>>

```

```

rewriteEmptyTemplate(alts) ::= <<
null;
>>

```

```

/** Invoke a template with a set of attribute name/value pairs.
 * Set the value of the rule's template *after* having set
 * the attributes because the rule's template might be used as
 * an attribute to build a bigger template; you get a self-embedded
 * template.
 */

```

```

rewriteExternalTemplate(name,args) ::= <<
templateLib.GetInstanceOf("<name>"<if(args)>,
new STAttrMap()<args:{a | .Add("<a.name>", <a.value>)}>
<endif>)
>>

```

```

/** expr is a string expression that says what template to load */
rewriteIndirectTemplate(expr,args) ::= <<
templateLib.GetInstanceOf(<expr><if(args)>,
new STAttrMap()<args:{a | .Add("<a.name>", <a.value>)}>
<endif>)
>>

```

```

/** Invoke an inline template with a set of attribute name/value pairs */
rewriteInlineTemplate(args, template) ::= <<
new StringTemplate(templateLib, "<template>"<if(args)>,
new STAttrMap()<args:{a | .Add("<a.name>", <a.value>)}>
<endif>)
>>

```

```

/** plain -> {foo} action */
rewriteAction(action) ::= <<
<action>
>>

```

```

/** An action has %st.attrName=expr; or % {st}.attrName=expr; */
actionSetAttribute(st,attrName,expr) ::= <<
(<st>).SetAttribute("<attrName>",<expr>);
>>

```

```

/** Translate % {stringExpr} */
actionStringConstructor(stringExpr) ::= <<
new StringTemplate(templateLib,<stringExpr>)
>>

```

Found in path(s):

* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/codegen/templates/CSharp2/ST.stg
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```

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- */

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- * /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/tool/GrammarAST.java
- * /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/misc/Utils.java
- * /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/tool/ToolMessage.java
- * /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/analysis/DFA.java
- * /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/analysis/LookaheadSet.java
- * /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/analysis/Label.java
- * /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-
- jar/org/antlr/analysis/NFAConversionThread.java
- * /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/tool/GrammarSyntaxMessage.java
- * /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/tool/Grammar.java
- * /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/misc/OrderedHashSet.java
- * /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/Tool.java
- * /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/tool/GrammarSpelunker.java
- * /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-
- jar/org/antlr/tool/GrammarDanglingStateMessage.java
- * /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/analysis/NFAConfiguration.java
- * /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/tool/DOTGenerator.java
- * /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/tool/GrammarReport.java
- * /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-
- jar/org/antlr/analysis/AnalysisRecursionOverflowException.java
- * /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/tool/CompositeGrammar.java
- * /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/misc/Barrier.java
- * /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/tool/RuleLabelScope.java
- * /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/tool/GrammarSanity.java
- * /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/analysis/NFAContext.java
- * /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/analysis/StateCluster.java
- * /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/tool/Rule.java
- * /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/codegen/JavaTarget.java

* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-
 jar/org/antlr/tool/GrammarAnalysisAbortedMessage.java
 * /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/tool/GrammarReport2.java
 * /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/tool/Interpreter.java
 * /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/tool/Interp.java
 * /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/tool/Attribute.java
 * /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/tool/GrammarSerializerFoo.java
 * /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/misc/MutableInteger.java
 * /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/analysis/Transition.java
 * /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/analysis/DFASState.java
 * /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-
 jar/org/antlr/tool/AssignTokenTypesBehavior.java
 * /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/analysis/DecisionProbe.java
 * /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/misc/BitSet.java
 * /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/codegen/Perl5Target.java
 * /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/analysis/PredicateLabel.java
 * /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/analysis/SemanticContext.java
 * /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-
 jar/org/antlr/analysis/RuleClosureTransition.java
 * /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-
 jar/org/antlr/tool/BuildDependencyGenerator.java
 * /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/codegen/CPPTarget.java
 * /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-
 jar/org/antlr/tool/GrammarUnreachableAltsMessage.java
 * /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/analysis/LL1Analyzer.java
 * /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-
 jar/org/antlr/tool/GrammarInsufficientPredicatesMessage.java
 * /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/misc/IntArrayList.java
 * /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-
 jar/org/antlr/analysis/AnalysisTimeoutException.java
 * /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/codegen/DelphiTarget.java
 * /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/analysis/State.java
 * /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/misc/IntervalSet.java
 * /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/misc/IntSet.java
 * /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-
 jar/org/antlr/analysis/NFAToDFAConverter.java
 * /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/tool/NFAFactory.java
 * /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/misc/Interval.java
 * /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-
 jar/org/antlr/analysis/NonLLStarDecisionException.java
 * /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-
 jar/org/antlr/tool/LeftRecursionCyclesMessage.java
 * /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/analysis/LL1DFA.java
 * /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/codegen/PythonTarget.java
 * /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-
 jar/org/antlr/tool/GrammarNonDeterminismMessage.java
 * /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/tool/RandomPhrase.java
 * /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/tool/EventManager.java

* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/analysis/DFAOptimizer.java
 * /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/tool/AttributeScope.java
 * /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/codegen/ACyclicDFACodeGenerator.java
 * /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/tool/NonRegularDecisionMessage.java
 * /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/analysis/MachineProbe.java
 * /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/tool/CompositeGrammarTree.java
 * /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/codegen/CTarget.java
 * /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/misc/Graph.java
 * /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/analysis/NFAState.java
 * /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/tool/FASerializer.java
 * /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/codegen/JavaScriptTarget.java
 * /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/codegen/CSharp2Target.java
 * /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/analysis/NFA.java
 * /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/tool/GrammarSemanticsMessage.java
 * /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/misc/MultiMap.java
 * /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/tool/ANTLRErrorListener.java
 * /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/tool/NameSpaceChecker.java
 * /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/tool/RecursionOverflowMessage.java
 * /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/codegen/Target.java
 * /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/codegen/ActionScriptTarget.java
 * /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/tool/Message.java
 * /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/tool/Strip.java
 * /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/analysis/ActionLabel.java
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*/

group Delphi implements ANTLRCore;

```
csharpTypeInitMap ::= [
  "int": "0",
  "uint": "0",
  "long": "0",
  "ulong": "0",
  "float": "0.0",
  "double": "0.0",
  "bool": "False",
  "byte": "0",
  "sbyte": "0",
  "short": "0",
  "ushort": "0",
  "char": "#0",
  "string": "",
  "String": "",
  default: "nil" // anything other than an atomic type
]

/** The overall file structure of a recognizer; stores methods for rules
 * and cyclic DFAs plus support code.
 * LEXER (Boolean): should we generate lexer code?
 * PARSER (Boolean): should we generate parser code?
 * TREE_PARSER (Boolean): should we generate tree parser code?
 * actionScope (String): 'lexer', 'parser', 'tree_parser' or custom scope
 * actions (HashMap):
 * docComment (String): document comment
 * recognizer (Object): recognizer class generator
 * name (String): name of grammar
 * tokens (HashMap<name: String, type: Integer>):
 * tokenNames:
 * rules:
 * cyclicDFAs:
 * bitsets:
 * buildTemplate (Boolean): should we generate a string template?
 * buildAST (Boolean): should we generate an AST?
 * rewriteMode (Boolean): are we rewriting nodes?
```

```

* profile (Boolean):
* backtracking (Boolean): backtracking mode?
* synpreds (): syntactic predicates
* memoize (Boolean): should we memoize?
* numRules (Integer): number of rules
* fileName (String): fully qualified name of original .g file
* ANTLRVersion (String): ANTLR version in Major.Minor.Build format
* generatedTimestamp (String): date/time when the file is generated
* trace (Boolean): should we trace input/output?
* scopes:
* superClass (String): name of base class, or empty string
* literals:
*/

```

```

outputFile(LEXER,PARSER,TREE_PARSER, actionScope, actions,
           docComment, recognizer,
           name, tokens, tokenNames, rules, cyclicDFAs,
           bitsets, buildTemplate, buildAST, rewriteMode, profile,
           backtracking, synpreds, memoize, numRules,
           fileName, ANTLRVersion, generatedTimestamp, trace,
           scopes, superClass, literals) ::=

```

```
<<
```

```
unit <name>;
```

```
{ $HINTS OFF }
```

```
// $ANTLR <ANTLRVersion> <fileName> <generatedTimestamp>
```

```
<actions.(actionScope).header>
```

```
interface
```

```
<@imports>
```

```
uses<\n>
```

```
<@end>
```

```
<actions.(actionScope).usesInterface>
```

```
<if(TREE_PARSER)>
```

```
Antlr.Runtime.Tree,<\n>
```

```
<endif>
```

```
Antlr.Runtime,
```

```
Antlr.Runtime.Collections,
```

```
Antlr.Runtime.Tools;
```

```
<docComment>
```

```
<recognizer>
```

```
>>
```

```
/** Generates source code for the lexer class
```

```
* grammar (Grammar object)
```

```

*/
lexer(grammar, name, tokens, scopes, rules, numRules, labelType="Token",
    filterMode, superClass="Lexer") ::= <<
type
I<grammar.recognizerName> = interface(I<@superClassName><superClass><@end>)
end;

T<grammar.recognizerName> = class(T<@superClassName><superClass><@end>,
I<grammar.recognizerName>)
strict private
    FCnt: array [0..<grammar.numberOfDecisions>] of Byte;
    FLA: array [0..<grammar.numberOfDecisions>, 0..255] of Integer;
    FException: ERecognitionException;
    procedure InitializeCyclicDFAs;
<cyclicDFAs:cyclicDFADeclaration()>
public
    const
        <tokens:{<it.name> = <it.type>;}; separator="\n">
        <scopes:{<if(it.isDynamicGlobalScope)><globalAttributeScope(scope=it)><endif>}>
strict private
    <actions.(actionScope).memberDeclarations>
public
    // delegates
    <grammar.delegates: {g|<g.delegateName(): I<superClass>; {<g.recognizerName>}}; separator="\n">
public
    // delegators
    <grammar.delegators: {g|<g.delegateName(): Pointer; {<g.recognizerName>}}; separator="\n">
    <last(grammar.delegators):{g|gParent: Pointer; {<g.recognizerName>}}>
protected
    { IBaseRecognizer }
    function GetGrammarFileName: String; override;
<if(filterMode)>
    function AlreadyParsedRule(const Input: IIntStream;
        const RuleIndex: Integer): Boolean; override;
    procedure Memoize(const Input: IIntStream; const RuleIndex,
        RuleStartIndex: Integer); override;
protected
    { ILexer }
    function NextToken: IToken; override;<\n>
<endif>
protected
    { ILexer }
    procedure DoTokens; override;
public
    constructor Create; overload;
    constructor Create(const AInput: ICharStream<grammar.delegators:{g|}; const A<g.delegateName():
IBaseRecognizer{<g.recognizerName>}>); overload;
    constructor Create(const AInput: ICharStream; const AState: IRecognizerSharedState<grammar.delegators:{g|};

```

```
const A<g:delegateName(): IBaseRecognizer{<g.recognizerName>} }>; overload;
```

```
<rules: {r | <if(!r.ruleDescriptor.isSynPred)><lexerRuleDeclaration(r)><endif>}>  
<synpreds: {p | <lexerSynpredDeclaration(p)>} ; separator="\n">  
end;
```

implementation

uses

```
<grammar.delegates: {g|<g.recognizerName>,}; separator="\n">  
<grammar.delegates: {g|<g.recognizerName>,}; separator="\n">  
<actions.(actionScope).usesImplementation>  
SysUtils,  
StrUtils,  
Math;
```

```
{ T<grammar.recognizerName> }
```

```
constructor T<grammar.recognizerName>.Create;
```

```
begin
```

```
InitializeCyclicDFAs;
```

```
end;
```

```
constructor T<grammar.recognizerName>.Create(const AInput: ICharStream<grammar.delegates: {g}; const  
A<g:delegateName(): IBaseRecognizer{<g.recognizerName>} }>);
```

```
begin
```

```
Create(AInput, nil<grammar.delegates: {g}, A<g:delegateName()>}>);
```

```
end;
```

```
constructor T<grammar.recognizerName>.Create(const AInput: ICharStream; const AState:
```

```
IRecognizerSharedState<grammar.delegates: {g}; const A<g:delegateName():
```

```
IBaseRecognizer{<g.recognizerName>} }>);
```

```
begin
```

```
inherited Create(AInput, AState);
```

```
InitializeCyclicDFAs; { TODO: Necessary in Delphi??? Not removed yet. }
```

```
<if(memoize)>
```

```
<if(grammar.grammarIsRoot)>
```

```
State.RuleMemoCount := <numRules>+1;<n> <! index from 1..n !>
```

```
<endif>
```

```
<endif>
```

```
<grammar.directDelegates:
```

```
{g|<g:delegateName()> := T<g.recognizerName>.Create(AInput, State<trunc(g.delegates): {p,  
<p:delegateName()>}>, Self);}; separator="\n">
```

```
<grammar.delegates:
```

```
{g|<g:delegateName()> := Pointer(A<g:delegateName()>);}; separator="\n">
```

```
<last(grammar.delegates): {g|gParent := Pointer(A<g:delegateName()>);}>
```

```
<actions.(actionScope).memberInitializations>
```

```
end;
```

```

<actions.(actionScope).memberImplementations>
function T<grammar.recognizerName>.GetGrammarFileName: String;
begin
  Result := '<fileName>';
end;

<if(filterMode)>
<filteringNextToken()>
<endif>

<rules; separator="\n\n">
<synpreds:{p | <lexerSynpred(p)>}>

procedure T<grammar.recognizerName>.InitializeCyclicDFAs;
begin
  <cyclicDFAs:{ dfa | FDFA<dfa.decisionNumber> :=
  TDFA<dfa.decisionNumber>.Create(Self<@debugAddition()>); separator="\n">
  <cyclicDFAs:{ dfa | <if(dfa.specialStateSTs)>FDFA<dfa.decisionNumber>.SpecialStateTransitionHandler :=
  DFA<dfa.decisionNumber>_SpecialStateTransition;<endif>}; separator="\n">
end;

<cyclicDFAs:cyclicDFA()> <! dump tables for all DFA !>
end.>>

lexerRuleDeclaration(rule) ::= <<
procedure m<rule.ruleName>(<rule.ruleDescriptor.parameterScope:parameterScope(scope=rule)>);<n>
>>

/** A override of Lexer.nextToken() that backtracks over mTokens() looking
 * for matches. No error can be generated upon error; just rewind, consume
 * a token and then try again. backtracking needs to be set as well.
 *
 * Make rule memoization happen only at levels above 1 as we start mTokens
 * at backtracking==1.
 */
filteringNextToken() ::= <<
function T<grammar.recognizerName>.NextToken: IToken;
var
  M: Integer;
begin
  while (True) do
  begin
    if (Input.LA(1) = Integer(cscEOF)) then
      Exit(TToken.EOF_TOKEN);

    State.Token := nil;
    State.Channel := TToken.DEFAULT_CHANNEL;
    State.TokenStartCharIndex := Input.Index;

```



```

State.TokenStartCharPositionInLine := Input.CharPositionInLine;
State.TokenStartLine := Input.Line;
State.Text := "";
try
  M := Input.Mark();
  State.Backtracking := 1; <! means we won't throw slow exception !>
  State.Failed := False;
  mTokens();
  State.Backtracking := 0;
<!
  mTokens backtracks with synpred at backtracking==2
    and we set the synpredgate to allow actions at level 1.
!>
  if (State.Failed) then
    begin
      Input.Rewind(M);
      Input.Consume; <! // advance one char and try again !>
    end
  else
    begin
      Emit;
      Exit(State.Token);
    end;
except
  on RE: ERecognitionException do
    begin
      // shouldn't happen in backtracking mode, but...
      ReportError(RE);
      Recover(RE);
    end;
end;
end;
end;

function T<grammar.recognizerName>.AlreadyParsedRule(const Input: IIntStream;
const RuleIndex: Integer): Boolean;
begin
  if (State.Backtracking > 1) then
    Result := inherited AlreadyParsedRule(Input, RuleIndex)
  else
    Result := False;
end;

procedure T<grammar.recognizerName>.Memoize(const Input: IIntStream; const RuleIndex,
RuleStartIndex: Integer);
begin
  if (State.Backtracking > 1) then
    inherited Memoize(Input, RuleIndex, RuleStartIndex);

```

```

end;

>>

filteringActionGate() ::= "(State.Backtracking = 1)"

/** How to generate a parser */
genericParser(grammar, name, scopes, tokens, tokenNames, rules, numRules,
    bitsets, inputStreamType, superClass, filterMode,
    ASTLabelType="ANTLRInterface", labelType, members, rewriteElementType) ::= <<
type
<rules: {r | <genericParserRuleReturnType(rule=r, ruleDescriptor=r.ruleDescriptor)>>
I<grammar.recognizerName> = interface(I<@superClassName><superClass><@end>)
    <rules: {r | <genericParserRuleInterface(rule=r, ruleDescriptor=r.ruleDescriptor)>>
end;

T<grammar.recognizerName> = class(T<@superClassName><superClass><@end>,
I<grammar.recognizerName>)
<if(grammar.grammarIsRoot)>
public
    const
        TOKEN_NAMES: array [0..<length(tokenNames)>+3] of String = (
            '<invalid>',
            '<EOR>',
            '<DOWN>',
            '<UP>',
            <tokenNames; separator=",\n">);<\n>
<endif>
public
    const
        <tokens: {<it.name> = <it.type>;}; separator="\n">
public
    // delegates
    <grammar.delegates: {g|<g:delegateName(): I<superClass>; {<g.recognizerName>}}; separator="\n">
public
    // delegators
    <grammar.delegators: {g|<g:delegateName(): Pointer; {<g.recognizerName>}}; separator="\n">
    <last(grammar.delegators): {g|gParent: Pointer; {<g.recognizerName>}}>

    <scopes: {<if(it.isDynamicGlobalScope)><globalAttributeScopeDeclaration(scope=it)><endif>}>
<@members>
    <! WARNING. bug in ST: this is cut-n-paste into Dbg.stg !>
public
    constructor Create(const AInput: <inputStreamType><grammar.delegates: {g|; const A<g:delegateName():
IBaseRecognizer{<g.recognizerName>}}>); overload;
    constructor Create(const AInput: <inputStreamType>; const AState:
IRecognizerSharedState<grammar.delegators: {g|; const A<g:delegateName():
IBaseRecognizer{<g.recognizerName>}}>); overload;

```

```

<@end>
protected
  { IBaseRecognizer }
  function GetTokenNames: TStringArray; override;
  function GetGrammarFileName: String; override;
strict private
  <actions.(actionScope).memberDeclarations>
  <rules: {r | <genericParserRuleDeclaration(rule=r, ruleDescriptor=r.ruleDescriptor)>}>

<! generate rule/method definitions for imported rules so they
appear to be defined in this recognizer. !>
  // Delegated rules
  <grammar.delegatedRules:{ruleDescriptor| <delegatedRuleDeclaration(ruleDescriptor)>}>

  <synpreds:{p | <synpredDeclaration(p)>}; separator="\n">
  <cyclicDFAs:cyclicDFADeclaration()>
strict private
  FException: ERecognitionException;
  FLA: array [0..<grammar.numberOfDecisions>, 0..255] of Integer;
  FCnt: array [0..<grammar.numberOfDecisions>] of Byte;
  procedure InitializeCyclicDFAs;
<if(bitsets)>
public
  class var
    <bitsets.bitsetDecl(name={ FOLLOW_<it.name>_in_<it.inName><it.tokenIndex>})>
public
  class procedure InitializeBitsets; static;<\n>
<endif>
end;

implementation

uses
  <grammar.delegates: {g|<g.recognizerName>,}; separator="\n">
  <grammar.delegators: {g|<g.recognizerName>,}; separator="\n">
  <actions.(actionScope).usesImplementation>
  SysUtils,
  StrUtils,
  Math;

  { T<grammar.recognizerName> }

constructor T<grammar.recognizerName>.Create(const AInput: <inputStreamType><grammar.delegators:{g|; const
A<g:delegateName(): IBaseRecognizer {<g.recognizerName>} }>);
begin
  Create(AInput, TRecognizerSharedState.Create<grammar.delegators:{g|, A<g:delegateName()>}>);
end;

```

```

constructor T<grammar.recognizerName>.Create(const AInput: <inputStreamType>;
const AState: IRecognizerSharedState<grammar.delegators:{g}; const A<g:delegateName()>:
IBaseRecognizer{<g.recognizerName>}>);
begin
inherited Create(AInput, AState);
<@membersConstructor>
<@end>
<parserCtorBody()>
<grammar.directDelegates:{g|<g:delegateName()> := T<g.recognizerName>.Create(Input,
State<trunc(g.delegators):{p|, <p:delegateName()>}>, Self);}; separator="\n">
<grammar.indirectDelegates:{g | <g:delegateName()> := <g.delegator:delegateName()>.<g:delegateName()>};
separator="\n">
<last(grammar.delegators):{glgParent := Pointer(A<g:delegateName()>)}>
<rules: {r | <ruleAttributeScopeInit(scope=r.ruleDescriptor.ruleScope)>}>
<scopes:{<if(it.isDynamicGlobalScope)><globalAttributeScope(scope=it)><endif>}>
<actions.(actionScope).memberInitializations>
end;
<actions.(actionScope).memberImplementations>

<grammar.delegatedRules:{ruleDescriptor| <delegatedRuleImplementation(ruleDescriptor)>}; separator="\n">
procedure T<grammar.recognizerName>.InitializeCyclicDFAs;
begin
<cyclicDFAs:{dfa | FDFA<dfa.decisionNumber> := TDFA<dfa.decisionNumber>.Create(Self);}; separator="\n">
<cyclicDFAs:{dfa | <if(dfa.specialStateSTs)>FDFA<dfa.decisionNumber>.SpecialStateTransitionHandler :=
DFA<dfa.decisionNumber>_SpecialStateTransition;<endif>}; separator="\n">
end;

<if(bitsets)>
class procedure T<grammar.recognizerName>.InitializeBitsets;
begin
<bitsets:bitset(name={FOLLOW_<it.name>_in_<it.inName><it.tokenIndex>}, words64=it.bits)>
end;
<endif>

<@membersImplementation>
<@end>

function T<grammar.recognizerName>.GetTokenNames: TStringArray;
var
I: Integer;
begin
SetLength(Result,Length(T<grammar.composite.rootGrammar.recognizerName>.TOKEN_NAMES));
for I := 0 to Length(T<grammar.composite.rootGrammar.recognizerName>.TOKEN_NAMES) - 1 do
Result[I] := T<grammar.composite.rootGrammar.recognizerName>.TOKEN_NAMES[I];
end;

function T<grammar.recognizerName>.GetGrammarFileName: String;
begin

```

```

Result := '<fileName>';
end;

<rules; separator="\n\n">
<synpreds: {p | <synpred(p)>}>

<cyclicDFAs:cyclicDFA()> <! dump tables for all DFA !>
<if(bitsets)>
initialization
T<grammar.recognizerName>.InitializeBitsets;<\n>
<endif>
end.>>

delegatedRuleDeclaration(ruleDescriptor) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
function <ruleDescriptor.name>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>):
I<returnType()>;<\n>
<else>
<if(ruleDescriptor.hasSingleReturnValue)>
function <ruleDescriptor.name>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>):
<returnType()>;<\n>
<else>
procedure <ruleDescriptor.name>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>);<\n>
<endif>
<endif>
>>

delegatedRuleImplementation(ruleDescriptor) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
function
T<grammar.recognizerName>.<ruleDescriptor.name>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>
): I<returnType()>;<\n>
<else>
<if(ruleDescriptor.hasSingleReturnValue)>
function
T<grammar.recognizerName>.<ruleDescriptor.name>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>
): <returnType()>;<\n>
<else>
procedure
T<grammar.recognizerName>.<ruleDescriptor.name>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>
);<\n>
<endif>
<endif>
begin
<if(ruleDescriptor.hasReturnValue)>Result :=<endif>
T<ruleDescriptor.grammar.recognizerName>(<ruleDescriptor.grammar:delegateName>).Implementor).<ruleDescri
ptor.name>(<ruleDescriptor.parameterScope.attributes: {a|<a.name>} ; separator=" , ">);
end;

```

```

>>

parserCtorBody() ::= <<
InitializeCyclicDFAs;
<if(memoize)>
<if(grammar.grammarIsRoot)>
State.RuleMemoCount := <length(grammar.allImportedRules)>+1;<\n> <! index from 1..n !>
<endif>
<endif>
<grammar.delegators: {g|<g:delegateName()> := Pointer(A<g:delegateName()>);}; separator="\n">
>>

parser(grammar, name, scopes, tokens, tokenNames, rules, numRules, bitsets, ASTLabelType, superClass="Parser",
labelType="Token", members={<actions.parser.members>}) ::= <<
<genericParser(inputStreamType="ITokenStream", rewriteElementType="Token", ...)>
>>

/** How to generate a tree parser; same as parser except the input
 * stream is a different type.
 */
treeParser(grammar, name, scopes, tokens, tokenNames, globalAction, rules, numRules, bitsets,
labelType={<ASTLabelType>}, ASTLabelType="object", superClass="TreeParser",
members={<actions.treeparser.members>}, filterMode) ::= <<
<genericParser(inputStreamType="ITreeNodeStream", rewriteElementType="Node", ...)>
>>

/** A simpler version of a rule template that is specific to the imaginary
 * rules created for syntactic predicates. As they never have return values
 * nor parameters etc..., just give simplest possible method. Don't do
 * any of the normal memoization stuff in here either; it's a waste.
 * As predicates cannot be inlined into the invoking rule, they need to
 * be in a rule by themselves.
 */
synpredRule(ruleName, ruleDescriptor, block, description, nakedBlock) ::=
<<
// $ANTLR start "<ruleName>"
procedure
T<grammar.recognizerName>.<ruleName>_fragment(<ruleDescriptor.parameterScope:parameterScope(scope=it)>)
;
var
Alt: array [0..<grammar.numberOfDecisions>] of Integer;
<ruleLabelDefVars()>
begin
<ruleLabelDefs()>
<if(trace)>
TraceIn('<ruleName>_fragment', <ruleDescriptor.index>);
try

```

```

    <block>
finally
    TraceOut('<ruleName>_fragment', <ruleDescriptor.index>);
end;
<else>
    <block>
<endif>
end;
// $ANTLR end "<ruleName>"
>>

```

```

synpredDecls(name) ::= <<
SynPredPointer <name>;<\n>
>>

```

```

synpred(name) ::= <<

```

```

function T<grammar.recognizerName>.<name>: Boolean;
var
    Start: Integer;
    Success: Boolean;
begin
    State.Backtracking := State.Backtracking + 1;
    <@start()>
    Start := Input.Mark;
    try
        <name>_fragment(); // can never throw exception
    except
        on RE: ERecognitionException do
            WriteLn('Impossible: ' + RE.ToString);
        end;
    Success := not State.Failed;
    Input.Rewind(Start);
    <@stop()>
    State.Backtracking := State.Backtracking - 1;
    State.Failed := False;
    Result := Success;
end;<\n>
>>

```

```

lexerSynpred(name) ::= <<
<synpred(name)>
>>

```

```

lexerSynpredDeclaration(name) ::= <<
function <name>: Boolean;
procedure <name>_fragment;
>>

```

```

synpredDeclaration(name) ::= <<
function <name>: Boolean;
procedure <name>_fragment;
>>

ruleMemoization(name) ::= <<
<if(memoize)>
if ((State.Backtracking > 0) and AlreadyParsedRule(Input, <ruleDescriptor.index>)) then
  Exit(<ruleReturnValue(>);
<endif>
>>

/** How to test for failure and return from rule */
checkRuleBacktrackFailure() ::= <<
<if(backtracking)><\n>if (State.Failed) then Exit(<ruleReturnValue(>);<\n><endif>
>>

/** This rule has failed, exit indicating failure during backtrack */
ruleBacktrackFailure() ::= <<
<if(backtracking)>if (State.Backtracking > 0) then
begin
  State.Failed := True;
  Exit(<ruleReturnValue(>);
end;<endif>
>>

genericParserRuleDeclaration(rule, ruleDescriptor) ::= <<
<if(ruleDescriptor.isSynPred)>
<else>
<ruleAttributeScopeDeclaration(scope=ruleDescriptor.ruleScope)>
<returnScopeDeclaration(scope=ruleDescriptor.returnScope)>
public
<if(ruleDescriptor.hasMultipleReturnValues)>
  function <rule.ruleName>: I<returnType(>);<\n>
<else>
<if(ruleDescriptor.hasSingleReturnValue)>
  function <rule.ruleName>: <returnType(>);<\n>
<else>
  procedure <rule.ruleName>;<\n>
<endif>
<endif>
<endif>
>>

genericParserRuleInterface(rule, ruleDescriptor) ::= <<
<if(ruleDescriptor.isSynPred)>
<else>

```



```

<if(ruleDescriptor.hasMultipleReturnValues)>
function <rule.ruleName>: I<returnType()>;<\n>
<else>
<if(ruleDescriptor.hasSingleReturnValue)>
function <rule.ruleName>: <returnType()>;<\n>
<else>
procedure <rule.ruleName>;<\n>
<endif>
<endif>
<endif>
>>

genericParserRuleReturnType(rule, ruleDescriptor) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<if(ruleDescriptor.isSynPred)>
<else>
I<returnType()> = interface(I<if(TREE_PARSER)>Tree<else>Parser<endif>RuleReturnScope)
end;<\n>
<endif>
<endif>
>>

/** How to generate code for a rule. This includes any return type
 * data aggregates required for multiple return values.
 */
rule(ruleName,ruleDescriptor,block,emptyRule,description,exceptions,finally,memoize) ::= <<
<ruleAttributeScope(scope=ruleDescriptor.ruleScope)>
<returnScope(scope=ruleDescriptor.returnScope)>

// $ANTLR start "<ruleName>"
(* <fileName>:<description> *)
<if(ruleDescriptor.hasMultipleReturnValues)>
function T<grammar.recognizerName>.<ruleName>(<ruleDescriptor.parameterScope;parameterScope(scope=it)>):
I<returnType()>;
<else>
<if(ruleDescriptor.hasSingleReturnValue)>
function T<grammar.recognizerName>.<ruleName>(<ruleDescriptor.parameterScope;parameterScope(scope=it)>):
<returnType()>;
<else>
procedure
T<grammar.recognizerName>.<ruleName>(<ruleDescriptor.parameterScope;parameterScope(scope=it)>);
<endif>
<endif>

var
<ruleDescriptor.actions.vars>
Locals: TLocalStorage;
<if(ruleDescriptor.hasMultipleReturnValues)>

```

```

RetVal: I<returnType()>;<\n>
<else>
<if(ruleDescriptor.hasSingleReturnValue)>
RetVal: <returnType()>;<\n>
<else>
<endif>
<endif>
Alt: array [0..<grammar.numberOfDecisions>] of Integer;
<ruleDeclarationVars()>
<ruleLabelDefVars()>
begin
Locals.Initialize;
try
  <if(trace)>TraceIn('<ruleName>', <ruleDescriptor.index>);<endif>
  <ruleScopeSetUp()>
  <ruleDeclarations()>
  <ruleLabelDefs()>
  <ruleDescriptor.actions.init>
  <@preamble()>
  try
    try
      <ruleMemoization(name=ruleName)>
      <block>
      <ruleCleanUp()>
      <(ruleDescriptor.actions.after):execAction()>
    <if(exceptions)>
      <exceptions: { e|<catch(decl=e.decl,action=e.action)><\n>}>
    <else>
    <if(!emptyRule)>
    <if(actions.(actionScope).rulecatch)>
      <actions.(actionScope).rulecatch>
    <else>
      except
        on RE: ERecognitionException do
          begin
            ReportError(RE);
            Recover(Input,RE);
            <@setErrorReturnValue()>
          end;<\n>
        <endif>
      <endif>
    <endif>
      end;
    finally
      <if(trace)>TraceOut("<ruleName>", <ruleDescriptor.index>);<endif>
      <memoize()>
      <ruleScopeCleanUp()>
      <finally>

```

```

    end;
    <@postamble()>
finally
    Locals.Finalize;
end;
Exit(<ruleReturnValue()>);
end;
// $ANTLR end "<ruleName>"
>>

catch(decl,action) ::= <<
catch (<e.decl>)
{
    <e.action>
}
>>

ruleDeclarations() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
RetVal := T<returnType()>.Create;
RetVal.Start := Input.LT(1);<\n>
<else>
<ruleDescriptor.returnScope.attributes: { a |
<a.name> := <if(a.initValue)><a.initValue><else><initValue(a.type)><endif>;
}>
<endif>
<if(memoize)>
<ruleDescriptor.name>_startIndex := Input.Index();
<endif>
>>

ruleDeclarationVars() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<else>
<ruleDescriptor.returnScope.attributes: { a |
<a.name>: <a.type>;
}>
<endif>
<if(memoize)>
<ruleDescriptor.name>_startIndex: Integer;
<endif>
>>

ruleScopeSetUp() ::= <<
<ruleDescriptor.useScopes: { <it>Stack.Push(T<it>Scope.Create);}; separator="\n">
<ruleDescriptor.ruleScope: { <it.name>Stack.Push(T<it.name>Scope.Create);}; separator="\n">
>>

```

```

ruleScopeCleanup() ::= <<
<ruleDescriptor.useScopes:{<it>Stack.Pop();}; separator="\n">
<ruleDescriptor.ruleScope:{<it.name>Stack.Pop();}; separator="\n">
>>

ruleLabelDefs() ::= <<
<[ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels]:{<it.label.text> := nil;}; separator="\n">
<[ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels]:{list_<it.label.text> := nil;}; separator="\n">
<ruleDescriptor.ruleLabels:ruleLabelDef(label=it); separator="\n">
<ruleDescriptor.ruleListLabels:{ll<ll.label.text> := nil;}; separator="\n">
>>

ruleLabelDefVars() ::= <<
<[ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels]:{<it.label.text>: I<labelType>;}; separator="\n">
<[ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels]:{list_<it.label.text>: IList<\<IANTLRInterface>;};
separator="\n">
<ruleDescriptor.ruleLabels:ruleLabelDefVar(label=it); separator="\n">
<ruleDescriptor.ruleListLabels:{ll<ll.label.text>: <ruleLabelType(referencedRule=ll.referencedRule)>;};
separator="\n">
>>

lexerRuleLabelDefs() ::= <<
<[ruleDescriptor.tokenLabels,
ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleLabels]
: {<it.label.text> := nil;}; separator="\n"
>
<ruleDescriptor.charLabels:{int <it.label.text>;}; separator="\n">
<[ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleListLabels,
ruleDescriptor.ruleListLabels]
: {List_<it.label.text> := nil;}; separator="\n"
>
>>

lexerRuleLabelDefDeclarations() ::= <<
<[ruleDescriptor.tokenLabels,
ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleLabels]
: {<it.label.text>: I<labelType>;}; separator="\n"
>
<ruleDescriptor.charLabels:{int <it.label.text>;}; separator="\n">
<[ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleListLabels,
ruleDescriptor.ruleListLabels]
: {List_<it.label.text>: IList;}; separator="\n"
>
>>

```

```

ruleReturnValue() ::= <<
<if(!ruleDescriptor.isSynPred)>
<if(ruleDescriptor.hasReturnValue)>
<if(ruleDescriptor.hasSingleReturnValue)>
<ruleDescriptor.singleValueReturnName>
<else>
RetVal
<endif>
<else>
<! nil !>
<endif>
<endif>
>>

```

```

ruleCleanUp() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<if(!TREE_PARSER)>
RetVal.Stop := Input.LT(-1);
<endif>
<endif>
>>

```

```

memoize() ::= <<
<if(memoize)>
<if(backtracking)>
if (State.Backtracking > 0) then
Memoize(Input, <ruleDescriptor.index>, <ruleDescriptor.name>_StartIndex);
<endif>
<endif>
>>

```

```

/** How to generate a rule in the lexer; naked blocks are used for
 * fragment rules.
 */

```

```

lexerRule(ruleName,nakedBlock,ruleDescriptor,block,memoize) ::= <<
// $ANTLR start "<ruleName>"
<ruleDescriptor.parameterScope>
procedure
T<grammar.recognizerName>.m<ruleName>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>);
var
<ruleDescriptor.actions.vars>
Locals: TLocalStorage;
TokenType, Channel: Integer;
Alt: array [0..<grammar.numberOfDecisions>] of Integer;
<lexerRuleLabelDefDeclarations()>
begin
Locals.Initialize;

```

```

try
  <ruleAttributeScope(scope=ruleDescriptor.ruleScope)>
  <if(trace)>TraceIn("<ruleName>", <ruleDescriptor.index>);<endif>
  <ruleScopeSetUp()>
  <ruleDeclarations()>
  try
  <if(nakedBlock)>
    <ruleMemoization(name=ruleName)>
    <lexerRuleLabelDefs()>
    <ruleDescriptor.actions.init>
    <block><\n>
  <else>
    TokenType := <ruleName>;
    Channel := DEFAULT_TOKEN_CHANNEL;
    <ruleMemoization(name=ruleName)>
    <lexerRuleLabelDefs()>
    <ruleDescriptor.actions.init>
    <block>
    <ruleCleanUp()>
    State.TokenType := TokenType;
    State.Channel := Channel;
    <(ruleDescriptor.actions.after):execAction()>
  <endif>
  finally
    <if(trace)>TraceOut("<ruleName>", <ruleDescriptor.index>);<endif>
    <ruleScopeCleanUp()>
    <memoize()>
  end;
finally
  Locals.Finalize;
end;
end;
end;
// $ANTLR end "<ruleName>"
>>

/** How to generate code for the implicitly-defined lexer grammar rule
 * that chooses between lexer rules.
 */
tokensRule(ruleName,nakedBlock,args,block,ruleDescriptor) ::= <<
procedure T<grammar.recognizerName>.mTokens;
var
  Alt: array [0..<grammar.numberOfDecisions>] of Integer;
begin
  <block>
end;

procedure T<grammar.recognizerName>.DoTokens;
begin

```

```
mTokens;  
end;  
>>
```

```
// S U B R U L E S
```

```
/** A (...) subrule with multiple alternatives */
```

```
block(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<  
(* <fileName>:<description> *)  
Alt[<decisionNumber>] := <maxAlt>;  
<decls>  
<@predecision()>  
<decision>  
<@postdecision()>  
<@prebranch()>  
case Alt[<decisionNumber>] of  
  <alts:altSwitchCase()>  
end;  
<@postbranch()>  
>>
```

```
/** A rule block with multiple alternatives */
```

```
ruleBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<  
(* <fileName>:<description> *)  
Alt[<decisionNumber>] := <maxAlt>;  
<decls>  
<@predecision()>  
<decision>  
<@postdecision()>  
case Alt[<decisionNumber>] of  
  <alts:altSwitchCase()>  
end;  
>>
```

```
ruleBlockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
```

```
(* <fileName>:<description> *)  
<decls>  
<@prealt()>  
<alts>  
<@postalt()>  
>>
```

```
/** A special case of a (...) subrule with a single alternative */
```

```
blockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<  
(* <fileName>:<description> *)  
<decls>  
<@prealt()>  
<alts>
```

```

<@postalt()>
>>

/** A (..)+ block with 1 or more alternatives */
positiveClosureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,descriptio
n) ::= <<
(* <fileName>:<description> *)
FCnt[<decisionNumber>] := 0;
<decls>
<@preloop()>
while (True) do
begin
Alt[<decisionNumber>] := <maxAlt>;
<@predecision()>
<decision>
<@postdecision()>
case Alt[<decisionNumber>] of
<alts:altSwitchCase()>
else
begin
if (FCnt[<decisionNumber>] >= 1) then
Break;
<ruleBacktrackFailure()>
raise EEarlyExitException.Create(<decisionNumber>, Input);
<@earlyExitException()>
end;
end;
Inc(FCnt[<decisionNumber>]);
end;
<@postloop()>
>>

```

```

positiveClosureBlockSingleAlt ::= positiveClosureBlock

```

```

/** A (..)* block with 1 or more alternatives */
closureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::=
<<
(* <fileName>:<description> *)
<decls>
<@preloop()>
while (True) do
begin
Alt[<decisionNumber>] := <maxAlt>;
<@predecision()>
<decision>
<@postdecision()>
case Alt[<decisionNumber>] of
<alts:altSwitchCase()>

```



```

else
  Break;
end;
end;
end;
<@postloop()>
>>

closureBlockSingleAlt ::= closureBlock

/** Optional blocks (x)? are translated to (x|) by before code generation
 * so we can just use the normal block template
 */
optionalBlock ::= block

optionalBlockSingleAlt ::= block

/** A case in a switch that jumps to an alternative given the alternative
 * number. A DFA predicts the alternative and then a simple switch
 * does the jump to the code that actually matches that alternative.
 */
altSwitchCase() ::= <<
<i>:
<@prealt()>
<it><\n>
>>

/** An alternative is just a list of elements; at outermost level */
alt(elements,altNum,description,autoAST,outerAlt,treeLevel,rew) ::= <<
(* <fileName>:<description> *)
begin
<@declarations()>
<elements:element()>
<rew>
<@cleanup()>
end;
>>

/** What to emit when there is no rewrite. For auto build
 * mode, does nothing.
 */
noRewrite(rewriteBlockLevel, treeLevel) ::= ""

// E L E M E N T S

/** Dump the elements one per line */
element() ::= <<
<@prematch()>
<it.el>

```

```

>>

/** match a token optionally with a label in front */
tokenRef(token,label,elementIndex,hetero) ::= <<
<if(label)><label> := <endif>Match(Input, <token>,
FOLLOW_<token>_in_<ruleName><elementIndex>)<if(label)> as
I<labelType><endif>;<\n><checkRuleBacktrackFailure()>
>>

/** ids+=ID */
tokenRefAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRef(...)>
<listLabel(elem=label,...)>
>>

listLabel(label,elem) ::= <<
if (list_<label> = nil) then list_<label> := TList<IANTLRInterface>.Create;
list_<label>.Add(<elem>);<\n>
>>

/** match a character */
charRef(char,label) ::= <<
<if(label)>
<label> := Input.LA(1);<\n>
<endif>
Match(<char>); <checkRuleBacktrackFailure()>
>>

/** match a character range */
charRangeRef(a,b,label) ::= <<
<if(label)>
<label> := Input.LA(1);<\n>
<endif>
MatchRange(<a>, <b>); <checkRuleBacktrackFailure()>
>>

/** For now, sets are interval tests and must be tested inline */
matchSet(s,label,elementIndex,postmatchCode="") ::= <<
<if(label)>
<if(LEXER)>
<label> := Input.LA(1);<\n>
<else>
<label> := Input.LT(1) as I<labelType>;<\n>
<endif>
<endif>
if (<s>) then
begin
Input.Consume;

```

```

<postmatchCode>
<if(!LEXER)>
State.ErrorRecovery := False;<endif>
<if(backtracking)>State.Failed := False;<endif>
end
else
begin
<ruleBacktrackFailure()>
FException := EMismatchedSetException.Create(nil, Input);
<@mismatchedSetException()>
<if(LEXER)>
Recover(FException);
raise FException;<\n>
<else>
raise FException;
<! use following code to make it recover inline; remove throw mse;
RecoverFromMismatchedSet(input,mse,FOLLOW_set_in_<ruleName><elementIndex>);
!>
<endif>
end;<\n>
>>

matchRuleBlockSet ::= matchSet

matchSetAndListLabel(s,label,elementIndex,postmatchCode) ::= <<
<matchSet(...)>
<listLabel(elem=label,...)>
>>

/** Match a string literal */
lexerStringRef(string,label,elementIndex) ::= <<
<if(label)>
Locals.AsInteger['<label>Start'] := CharIndex;
Match(<string>); <checkRuleBacktrackFailure()>
<label> := TCommonToken.Create(Input, TToken.INVALID_TOKEN_TYPE, TToken.DEFAULT_CHANNEL,
Locals.AsInteger['<label>Start'], CharIndex-1);
<else>
Match(<string>); <checkRuleBacktrackFailure()>
<endif>
>>

wildcard(label,elementIndex) ::= <<
<if(label)>
<label> := Input.LT(1) as I<labelType>;<\n>
<endif>
MatchAny(input); <checkRuleBacktrackFailure()>
>>

```

```

wildcardAndListLabel(label,elementIndex) ::= <<
<wildcard(...)>
<listLabel(elem=label,...)>
>>

/** Match . wildcard in lexer */
wildcardChar(label, elementIndex) ::= <<
<if(label)>
<label> := Input.LA(1);<\n>
<endif>
MatchAny(); <checkRuleBacktrackFailure()>
>>

wildcardCharListLabel(label, elementIndex) ::= <<
<wildcardChar(...)>
<listLabel(elem=label,...)>
>>

/** Match a rule reference by invoking it possibly with arguments
 * and a return value or values. The 'rule' argument was the
 * target rule name, but now is type Rule, whose toString is
 * same: the rule name. Now though you can access full rule
 * descriptor stuff.
 */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
PushFollow(FOLLOW_<rule.name>_in_<ruleName><elementIndex>);
<if(label)>
<label> := <if(scope)><scope:delegateName()>.<endif><rule.name>(<args; separator=", ">);<\n>
<else>
<if(scope)>T<scope.recognizerName>(IANTLRObject(<scope:delegateName()>).Implementor).<endif><rule.name>
>(<args; separator=", ">);<\n>
<endif>
State.FollowingStackPointer := State.FollowingStackPointer - 1;
<checkRuleBacktrackFailure()>
>>

/** ids+=1 */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>
<listLabel(elem=label,...)>
>>

/** A lexer rule reference.
 *
 * The 'rule' argument was the target rule name, but now
 * is type Rule, whose toString is same: the rule name.
 * Now though you can access full rule descriptor stuff.
 */

```

```

lexerRuleRef(rule,label,args,elementIndex,scope) ::= <<
<if(label)>
Locals.AsInteger['<label>Start<elementIndex>'] := CharIndex;
<if(scope)><scope.delegateName().<endif>m<rule.name>(<args; separator=", ">);
<checkRuleBacktrackFailure()>
<label> := TCommonToken.Create(Input, TToken.INVALID_TOKEN_TYPE, TToken.DEFAULT_CHANNEL,
Locals.AsInteger['<label>Start<elementIndex>'], CharIndex - 1);
<else>
<if(scope)><scope.delegateName().Implementor as T<scope.recognizerName>.<endif>m<rule.name>(<args;
separator=", ">); <checkRuleBacktrackFailure()>
<endif>
>>

```

```

/** i+=INT in lexer */
lexerRuleRefAndListLabel(rule,label,args,elementIndex,scope) ::= <<
<lexerRuleRef(...)>
<listLabel(elem=label,...)>
>>

```

```

/** EOF in the lexer */
lexerMatchEOF(label,elementIndex) ::= <<
<if(label)>
Locals.AsInteger['<label>Start<elementIndex>'] := CharIndex;
Match(EOF); <checkRuleBacktrackFailure()>
Locals['<label>'] := TCommonToken.Create(Input, EOF, TToken.DEFAULT_CHANNEL,
Locals.AsInteger['<label>Start<elementIndex>'], CharIndex-1);
<else>
Match(EOF); <checkRuleBacktrackFailure()>
<endif>
>>

```

```

/** match ^(root children) in tree parser */
tree(root, actionsAfterRoot, children, nullableChildList,
enclosingTreeLevel, treeLevel) ::= <<
<root:element()>
<actionsAfterRoot:element()>
<if(nullableChildList)>
if (Input.LA(1) = TToken.DOWN) then
begin
Match(Input, TToken.DOWN, nil); <checkRuleBacktrackFailure()>
<children:element()>
Match(Input, TToken.UP, nil); <checkRuleBacktrackFailure()>
end;
<else>
Match(Input, TToken.DOWN, nil); <checkRuleBacktrackFailure()>
<children:element()>
Match(Input, TToken.UP, nil); <\n><checkRuleBacktrackFailure()>
<endif>

```

```

>>

/** Every predicate is used as a validating predicate (even when it is
 * also hoisted into a prediction expression).
 */
validateSemanticPredicate(pred,description) ::= <<
if (not (<evalPredicate(...)>)) then
begin
  <ruleBacktrackFailure()>
  raise EFailedPredicateException.Create(Input, '<ruleName>', '<description>');
end;<\n>
>>

// F i x e d D F A (if-then-else)

dfaState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
FLA[<decisionNumber>,<stateNumber>] := Input.LA(<k>);<\n>
<edges; separator="\nelse ">
else
begin
<if(eotPredictsAlt)>
  Alt[<decisionNumber>] := <eotPredictsAlt>;<\n>
<else>
  <ruleBacktrackFailure()>
  raise ENoViableAltException.Create('<description>', <decisionNumber>, <stateNumber>, Input);<\n>
<endif>
end;
>>

/** Same as a normal DFA state except that we don't examine lookahead
 * for the bypass alternative. It delays error detection but this
 * is faster, smaller, and more what people expect. For (X)? people
 * expect "if ( LA(1)==X ) match(X);" and that's it.
 */
dfaOptionalBlockState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
FLA[<decisionNumber>,<stateNumber>] := Input.LA(<k>);<\n>
<edges; separator="\nelse ">;
>>

/** A DFA state that is actually the loopback decision of a closure
 * loop. If end-of-token (EOT) predicts any of the targets then it
 * should act like a default clause (i.e., no error can be generated).
 * This is used only in the lexer so that for ('a')* on the end of a rule
 * anything other than 'a' predicts exiting.
 */
dfaLoopbackState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
FLA[<decisionNumber>,<stateNumber>] := Input.LA(<k>);
<edges; separator="\nelse ">;<\n>

```

```

<if(eotPredictsAlt)>
<if(!edges)>
Alt[<decisionNumber>] := <eotPredictsAlt>; <! if no edges, don't gen ELSE !>
<else>
else
begin
  Alt[<decisionNumber>] := <eotPredictsAlt>;
end;<\n>
<endif>
<endif>
>>

/** An accept state indicates a unique alternative has been predicted */
dfaAcceptState(alt) ::= "Alt[<decisionNumber>] := <alt>;"

/** A simple edge with an expression. If the expression is satisfied,
 * enter to the target state. To handle gated productions, we may
 * have to evaluate some predicates for this edge.
 */
dfaEdge(labelExpr, targetState, predicates) ::= <<
if ((<labelExpr>)<if(predicates)> and (<predicates>)<endif>) then
begin
  <targetState>
end <! no ; here !>
>>

// F i x e d D F A (switch case)

/** A DFA state where a SWITCH may be generated. The code generator
 * decides if this is possible: CodeGenerator.canGenerateSwitch().
 */
dfaStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
case Input.LA(<k>) of
  <edges; separator="\n">
else
  begin
<if(eotPredictsAlt)>
  Alt[<decisionNumber>] := <eotPredictsAlt>;
<else>
  <ruleBacktrackFailure()>
  <@noViableAltException()>
  raise ENoViableAltException.Create('<description>', <decisionNumber>, <stateNumber>, Input);<\n>
<endif>
  end;
end;<\n>
>>

dfaOptionalBlockStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<

```

```

case Input.LA(<k>) of
  <edges; separator="\n">
end;<\n>
>>

dfaLoopbackStateSwitch(k, edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
case Input.LA(<k>) of
  <edges; separator="\n"><\n>
<if(eotPredictsAlt)>
else
  Alt[<decisionNumber>] := <eotPredictsAlt>;<\n>
<endif>
end;<\n>
>>

dfaEdgeSwitch(labels, targetState) ::= <<
<labels:{<it>}; separator=",\n">:
begin
  <targetState>
end;
>>

// C y c l i c D F A

/** The code to initiate execution of a cyclic DFA; this is used
 * in the rule to predict an alt just like the fixed DFA case.
 * The <name> attribute is inherited via the parser, lexer, ...
 */
dfaDecision(decisionNumber,description) ::= <<
Alt[<decisionNumber>] := FDFA<decisionNumber>.Predict(Input);
>>

/* Dump DFA tables.
 */
cyclicDFADeclaration(dfa) ::= <<
strict protected
type
  TDFA<dfa.decisionNumber> = class(TDFA)
protected
  { IDFA }
  function Description: String; override;
public
  constructor Create(const ARecognizer: IBaseRecognizer);
end;
var
  FDFA<dfa.decisionNumber>: IDFA;
<if(dfa.specialStateSTs)>
strict protected

```



```

function DFA<dfa.decisionNumber>_SpecialStateTransition(const DFA: IDFA; S: Integer;
  const AInput: IIntStream): Integer;<endif>
>>

cyclicDFA(dfa) ::= <<
{ T<grammar.recognizerName>.TDFA<dfa.decisionNumber> }

constructor T<grammar.recognizerName>.TDFA<dfa.decisionNumber>.Create(const ARecognizer:
IBaseRecognizer);
const
DFA<dfa.decisionNumber>_EOT = '<dfa.javaCompressedEOT; wrap=""+\n  "'>;
DFA<dfa.decisionNumber>_EOF = '<dfa.javaCompressedEOF; wrap=""+\n  "'>;
DFA<dfa.decisionNumber>_MIN = '<dfa.javaCompressedMin; wrap=""+\n  "'>;
DFA<dfa.decisionNumber>_MAX = '<dfa.javaCompressedMax; wrap=""+\n  "'>;
DFA<dfa.decisionNumber>_ACCEPT = '<dfa.javaCompressedAccept; wrap=""+\n  "'>;
DFA<dfa.decisionNumber>_SPECIAL = '<dfa.javaCompressedSpecial; wrap=""+\n  "'>;
DFA<dfa.decisionNumber>_TRANSITION: array [0..<length(dfa.javaCompressedTransition)>-1] of String = (
  <dfa.javaCompressedTransition: {s|<s; wrap=""+\n">'; separator=",\n">);
begin
inherited Create;
Recognizer := ARecognizer;
DecisionNumber := <dfa.decisionNumber>;
EOT := TDFA.UnpackEncodedString(DFA<dfa.decisionNumber>_EOT);
EOF := TDFA.UnpackEncodedString(DFA<dfa.decisionNumber>_EOF);
Min := TDFA.UnpackEncodedStringToUnsignedChars(DFA<dfa.decisionNumber>_MIN);
Max := TDFA.UnpackEncodedStringToUnsignedChars(DFA<dfa.decisionNumber>_MAX);
Accept := TDFA.UnpackEncodedString(DFA<dfa.decisionNumber>_ACCEPT);
Special := TDFA.UnpackEncodedString(DFA<dfa.decisionNumber>_SPECIAL);
Transition := TDFA.UnpackEncodedStringArray(DFA<dfa.decisionNumber>_TRANSITION);
end;

function T<grammar.recognizerName>.TDFA<dfa.decisionNumber>.Description: String;
begin
Result := '<dfa.description>';
end;<\n>
<if(dfa.specialStateSTs)>
function T<grammar.recognizerName>.DFA<dfa.decisionNumber>_SpecialStateTransition(const DFA: IDFA; S:
Integer;
const AInput: IIntStream): Integer;
var
Locals: TLocalStorage;
<if(LEXER)>
Input: IIntStream;
<endif>
<if(PARSER)>
Input: ITokenStream;
<endif>
<if(TREE_PARSER)>

```

```

Input: ITreeNodeStream;
<endif>
_S: Integer;
NVAE: ENoViableAltException;
begin
Result := -1;
Locals.Initialize;
try
<if(LEXER)>
Input := AInput;
<endif>
<if(PARSER)>
Input := AInput as ITokenStream;
<endif>
<if(TREE_PARSER)>
Input := AInput as ITreeNodeStream;
<endif>
_S := S;
case S of
<dfa.specialStateSTs:{state | <i0>: begin<! compressed special state numbers 0..n-1 !>
<state> <\n> end;}; separator="\n">
end;
<if(backtracking)>
if (State.Backtracking > 0) then
begin
State.Failed := True;
Exit(-1);
end;<\n>
<endif>
NVAE := ENoViableAltException.Create(DFA.Description, <dfa.decisionNumber>, _S, Input);
DFA.Error(NVAE);
raise NVAE;
finally
Locals.Finalize;
end;
end;<\n>
<endif>
>>

/** A state in a cyclic DFA; it's a special state and part of a big switch on
* state.
*/
cyclicDFAState(decisionNumber,stateNumber,edges,needErrorClause,semPredState) ::= <<
FLA[<decisionNumber>,<stateNumber>] := Input.LA(1);<\n>
<if(semPredState)> <! get next lookahead symbol to test edges, then rewind !>
Locals.AsInteger['index<decisionNumber>_<stateNumber>'] := Input.Index;
Input.Rewind;<\n>
<endif>

```

```

S := -1;
<edges; separator="\nelse ">;
<if(semPredState> <! return input cursor to state before we rewind !>
Input.Seek(Locals.AsInteger['index<decisionNumber>_<stateNumber>']);<\n>
<endif>
if (S >= 0) then
  Exit(S);
>>

/** Just like a fixed DFA edge, test the lookahead and indicate what
 * state to jump to next if successful.
 */
cyclicDFAEdge(labelExpr, targetStateNumber, edgeNumber, predicates) ::= <<
if ((<labelExpr>)<if(predicates)> and (<predicates>)<endif>) then
  S := <targetStateNumber>
>>

/** An edge pointing at end-of-token; essentially matches any char;
 * always jump to the target.
 */
eotDFAEdge(targetStateNumber,edgeNumber, predicates) ::= <<
S := <targetStateNumber>;<\n>
>>

// D F A E X P R E S S I O N S

andPredicates(left,right) ::= "(<left> and <right>)"

orPredicates(operands) ::= "(<first(operands)><rest(operands):{o | or (<o>)}>)"

notPredicate(pred) ::= "!(<evalPredicate(...)>)"

evalPredicate(pred,description) ::= "<pred>"

evalSynPredicate(pred,description) ::= "<pred>()"

lookaheadTest(atom,k,atomAsInt) ::= "FLA[<decisionNumber>,<stateNumber>] = <atomAsInt>"

/** Sometimes a lookahead test cannot assume that LA(k) is in a temp variable
 * somewhere. Must ask for the lookahead directly.
 */
isolatedLookaheadTest(atom,k,atomAsInt) ::= "Input.LA(<k>) = <atomAsInt>"

lookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= <<
((FLA[<decisionNumber>,<stateNumber>] \>= <lowerAsInt>) and (FLA[<decisionNumber>,<stateNumber>] \<=
<upperAsInt>))
>>

```

```
isolatedLookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= "(Input.LA(<k>) \>=  
<lowerAsInt>) and (Input.LA(<k>) \<= <upperAsInt>)"
```

```
setTest(ranges) ::= "<ranges; separator=\\\" or (\\\">"
```

```
// A T T R I B U T E S
```

```
globalAttributeScope(scope) ::= <<  
<scope.name>Stack := TStackList<I<scope.name>Scope>.Create;<\n>  
<endif>  
>>
```

```
globalAttributeScopeDeclaration(scope) ::= <<  
<if(scope.attributes)>  
strict protected  
type  
  I<scope.name>Scope = interface(IANTLRObject)  
  end;  
  T<scope.name>Scope = class(TANTLRObject, I<scope.name>Scope)  
  protected  
    <scope.attributes:{<it.name>: <it.type>;}; separator="\\n">  
  end;  
strict protected  
<scope.name>Stack: IStackList<I<scope.name>Scope>;  
<endif>  
>>
```

```
ruleAttributeScopeDeclaration(scope) ::= <<  
<if(scope.attributes)>  
strict protected  
type  
  I<scope.name>Scope = interface(IANTLRObject)  
  end;  
  T<scope.name>Scope = class(TANTLRObject, I<scope.name>Scope)  
  protected  
    <scope.attributes:{<it.name>: <it.type>;}; separator="\\n">  
  end;  
strict protected  
<scope.name>Stack: IStackList<I<scope.name>Scope>;  
<endif>  
>>
```

```
ruleAttributeScope(scope) ::= <<  
<! protected Stack <scope.name>Stack = new Stack();<\n !>  
>>
```

```
ruleAttributeScopeInit(scope) ::= <<
```

```

<if(scope)>
<scope.name>Stack := TStackList<I<scope.name>Scope>.Create;<\n>
<endif>
>>

```

```

returnStructName() ::= "<it.name>_return"

```

```

returnType() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<ruleDescriptor.returnStructName()>
<! I<if(TREE_PARSER)>Tree<else>Parser<endif>RuleReturnScope !>
<else>
<if(ruleDescriptor.hasSingleReturnValue)>
<ruleDescriptor.singleValueReturnType>
<else>
<! Pointer/void !>
<endif>
<endif>
>>

```

```

/** Generate the C# type associated with a single or multiple return
* values.
*/

```

```

ruleLabelType(referencedRule) ::= <<
<if(referencedRule.hasMultipleReturnValues)>
I<referencedRule.name>_return
<else>
<if(referencedRule.hasSingleReturnValue)>
<referencedRule.singleValueReturnType>
<else>
void
<endif>
<endif>
>>

```

```

delegateName() ::= <<
<if(it.label)><it.label><else>g<it.name><endif>
>>

```

```

/** Using a type to init value map, try to init a type; if not in table
* must be an object, default value is "null".
*/

```

```

initValue(typeName) ::= <<
<csharpTypeInitMap.(typeName)>
>>

```

```

/** Define a rule label including default value */

```

```

ruleLabelDef(label) ::= <<

```

```

<label.label.text> ::= <initValue(typeName=ruleLabelType(referencedRule=label.referencedRule))>;<\n>
>>

ruleLabelDefVar(label) ::= <<
<label.label.text>: <ruleLabelType(referencedRule=label.referencedRule)>;
>>

/** Define a return struct for a rule if the code needs to access its
 * start/stop tokens, tree stuff, attributes, ... Leave a hole for
 * subgroups to stick in members.
 */
returnScope(scope) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
{ T<ruleDescriptor:returnStructName()> }

<scope.attributes:{public <it.decl>;}; separator="\n">
<@ruleReturnMembers()>
<endif>
>>

returnScopeDeclaration(scope) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
public
type
  T<ruleDescriptor:returnStructName()> =
class(T<if(TREE_PARSER)>Tree<else>Parser<endif>RuleReturnScope, I<ruleDescriptor:returnStructName()>)
  <scope.attributes:{public <it.decl>;}; separator="\n">
  <@ruleReturnMembers()>
  end;
<endif>
>>

parameterScope(scope) ::= <<
<scope.attributes:{<it.decl>;}; separator=", ">
>>

parameterAttributeRef(attr) ::= "<attr.name>"
parameterSetAttributeRef(attr,expr) ::= "<attr.name> := <expr>";"

scopeAttributeRef(scope,attr,index,negIndex) ::= <<
<if(negIndex)>
(<scope>Stack[<scope>Stack.Count-<negIndex>-1] as T<scope>Scope).<attr.name>
<else>
<if(index)>
(<scope>Stack[<index>] as T<scope>Scope).<attr.name>
((<scope>_scope)<scope>_stack[<index>]).<attr.name>
<else>
(<scope>Stack.Peek.Implementor as T<scope>Scope).<attr.name>

```

```

<endif>
<endif>
>>

scopeSetAttributeRef(scope,attr,expr,index,negIndex) ::= <<
<if(negIndex)>
(<scope>Stack[<scope>Stack.Count-<negIndex>-1] as T<scope>Scope).<attr.name> := <expr>;<\n>
<else>
<if(index)>
(<scope>Stack[<index>] as T<scope>Scope).<attr.name> := <expr>;<\n>
<else>
(<scope>Stack.Peek.Implementor as T<scope>Scope).<attr.name> := <expr>;<\n>
<endif>
<endif>
>>

/** $x is either global scope or x is rule with dynamic scope; refers
 * to stack itself not top of stack. This is useful for predicates
 * like {$function.size()>0 && $function::name.equals("foo")}?
 */
isolatedDynamicScopeRef(scope) ::= "<scope>Stack"

/** reference an attribute of rule; might only have single return value */
ruleLabelRef(referencedRule,scope,attr) ::= <<
<if(referencedRule.hasMultipleReturnValues)>
(IfThen(Assigned(<scope>),Def(<scope>).<attr.name>,<initValue(attr.type)>))
<else>
<scope>
<endif>
>>

returnAttributeRef(ruleDescriptor,attr) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
RetVal.<attr.name>
<else>
<attr.name>
<endif>
>>

returnSetAttributeRef(ruleDescriptor,attr,expr) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
RetVal.<attr.name> := <expr>;
<else>
<attr.name> := <expr>;
<endif>
>>

/** How to translate $tokenLabel */

```

```

tokenLabelRef(label) ::= "<label>"

/** ids+=ID {$ids} or e+=expr {$e} */
listLabelRef(label) ::= "list_<label>"

// not sure the next are the right approach

tokenLabelPropertyRef_text(scope,attr) ::= "(Def(<scope>).Text)"
tokenLabelPropertyRef_type(scope,attr) ::= "(Def(<scope>).TokenType)"
tokenLabelPropertyRef_line(scope,attr) ::= "(Def(<scope>).Line)"
tokenLabelPropertyRef_pos(scope,attr) ::= "(Def(<scope>).CharPositionInLine)"
tokenLabelPropertyRef_channel(scope,attr) ::= "(Def(<scope>).Channel)"
tokenLabelPropertyRef_index(scope,attr) ::= "(Def(<scope>).TokenIndex)"
tokenLabelPropertyRef_tree(scope,attr) ::= "<scope>_tree"
tokenLabelPropertyRef_int(scope,attr) ::= "(StrToIntDef(Def(<scope>).Text,0))"

ruleLabelPropertyRef_start(scope,attr) ::= "(IfThen(Assigned(<scope>), Def(<scope>).Start, nil) as I<labelType>)"
ruleLabelPropertyRef_stop(scope,attr) ::= "(Def(<scope>).Stop as I<labelType>)"
ruleLabelPropertyRef_tree(scope,attr) ::= "(Def(Def(<scope>).Tree as I<ASTLabelType>))"
ruleLabelPropertyRef_text(scope,attr) ::= <<
<if(TREE_PARSER)>
IfThen(Assigned(<scope>), Input.TokenStream.ToString(
  Input.TreeAdaptor.GetTokenStartIndex(Def(<scope>).Start),
  Input.TreeAdaptor.GetTokenStopIndex(Def(<scope>).Start)), ")
<else>
IfThen(Assigned(<scope>), Input.ToString(
  (Def(<scope>).Start) as IToken,(Def(<scope>).Stop) as IToken), ")
<endif>
>>
ruleLabelPropertyRef_st(scope,attr) ::= "((<scope> != null) ? <scope>.ST : null)"

/** Isolated $RULE ref ok in lexer as it's a Token */
lexerRuleLabel(label) ::= "<label>"

lexerRuleLabelPropertyRef_type(scope,attr) ::= "(Def(<scope>).TokenType)"
lexerRuleLabelPropertyRef_line(scope,attr) ::= "(Def(<scope>).Line)"
lexerRuleLabelPropertyRef_pos(scope,attr) ::= "(IfThen(Assigned(<scope>),Def(<scope>).CharPositionInLine,-1))"
lexerRuleLabelPropertyRef_channel(scope,attr) ::= "(Def(<scope>).Channel)"
lexerRuleLabelPropertyRef_index(scope,attr) ::= "(Def(<scope>).TokenIndex)"
lexerRuleLabelPropertyRef_text(scope,attr) ::= "(Def(<scope>).Text)"
lexerRuleLabelPropertyRef_int(scope,attr) ::= "(StrToIntDef(Def(<scope>).Text,0))"

// Somebody may ref $template or $tree or $stop within a rule:
rulePropertyRef_start(scope,attr) ::= "(RetVal.Start as I<labelType>)"
rulePropertyRef_stop(scope,attr) ::= "(RetVal.Stop as I<labelType>)"
rulePropertyRef_tree(scope,attr) ::= "(RetVal.Tree as I<ASTLabelType>)"
rulePropertyRef_text(scope,attr) ::= <<

```



```

<if(TREE_PARSER)>
Input.TokenStream.ToString(
  Input.TreeAdaptor.GetTokenStartIndex(RetVal.Start),
  Input.TreeAdaptor.GetTokenStopIndex(RetVal.Start))
<else>
Input.ToString(RetVal.Start as IToken,Input.LT(-1))
<endif>
>>
rulePropertyRef_st(scope,attr) ::= "RetVal.ST"

lexerRulePropertyRef_text(scope,attr) ::= "Text"
lexerRulePropertyRef_type(scope,attr) ::= "TokenType"
lexerRulePropertyRef_line(scope,attr) ::= "State.TokenStartLine"
lexerRulePropertyRef_pos(scope,attr) ::= "State.TokenStartCharPositionInLine"
lexerRulePropertyRef_index(scope,attr) ::= "-1" // undefined token index in lexer
lexerRulePropertyRef_channel(scope,attr) ::= "Channel"
lexerRulePropertyRef_start(scope,attr) ::= "State.TokenStartCharIndex"
lexerRulePropertyRef_stop(scope,attr) ::= "(CharIndex-1)"
lexerRulePropertyRef_int(scope,attr) ::= "StrToInt(<scope>.Text)"

// setting $st and $tree is allowed in local rule. everything else
// is flagged as error
ruleSetPropertyRef_tree(scope,attr,expr) ::= "RetVal.Tree := <expr>;"
ruleSetPropertyRef_st(scope,attr,expr) ::= "RetVal.ST := <expr>;"

/** How to execute an action (only when not backtracking) */
execAction(action) ::= <<
<if(backtracking)>
<if(actions.(actionScope).synpredgate)>
if (<actions.(actionScope).synpredgate>) then
begin
  <action>
end;
<else>
if (State.Backtracking = 0) then
begin
  <action>
end;<\n>
<endif>
<else>
<action>
<endif>
>>

/** How to always execute an action even when backtracking */
execForcedAction(action) ::= "<action>"

```

```
// M I S C (properties, etc...)
```

```
bitset(name, words64) ::= <<  
<name> := TBitSet.Create([<words64: {<it>} ; separator=", ">]); <\n>  
>>
```

```
bitsetDecl(name) ::= <<  
<name>: IBitSet; <\n>  
>>
```

```
codeFileExtension() ::= ".pas"
```

```
true() ::= "True"  
false() ::= "False"
```

Found in path(s):

```
* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-  
jar/org/antlr/codegen/templates/Delphi/Delphi.stg
```

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```
*/
```

```

group AST;

@outputFile.imports() ::= <<
<@super.imports()>
>>

@genericParser.members() ::= <<
<@super.members()>
<parserMembers()>
>>

/** Add an adaptor property that knows how to build trees */
parserMembers() ::= <<
<!protected TreeAdaptor adaptor = new CommonTreeAdaptor();<\n!>
setTreeAdaptor: function(adaptor) {
    this.adaptor = adaptor;
    <grammar.directDelegates:{g|<g:delegateName()>.setTreeAdaptor(this.adaptor);}>
},
getTreeAdaptor: function() {
    return this.adaptor;
},
>>

@returnScope.ruleReturnMembers() ::= <<
getTree: function() { return this.tree; }
>>

/** Add a variable to track rule's return AST */
ruleDeclarations() ::= <<
<super.ruleDeclarations()>
var root_0 = null;<\n>
>>

ruleLabelDefs() ::= <<
<super.ruleLabelDefs()>
<ruleDescriptor.tokenLabels:{var <it.label.text>_tree=null;}; separator="\n">
<ruleDescriptor.tokenListLabels:{var <it.label.text>_tree=null;}; separator="\n">
<ruleDescriptor.allTokenRefsInAltsWithRewrites
    :{var stream_<it>=new org.antlr.runtime.tree.RewriteRuleTokenStream(this.adaptor,"token <it>");};
separator="\n">
<ruleDescriptor.allRuleRefsInAltsWithRewrites
    :{var stream_<it>=new org.antlr.runtime.tree.RewriteRuleSubtreeStream(this.adaptor,"rule <it>");};
separator="\n">
>>

/** When doing auto AST construction, we must define some variables;
 * These should be turned off if doing rewrites. This must be a "mode"
 * as a rule could have both rewrite and AST within the same alternative

```

```

* block.
*/
@alt.declarations() ::= <<
<if(autoAST)>
<if(outerAlt)>
<if(!rewriteMode)>
root_0 = this.adaptor.nil();<\n>
<endif>
<endif>
<endif>
>>

// Tracking Rule Elements

/** ID and track it for use in a rewrite rule */
tokenRefTrack(token,label,elementIndex,hetero) ::= <<
<tokenRefBang(...)> <! Track implies no auto AST construction!>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>stream_<token>.add(<label>);<\n>
>>

/** ids+=ID and track it for use in a rewrite rule; adds to ids *and*
 * to the tracking list stream_ID for use in the rewrite.
 */
tokenRefTrackAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRefTrack(...)>
<listLabel(elem=label,...)>
>>

/** ^(ID ...) track for rewrite */
tokenRefRuleRootTrack(token,label,elementIndex,hetero) ::= <<
<tokenRefBang(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>stream_<token>.add(<label>);<\n>
>>

/** Match ^(label+=TOKEN ...) track for rewrite */
tokenRefRuleRootTrackAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRefRuleRootTrack(...)>
<listLabel(elem=label,...)>
>>

wildcardTrack(label,elementIndex) ::= <<
<super.wildcard(...)>
>>

/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>stream_<rule.name>.add(<label>.getTree());

```

```

>>

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefTrack(...)>
<listLabel(elem=label+".getTree()",...)>
>>

/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>stream_<rule>.add(<label>.getTree());
>>

/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRootTrack(...)>
<listLabel(elem=label+".getTree()",...)>
>>

// R e w r i t e

rewriteCode(
alts, description,
referencedElementsDeep, // ALL referenced elements to right of ->
referencedTokenLabels,
referencedTokenListLabels,
referencedRuleLabels,
referencedRuleListLabels,
referencedWildcardLabels,
referencedWildcardListLabels,
rewriteBlockLevel, enclosingTreeLevel, treeLevel) ::=
<<

// AST REWRITE
// elements: <referencedElementsDeep; separator=", ">
// token labels: <referencedTokenLabels; separator=", ">
// rule labels: <referencedRuleLabels; separator=", ">
// token list labels: <referencedTokenListLabels; separator=", ">
// rule list labels: <referencedRuleListLabels; separator=", ">
<if(backtracking)>
if ( <actions.(actionScope).synpredgate> ) {<\n
<endif>
<prevRuleRootRef().tree = root_0;
<rewriteCodeLabels()>
root_0 = this.adaptor.nil();
<alts:rewriteAlt(); separator="else ">
<! if tree parser and rewrite=true !>

```

```

<if(TREE_PARSER)>
<if(rewriteMode)>
<prevRuleRootRef(>.tree = this.adaptor.rulePostProcessing(root_0);
this.input.replaceChildren(this.adaptor.getParent(retval.start),
    this.adaptor.getChildIndex(retval.start),
    this.adaptor.getChildIndex(_last),
    retval.tree);
<endif>
<endif>
<! if parser or tree-parser && rewrite!=true, we need to set result !>
<if(!TREE_PARSER)>
<prevRuleRootRef(>.tree = root_0;
<else>
<if(!rewriteMode)>
<prevRuleRootRef(>.tree = root_0;
<endif>
<endif>
<if(backtracking)>
}
<endif>
>>

rewriteCodeLabels() ::= <<
<referencedTokenLabels
    :{ var stream_<it>=new org.antlr.runtime.tree.RewriteRule<rewriteElementType>Stream(this.adaptor,"token
<it>",<it>);};
    separator="\n"
>
<referencedTokenListLabels
    :{ var stream_<it>=new org.antlr.runtime.tree.RewriteRule<rewriteElementType>Stream(this.adaptor,"token
<it>", list_<it>);};
    separator="\n"
>
<referencedWildcardLabels
    :{ var stream_<it>=new org.antlr.runtime.tree.RewriteRuleSubtreeStream(this.adaptor,"wildcard <it>",<it>);};
    separator="\n"
>
<referencedWildcardListLabels
    :{ var stream_<it>=new org.antlr.runtime.tree.RewriteRuleSubtreeStream(this.adaptor,"wildcard <it>",<it>);};
    separator="\n"
>
<referencedRuleLabels
    :{ var stream_<it>=new org.antlr.runtime.tree.RewriteRuleSubtreeStream(this.adaptor,"token
<it>",<it>!=null?<it>.tree:null);};
    separator="\n"
>
<referencedRuleListLabels
    :{ var stream_<it>=new org.antlr.runtime.tree.RewriteRuleSubtreeStream(this.adaptor,"token <it>",<it>);};

```

```

    separator="\n"
>
>>

/** Generate code for an optional rewrite block; note it uses the deep ref'd element
 * list rather shallow like other blocks.
 */
rewriteOptionalBlock(
alt,rewriteBlockLevel,
referencedElementsDeep, // all nested refs
referencedElements, // elements in immediately block; no nested blocks
description) ::=
<<
// <fileName>:<description>
if ( <referencedElementsDeep:{el | stream_<el>.hasNext()}; separator="||"> ) {
    <alt>
}
<referencedElementsDeep:{el | stream_<el>.reset();<\n>}>
>>

rewriteClosureBlock(
alt,rewriteBlockLevel,
referencedElementsDeep, // all nested refs
referencedElements, // elements in immediately block; no nested blocks
description) ::=
<<
// <fileName>:<description>
while ( <referencedElements:{el | stream_<el>.hasNext()}; separator="||"> ) {
    <alt>
}
<referencedElements:{el | stream_<el>.reset();<\n>}>
>>

rewritePositiveClosureBlock(
alt,rewriteBlockLevel,
referencedElementsDeep, // all nested refs
referencedElements, // elements in immediately block; no nested blocks
description) ::=
<<
if ( !(<referencedElements:{el | stream_<el>.hasNext()}; separator="||">) ) {
    throw new org.antlr.runtime.tree.RewriteEarlyExitException();
}
while ( <referencedElements:{el | stream_<el>.hasNext()}; separator="||"> ) {
    <alt>
}
<referencedElements:{el | stream_<el>.reset();<\n>}>
>>

```

```

rewriteAlt(a) ::= <<
// <a.description>
<if(a.pred)>
if (<a.pred>) {
  <a.alt>
}<\n>
<else>
{
  <a.alt>
}<\n>
<endif>
>>

/** For empty rewrites: "r : ... -> ;" */
rewriteEmptyAlt() ::= "root_0 = null;"

rewriteTree(root,children,description,enclosingTreeLevel,treeLevel) ::= <<
// <fileName>:<description>
{
var root_<treeLevel> = this.adaptor.nil();
<root:rewriteElement()>
<children:rewriteElement()>
this.adaptor.addChild(root_<enclosingTreeLevel>, root_<treeLevel>);
}<\n>
>>

rewriteElementList(elements) ::= "<elements:rewriteElement()>"

rewriteElement(e) ::= <<
<@pregen()>
<e.el>
>>

/** Gen ID or ID[args] */
rewriteTokenRef(token,elementIndex,hetero,args) ::= <<
this.adaptor.addChild(root_<treeLevel>, <createRewriteNodeFromElement(...)>);<\n>
>>

/** Gen $label ... where defined via label=ID */
rewriteTokenLabelRef(label,elementIndex) ::= <<
this.adaptor.addChild(root_<treeLevel>, stream_<label>.nextNode());<\n>
>>

/** Gen $label ... where defined via label+=ID */
rewriteTokenListLabelRef(label,elementIndex) ::= <<
this.adaptor.addChild(root_<treeLevel>, stream_<label>.nextNode());<\n>
>>

```



```

/** Gen ^($label ...) */
rewriteTokenLabelRefRoot(label,elementIndex) ::= <<
root_<treeLevel> = this.adaptor.becomeRoot(stream_<label>.nextNode(), root_<treeLevel>);<\n>
>>

/** Gen ^($label ...) where label+=... */
rewriteTokenListLabelRefRoot ::= rewriteTokenLabelRefRoot

/** Gen ^(ID ...) or ^(ID[args] ...) */
rewriteTokenRefRoot(token,elementIndex,hetero,args) ::= <<
root_<treeLevel> = this.adaptor.becomeRoot(<createRewriteNodeFromElement(...)>, root_<treeLevel>);<\n>
>>

rewriteImaginaryTokenRef(args,token,hetero,elementIndex) ::= <<
this.adaptor.addChild(root_<treeLevel>, <createImaginaryNode(tokenType=token, ...)>);<\n>
>>

rewriteImaginaryTokenRefRoot(args,token,hetero,elementIndex) ::= <<
root_<treeLevel> = this.adaptor.becomeRoot(<createImaginaryNode(tokenType=token, ...)>,
root_<treeLevel>);<\n>
>>

/** plain -> {foo} action */
rewriteAction(action) ::= <<
root_0 = <action>;<\n>
>>

/** What is the name of the previous value of this rule's root tree? This
* let's us refer to $rule to mean previous value. I am reusing the
* variable 'tree' sitting in retval struct to hold the value of root_0 right
* before I set it during rewrites. The assign will be to retval.tree.
*/
prevRuleRootRef() ::= "retval"

rewriteRuleRef(rule) ::= <<
this.adaptor.addChild(root_<treeLevel>, stream_<rule>.nextTree());<\n>
>>

rewriteRuleRefRoot(rule) ::= <<
root_<treeLevel> = this.adaptor.becomeRoot(stream_<rule>.nextNode(), root_<treeLevel>);<\n>
>>

rewriteNodeAction(action) ::= <<
this.adaptor.addChild(root_<treeLevel>, <action>);<\n>
>>

rewriteNodeActionRoot(action) ::= <<
root_<treeLevel> = this.adaptor.becomeRoot(<action>, root_<treeLevel>);<\n>

```

```

>>

/** Gen $ruleLabel ... where defined via ruleLabel=rule */
rewriteRuleLabelRef(label) ::= <<
this.adaptor.addChild(root_<treeLevel>, stream_<label>.nextTree());<\n>
>>

/** Gen $ruleLabel ... where defined via ruleLabel+=rule */
rewriteRuleListLabelRef(label) ::= <<
this.adaptor.addChild(root_<treeLevel>, stream_<label>.nextTree());<\n>
>>

/** Gen ^($ruleLabel ...) where ruleLabel=rule */
rewriteRuleLabelRefRoot(label) ::= <<
root_<treeLevel> = this.adaptor.becomeRoot(stream_<label>.nextNode(), root_<treeLevel>);<\n>
>>

/** Gen ^($ruleLabel ...) where ruleLabel+=rule */
rewriteRuleListLabelRefRoot(label) ::= <<
root_<treeLevel> = this.adaptor.becomeRoot(stream_<label>.nextNode(), root_<treeLevel>);<\n>
>>

rewriteWildcardLabelRef(label) ::= <<
this.adaptor.addChild(root_<treeLevel>, stream_<label>.nextTree());<\n>
>>

createImaginaryNode(tokenType,hetero,args) ::= <<
<if(hetero)>
<! new MethodNode(IDLabel, args) !>
new <hetero>(tokenType<if(args)>, <args; separator=", "><endif>)
<else>
this.adaptor.create(tokenType, <args; separator=", "><if(!args)>"<tokenType>"<endif>)
<endif>
>>

createRewriteNodeFromElement(token,hetero,args) ::= <<
<if(hetero)>
new <hetero>(stream_<token>.nextToken()<if(args)>, <args; separator=", "><endif>)
<else>
<if(args)> <! must create new node from old !>
this.adaptor.create(token, <args; separator=", ">)
<else>
stream_<token>.nextNode()
<endif>
<endif>
>>

```

Found in path(s):

```
* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-  
jar/org/antlr/codegen/templates/JavaScript/AST.stg
```

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```
/*
```

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```
*
```

```
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```

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```

```
*/
```

```
/** Template overrides to add debugging to normal Java output;
```

```
* If ASTs are built, then you'll also get ASTDbg.stg loaded.
```

```
*/
```

```
group Dbg;
```

```
@outputFile.imports() ::= <<
```

```
<@super.imports(>
```

```
using Antlr.Runtime.Debug;
```

```
using IOException = System.IO.IOException;
```

```
>>
```

```
@genericParser.members() ::= <<
```

```
<if(grammar.grammarIsRoot)>
```

```

public static readonly string[] ruleNames =
    new string[]
    {
        "invalidRule", <grammar.allImportedRules:{rST | "<rST.name>"}; wrap="\n ", separator=", ">
    };<\n>
<endif>
<if(grammar.grammarIsRoot)><! grammar imports other grammar(s) !>
int ruleLevel = 0;
public virtual int RuleLevel { get { return ruleLevel; } }
public virtual void IncRuleLevel() { ruleLevel++; }
public virtual void DecRuleLevel() { ruleLevel--; }
<if(profile)>
    <ctorForProfilingRootGrammar()>
<else>
    <ctorForRootGrammar()>
<endif>
<ctorForPredefinedListener()>
<else><! imported grammar !>
public int RuleLevel { get { return <grammar.delegators:{g| <g.delegateName()>>.RuleLevel; } } }
public void IncRuleLevel() { <grammar.delegators:{g| <g.delegateName()>>.IncRuleLevel(); } }
public void DecRuleLevel() { <grammar.delegators:{g| <g.delegateName()>>.DecRuleLevel(); } }
    <ctorForDelegateGrammar()>
<endif>
<if(profile)>
public override bool AlreadyParsedRule( IIntStream input, int ruleIndex )
{
    int stopIndex = GetRuleMemoization(ruleIndex, input.Index);
    ((Profiler)dbg).ExamineRuleMemoization(input, ruleIndex, stopIndex,
    <grammar.composite.rootGrammar.recognizerName>.ruleNames[ruleIndex]);
    return base.AlreadyParsedRule(input, ruleIndex);
}<\n>
public override void Memoize( IIntStream input, int ruleIndex, int ruleStartIndex )
{
    ((Profiler)dbg).Memoize(input, ruleIndex, ruleStartIndex,
    <grammar.composite.rootGrammar.recognizerName>.ruleNames[ruleIndex]);
    base.Memoize(input, ruleIndex, ruleStartIndex);
}<\n>
<endif>
protected virtual bool EvalPredicate( bool result, string predicate )
{
    dbg.SemanticPredicate( result, predicate );
    return result;
}<\n>
>>

ctorForRootGrammar() ::= <<
<! bug: can't use <@super.members()> cut-n-paste instead !>
<! Same except we add port number and profile stuff if root grammar !>

```

```

public <name>( <inputStreamType> input )
: this( input, DebugEventSocketProxy.DefaultDebuggerPort, new RecognizerSharedState() )
{
}
public <name>( <inputStreamType> input, int port, RecognizerSharedState state )
: base( input, state )
{
<parserCtorBody()>
<createListenerAndHandshake()>
<grammar.directDelegates:{g|<g:delegateName()> = new <g.recognizerName>( input, dbg, this.state,
this<grammar.delegates:{g|, <g:delegateName()>> );}; separator="\n">
<@finally()>
}<\n>
>>

```

```

ctorForProfilingRootGrammar() ::= <<
<! bug: can't use <@super.members()> cut-n-paste instead !>
public <name>( <inputStreamType> input )
: this( input, new Profiler(null), new RecognizerSharedState() )
{
}
public <name>( <inputStreamType> input, IDebugEventListener dbg, RecognizerSharedState state )
: base( input, dbg, state )
{
Profiler p = (Profiler)dbg;
p.setParser(this);
<parserCtorBody()>
<grammar.directDelegates:
{g|<g:delegateName()> = new <g.recognizerName>( input, dbg, this.state, this<grammar.delegates:{g|,
<g:delegateName()>> );}; separator="\n">
<@finally()>
}
<\n>
>>

```

```

/** Basically we don't want to set any dbg listeners are root will have it. */
ctorForDelegateGrammar() ::= <<
public <name>( <inputStreamType> input, IDebugEventListener dbg, RecognizerSharedState
state<grammar.delegates:{g|, <g.recognizerName> <g:delegateName()>> )
: base( input, dbg, state )
{
<parserCtorBody()>
<grammar.directDelegates:
{g|<g:delegateName()> = new <g.recognizerName>( input, this, this.state<grammar.delegates:{g|,
<g:delegateName()>> );}; separator="\n">
}<\n>
>>

```

```

ctorForPredefinedListener() ::= <<
public <name>( <inputStreamType> input, IDebugEventListener dbg )
<@superClassRef>: base( input, dbg, new RecognizerSharedState() )<@end>
{
<if(profile)>
Profiler p = (Profiler)dbg;
p.setParser(this);
<endif>
<parserCtorBody()>
<grammar.directDelegates:{g|<g:delegateName()> = new <g.recognizerName>(input, dbg, this.state,
this<grammar.delegates:{g|, <g:delegateName()>>}); separator="\n">
<@finally()>
}<\n>
>>

```

```

createListenerAndHandshake() ::= <<
<if(TREE_PARSER)>
DebugEventSocketProxy proxy = new DebugEventSocketProxy( this, port, input.TreeAdaptor );<\n>
<else>
DebugEventSocketProxy proxy = new DebugEventSocketProxy( this, port, null );<\n>
<endif>
DebugListener = proxy;
try
{
proxy.Handshake();
}
catch ( IOException ioe )
{
ReportError( ioe );
}
>>

```

```
@genericParser.superClassName() ::= "Debug<@super.superClassName()>"
```

```

/*
* Much of the following rules were merged into CSharp3.stg.
*/

```

```

@rule.preamble() ::= <<
if (RuleLevel == 0)
DebugListener.Commence();
IncRuleLevel();
>>
//@rule.preamble() ::= <<
//try
//{
// dbg.EnterRule( GrammarFileName, "<ruleName>" );
// if ( RuleLevel == 0 )

```

```

// {
// dbg.Commence();
// }
// IncRuleLevel();
// dbg.Location( <ruleDescriptor.tree.line>, <ruleDescriptor.tree.charPositionInLine> );<\n>
//>>

@rule.postamble() ::= <<
DecRuleLevel();
if (RuleLevel == 0)
    DebugListener.Terminate();
>>
//@rule.postamble() ::= <<
//dbg.Location(<ruleDescriptor.EORNode.line>, <ruleDescriptor.EORNode.charPositionInLine>);<\n>
//}
//finally
//{{
// dbg.ExitRule( GrammarFileName, "<ruleName>" );
// DecRuleLevel();
// if ( RuleLevel == 0 )
// {
//   dbg.Terminate();
// }
//}<\n>
//>>

//@insertSynpreds.start() ::= "dbg.BeginBacktrack( state.backtracking );"
//@insertSynpreds.stop() ::= "dbg.EndBacktrack( state.backtracking, success );"

// Common debug event triggers used by region overrides below

//enterSubRule() ::= <<
//try
//{{
// dbg.EnterSubRule( <decisionNumber> );<\n>
//>>

//exitSubRule() ::= <<
//}
//finally
//{{
// dbg.ExitSubRule( <decisionNumber> );
//}<\n>
//>>

//enterDecision() ::= <<
//try
//{{

```

```

// dbg.EnterDecision( <decisionNumber> );<\n>
//>>

//exitDecision() ::= <<
//}
//finally
//{{
// dbg.ExitDecision( <decisionNumber> );
//}<\n>
//>>

//enterAlt(n) ::= "dbg.EnterAlt( <n> );<\n>"

// Region overrides that tell various constructs to add debugging triggers

//@block.predecision() ::= "<enterSubRule()><enterDecision()>"

//@block.postdecision() ::= "<exitDecision()>"

//@block.postbranch() ::= "<exitSubRule()>"

//@ruleBlock.predecision() ::= "<enterDecision()>"

//@ruleBlock.postdecision() ::= "<exitDecision()>"

//@ruleBlockSingleAlt.prealt() ::= "<enterAlt(n=\"1\")>"

//@blockSingleAlt.prealt() ::= "<enterAlt(n=\"1\")>"

//@positiveClosureBlock.preloop() ::= "<enterSubRule()>"

//@positiveClosureBlock.postloop() ::= "<exitSubRule()>"

//@positiveClosureBlock.predecision() ::= "<enterDecision()>"

//@positiveClosureBlock.postdecision() ::= "<exitDecision()>"

//@positiveClosureBlock.earlyExitException() ::=
// "dbg.RecognitionException( eee<decisionNumber> );<\n>"

//@closureBlock.preloop() ::= "<enterSubRule()>"

//@closureBlock.postloop() ::= "<exitSubRule()>"

//@closureBlock.predecision() ::= "<enterDecision()>"

//@closureBlock.postdecision() ::= "<exitDecision()>"

```



```

//@altSwitchCase.preal() ::= "<enterAlt(n=i)>"

//@element.prematch() ::=
// "dbg.Location( <it.line>, <it.pos> );"

//@matchSet.mismatchedSetException() ::=
// "dbg.RecognitionException( mse );"

//@dfaState.noViableAltException() ::= "dbg.RecognitionException( nvae );"

//@dfaStateSwitch.noViableAltException() ::= "dbg.RecognitionException( nvae );"

//dfaDecision(decisionNumber,description) ::= <<
//try
//{
// isCyclicDecision = true;
// <super.dfaDecision(...)>
//}
//catch ( NoViableAltException nvae )
//{
// dbg.RecognitionException( nvae );
// throw nvae;
//}
//>>

//@cyclicDFA.errorMethod() ::= <<
//public override void Error( NoViableAltException nvae )
//{
// ((DebugParser)recognizer).dbg.RecognitionException( nvae );
//}
//>>

/** Force predicate validation to trigger an event */
evalPredicate(pred,description) ::= <<
EvalPredicate(<pred>, "<description>")
>>

```

Found in path(s):

```

* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-
jar/org/antlr/codegen/templates/CSharp3/Dbg.stg

```

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```

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```

Found in path(s):

```

* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/codegen/ObjCTarget.java
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```

```

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*/

```

```

/** Templates for building ASTs during normal parsing.

```

```

*
* Deal with many combinations. Dimensions are:
* Auto build or rewrite
* no label, label, list label (label/no-label handled together)
* child, root
* token, set, rule, wildcard
*
* The situation is not too bad as rewrite (->) usage makes ^ and !
* invalid. There is no huge explosion of combinations.
*/

```

```

group ASTParser;

```

```

@rule.setErrorReturnValue() ::= <<
retval.Tree = (<ASTLabelType>)adaptor.ErrorNode(input, retval.Start, input.LT(-1), re);
<! System.out.WriteLine("<ruleName> returns "+((CommonTree)retval.tree).toStringTree()); !>
>>

```

```

// TOKEN AST STUFF

```

```

/** ID and output=AST */
tokenRef(token,label,elementIndex,hetero) ::= <<
<super.tokenRef(...)>
<if(backtracking)>if ( state.backtracking==0 ) {<endif>
<label>_tree = <createNodeFromToken(...)>;
adaptor.AddChild(root_0, <label>_tree);
<if(backtracking)>}<endif>
>>

```

```

/** ID! and output=AST (same as plain tokenRef) */
tokenRefBang(token,label,elementIndex) ::= "<super.tokenRef(...)>"

```

```

/** ID^ and output=AST */
tokenRefRuleRoot(token,label,elementIndex,hetero) ::= <<
<super.tokenRef(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<label>_tree = <createNodeFromToken(...)>;

```

```

root_0 = (<ASTLabelType>)adaptor.BecomeRoot(<label>_tree, root_0);
<if(backtracking)><endif>
>>

/** ids+=ID! and output=AST */
tokenRefBangAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRefBang(...)>
<listLabel(elem=label,...)>
>>

/** label+=TOKEN when output=AST but not rewrite alt */
tokenRefAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRef(...)>
<listLabel(elem=label,...)>
>>

/** Match label+=TOKEN^ when output=AST but not rewrite alt */
tokenRefRuleRootAndListLabel(token,label,hetero,elementIndex) ::= <<
<tokenRefRuleRoot(...)>
<listLabel(elem=label,...)>
>>

// SET AST

// the match set stuff is interesting in that it uses an argument list
// to pass code to the default matchSet; another possible way to alter
// inherited code. I don't use the region stuff because I need to pass
// different chunks depending on the operator. I don't like making
// the template name have the operator as the number of templates gets
// large but this is the most flexible--this is as opposed to having
// the code generator call matchSet then add root code or ruleroot code
// plus list label plus ... The combinations might require complicated
// rather than just added on code. Investigate that refactoring when
// I have more time.

matchSet(s,label,hetero,elementIndex,postmatchCode) ::= <<
<super.matchSet(..., postmatchCode={<if(backtracking)>if ( <actions.(actionScope).synpredgate> )
<endif>adaptor.AddChild(root_0, <createNodeFromToken(...)>);})>
>>

matchRuleBlockSet(s,label,hetero,elementIndex,postmatchCode,treeLevel="0") ::= <<
<matchSet(...)>
>>

matchSetBang(s,label,elementIndex,postmatchCode) ::= "<super.matchSet(...)>"

// note there is no matchSetTrack because -> rewrites force sets to be
// plain old blocks of alts: (A|B|...|C)

```

```

matchSetRuleRoot(s,label,hetero,elementIndex,debug) ::= <<
<if(label)>
<label>=(<labelType>)input.LT(1);<\n>
<endif>
<super.matchSet(..., postmatchCode={<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>root_0
= (<ASTLabelType>)adaptor.BecomeRoot(<createNodeFromToken(...)>, root_0);}>
>>

// RULE REF AST

/** rule when output=AST */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>adaptor.AddChild(root_0, <label>.Tree);
>>

/** rule! is same as normal rule ref */
ruleRefBang(rule,label,elementIndex,args,scope) ::= "<super.ruleRef(...)>"

/** rule^ */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>root_0 =
(<ASTLabelType>)adaptor.BecomeRoot(<label>.Tree, root_0);
>>

/** x+=rule when output=AST */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>
<listLabel(elem=label+".Tree",...)>
>>

/** x+=rule! when output=AST is a rule ref with list addition */
ruleRefBangAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefBang(...)>
<listLabel(elem=label+".Tree",...)>
>>

/** x+=rule^ */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...)>
<listLabel(elem=label+".Tree",...)>
>>

// WILDCARD AST

wildcard(label,elementIndex) ::= <<

```

```

<super.wildcard(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<label>_tree = (<ASTLabelType>)adaptor.Create(<label>);
adaptor.AddChild(root_0, <label>_tree);
<if(backtracking)>}<endif>
>>

```

```
wildcardBang(label,elementIndex) ::= "<super.wildcard(...)>"
```

```

wildcardRuleRoot(label,elementIndex) ::= <<
<super.wildcard(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<label>_tree = (<ASTLabelType>)adaptor.Create(<label>);
root_0 = (<ASTLabelType>)adaptor.BecomeRoot(<label>_tree, root_0);
<if(backtracking)>}<endif>
>>

```

```

createNodeFromToken(label,hetero) ::= <<
<if(hetero)>
new <hetero>(<label>) <! new MethodNode(IDLabel) !>
<else>
(<ASTLabelType>)adaptor.Create(<label>)
<endif>
>>

```

```

ruleCleanUp() ::= <<
<super.ruleCleanUp()>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<\n><endif>
retval.Tree = (<ASTLabelType>)adaptor.RulePostProcessing(root_0);
adaptor.SetTokenBoundaries(retval.Tree, retval.Start, retval.Stop);
<if(backtracking)>}<endif>
>>

```

Found in path(s):

```
* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-
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```

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*/

/*

New style messages. This file contains the actual layout of the messages emitted by ANTLR.

The text itself is coming out of the languages/*stg files, according to the chosen locale.

This file contains the format that mimicks GCC output.

*/

group gnu;

location(file, line, column) ::= "<file>:<line>:"

message(id, text) ::= "<text> (<id>)"

report(location, message, type) ::= "<location> <type>: <message>"

wantsSingleLineMessage() ::= "true"

Found in path(s):

* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/tool/templates/messages/formats/gnu.stg

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*/

```

```

/** Templates for building ASTs during tree parsing.

```

```

*
* Deal with many combinations. Dimensions are:
* Auto build or rewrite
* no label, label, list label (label/no-label handled together)
* child, root
* token, set, rule, wildcard
*
* Each combination has its own template except that label/no label
* is combined into tokenRef, ruleRef, ...
*/

```

```

group ASTTreeParser;

```

```

/** Add a variable to track last element matched */

```

```

ruleDeclarations() ::= <<
<super.ruleDeclarations()>
<ASTLabelType> _first_0 = null;
<ASTLabelType> _last = null;<\n>
>>

```

```

/** What to emit when there is no rewrite rule. For auto build

```

```

* mode, does nothing.
*/
noRewrite(rewriteBlockLevel, treeLevel) ::= <<
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<if(rewriteMode)>

```



```

retval.Tree = (<ASTLabelType>)_first_0;
if (adaptor.GetParent(retval.Tree)!=null && adaptor.IsNil(adaptor.GetParent(retval.Tree)))
    retval.Tree = (<ASTLabelType>)adaptor.GetParent(retval.Tree);
<endif>
<if(backtracking)></endif>
>>

/** match ^(root children) in tree parser; override here to
 * add tree construction actions.
 */
tree(root, actionsAfterRoot, children, nullableChildList,
    enclosingTreeLevel, treeLevel) ::= <<
_last = (<ASTLabelType>)input.LT(1);
{
<ASTLabelType> _save_last_<treeLevel> = _last;
<ASTLabelType> _first_<treeLevel> = null;
<if(!rewriteMode)>
<ASTLabelType> root_<treeLevel> = (<ASTLabelType>)adaptor.Nil();
<endif>
<root:element()>
<if(rewriteMode)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> )<endif>
<if(root.el.rule)>
if ( _first_<enclosingTreeLevel>==null ) _first_<enclosingTreeLevel> = <root.el.label>.Tree;
<else>
if ( _first_<enclosingTreeLevel>==null ) _first_<enclosingTreeLevel> = <root.el.label>;
<endif>
<endif>
<actionsAfterRoot:element()>
<if(nullableChildList)>
if ( input.LA(1)==TokenTypes.Down ) {
    Match(input, TokenTypes.Down, null); <checkRuleBacktrackFailure()>
    <children:element()>
    Match(input, TokenTypes.Up, null); <checkRuleBacktrackFailure()>
}
<else>
Match(input, TokenTypes.Down, null); <checkRuleBacktrackFailure()>
<children:element()>
Match(input, TokenTypes.Up, null); <checkRuleBacktrackFailure()>
<endif>
<if(!rewriteMode)>
adaptor.AddChild(root_<enclosingTreeLevel>, root_<treeLevel>);
<endif>
_last = _save_last_<treeLevel>;
}<\n>
>>

// TOKEN AST STUFF

```

```

/** ID! and output=AST (same as plain tokenRef) 'cept add
 * setting of _last
 */
tokenRefBang(token,label,elementIndex) ::= <<
  _last = (<ASTLabelType>)input.LT(1);
  <super.tokenRef(...)>
>>

/** ID auto construct */
tokenRef(token,label,elementIndex,hetero) ::= <<
  _last = (<ASTLabelType>)input.LT(1);
  <super.tokenRef(...)>
  <if(!rewriteMode)>
  <if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
  <if(hetero)>
  <label>_tree = new <hetero>(<label>);
  <else>
  <label>_tree = (<ASTLabelType>)adaptor.DupNode(<label>);
  <endif><\n>
  adaptor.AddChild(root_<treeLevel>, <label>_tree);
  <if(backtracking)>}<endif>
  <else> <! rewrite mode !>
  <if(backtracking)>if ( <actions.(actionScope).synpredgate> )<endif>
  if ( _first_<treeLevel>==null ) _first_<treeLevel> = <label>;
  <endif>
>>

/** label+=TOKEN auto construct */
tokenRefAndListLabel(token,label,elementIndex,hetero) ::= <<
  <tokenRef(...)>
  <listLabel(elem=label,...)>
>>

/** ^(ID ...) auto construct */
tokenRefRuleRoot(token,label,elementIndex,hetero) ::= <<
  _last = (<ASTLabelType>)input.LT(1);
  <super.tokenRef(...)>
  <if(!rewriteMode)>
  <if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
  <if(hetero)>
  <label>_tree = new <hetero>(<label>);
  <else>
  <label>_tree = (<ASTLabelType>)adaptor.DupNode(<label>);
  <endif><\n>
  root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(<label>_tree, root_<treeLevel>);
  <if(backtracking)>}<endif>
  <endif>

```

```

>>

/** Match ^(label+=TOKEN ...) auto construct */
tokenRefRuleRootAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRefRuleRoot(...)>
<listLabel(elem=label,...)>
>>

/** Match . wildcard and auto dup the node/subtree */
wildcard(token,label,elementIndex,hetero) ::= <<
  _last = (<ASTLabelType>)input.LT(1);
  <super.wildcard(...)>
  <if(!rewriteMode)>
  <if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
  <label>_tree = (<ASTLabelType>)adaptor.DupTree(<label>);
  adaptor.AddChild(root_<treeLevel>, <label>_tree);
  <if(backtracking)>}<endif>
  <else> <! rewrite mode !>
  <if(backtracking)>if ( <actions.(actionScope).synpredgate> )<endif>
  if ( _first_<treeLevel>==null ) _first_<treeLevel> = <label>;
  <endif>
  >>

// SET AST

matchSet(s,label,hetero,elementIndex,postmatchCode) ::= <<
  _last = (<ASTLabelType>)input.LT(1);
  <super.matchSet(..., postmatchCode={
  <if(!rewriteMode)>
  <if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
  <if(hetero)>
  <label>_tree = new <hetero>(<label>);
  <else>
  <label>_tree = (<ASTLabelType>)adaptor.DupNode(<label>);
  <endif><\n>
  adaptor.AddChild(root_<treeLevel>, <label>_tree);
  <if(backtracking)>}<endif>
  <endif>
  }
  )>
  >>

matchRuleBlockSet(s,label,hetero,elementIndex,postmatchCode,treeLevel="0") ::= <<
  <matchSet(...)>
  <noRewrite()> <! set return tree !>
  >>

matchSetBang(s,label,elementIndex,postmatchCode) ::= <<

```

```

_last = (<ASTLabelType>)input.LT(1);
<super.matchSet(...)>
>>

matchSetRuleRoot(s,label,hetero,elementIndex,debug) ::= <<
<super.matchSet(..., postmatchCode={
<if(!rewriteMode)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<if(hetero)>
<label>_tree = new <hetero>(<label>);
<else>
<label>_tree = (<ASTLabelType>)adaptor.DupNode(<label>);
<endif><\n>
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(<label>_tree, root_<treeLevel>);
<if(backtracking)>}<endif>
<endif>
}
)>
>>

// RULE REF AST

/** rule auto construct */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.ruleRef(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>
<if(!rewriteMode)>
adaptor.AddChild(root_<treeLevel>, <label>.Tree);
<else> <! rewrite mode !>
if ( _first_<treeLevel>==null ) _first_<treeLevel> = <label>.Tree;
<endif>
>>

/** x+=rule auto construct */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>
<listLabel(elem=label+".Tree",...)>
>>

/** ^(rule ...) auto construct */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.ruleRef(...)>
<if(!rewriteMode)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>root_<treeLevel> =
(<ASTLabelType>)adaptor.BecomeRoot(<label>.Tree, root_<treeLevel>);
<endif>

```

```

>>

/** ^(x+=rule ...) auto construct */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...)>
<listLabel(elem=label+".Tree",...)>
>>

/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.ruleRefTrack(...)>
>>

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.ruleRefTrackAndListLabel(...)>
>>

/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.ruleRefRootTrack(...)>
>>

/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.ruleRefRuleRootTrackAndListLabel(...)>
>>

/** Streams for token refs are tree nodes now; override to
 * change NextToken to NextNode.
 */
createRewriteNodeFromElement(token,hetero,scope) ::= <<
<if(hetero)>
new <hetero>(stream_<token>.NextNode())
<else>
stream_<token>.NextNode()
<endif>
>>

ruleCleanUp() ::= <<
<super.ruleCleanUp()>
<if(!rewriteMode)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<\n><endif>
retval.Tree = (<ASTLabelType>)adaptor.RulePostProcessing(root_0);

```

```
<if(backtracking)>><endif>
```

```
<endif>
```

```
>>
```

Found in path(s):

```
* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-  
jar/org/antlr/codegen/templates/CSharp3/ASTTreeParser.stg
```

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```

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```
*/
```

```
/** Template overrides to add debugging to normal Python output;
```

```
* If ASTs are built, then you'll also get ASTDbg.stg loaded.
```

```
*/
```

```
group Dbg;
```

```
@outputFile.imports() ::= <<
```

```
<@super.imports(>
```

```
from antlr3.debug import *
```

```
>>
```

```
@genericParser.args() ::= <<
```

```
debug_socket = kwargs.pop('debug_socket', None)
```

```

port = kwargs.pop('port', None)
>>

@genericParser.init() ::= <<
self.ruleLevel = 0

if self._dbg is None:
    <createListenerAndHandshake()>

>>

createListenerAndHandshake() ::= <<
<if(TREE_PARSER)>
proxy = DebugEventSocketProxy(self, adaptor=self.input.getTreeAdaptor(),
    debug=debug_socket, port=port)<\n>
<else>
proxy = DebugEventSocketProxy(self, debug=debug_socket, port=port)<\n>
<endif>
self.setDebugListener(proxy)
proxy.handshake()

>>

@genericParser.members() ::= <<
<if(grammar.grammarIsRoot)>
ruleNames = [
    "invalidRule", <grammar.allImportedRules:{rST | "<rST.name>"}; wrap="\n  ", separator=", ">
    ]<\n>
<endif>
<if(grammar.grammarIsRoot)> <! grammar imports other grammar(s) !>
def getRuleLevel(self):
    return self.ruleLevel

def incRuleLevel(self):
    self.ruleLevel += 1

def decRuleLevel(self):
    self.ruleLevel -= 1

<if(profile)>
    <ctorForProfilingRootGrammar()>
<else>
    <ctorForRootGrammar()>
<endif>
<ctorForPredefinedListener()>
<else> <! imported grammar !>
def getRuleLevel(self):
    return <grammar.delegators:{g| <g.delegateName()>}>.getRuleLevel()

```

```

def incRuleLevel(self):
    <grammar.delegators:{g| <g:delegateName()>}>.incRuleLevel()

def decRuleLevel(self):
    <grammar.delegators:{g| <g:delegateName()>}>.decRuleLevel()

<ctorForDelegateGrammar()>
<endif>
<if(profile)>
FIXME(2)
public boolean alreadyParsedRule(IntStream input, int ruleIndex) {
    ((Profiler)self._dbg).examineRuleMemoization(input, ruleIndex,
    <grammar.composite.rootGrammar.recognizerName>.ruleNames[ruleIndex]);
    return super.alreadyParsedRule(input, ruleIndex);
}<\n>
FIXME(3)
public void memoize(IntStream input,
    int ruleIndex,
    int ruleStartIndex)
{
    ((Profiler)self._dbg).memoize(input, ruleIndex, ruleStartIndex,
    <grammar.composite.rootGrammar.recognizerName>.ruleNames[ruleIndex]);
    super.memoize(input, ruleIndex, ruleStartIndex);
}<\n>
<endif>
def evalPredicate(self, result, predicate):
    self._dbg.semanticPredicate(result, predicate)
    return result
<\n>
>>

ctorForRootGrammar() ::= <<
<! bug: can't use <@super.members()> cut-n-paste instead !>
<! Same except we add port number and profile stuff if root grammar !>
<!
public <name>(<inputStreamType> input) {
    this(input, DebugEventSocketProxy.DEFAULT_DEBUGGER_PORT, new RecognizerSharedState());
}
public <name>(<inputStreamType> input, int port, RecognizerSharedState state) {
    super(input, state);
    <parserCtorBody()>
    <createListenerAndHandshake()>
    <grammar.directDelegates:{g|<g:delegateName()> = new <g.recognizerName>(input, self._dbg, this.state,
this<grammar.delegators:{g|, <g:delegateName()>}>)}>; separator="\n">
    <@finally()>
}<\n>
!>

```


>>

```
ctorForProfilingRootGrammar() ::= <<
<! bug: can't use <@super.members()> cut-n-paste instead !>
public <name>(<inputStreamType> input) {
    this(input, new Profiler(null), new RecognizerSharedState());
}
public <name>(<inputStreamType> input, DebugEventListener self.dbg, RecognizerSharedState state) {
    super(input, self.dbg, state);
    Profiler p = (Profiler)self.dbg;
    p.setParser(this);
    <parserCtorBody()>
    <grammar.directDelegates:
        {g|<g.delegateName()> = new <g.recognizerName>(input, self.dbg, this.state, this<grammar.delegators:{g|
<g.delegateName()>}>);}; separator="\n">
        <@finally()>
    }
<\n>
>>
```

/** Basically we don't want to set any dbg listeners are root will have it. */

```
ctorForDelegateGrammar() ::= <<
<!
public <name>(<inputStreamType> input, DebugEventListener self.dbg, RecognizerSharedState
state<grammar.delegators:{g| <g.recognizerName> <g.delegateName()>}>) {
    super(input, dbg, state);
    <parserCtorBody()>
    <grammar.directDelegates:
        {g|<g.delegateName()> = new <g.recognizerName>(input, this, this.state<grammar.delegators:{g|
<g.delegateName()>}>);}; separator="\n">
    }<\n>
    !>
>>
```

```
ctorForPredefinedListener() ::= <<
<!
public <name>(<inputStreamType> input, DebugEventListener dbg) {
    <@superClassRef>super(input, dbg, new RecognizerSharedState());<@end>
<if(profile)>
    Profiler p = (Profiler)dbg;
    p.setParser(this);
<endif>
    <parserCtorBody()>
    <grammar.directDelegates:{g|<g.delegateName()> = new <g.recognizerName>(input, self._dbg, this.state,
this<grammar.delegators:{g| <g.delegateName()>}>);}; separator="\n">
    <@finally()>
}<\n>
!>
```

>>

```
@genericParser.superClassName() ::= "Debug<@super.superClassName()>"
```

```
@rule.body() ::= <<
```

```
try:
```

```
self._dbg.enterRule(self.getGrammarFileName(), "<ruleName>")
```

```
if self.getRuleLevel() == 0:
```

```
    self._dbg.commence();
```

```
self.incRuleLevel()
```

```
self._dbg.location(<ruleDescriptor.tree.line>, <ruleDescriptor.tree.column>)
```

```
<@super.body()>
```

```
self._dbg.location(<ruleDescriptor.EORNode.line>, <ruleDescriptor.EORNode.column>)
```

```
finally:
```

```
self._dbg.exitRule(self.getGrammarFileName(), "<ruleName>")
```

```
self.decRuleLevel()
```

```
if self.getRuleLevel() == 0:
```

```
    self._dbg.terminate()
```

>>

```
@synpred.start() ::= "self._dbg.beginBacktrack(self._state.backtracking)"
```

```
@synpred.stop() ::= "self._dbg.endBacktrack(self._state.backtracking, success)"
```

```
// Common debug event triggers used by region overrides below
```

```
enterSubRule() ::=
```

```
"try { self._dbg.enterSubRule(<decisionNumber>);<\n>"
```

```
exitSubRule() ::=
```

```
"} finally {self._dbg.exitSubRule(<decisionNumber>);}<\n>"
```

```
enterDecision() ::=
```

```
"try { self._dbg.enterDecision(<decisionNumber>);<\n>"
```

```
exitDecision() ::=
```

```
"} finally {self._dbg.exitDecision(<decisionNumber>);}<\n>"
```

```
enterAlt(n) ::= "self._dbg.enterAlt(<n>)<\n>"
```

```
// Region overrides that tell various constructs to add debugging triggers
```

```
@block.body() ::= <<
```

```
try:
```

```
self._dbg.enterSubRule(<decisionNumber>)
```

```

    <@super.body()>
finally:
    self._dbg.exitSubRule(<decisionNumber>)
>>

@blockBody.decision() ::= <<
try:
    self._dbg.enterDecision(<decisionNumber>)
    <@super.decision()>
finally:
    self._dbg.exitDecision(<decisionNumber>)
>>

@ruleBlock.decision() ::= <<
try:
    self._dbg.enterDecision(<decisionNumber>)
    <@super.decision()>
finally:
    self._dbg.exitDecision(<decisionNumber>)
>>

@ruleBlockSingleAlt.preatl() ::= "<enterAlt(n=\"1\")>"

@blockSingleAlt.preatl() ::= "<enterAlt(n=\"1\")>"

@positiveClosureBlock.loopBody() ::= <<
try:
    self._dbg.enterSubRule(<decisionNumber>)
    <@super.loopBody()>
finally:
    self._dbg.exitSubRule(<decisionNumber>)<\n>
>>

@positiveClosureBlockLoop.decisionBody() ::= <<
try:
    self._dbg.enterDecision(<decisionNumber>)
    <@super.decisionBody()>
finally:
    self._dbg.exitDecision(<decisionNumber>)
>>

@positiveClosureBlockLoop.earlyExitException() ::=
    "self._dbg.recognitionException(eee)<\n>"

@closureBlock.loopBody() ::= <<
try:
    self._dbg.enterSubRule(<decisionNumber>)
    <@super.loopBody()>

```

```

finally:
    self._dbg.exitSubRule(<decisionNumber><\n>
>>

@closureBlockLoop.decisionBody() ::= <<
try:
    self._dbg.enterDecision(<decisionNumber>
    <@super.decisionBody()>
finally:
    self._dbg.exitDecision(<decisionNumber>)
>>

@altSwitchCase.preatt() ::= "<enterAlt(n=i)>"

@element.prematch() ::=
    "self._dbg.location(<it.line>, <it.pos>)"

@matchSet.mismatchedSetException() ::=
    "self._dbg.recognitionException(mse)"

@dfaState.noViableAltException() ::= "self._dbg.recognitionException(nvae)"

@dfaStateSwitch.noViableAltException() ::= "self._dbg.recognitionException(nvae)"

dfaDecision(decisionNumber,description) ::= <<
try:
    self.isCyclicDecision = True
    <super.dfaDecision(...)>

except NoViableAltException, nvae:
    self._dbg.recognitionException(nvae)
    raise

>>

@cyclicDFA.errorMethod() ::= <<
def error(self, nvae):
    self._dbg.recognitionException(nvae)

>>

/** Force predicate validation to trigger an event */
evalPredicate(pred,description) ::= <<
self.evalPredicate(<pred>,"<description>")
>>

Found in path(s):
* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/codegen/templates/Python/Dbg.stg

```

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

```
/*
```

```
[The "BSD license"]
```

```
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```

```
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```

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```
*/
```

```
group Java implements ANTLRCore;
```

```
javaTypeInitMap ::= [
```

```
  "int": "0",
```

```
  "long": "0",
```

```
  "float": "0.0f",
```

```
  "double": "0.0",
```

```
  "boolean": "false",
```

```
  "byte": "0",
```

```
  "short": "0",
```

```
  "char": "0",
```

```
  default: "null" // anything other than an atomic type
```

```
]
```

```
/** The overall file structure of a recognizer; stores methods for rules  
 * and cyclic DFAs plus support code.
```

```
*/
```

```
outputFile(LEXER,PARSER,TREE_PARSER, actionScope, actions,  
           docComment, recognizer,
```

```

    name, tokens, tokenNames, rules, cyclicDFAs,
    bitsets, buildTemplate, buildAST, rewriteMode, profile,
    backtracking, synpreds, memoize, numRules,
    fileName, ANTLRVersion, generatedTimestamp, trace,
    scopes, superClass, literals) ::=
<<
// $ANTLR <ANTLRVersion> <fileName> <generatedTimestamp>
<actions.(actionScope).header>

<@imports>
import org.antlr.runtime.*;
<if(TREE_PARSER)>
import org.antlr.runtime.tree.*;
<endif>
import java.util.Stack;
import java.util.List;
import java.util.ArrayList;
<if(backtracking)>
import java.util.Map;
import java.util.HashMap;
<endif>
<@end>

<docComment>
<recognizer>
>>

lexer(grammar, name, tokens, scopes, rules, numRules, labelType="CommonToken",
    filterMode, superClass="Lexer") ::= <<
public class <grammar.recognizerName> extends <@superClassName><superClass><@end> {
    <tokens:{public static final int <it.name>=<it.type>;}; separator="\n">
    <scopes:{<if(it.isDynamicGlobalScope)><globalAttributeScope(scope=it)><endif>}>
    <actions.lexer.members>

    // delegates
    <grammar.delegates:
        {g|public <g.recognizerName> <g.delegateName()>;}; separator="\n">
    // delegators
    <grammar.delegators:
        {g|public <g.recognizerName> <g.delegateName()>;}; separator="\n">
    <last(grammar.delegators):{g|public <g.recognizerName> gParent;}>

    public <grammar.recognizerName>() {;} <! needed by subclasses !>
    public <grammar.recognizerName>(CharStream input<grammar.delegators:{g|, <g.recognizerName>
<g.delegateName()>>}) {
        this(input, new RecognizerSharedState()<grammar.delegators:{g|, <g.delegateName()>>});
    }
    public <grammar.recognizerName>(CharStream input, RecognizerSharedState state<grammar.delegators:{g|,

```

```

<g.recognizerName> <g.delegateName(>>) {
    super(input,state);
<if(memoize)>
<if(grammar.grammarIsRoot)>
    state.ruleMemo = new HashMap[<numRules>+1];<\n> <! index from 1..n !>
<endif>
<endif>
    <grammar.directDelegates:
        {g|<g.delegateName(> = new <g.recognizerName>(input, state<trunc(g.delegators):{p|,
<p.delegateName(>>, this);}; separator="\n">
    <grammar.delegators:
        {g|this.<g.delegateName(> = <g.delegateName(>}; separator="\n">
    <last(grammar.delegators):{g|gParent = <g.delegateName(>};>
    }
    public String getGrammarFileName() { return "<fileName>"; }

<if(filterMode)>
    <filteringNextToken(>
<endif>
    <rules; separator="\n\n">

    <synpreds:{p | <lexerSynpred(p)>}>

    <cyclicDFAs:{dfa | protected DFA<dfa.decisionNumber> dfa<dfa.decisionNumber> = new
DFA<dfa.decisionNumber>(this);}; separator="\n">
    <cyclicDFAs:cyclicDFA(> <! dump tables for all DFA !>

}
>>

/** A override of Lexer.nextToken() that backtracks over mTokens() looking
 * for matches. No error can be generated upon error; just rewind, consume
 * a token and then try again. backtracking needs to be set as well.
 * Make rule memoization happen only at levels above 1 as we start mTokens
 * at backtracking==1.
 */
filteringNextToken() ::= <<
public Token nextToken() {
    while (true) {
        if ( input.LA(1)==CharStream.EOF ) {
            Token eof = new CommonToken((CharStream)input,Token.EOF,
                Token.DEFAULT_CHANNEL,
                input.index(),input.index());
            eof.setLine(getLine());
            eof.setCharPositionInLine(getCharPositionInLine());
            return eof;
        }
        state.token = null;

```

```

state.channel = Token.DEFAULT_CHANNEL;
state.tokenStartCharIndex = input.index();
state.tokenStartCharPositionInLine = input.getCharPositionInLine();
state.tokenStartLine = input.getLine();
state.text = null;
try {
    int m = input.mark();
    state.backtracking=1; <!-- means we won't throw slow exception !>
    state.failed=false;
    mTokens();
    state.backtracking=0;
    <!-- mTokens backtracks with synpred at backtracking==2
    and we set the synpredgate to allow actions at level 1. !>
    if ( state.failed ) {
        input.rewind(m);
        input.consume(); <!-- advance one char and try again !>
    }
    else {
        emit();
        return state.token;
    }
}
catch (RecognitionException re) {
    // shouldn't happen in backtracking mode, but...
    reportError(re);
    recover(re);
}
}
}

public void memoize(IntStream input,
    int ruleIndex,
    int ruleStartIndex)
{
    if ( state.backtracking>1 ) super.memoize(input, ruleIndex, ruleStartIndex);
}

public boolean alreadyParsedRule(IntStream input, int ruleIndex) {
    if ( state.backtracking>1 ) return super.alreadyParsedRule(input, ruleIndex);
    return false;
}
>>

actionGate() ::= "state.backtracking==0"

filteringActionGate() ::= "state.backtracking==1"

/** How to generate a parser */

```



```

genericParser(grammar, name, scopes, tokens, tokenNames, rules, numRules,
    bitsets, inputStreamType, superClass,
    ASTLabelType="Object", labelType, members, rewriteElementType,
    filterMode) ::= <<
public class <grammar.recognizerName> extends <@superClassName><superClass><@end> {
<if(grammar.grammarIsRoot)>
    public static final String[] tokenNames = new String[] {
        "\<invalid>", "\<EOR>", "\<DOWN>", "\<UP>", <tokenNames; separator=", ">
    };<\n>
<endif>
    <tokens:{public static final int <it.name>=<it.type>;}; separator="\n">

    // delegates
    <grammar.delegates:
        {g|public <g.recognizerName> <g.delegateName(>);}; separator="\n">
    // delegators
    <grammar.delegators:
        {g|public <g.recognizerName> <g.delegateName(>);}; separator="\n">
    <last(grammar.delegators):{g|public <g.recognizerName> gParent;}>

    <scopes:{<if(it.isDynamicGlobalScope)><globalAttributeScope(scope=it)><endif>}>
    <@members>
    <! WARNING. bug in ST: this is cut-n-paste into Dbg.stg !>
    public <grammar.recognizerName>(<inputStreamType> input<grammar.delegators:{g|, <g.recognizerName>
<g.delegateName(>}&>}) {
        this(input, new RecognizerSharedState()<grammar.delegators:{g|, <g.delegateName(>}&>);
    }
    public <grammar.recognizerName>(<inputStreamType> input, RecognizerSharedState
state<grammar.delegators:{g|, <g.recognizerName> <g.delegateName(>}&>}) {
        super(input, state);
        <parserCtorBody(>
        <grammar.directDelegates:
            {g|<g.delegateName(> = new <g.recognizerName>(input, state<trunc(g.delegators):{p|,
<p.delegateName(>}&>, this);}; separator="\n">
        <grammar.indirectDelegates:{g | <g.delegateName(> = <g.delegator.delegateName(>.<g.delegateName(>);};
separator="\n">
        <last(grammar.delegators):{g|gParent = <g.delegateName(>};}>
    }
    <@end>

    public String[] getTokenNames() { return <grammar.composite.rootGrammar.recognizerName>.tokenNames; }
    public String getGrammarFileName() { return "<fileName>"; }

    <members>

    <rules; separator="\n\n">

    <! generate rule/method definitions for imported rules so they

```

```

appear to be defined in this recognizer. !>
// Delegated rules
<grammar.delegatedRules:{ruleDescriptor|
    public <returnType()> <ruleDescriptor.name>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>)
throws RecognitionException \{ <if(ruleDescriptor.hasReturnValue)>return
<endif><ruleDescriptor.grammar:delegateName()>.<ruleDescriptor.name>(<ruleDescriptor.parameterScope.attribut
es:{a|<a.name>}; separator=", ">); \}}; separator="\n">

    <synpreds:{p | <synpred(p)>}>

    <cyclicDFAs:{dfa | protected DFA<dfa.decisionNumber> dfa<dfa.decisionNumber> = new
DFA<dfa.decisionNumber>(this);}; separator="\n">
    <cyclicDFAs:cyclicDFA()> <! dump tables for all DFA !>

    <bitsets:bitset(name={FOLLOW_<it.name>_in_<it.inName><it.tokenIndex>},
        words64=it.bits)>
}
>>

parserCtorBody() ::= <<
<if(memoize)>
<if(grammar.grammarIsRoot)>
this.state.ruleMemo = new HashMap[<length(grammar.allImportedRules)>+1];<\n> <! index from 1..n !>
<endif>
<endif>
<grammar.delegators:
{g|this.<g:delegateName()> = <g:delegateName()>}; separator="\n">
>>

parser(grammar, name, scopes, tokens, tokenNames, rules, numRules, bitsets,
    ASTLabelType="Object", superClass="Parser", labelType="Token",
    members={<actions.parser.members>}) ::= <<
<genericParser(inputStreamType="TokenStream", rewriteElementType="Token", ...)>
>>

/** How to generate a tree parser; same as parser except the input
 * stream is a different type.
 */
treeParser(grammar, name, scopes, tokens, tokenNames, globalAction, rules,
    numRules, bitsets, labelType={<ASTLabelType>}, ASTLabelType="Object",
superClass={<if(filterMode)><if(buildAST)>TreeRewriter<else>TreeFilter<endif><else>TreeParser<endif>},
members={<actions.treeparser.members>},
    filterMode) ::= <<
<genericParser(inputStreamType="TreeNodeStream", rewriteElementType="Node", ...)>
>>

/** A simpler version of a rule template that is specific to the imaginary
 * rules created for syntactic predicates. As they never have return values

```

- * nor parameters etc..., just give simplest possible method. Don't do
- * any of the normal memoization stuff in here either; it's a waste.
- * As predicates cannot be inlined into the invoking rule, they need to
- * be in a rule by themselves.

*/

```
synpredRule(ruleName, ruleDescriptor, block, description, nakedBlock) ::=
```

```
<<
```

```
// $ANTLR start <ruleName>
```

```
public final void <ruleName>_fragment(<ruleDescriptor.parameterScope:parameterScope(scope=it)>) throws  
RecognitionException {
```

```
    <ruleLabelDefs()>
```

```
<if(trace)>
```

```
    traceIn("<ruleName>_fragment", <ruleDescriptor.index>);
```

```
    try {
```

```
        <block>
```

```
    }
```

```
    finally {
```

```
        traceOut("<ruleName>_fragment", <ruleDescriptor.index>);
```

```
    }
```

```
<else>
```

```
    <block>
```

```
<endif>
```

```
}
```

```
// $ANTLR end <ruleName>
```

```
>>
```

```
synpred(name) ::= <<
```

```
public final boolean <name>() {
```

```
    state.backtracking++;
```

```
    <@start()>
```

```
    int start = input.mark();
```

```
    try {
```

```
        <name>_fragment(); // can never throw exception
```

```
    } catch (RecognitionException re) {
```

```
        System.err.println("impossible: "+re);
```

```
    }
```

```
    boolean success = !state.failed;
```

```
    input.rewind(start);
```

```
    <@stop()>
```

```
    state.backtracking--;
```

```
    state.failed=false;
```

```
    return success;
```

```
}<\n>
```

```
>>
```

```
lexerSynpred(name) ::= <<
```

```
<synpred(name)>
```

```
>>
```

```

ruleMemoization(name) ::= <<
<if(memoize)>
if ( state.backtracking>0 && alreadyParsedRule(input, <ruleDescriptor.index> ) ) { return <ruleReturnValue(); }
<endif>
>>

/** How to test for failure and return from rule */
checkRuleBacktrackFailure() ::= <<
<if(backtracking)>if (state.failed) return <ruleReturnValue();<endif>
>>

/** This rule has failed, exit indicating failure during backtrack */
ruleBacktrackFailure() ::= <<
<if(backtracking)>if (state.backtracking>0) { state.failed=true; return <ruleReturnValue();}<endif>
>>

/** How to generate code for a rule. This includes any return type
 * data aggregates required for multiple return values.
 */
rule(ruleName,ruleDescriptor,block,emptyRule,description,exceptions,finally,memoize) ::= <<
<ruleAttributeScope(scope=ruleDescriptor.ruleScope)>
<returnScope(scope=ruleDescriptor.returnScope)>

// $ANTLR start "<ruleName>"
// <fileName>:<description>
public final <returnType()> <ruleName><(ruleDescriptor.parameterScope:parameterScope(scope=it)>) throws
RecognitionException {
    <if(trace)>traceIn("<ruleName>", <ruleDescriptor.index>);<endif>
    <ruleScopeSetUp()>
    <ruleDeclarations()>
    <ruleLabelDefs()>
    <ruleDescriptor.actions.init>
    <@preamble()>
    try {
        <ruleMemoization(name=ruleName)>
        <block>
        <ruleCleanUp()>
        <(ruleDescriptor.actions.after):execAction()>
    }
    <if(exceptions)>
        <exceptions: { e|<catch(decl=e.decl,action=e.action)><n> }>
    <else>
    <if(!emptyRule)>
    <if(actions.(actionScope).rulecatch)>
        <actions.(actionScope).rulecatch>
    <else>
        catch (RecognitionException re) {

```

```

        reportError(re);
        recover(input,re);
    <@setErrorReturnValue()>
    }<\n>
<endif>
<endif>
<endif>
    finally {
        <if(trace)>traceOut("<ruleName>", <ruleDescriptor.index>);<endif>
        <memoize()>
        <ruleScopeCleanUp()>
        <finally>
    }
    <@postamble()>
    return <ruleReturnValue()>;
}
// $ANTLR end "<ruleName>"
>>

catch(decl,action) ::= <<
catch (<e.decl>) {
    <e.action>
}
>>

ruleDeclarations() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<returnType()> retval = new <returnType()>();
retval.start = input.LT(1);<\n>
<else>
<ruleDescriptor.returnScope.attributes:{ a |
<a.type> <a.name> = <if(a.initValue)><a.initValue><else><initValue(a.type)><endif>;
}>
<endif>
<if(memoize)>
int <ruleDescriptor.name>_startIndex = input.index();
<endif>
>>

ruleScopeSetUp() ::= <<
<ruleDescriptor.useScopes:{<it>_stack.push(new <it>_scope());}; separator="\n">
<ruleDescriptor.ruleScope:{<it.name>_stack.push(new <it.name>_scope());}; separator="\n">
>>

ruleScopeCleanUp() ::= <<
<ruleDescriptor.useScopes:{<it>_stack.pop();}; separator="\n">
<ruleDescriptor.ruleScope:{<it.name>_stack.pop();}; separator="\n">
>>

```

```

ruleLabelDefs() ::= <<
<[ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels,
ruleDescriptor.wildcardTreeLabels,ruleDescriptor.wildcardTreeListLabels]
: {<labelType> <it.label.text>=null;}; separator="\n"
>
<[ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels,ruleDescriptor.wildcardTreeListLabels]
: {List list_<it.label.text>=null;}; separator="\n"
>
<ruleDescriptor.ruleLabels:ruleLabelDef(label=it); separator="\n">
<ruleDescriptor.ruleListLabels: {ll|RuleReturnScope <ll.label.text> = null;}; separator="\n">
>>

```

```

lexerRuleLabelDefs() ::= <<
<[ruleDescriptor.tokenLabels,
ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleLabels]
: {<labelType> <it.label.text>=null;}; separator="\n"
>
<ruleDescriptor.charLabels: {int <it.label.text>;}; separator="\n">
<[ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleListLabels]
: {List list_<it.label.text>=null;}; separator="\n"
>
>>

```

```

ruleReturnValue() ::= <<
<if(!ruleDescriptor.isSynPred)>
<if(ruleDescriptor.hasReturnValue)>
<if(ruleDescriptor.hasSingleReturnValue)>
<ruleDescriptor.singleValueReturnName>
<else>
retval
<endif>
<endif>
<endif>
>>

```

```

ruleCleanUp() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<if(!TREE_PARSER)>
retval.stop = input.LT(-1);<\n>
<endif>
<endif>
>>

```

```

memoize() ::= <<

```

```

<if(memoize)>
<if(backtracking)>
if ( state.backtracking>0 ) { memoize(input, <ruleDescriptor.index>, <ruleDescriptor.name>_StartIndex); }
<endif>
<endif>
>>

```

```

/** How to generate a rule in the lexer; naked blocks are used for
 * fragment rules.
 */
lexerRule(ruleName,nakedBlock,ruleDescriptor,block,memoize) ::= <<
// $ANTLR start "<ruleName>"
public final void m<ruleName>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>) throws
RecognitionException {
    <if(trace)>traceIn("<ruleName>", <ruleDescriptor.index>);<endif>
    <ruleScopeSetUp()>
    <ruleDeclarations()>
    try {
<if(nakedBlock)>
        <ruleMemoization(name=ruleName)>
        <lexerRuleLabelDefs()>
        <ruleDescriptor.actions.init>
        <block><\n>
<else>
        int _type = <ruleName>;
        int _channel = DEFAULT_TOKEN_CHANNEL;
        <ruleMemoization(name=ruleName)>
        <lexerRuleLabelDefs()>
        <ruleDescriptor.actions.init>
        <block>
        <ruleCleanUp()>
        state.type = _type;
        state.channel = _channel;
        <(ruleDescriptor.actions.after):execAction()>
<endif>
    }
    finally {
        <if(trace)>traceOut("<ruleName>", <ruleDescriptor.index>);<endif>
        <ruleScopeCleanUp()>
        <memoize()>
    }
}
// $ANTLR end "<ruleName>"
>>

```

```

/** How to generate code for the implicitly-defined lexer grammar rule
 * that chooses between lexer rules.
 */

```

```

tokensRule(ruleName,nakedBlock,args,block,ruleDescriptor) ::= <<
public void mTokens() throws RecognitionException {
    <block><\n>
}
>>

// S U B R U L E S

/** A (...) subrule with multiple alternatives */
block(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// <fileName>:<description>
int alt<decisionNumber>=<maxAlt>;
<decls>
<@predecision()>
<decision>
<@postdecision()>
<@prebranch()>
switch (alt<decisionNumber>) {
    <alts:altSwitchCase()>
}
<@postbranch()>
>>

/** A rule block with multiple alternatives */
ruleBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// <fileName>:<description>
int alt<decisionNumber>=<maxAlt>;
<decls>
<@predecision()>
<decision>
<@postdecision()>
switch (alt<decisionNumber>) {
    <alts:altSwitchCase()>
}
>>

ruleBlockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
// <fileName>:<description>
<decls>
<@prealt()>
<alts>
<@postalt()>
>>

/** A special case of a (...) subrule with a single alternative */
blockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
// <fileName>:<description>
<decls>

```



```

<@prealt()>
<alts>
<@postalt()>
>>

/** A (..)+ block with 1 or more alternatives */
positiveClosureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// <fileName>:<description>
int cnt<decisionNumber>=0;
<decls>
<@preloop()>
loop<decisionNumber>:
do {
  int alt<decisionNumber>=<maxAlt>;
  <@predecision()>
  <decision>
  <@postdecision()>
  switch (alt<decisionNumber>) {
<alts:altSwitchCase()>
default :
  if ( cnt<decisionNumber> >= 1 ) break loop<decisionNumber>;
  <ruleBacktrackFailure()>
  EarlyExitException eee =
    new EarlyExitException(<decisionNumber>, input);
  <@earlyExitException()>
  throw eee;
}
  cnt<decisionNumber>++;
} while (true);
<@postloop()>
>>

```

```

positiveClosureBlockSingleAlt ::= positiveClosureBlock

```

```

/** A (..)* block with 1 or more alternatives */
closureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::=
<<
// <fileName>:<description>
<decls>
<@preloop()>
loop<decisionNumber>:
do {
  int alt<decisionNumber>=<maxAlt>;
  <@predecision()>
  <decision>
  <@postdecision()>
  switch (alt<decisionNumber>) {

```

```

<alts:altSwitchCase()>
default :
    break loop<decisionNumber>;
}
} while (true);
<@postloop()>
>>

closureBlockSingleAlt ::= closureBlock

/** Optional blocks (x)? are translated to (x|) by before code generation
 * so we can just use the normal block template
 */
optionalBlock ::= block

optionalBlockSingleAlt ::= block

/** A case in a switch that jumps to an alternative given the alternative
 * number. A DFA predicts the alternative and then a simple switch
 * does the jump to the code that actually matches that alternative.
 */
altSwitchCase() ::= <<
case <i> :
    <@prealt()>
    <it>
    break;<\n>
>>

/** An alternative is just a list of elements; at outermost level */
alt(elements,altNum,description,autoAST,outerAlt,treeLevel,rew) ::= <<
// <fileName>:<description>
{
<@declarations()>
<elements:element()>
<rew>
<@cleanup()>
}
>>

/** What to emit when there is no rewrite. For auto build
 * mode, does nothing.
 */
noRewrite(rewriteBlockLevel, treeLevel) ::= ""

// E L E M E N T S

/** Dump the elements one per line */
element() ::= <<

```

```

<@prematch(>
<it.el><\n>
>>

/** match a token optionally with a label in front */
tokenRef(token,label,elementIndex,hetero) ::= <<
<if(label)><label>=(<labelType>)<endif>match(input,<token>,FOLLOW_<token>_in_<ruleName><elementIndex
>); <checkRuleBacktrackFailure(>
>>

/** ids+=ID */
tokenRefAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRef(...)>
<listLabel(elem=label,...)>
>>

listLabel(label,elem) ::= <<
if (list_<label>==null) list_<label>=new ArrayList();
list_<label>.add(<elem>);<\n>
>>

/** match a character */
charRef(char,label) ::= <<
<if(label)>
<label> = input.LA(1);<\n>
<endif>
match(<char>); <checkRuleBacktrackFailure(>
>>

/** match a character range */
charRangeRef(a,b,label) ::= <<
<if(label)>
<label> = input.LA(1);<\n>
<endif>
matchRange(<a>,<b>); <checkRuleBacktrackFailure(>
>>

/** For now, sets are interval tests and must be tested inline */
matchSet(s,label,elementIndex,postmatchCode="") ::= <<
<if(label)>
<if(LEXER)>
<label>= input.LA(1);<\n>
<else>
<label>=(<labelType>)input.LT(1);<\n>
<endif>
<endif>
<endif>
if ( <s> ) {
    input.consume();

```

```

    <postmatchCode>
<if(!LEXER)>
    state.errorRecovery=false;
<endif>
    <if(backtracking)>state.failed=false;<endif>
}
else {
    <ruleBacktrackFailure()>
    MismatchedSetException mse = new MismatchedSetException(null,input);
    <@mismatchedSetException()>
<if(LEXER)>
    recover(mse);
    throw mse;
<else>
    throw mse;
    <!-- use following code to make it recover inline; remove throw mse;
    recoverFromMismatchedSet(input,mse,FOLLOW_set_in_<ruleName><elementIndex>);
    !>
<endif>
}<\n>
>>

```

```

matchRuleBlockSet ::= matchSet

```

```

matchSetAndListLabel(s,label,elementIndex,postmatchCode) ::= <<
<matchSet(...)>
<listLabel(elem=label,...)>
>>

```

```

/** Match a string literal */
lexerStringRef(string,label,elementIndex="0") ::= <<
<if(label)>
int <label>Start = getCharIndex();
match(<string>); <checkRuleBacktrackFailure()>
int <label>StartLine<elementIndex> = getLine();
int <label>StartCharPos<elementIndex> = getCharPositionInLine();
<label> = new <labelType>(input, Token.INVALID_TOKEN_TYPE, Token.DEFAULT_CHANNEL, <label>Start,
getCharIndex()-1);
<label>.setLine(<label>StartLine<elementIndex>);
<label>.setCharPositionInLine(<label>StartCharPos<elementIndex>);
<else>
match(<string>); <checkRuleBacktrackFailure()><\n>
<endif>
>>

```

```

wildcard(label,elementIndex) ::= <<
<if(label)>
<label>=(<labelType>)input.LT(1);<\n>

```

```

<endif>
matchAny(input); <checkRuleBacktrackFailure()>
>>

wildcardAndListLabel(label,elementIndex) ::= <<
<wildcard(...)>
<listLabel(elem=label,...)>
>>

/** Match . wildcard in lexer */
wildcardChar(label, elementIndex) ::= <<
<if(label)>
<label> = input.LA(1);<\n>
<endif>
matchAny(); <checkRuleBacktrackFailure()>
>>

wildcardCharListLabel(label, elementIndex) ::= <<
<wildcardChar(...)>
<listLabel(elem=label,...)>
>>

/** Match a rule reference by invoking it possibly with arguments
 * and a return value or values. The 'rule' argument was the
 * target rule name, but now is type Rule, whose toString is
 * same: the rule name. Now though you can access full rule
 * descriptor stuff.
 */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
pushFollow(FOLLOW_<rule.name>_in_<ruleName><elementIndex>);
<if(label)><label>=<endif><if(scope)><scope.delegateName()>.<endif><rule.name>(<args; separator=", ">);<\n>
state._fsp--;
<checkRuleBacktrackFailure()>
>>

/** ids+=r */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>
<listLabel(elem=label,...)>
>>

/** A lexer rule reference.
 *
 * The 'rule' argument was the target rule name, but now
 * is type Rule, whose toString is same: the rule name.
 * Now though you can access full rule descriptor stuff.
 */
lexerRuleRef(rule,label,args,elementIndex,scope) ::= <<

```

```

<if(label)>
int <label>Start<elementIndex> = getCharIndex();
int <label>StartLine<elementIndex> = getLine();
int <label>StartCharPos<elementIndex> = getCharPositionInLine();
<if(scope)><scope:delegateName().<endif>m<rule.name><(args; separator=", ">);
<checkRuleBacktrackFailure()>
<label> = new <labelType>(input, Token.INVALID_TOKEN_TYPE, Token.DEFAULT_CHANNEL,
<label>Start<elementIndex>, getCharIndex()-1);
<label>.setLine(<label>StartLine<elementIndex>);
<label>.setCharPositionInLine(<label>StartCharPos<elementIndex>);
<else>
<if(scope)><scope:delegateName().<endif>m<rule.name><(args; separator=", ">);
<checkRuleBacktrackFailure()>
<endif>
>>

/** i+=INT in lexer */
lexerRuleRefAndListLabel(rule,label,args,elementIndex,scope) ::= <<
<lexerRuleRef(...)>
<listLabel(elem=label,...)>
>>

/** EOF in the lexer */
lexerMatchEOF(label,elementIndex) ::= <<
<if(label)>
int <label>Start<elementIndex> = getCharIndex();
int <label>StartLine<elementIndex> = getLine();
int <label>StartCharPos<elementIndex> = getCharPositionInLine();
match(EOF); <checkRuleBacktrackFailure()>
<labelType> <label> = new <labelType>(input, EOF, Token.DEFAULT_CHANNEL, <label>Start<elementIndex>,
getCharIndex()-1);
<label>.setLine(<label>StartLine<elementIndex>);
<label>.setCharPositionInLine(<label>StartCharPos<elementIndex>);
<else>
match(EOF); <checkRuleBacktrackFailure()>
<endif>
>>

/** match ^(root children) in tree parser */
tree(root, actionsAfterRoot, children, nullableChildList,
enclosingTreeLevel, treeLevel) ::= <<
<root:element()>
<actionsAfterRoot:element()>
<if(nullableChildList)>
if ( input.LA(1)==Token.DOWN ) {
match(input, Token.DOWN, null); <checkRuleBacktrackFailure()>
<children:element()>
match(input, Token.UP, null); <checkRuleBacktrackFailure()>

```

```

}
<else>
match(input, Token.DOWN, null); <checkRuleBacktrackFailure()>
<children:element()>
match(input, Token.UP, null); <checkRuleBacktrackFailure()>
<endif>
>>

/** Every predicate is used as a validating predicate (even when it is
 * also hoisted into a prediction expression).
 */
validateSemanticPredicate(pred,description) ::= <<
if ( !(<evalPredicate(...)> ) ) {
    <ruleBacktrackFailure()>
    throw new FailedPredicateException(input, "<ruleName>", "<description>");
}
>>

// F i x e d D F A (if-then-else)

dfaState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
int LA<decisionNumber>_<stateNumber> = input.LA(<k>);<\n>
<edges; separator="\nelse ">
else {
<if(eotPredictsAlt)>
    alt<decisionNumber>=<eotPredictsAlt>;
<else>
    <ruleBacktrackFailure()>
    NoViableAltException nvae =
        new NoViableAltException("<description>", <decisionNumber>, <stateNumber>, input);<\n>
    <@noViableAltException()>
    throw nvae;<\n>
<endif>
}
>>

/** Same as a normal DFA state except that we don't examine lookahead
 * for the bypass alternative. It delays error detection but this
 * is faster, smaller, and more what people expect. For (X)? people
 * expect "if ( LA(1)==X ) match(X);" and that's it.
 */
dfaOptionalBlockState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
int LA<decisionNumber>_<stateNumber> = input.LA(<k>);<\n>
<edges; separator="\nelse ">
>>

/** A DFA state that is actually the loopback decision of a closure
 * loop. If end-of-token (EOT) predicts any of the targets then it

```

```

* should act like a default clause (i.e., no error can be generated).
* This is used only in the lexer so that for ('a'* on the end of a rule
* anything other than 'a' predicts exiting.
*/
dfaLoopbackState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
int LA<decisionNumber>_<stateNumber> = input.LA(<k>);<\n>
<edges; separator="\nelse "><\n>
<if(eotPredictsAlt)>
<if(!edges)>
alt<decisionNumber>=<eotPredictsAlt>; <! if no edges, don't gen ELSE !>
<else>
else {
    alt<decisionNumber>=<eotPredictsAlt>;
}<\n>
<endif>
<endif>
>>

/** An accept state indicates a unique alternative has been predicted */
dfaAcceptState(alt) ::= "alt<decisionNumber>=<alt>;"

/** A simple edge with an expression. If the expression is satisfied,
* enter to the target state. To handle gated productions, we may
* have to evaluate some predicates for this edge.
*/
dfaEdge(labelExpr, targetState, predicates) ::= <<
if ( (<labelExpr> <if(predicates)>&& (<predicates>)<endif> ) {
    <targetState>
}
>>

// F i x e d D F A (switch case)

/** A DFA state where a SWITCH may be generated. The code generator
* decides if this is possible: CodeGenerator.canGenerateSwitch().
*/
dfaStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch ( input.LA(<k> ) ) {
<edges; separator="\n">
default:
<if(eotPredictsAlt)>
    alt<decisionNumber>=<eotPredictsAlt>;
<else>
    <ruleBacktrackFailure()>
    NoViableAltException nvae =
        new NoViableAltException("<description>", <decisionNumber>, <stateNumber>, input);<\n>
    <@noViableAltException()>
    throw nvae;<\n>

```



```

<endif>
}<\n>
>>

dfaOptionalBlockStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch ( input.LA(<k>)) {
    <edges; separator="\n">
}<\n>
>>

dfaLoopbackStateSwitch(k, edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch ( input.LA(<k>)) {
<edges; separator="\n"><\n>
<if(eotPredictsAlt)>
default:
    alt<decisionNumber>=<eotPredictsAlt>;
    break;<\n>
<endif>
}<\n>
>>

dfaEdgeSwitch(labels, targetState) ::= <<
<labels:{ case <it>:}; separator="\n">
{
    <targetState>
}
break;
>>

// C y c l i c D F A

/** The code to initiate execution of a cyclic DFA; this is used
 * in the rule to predict an alt just like the fixed DFA case.
 * The <name> attribute is inherited via the parser, lexer, ...
 */
dfaDecision(decisionNumber,description) ::= <<
alt<decisionNumber> = dfa<decisionNumber>.predict(input);
>>

/* Dump DFA tables as run-length-encoded Strings of octal values.
 * Can't use hex as compiler translates them before compilation.
 * These strings are split into multiple, concatenated strings.
 * Java puts them back together at compile time thankfully.
 * Java cannot handle large static arrays, so we're stuck with this
 * encode/decode approach. See analysis and runtime DFA for
 * the encoding methods.
 */
cyclicDFA(dfa) ::= <<

```

```

static final String DFA<dfa.decisionNumber>_eotS =
    "<dfa.javaCompressedEOT; wrap=\""+\n  \>";
static final String DFA<dfa.decisionNumber>_eofS =
    "<dfa.javaCompressedEOF; wrap=\""+\n  \>";
static final String DFA<dfa.decisionNumber>_minS =
    "<dfa.javaCompressedMin; wrap=\""+\n  \>";
static final String DFA<dfa.decisionNumber>_maxS =
    "<dfa.javaCompressedMax; wrap=\""+\n  \>";
static final String DFA<dfa.decisionNumber>_acceptS =
    "<dfa.javaCompressedAccept; wrap=\""+\n  \>";
static final String DFA<dfa.decisionNumber>_specialS =
    "<dfa.javaCompressedSpecial; wrap=\""+\n  \>";
static final String[] DFA<dfa.decisionNumber>_transitionS = {
    <dfa.javaCompressedTransition: {s|<s; wrap=\""+\n\>"; separator=",\n">
};

```

```

static final short[] DFA<dfa.decisionNumber>_eot =
DFA.unpackEncodedString(DFA<dfa.decisionNumber>_eotS);
static final short[] DFA<dfa.decisionNumber>_eof =
DFA.unpackEncodedString(DFA<dfa.decisionNumber>_eofS);
static final char[] DFA<dfa.decisionNumber>_min =
DFA.unpackEncodedStringToUnsignedChars(DFA<dfa.decisionNumber>_minS);
static final char[] DFA<dfa.decisionNumber>_max =
DFA.unpackEncodedStringToUnsignedChars(DFA<dfa.decisionNumber>_maxS);
static final short[] DFA<dfa.decisionNumber>_accept =
DFA.unpackEncodedString(DFA<dfa.decisionNumber>_acceptS);
static final short[] DFA<dfa.decisionNumber>_special =
DFA.unpackEncodedString(DFA<dfa.decisionNumber>_specialS);
static final short[][] DFA<dfa.decisionNumber>_transition;

```

```

static {
    int numStates = DFA<dfa.decisionNumber>_transitionS.length;
    DFA<dfa.decisionNumber>_transition = new short[numStates][];
    for (int i=0; i<numStates; i++) {
        DFA<dfa.decisionNumber>_transition[i] =
DFA.unpackEncodedString(DFA<dfa.decisionNumber>_transitionS[i]);
    }
}

```

```

class DFA<dfa.decisionNumber> extends DFA {

    public DFA<dfa.decisionNumber>(BaseRecognizer recognizer) {
        this.recognizer = recognizer;
        this.decisionNumber = <dfa.decisionNumber>;
        this.eot = DFA<dfa.decisionNumber>_eot;
        this.eof = DFA<dfa.decisionNumber>_eof;
        this.min = DFA<dfa.decisionNumber>_min;
        this.max = DFA<dfa.decisionNumber>_max;
    }
}

```

```

    this.accept = DFA<dfa.decisionNumber>_accept;
    this.special = DFA<dfa.decisionNumber>_special;
    this.transition = DFA<dfa.decisionNumber>_transition;
}
public String getDescription() {
    return "<dfa.description>";
}
<@errorMethod()>
<if(dfa.specialStateSTs)>
    public int specialStateTransition(int s, IntStream _input) throws NoViableAltException {
        <if(LEXER)>
            IntStream input = _input;
        <endif>
        <if(PARSER)>
            TokenStream input = (TokenStream)_input;
        <endif>
        <if(TREE_PARSER)>
            TreeNodeStream input = (TreeNodeStream)_input;
        <endif>
        int _s = s;
        switch ( s ) {
            <dfa.specialStateSTs:{state |
                case <i0> : <! compressed special state numbers 0..n-1 !>
                    <state>; separator="\n">
            }
        <if(backtracking)>
            if (state.backtracking>0) {state.failed=true; return -1;}<\n>
        <endif>
        NoViableAltException nvae =
            new NoViableAltException(getDescription(), <dfa.decisionNumber>, _s, input);
        error(nvae);
        throw nvae;
    }<\n>
    <endif>
}<\n>
>>

/** A state in a cyclic DFA; it's a special state and part of a big switch on
 * state.
 */
cyclicDFAState(decisionNumber,stateNumber,edges,needErrorClause,semPredState) ::= <<
int LA<decisionNumber>_<stateNumber> = input.LA(1);<\n>
<if(semPredState)> <! get next lookahead symbol to test edges, then rewind !>
int index<decisionNumber>_<stateNumber> = input.index();
input.rewind();<\n>
<endif>
s = -1;
<edges; separator="\nelse ">

```

```

<if(semPredState)> <! return input cursor to state before we rewound !>
input.seek(index<decisionNumber>_<stateNumber>);<\n>
<endif>
if ( s>=0 ) return s;
break;
>>

/** Just like a fixed DFA edge, test the lookahead and indicate what
 * state to jump to next if successful.
 */
cyclicDFAEdge(labelExpr, targetStateNumber, edgeNumber, predicates) ::= <<
if ( (<labelExpr> <if(predicates)>&& (<predicates>)<endif> ) { s = <targetStateNumber>;}<\n>
>>

/** An edge pointing at end-of-token; essentially matches any char;
 * always jump to the target.
 */
eotDFAEdge(targetStateNumber,edgeNumber, predicates) ::= <<
s = <targetStateNumber>;<\n>
>>

// D F A E X P R E S S I O N S

andPredicates(left,right) ::= "(<left>&&<right>)"

orPredicates(operands) ::= "(<first(operands)><rest(operands):{ o | ||<o> }>)"

notPredicate(pred) ::= "!(<evalPredicate(...)>)"

evalPredicate(pred,description) ::= "(<pred>)"

evalSynPredicate(pred,description) ::= "<pred>()"

lookaheadTest(atom,k,atomAsInt) ::= "LA<decisionNumber>_<stateNumber>==<atom>"

/** Sometimes a lookahead test cannot assume that LA(k) is in a temp variable
 * somewhere. Must ask for the lookahead directly.
 */
isolatedLookaheadTest(atom,k,atomAsInt) ::= "input.LA(<k>)==<atom>"

lookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= <<
(LA<decisionNumber>_<stateNumber>)\>=<lower> && LA<decisionNumber>_<stateNumber>\<=<upper>
>>

isolatedLookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= "(input.LA(<k>))\>=<lower>
&& input.LA(<k>)\<=<upper>)"

```

```

setTest(ranges) ::= "<ranges; separator=\\|\\>"

// A T T R I B U T E S

globalAttributeScope(scope) ::= <<
<if(scope.attributes)>
protected static class <scope.name>_scope {
    <scope.attributes:{<it.decl>;}; separator="\n">
}
protected Stack <scope.name>_stack = new Stack();<\n>
<endif>
>>

ruleAttributeScope(scope) ::= <<
<if(scope.attributes)>
protected static class <scope.name>_scope {
    <scope.attributes:{<it.decl>;}; separator="\n">
}
protected Stack <scope.name>_stack = new Stack();<\n>
<endif>
>>

returnStructName() ::= "<it.name>_return"

returnType() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<ruleDescriptor.grammar.recognizerName>.<ruleDescriptor:returnStructName()>
<else>
<if(ruleDescriptor.hasSingleReturnValue)>
<ruleDescriptor.singleValueReturnType>
<else>
void
<endif>
<endif>
>>

/** Generate the Java type associated with a single or multiple return
 * values.
 */
ruleLabelType(referencedRule) ::= <<
<if(referencedRule.hasMultipleReturnValues)>
<referencedRule.grammar.recognizerName>.<referencedRule.name>_return
<else>
<if(referencedRule.hasSingleReturnValue)>
<referencedRule.singleValueReturnType>
<else>
void
<endif>
>>

```

```

<endif>
>>

delegateName() ::= <<
<if(it.label)><it.label><else>g<it.name><endif>
>>

/** Using a type to init value map, try to init a type; if not in table
 * must be an object, default value is "null".
 */
initValue(typeName) ::= <<
<javaTypeInitMap.(typeName)>
>>

/** Define a rule label including default value */
ruleLabelDef(label) ::= <<
<ruleLabelType(referencedRule=label.referencedRule)> <label.label.text> =
<initValue(typeName=ruleLabelType(referencedRule=label.referencedRule))>;<\n>
>>

/** Define a return struct for a rule if the code needs to access its
 * start/stop tokens, tree stuff, attributes, ... Leave a hole for
 * subgroups to stick in members.
 */
returnScope(scope) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
public static class <ruleDescriptor:returnStructName()> extends
<if(TREE_PARSER)>Tree<else>Parser<endif>RuleReturnScope {
  <scope.attributes:{public <it.decl>;}; separator="\n">
  <@ruleReturnMembers()>
};
<endif>
>>

parameterScope(scope) ::= <<
<scope.attributes:{<it.decl>}; separator=", ">
>>

parameterAttributeRef(attr) ::= "<attr.name>"
parameterSetAttributeRef(attr,expr) ::= "<attr.name> =<expr>;"

scopeAttributeRef(scope,attr,index,negIndex) ::= <<
<if(negIndex)>
((<scope>_scope)<scope>_stack.elementAt(<scope>_stack.size()-<negIndex>-1)).<attr.name>
<else>
<if(index)>
((<scope>_scope)<scope>_stack.elementAt(<index>)).<attr.name>
<else>

```

```

((<scope>_scope)<scope>_stack.peek()).<attr.name>
<endif>
<endif>
>>

scopeSetAttributeRef(scope,attr,expr,index,negIndex) ::= <<
<if(negIndex)>
((<scope>_scope)<scope>_stack.elementAt(<scope>_stack.size()-<negIndex>-1)).<attr.name> =<expr>;
<else>
<if(index)>
((<scope>_scope)<scope>_stack.elementAt(<index>)).<attr.name> =<expr>;
<else>
((<scope>_scope)<scope>_stack.peek()).<attr.name> =<expr>;
<endif>
<endif>
>>

/** $x is either global scope or x is rule with dynamic scope; refers
 * to stack itself not top of stack. This is useful for predicates
 * like {$function.size()>0 && $function::name.equals("foo")}?
 */
isolatedDynamicScopeRef(scope) ::= "<scope>_stack"

/** reference an attribute of rule; might only have single return value */
ruleLabelRef(referencedRule,scope,attr) ::= <<
<if(referencedRule.hasMultipleReturnValues)>
(<scope>!=null?<scope>.<attr.name>:<initValue(attr.type)>)
<else>
<scope>
<endif>
>>

returnAttributeRef(ruleDescriptor,attr) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
retval.<attr.name>
<else>
<attr.name>
<endif>
>>

returnSetAttributeRef(ruleDescriptor,attr,expr) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
retval.<attr.name> =<expr>;
<else>
<attr.name> =<expr>;
<endif>
>>

```

```

/** How to translate $tokenLabel */
tokenLabelRef(label) ::= "<label>"

/** ids+=ID {$ids} or e+=expr {$e} */
listLabelRef(label) ::= "list_<label>"

// not sure the next are the right approach

tokenLabelPropertyRef_text(scope,attr) ::= "(<scope>!=null?<scope>.getText():null)"
tokenLabelPropertyRef_type(scope,attr) ::= "(<scope>!=null?<scope>.getType():0)"
tokenLabelPropertyRef_line(scope,attr) ::= "(<scope>!=null?<scope>.getLine():0)"
tokenLabelPropertyRef_pos(scope,attr) ::= "(<scope>!=null?<scope>.getCharPositionInLine():0)"
tokenLabelPropertyRef_channel(scope,attr) ::= "(<scope>!=null?<scope>.getChannel():0)"
tokenLabelPropertyRef_index(scope,attr) ::= "(<scope>!=null?<scope>.getTokenIndex():0)"
tokenLabelPropertyRef_tree(scope,attr) ::= "<scope>_tree"
tokenLabelPropertyRef_int(scope,attr) ::= "(<scope>!=null?Integer.valueOf(<scope>.getText()):0)"

ruleLabelPropertyRef_start(scope,attr) ::= "(<scope>!=null?((<labelType><scope>.start):null)"
ruleLabelPropertyRef_stop(scope,attr) ::= "(<scope>!=null?((<labelType><scope>.stop):null)"
ruleLabelPropertyRef_tree(scope,attr) ::= "(<scope>!=null?((<ASTLabelType><scope>.tree):null)"
ruleLabelPropertyRef_text(scope,attr) ::= <<
<if(TREE_PARSER)>
(<scope>!=null?(input.getTokenStream().toString(
input.getTreeAdaptor().getTokenStartIndex(<scope>.start),
input.getTreeAdaptor().getTokenStopIndex(<scope>.start)))):null)
<else>
(<scope>!=null?input.toString(<scope>.start,<scope>.stop):null)
<endif>
>>

ruleLabelPropertyRef_st(scope,attr) ::= "(<scope>!=null?<scope>.st:null)"

/** Isolated $RULE ref ok in lexer as it's a Token */
lexerRuleLabel(label) ::= "<label>"

lexerRuleLabelPropertyRef_type(scope,attr) ::=
"(<scope>!=null?<scope>.getType():0)"
lexerRuleLabelPropertyRef_line(scope,attr) ::=
"(<scope>!=null?<scope>.getLine():0)"
lexerRuleLabelPropertyRef_pos(scope,attr) ::=
"(<scope>!=null?<scope>.getCharPositionInLine():-1)"
lexerRuleLabelPropertyRef_channel(scope,attr) ::=
"(<scope>!=null?<scope>.getChannel():0)"
lexerRuleLabelPropertyRef_index(scope,attr) ::=
"(<scope>!=null?<scope>.getTokenIndex():0)"
lexerRuleLabelPropertyRef_text(scope,attr) ::=
"(<scope>!=null?<scope>.getText():null)"

```



```

lexerRuleLabelPropertyRef_int(scope,attr) ::=
  "<scope>!=null?Integer.valueOf(<scope>.getText()):0)"

// Somebody may ref $template or $tree or $stop within a rule:
rulePropertyRef_start(scope,attr) ::= "(<labelType>)retval.start"
rulePropertyRef_stop(scope,attr) ::= "(<labelType>)retval.stop"
rulePropertyRef_tree(scope,attr) ::= "(<ASTLabelType>)retval.tree"
rulePropertyRef_text(scope,attr) ::= <<
<if(TREE_PARSER)>
input.getTokenStream().toString(
  input.getTreeAdaptor().getTokenStartIndex(retval.start),
  input.getTreeAdaptor().getTokenStopIndex(retval.start))
<else>
input.toString(retval.start,input.LT(-1))
<endif>
>>
rulePropertyRef_st(scope,attr) ::= "retval.st"

lexerRulePropertyRef_text(scope,attr) ::= "getText()"
lexerRulePropertyRef_type(scope,attr) ::= "_type"
lexerRulePropertyRef_line(scope,attr) ::= "state.tokenStartLine"
lexerRulePropertyRef_pos(scope,attr) ::= "state.tokenStartCharPositionInLine"
lexerRulePropertyRef_index(scope,attr) ::= "-1" // undefined token index in lexer
lexerRulePropertyRef_channel(scope,attr) ::= "_channel"
lexerRulePropertyRef_start(scope,attr) ::= "state.tokenStartCharIndex"
lexerRulePropertyRef_stop(scope,attr) ::= "(getCharIndex()-1)"
lexerRulePropertyRef_int(scope,attr) ::= "Integer.valueOf(<scope>.getText())"

// setting $st and $tree is allowed in local rule. everything else
// is flagged as error
ruleSetPropertyRef_tree(scope,attr,expr) ::= "retval.tree =<expr>;"
ruleSetPropertyRef_st(scope,attr,expr) ::= "retval.st =<expr>;"

/** How to execute an action (only when not backtracking) */
execAction(action) ::= <<
<if(backtracking)>
if ( <actions.(actionScope).synpredgate> ) {
  <action>
}
<else>
<action>
<endif>
>>

/** How to always execute an action even when backtracking */
execForcedAction(action) ::= "<action>"

// M I S C (properties, etc...)

```

```
bitset(name, words64) ::= <<
public static final BitSet <name> = new BitSet(new long[] { <words64: { <it>L }; separator="," > }); <\n>
>>
```

```
codeFileExtension() ::= ".java"
```

```
true() ::= "true"
```

```
false() ::= "false"
```

Found in path(s):

```
* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/codegen/templates/Java/Java.stg
```

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

```
/*
```

```
[The "BSD licence"]
```

```
Copyright (c) 2005-2006 Terence Parr
```

```
All rights reserved.
```

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```
*/
```

```
group Cpp implements ANTLRCore;
```

```
cppTypeInitMap ::= [
```

```
"int": "0",
```

```
"long": "0",
```

```
"float": "0.0",
```

```
"double": "0.0",
```

```

"bool":"false",
"byte":"0",
"short":"0",
"char":"0",
default:"0" // anything other than an atomic type
]

// What we generate lexer/parser/treeparser, used a suffix in a few places
generatedType() ::= <<
<if(LEXER)>Lexer<endif><if(PARSER)>Parser<endif><if(TREE_PARSER)>TreeParser<endif>
>>

leadIn(type) ::=
<<
/** \file
*
* This <type> file was generated by ANTLR version <ANTLRVersion>
*
* - From the grammar source file : <fileName>
* - On : <generatedTimestamp>
<if(LEXER)>
* - for the lexer : <name><\n>
<endif>
<if(PARSER)>
* - for the parser : <name><\n>
<endif>
<if(TREE_PARSER)>
* - for the tree parser : <name><\n>
<endif>
*
* Edit at your own peril.
*/
>>

standardHeaders() ::=
<<
#include \<antlr3/<generatedType(>.h>

<if(profile)>
#warning "No profiling support.."
<endif>
<if(TREE_PARSER)>
#warning "No tree parsing yet..."
<endif>
>>

/** The overall file structure of a recognizer; stores methods for rules
* and cyclic DFAs plus support code.

```

```

*/
outputFile(LEXER,PARSER,TREE_PARSER, actionScope, actions,
    docComment, recognizer,
    name, tokens, tokenNames, rules, cyclicDFAs,
    bitsets, buildTemplate, profile,
    backtracking, synpreds, memoize, numRules,
    fileName, ANTLRVersion, generatedTimestamp, trace,
    scopes, superClass) ::=
<<
<leadIn("C++ source")>
<@includes>
#include "<name><headerFileExtension()>"
<@end>
<if(actions.(actionScope).header)>
// Header action start =====
<actions.(actionScope).header>
// Header action end =====
<endif>

<headerAction>

<standardHeaders()>

<docComment>
<recognizer>
>>
parserHeaderFile() ::= <<
>>
treeParserHeaderFile() ::= <<
>>
lexerHeaderFile() ::= <<
template<typename StreamType, typename TokenType, typename TokenBuilder>
class <name> : public antlr3::Lexer<StreamType,TokenType,TokenBuilder> {
// carry over general types
typedef typename StreamType::position_type position_type;
typedef typename StreamType::char_type char_type;

typedef antlr3::tokenid_type      tokenid_type;
typedef antlr3::channel_type      channel_type;
typedef antlr3::decision_type     decision_type;
// exception shorthands
typedef antlr3::MismatchException<position_type,char_type>      MismatchException;
typedef antlr3::MismatchedRangeException<position_type,char_type> MismatchedRangeException;
typedef antlr3::MismatchedSetException<position_type,char_type> MismatchedSetException;
typedef antlr3::EarlyExitException<position_type>      EarlyExitException;
typedef antlr3::NoViableAltException<position_type>    NoViableAltException;
<if(backtracking)>
// @TODO backtracking ruleMemo = new HashMap<<numRules>+1>;<n> <! index from 1..n !>

```

```

<endif>

public:
<tokens:{ static const tokenid_type <tokenPrefix()><it.name> = <it.type>;}; separator="\n">
<scopes:{ <if(it.isDynamicGlobalScope)><globalAttributeScope(scope=it)><endif>}>
<actions.lexer.members>

<name>(StreamType* input)
: antlr3::Lexer<<StreamType,TokenType,TokenBuilder>(input)
{
}

<!if(filterMode)!>
<!filteringNextToken()!>
<!endif!>
<rules; separator="\n\n">

// syn preds
<synpreds:{p | <lexerSynpred(p)>}>

// cyclic dfa's
<cyclicDFAs:{ dfa | DFA<dfa.decisionNumber> dfa<dfa.decisionNumber> = new
DFA<dfa.decisionNumber>(this);}; separator="\n">
// dfa tables..
}; // class <name><\n>
>>

headerFile( LEXER,
    PARSER,
    TREE_PARSER,
    actionScope,
    actions,
    docComment,
    recognizer,
    name,
    tokens,
    tokenNames,
    rules,
    cyclicDFAs,
    bitsets,
    buildTemplate,
    profile,
    backtracking,
    synpreds,
    memoize,
    numRules,
    fileName,
    ANTLRVersion,

```

```

        generatedTimestamp,
        trace,
        scopes,
        superClass
    ) ::=
<<
#ifndef _<name>_H
#define _<name>_H
<leadIn("C++ header")>
<actions.(actionScope).headerfile>

<@includes>
<standardHeaders()>
<@end>

<if(LEXER)>
<lexerHeaderFile()>
<endif>
<if(PARSER)>
<parserHeaderFile()>
<endif>
<if(TREE_PARSER)>
<treeParserHeaderFile()>
<endif>

#endif // _<name>_H<\n>
>>

lexer(grammar, name, tokens, scopes, rules, numRules, labelType="Token",
    filterMode) ::= <<

<cyclicDFAs:cyclicDFA()> <! dump tables for all DFA !>

>>

filteringNextToken() ::= <<
/** A override of Lexer.nextToken() that backtracks over mTokens() looking
 * for matches. No error can be generated upon error; just rewind, consume
 * a token and then try again. backtracking needs to be set as well.
 * Make rule memoization happen only at levels above 1 as we start mTokens
 * at backtracking==1.
 */
public Token nextToken() {
    while (true) {
        if ( input.LA(1)==CharStream.EOF ) {
            return Token.EOF_TOKEN;
        }

```

```

this->token = 0;
tokenStartCharIndex = getCharIndex();
try {
    int m = input.mark();
    backtracking=1; <! means we won't throw slow exception !>
    failed=false;
    mTokens();
    backtracking=0;
    <! mTokens backtracks with synpred at backtracking==2
    and we set the synpredgate to allow actions at level 1. !>
    if ( failed ) {
        input.rewind(m);
        input.consume(); <! advance one char and try again !>
    }
    else {
        return token;
    }
}
catch (RecognitionException re) {
    // shouldn't happen in backtracking mode, but...
    reportError(re);
    recover(re);
}
}
}

public void memoize(IntStream input, int ruleIndex, int ruleStartIndex)
{
    if ( backtracking > 1 )
        super.memoize(input, ruleIndex, ruleStartIndex);
}

public boolean alreadyParsedRule(IntStream input, int ruleIndex)
{
    if ( backtracking > 1 )
        return super.alreadyParsedRule(input, ruleIndex);
    return false;
}
>>

filteringActionGate() ::= "backtracking == 1"

/** How to generate a parser */
genericParser(
    grammar, name, scopes, tokens, tokenNames, rules, numRules, cyclicDFAs,
    bitsets, inputStreamType, superClass, ASTLabelType="Object",
    labelType, members, filterMode
) ::= <<

```

```

// genericParser
class <name> : public <@superClassName><superClass><@end> {
public:
static const char* tokenNames[] = {
    "\<invalid>", "\<EOR>", "\<DOWN>", "\<UP>", <tokenNames; separator=", ">
};
<tokens:{static tokenId_type <tokenPrefix()><it.name>=<it.type>;}; separator="\n">
<scopes:{<if(it.isDynamicGlobalScope)><globalAttributeScope(scope=it)><endif>}>
<@members>

<name>(StreamType* input)
: <superClass>\<StreamType,TokenType>(input)
{
<if(backtracking)>
    ruleMemo = new HashMap[<numRules>+1];<n> <! index from 1..n !>
<endif>
}
<@end>

//@TODO public String[] getTokenNames() { return tokenNames; }
//@TODO public String getGrammarFileName() { return "<fileName>"; }
<members>

<rules; separator="\n\n">

<synpreds:{p | <synpred(p)>}>

<cyclicDFAs:{dfa | protected DFA<dfa.decisionNumber> dfa<dfa.decisionNumber> = new
DFA<dfa.decisionNumber>(this);}; separator="\n">
<cyclicDFAs:cyclicDFA()> <! dump tables for all DFA !>

<bitsets:bitset(name={FOLLOW_<it.name>_in_<it.inName><it.tokenIndex>},
    words64=it.bits)>
};
>>

parser(
    grammar, name, scopes, tokens, tokenNames,
    rules, numRules, bitsets, ASTLabelType,
    superClass="Parser", labelType="Token",
    members={<actions.parser.members>}) ::= <<
<genericParser(inputStreamType="TokenStream", ...)>
>>

/** How to generate a tree parser; same as parser except the input
 * stream is a different type.
 */
treeParser(grammar, name, scopes, tokens, tokenNames, globalAction,

```



```

rules, numRules,
bitsets,
labelType={<ASTLabelType>}, ASTLabelType="Object",
superClass="TreeParser", members={<actions.treeparser.members>}, filterMode
) ::= <<
<genericParser(inputStreamType="TreeNodeStream", ...>
>>

/** A simpler version of a rule template that is specific to the imaginary
 * rules created for syntactic predicates. As they never have return values
 * nor parameters etc..., just give simplest possible method. Don't do
 * any of the normal memoization stuff in here either; it's a waste.
 * As predicates cannot be inlined into the invoking rule, they need to
 * be in a rule by themselves.
 */
synpredRule(ruleName, ruleDescriptor, block, description, nakedBlock) ::=
<<
// $ANTLR start <ruleName>
public void <ruleName>_fragment(<ruleDescriptor.parameterScope:parameterScope(scope=it)>) throws
RecognitionException {
<if(trace)>System.out.println("enter <ruleName> "+input.LT(1)+" failed="+failed+"
backtracking="+backtracking);<endif>
<if(trace)>
try {
<block>
}
finally {
System.out.println("exit <ruleName> "+input.LT(1)+" failed="+failed+" backtracking="+backtracking);
}
<else>
<block>
<endif>
}
// $ANTLR end <ruleName>
>>

synpred(name) ::= <<
public boolean <name>() {
this->backtracking++;
<@start()>
int start = input.mark();
try {
<name>_fragment(); // can never throw exception
} catch (RecognitionException re) {
System.err.println("impossible: "+re);
}
boolean success = ! this->failed;
input.rewind(start);

```

```

    <@stop()>
    this->backtracking--;
    this->failed = false;
    return success;
}<\n>
>>

lexerSynpred(name) ::= <<
<synpred(name)>
>>

ruleMemoization(name) ::= <<
<if(memoize)>
if ( backtracking > 0 && alreadyParsedRule(input, <ruleDescriptor.index>))
    return <ruleReturnValue()>;
<endif>
>>

/** How to test for failure and return from rule */
checkRuleBacktrackFailure() ::= <<
<if(backtracking)>
if (failed)
    return <ruleReturnValue()>;
<endif>
>>

/** This rule has failed, exit indicating failure during backtrack */
ruleBacktrackFailure() ::= <<
<if(backtracking)>
if (backtracking > 0)
{
    failed = true;
    return <ruleReturnValue()>;
}
<endif>
>>

/** How to generate code for a rule. This includes any return type
 * data aggregates required for multiple return values.
 */
rule(ruleName,ruleDescriptor,block,emptyRule,description,exceptions,memoize) ::= <<
<ruleAttributeScope(scope=ruleDescriptor.ruleScope)>
<returnScope(scope=ruleDescriptor.returnScope)>

// $ANTLR start <ruleName>
// <fileName>:<description>
public <returnType()> <ruleName>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>)
throw(antlr3::BaseRecognitionException)

```

```

{
<if(trace)>
  antlr3::Tracer trace(this,"<ruleName>");
  System.out.println("enter <ruleName> "+input.LT(1)+" failed="+failed+" backtracking="+backtracking);
<endif>
<ruleDeclarations()>
<ruleLabelDefs()>
<ruleDescriptor.actions.init>
<@preamble()>
try {
  <ruleMemoization(name=ruleName)>
  <block>
  }
<if(exceptions)>
  <exceptions:{e|<catch(decl=e.decl,action=e.action)><\n>}>
<else>
<if(!emptyRule)>
<if(actions.(actionScope).rulecatch)>
  <actions.(actionScope).rulecatch>
<else>
  catch (RecognitionException re) {
    reportError(re);
    recover(input,re);
  }<\n>
<endif>
<endif>
<endif>
  finally {
    <if(trace)>System.out.println("exit <ruleName> "+input.LT(1)+" failed="+failed+"
backtracking="+backtracking);<endif>
    <ruleCleanUp()>
    <(ruleDescriptor.actions.finally):execAction()>
  }
<@postamble()>
  return <ruleReturnValue()>;
}
// $ANTLR end <ruleName>
>>

catch(decl,action) ::= <<
catch (<e.decl>) {
  <e.action>
}
>>

ruleDeclarations() ::= <<
<ruleDescriptor.useScopes:{<it>_stack.push(new <it>_scope());}; separator="\n">
<ruleDescriptor.ruleScope:{<it.name>_stack.push(new <it.name>_scope());}; separator="\n">

```

```

<if(ruleDescriptor.hasMultipleReturnValues)>
<returnType()> retval = new <returnType()>();
retval.start = input.LT(1);<\n>
<else>
<ruleDescriptor.returnScope.attributes: { a |
<a.type> <a.name> = <if(a.initValue)><a.initValue><else><initValue(a.type)><endif>;
}>
<endif>
<if(memoize)>
int <ruleDescriptor.name>_startIndex = input.index();
<endif>
>>

ruleLabelDefs() ::= <<
<[ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels]
: {<labelType> <it.label.text>=null;}; separator="\n"
>
<[ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels]
: {List list_<it.label.text>=null;}; separator="\n"
>
<[ruleDescriptor.ruleLabels,ruleDescriptor.ruleListLabels]
: ruleLabelDef(label=it); separator="\n"
>
<[ruleDescriptor.allRuleRefsInAltsWithRewrites,ruleDescriptor.allTokenRefsInAltsWithRewrites]
: {List list_<it>=new ArrayList();}; separator="\n"
>
>>

ruleReturnValue() ::= <<
<if(!ruleDescriptor.isSynPred)>
<if(ruleDescriptor.hasReturnValue)>
<if(ruleDescriptor.hasSingleReturnValue)>
<ruleDescriptor.singleValueReturnName>
<else>
retval
<endif>
<endif>
<endif>
>>

ruleCleanup() ::= <<
<ruleDescriptor.useScopes: {<it>_stack.pop();}; separator="\n">
<ruleDescriptor.ruleScope: {<it.name>_stack.pop();}; separator="\n">
<if(ruleDescriptor.hasMultipleReturnValues)>
retval.stop = input.LT(-1);<\n>
<endif>
<if(memoize)>
<if(backtracking)>

```

```

if ( backtracking > 0 ) { memoize(input, <ruleDescriptor.index>, <ruleDescriptor.name>_startIndex); }
<endif>
<endif>
>>

```

```

/** How to generate a rule in the lexer; naked blocks are used for
 * fragment rules.
 */
lexerRule(ruleName,nakedBlock,ruleDescriptor,block,memoize) ::= <<
void m<ruleName>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>)
throw(antlr3::BaseRecognitionException)
{
<if(trace)>
  antlr3::Tracer trace(this,"<ruleName>");
<endif>
  antlr3::CountScope nestingTracker(this->ruleNestingLevel);
  StreamType& input(this->getInput());
<if(nakedBlock)>
  <ruleDescriptor.actions.init>
  <ruleMemoization(name=ruleName)>
  <block><\n>
<else>
  tokenId_type type = <tokenPrefix()><ruleName>;
  channel_type channel = antlr3::Token::DEFAULT_CHANNEL;
  position_type start(input.getPosition());
  <ruleDescriptor.actions.init>
  <ruleMemoization(name=ruleName)>
  <block>
  <! create token if none exists *and* we are an outermost token rule !>
  <execAction({if ( this->token == 0 && this->ruleNestingLevel == 1 ) {
  TokenType *tt = TokenBuilder::build(type,start,input,channel);
  std::cout << (*tt) << std::endl;
  this->emit(tt);
  }<\n>
  })>
<endif>
  }
>>

```

```

/** How to generate code for the implicitly-defined lexer grammar rule
 * that chooses between lexer rules.
 */
tokensRule(ruleName,nakedBlock,args,block,ruleDescriptor) ::= <<
void mTokens() throw(antlr3::BaseRecognitionException)
{
  StreamType& input(this->getInput());
  <block><\n>
}

```

>>

// S U B R U L E S

/** A (...) subrule with multiple alternatives */

block(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,
maxK,maxAlt,description) ::= <<

// block <fileName>:<description>

decision_type alt<decisionNumber>=<maxAlt>;

<decls>

<@predecision()>

<decision>

<@postdecision()>

<@prebranch()>

switch (alt<decisionNumber>) {

 <alts:altSwitchCase()>

}

<@postbranch()>

>>

/** A rule block with multiple alternatives */

ruleBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<

// ruleBlock <fileName>:<description>

decision_type alt<decisionNumber>=<maxAlt>;

<decls>

<@predecision()>

<decision>

<@postdecision()>

switch (alt<decisionNumber>) {

 <alts:altSwitchCase()>

}

>>

ruleBlockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<

// ruleBlockSingleAlt <fileName>:<description>

<decls>

<@prealt()>

<alts>

<@postalt()>

>>

/** A special case of a (...) subrule with a single alternative */

blockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<

// <fileName>:<description>

<decls>

<@prealt()>

<alts>

<@postalt()>

>>

```
/** A (..)+ block with 0 or more alternatives */
positiveClosureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// positiveClosureBlock <fileName>:<description>
decision_type cnt<decisionNumber>=0;
<decls>
<@preloop()>
do {
decision_type alt<decisionNumber>=<maxAlt>;
<@predecision()>
<decision>
<@postdecision()>
switch (alt<decisionNumber>) {
<alts:altSwitchCase()>
default :
if ( cnt<decisionNumber> >= 1 )
goto loop<decisionNumber>;
EarlyExitException eee( input.getPosition(), <decisionNumber> );
<@earlyExitException()>
throw eee;
}
cnt<decisionNumber>++;
} while (true);
loop<decisionNumber>; ;
<@postloop()>
>>
```

positiveClosureBlockSingleAlt ::= positiveClosureBlock

```
/** A (..)* block with 1 or more alternatives */
closureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::=
<<
// closureBlock <fileName>:<description>
<decls>
<@preloop()>
do {
decision_type alt<decisionNumber>=<maxAlt>;
<@predecision()>
<decision>
<@postdecision()>
switch (alt<decisionNumber>) {
<alts:altSwitchCase()>
default :
goto loop<decisionNumber>;
}
} while (true);
```

```

loop<decisionNumber>;
<@postloop()>
>>

closureBlockSingleAlt ::= closureBlock

/** Optional blocks (x)? are translated to (x|) by before code generation
 * so we can just use the normal block template
 */
optionalBlock ::= block

optionalBlockSingleAlt ::= block

/** A case in a switch that jumps to an alternative given the alternative
 * number. A DFA predicts the alternative and then a simple switch
 * does the jump to the code that actually matches that alternative.
 */
altSwitchCase() ::= <<
case <i> :
  <@prealt()>
  <it>
  break;<\n>
>>

/** An alternative is just a list of elements; at outermost level */
alt(elements,altNum,description,autoAST,outerAlt) ::= <<
// alt <fileName>:<description>
{
  <@declarations()>
  <elements:element()>
  <@cleanup()>
}
>>

// E L E M E N T S

/** Dump the elements one per line */
element() ::= <<
// element <fileName>:<description>
<@prematch()>
<it.el><\n>
>>

/** match a token optionally with a label in front */
tokenRef(token,label,elementIndex) ::= <<
// tokenRef
<if(label)>
<label> = input.LT(1);<\n>

```



```

<endif>
this->match(input,<token>,FOLLOW_<token>_in_<ruleName><elementIndex>);
<checkRuleBacktrackFailure()>
>>

/** ids+=ID no AST building */
tokenRefAndListLabel(token,label,elementIndex) ::= <<
<tokenRef(...)>
<listLabel(...)>
>>

listLabel(label) ::= <<
if (list_<label>==null) list_<label>=new ArrayList();
list_<label>.add(<label>);<\n>
>>

/** match a character */
charRef(char,label) ::= <<
// charRef
<if(label)>
<tokenid_type()> <label> = input.LA(1);<\n>
<endif>
this->match(<char>);
<checkRuleBacktrackFailure()>
>>

/** match a character range */
charRangeRef(a,b) ::= "this->matchRange(<a>,<b>); <checkRuleBacktrackFailure()>"

/** For now, sets are interval tests and must be tested inline */
matchSet(s,label,elementIndex,postmatchCode="") ::= <<
// matchSet
<if(label)>
<label> = input.LT(1);<\n>
<endif>
if ( <s> )
{
<postmatchCode>
input.consume();
<if(!LEXER)>
errorRecovery=false;
<endif>
<if(backtracking)>failed=false;<endif>
}
else
{
<ruleBacktrackFailure()>
MismatchedSetException mse(input.getPosition(),input.LA(1));

```

```

<@mismatchedSetException()>
<if(LEXER)>
  this->recover(mse);
<else>
  this->recoverFromMismatchedSet(input,mse,FOLLOW_set_in_<ruleName><elementIndex>);
<endif>
  throw mse;
}<\n>
>>

matchSetAndListLabel(s,label,elementIndex,postmatchCode) ::= <<
<matchSet(...)>
<listLabel(...)>
>>

/** Match a string literal */
lexerStringRef(string,label,elementIndex) ::= <<
// lexerStringRef
<if(label)>
  position_type <label>Start(input.getPosition());
  this->match( <string> );
  <checkRuleBacktrackFailure()>
  TokenType* <label> =
  TokenBuilder::build(Token.INVALID_TOKEN_TYPE,<label>Start,input,Token.DEFAULT_CHANNEL);
<else>
  this->match( <string> );
  <checkRuleBacktrackFailure()><\n>
<endif>
>>

wildcard(label,elementIndex) ::= <<
<if(label)>
<label> = input.LT(1);<\n>
<endif>
  this->matchAny( input );
  <checkRuleBacktrackFailure()>
>>

wildcardAndListLabel(label,elementIndex) ::= <<
<wildcard(...)>
<listLabel(...)>
>>

/** Match . wildcard */
wildcardChar(label, elementIndex) ::= <<
<if(label)>
<tokenid_type()> <label> = input.LA(1);<\n>
<endif>

```

```

this->matchAny();
<checkRuleBacktrackFailure()>
>>

tokenid_type() ::= "<if(LEXER)>char_type<else>tokenid_type<endif>"

wildcardCharListLabel(label, elementIndex) ::= <<
<wildcardChar(...)>
<listLabel(...)>
>>

/** Match a rule reference by invoking it possibly with arguments
 * and a return value or values.
 */
ruleRef(rule,label,elementIndex,args) ::= <<
following.push(FOLLOW_<rule>_in_<ruleName><elementIndex>);
<if(label)>
<label>=<rule><args>;<\n>
<else>
<rule><args>;<\n>
<endif>
following.pop();
<checkRuleBacktrackFailure()>
>>

/** ids+=ID */
ruleRefAndListLabel(rule,label,elementIndex,args) ::= <<
<ruleRef(...)>
<listLabel(...)>
>>

/** A lexer rule reference */
lexerRuleRef(rule,label,args) ::= <<
<if(label)>
position_type <label>Start(input.getPosition());
m<rule><args>;
<checkRuleBacktrackFailure()>
TokenType* <label> =
TokenBuilder::build(Token.INVALID_TOKEN_TYPE,<label>Start,input,Token.DEFAULT_CHANNEL);
<else>
m<rule><args>;
<checkRuleBacktrackFailure()>
<endif>
>>

/** EOF in the lexer */
lexerMatchEOF(label) ::= <<
<if(label)>

```

```

position_type <label>Start(input.getPosition());
match(EOF);
<checkRuleBacktrackFailure()>
TokenType* <label> = TokenBuilder::build(Token.EOF,<label>Start,input,Token.DEFAULT_CHANNEL);
<else>
match(EOF);
<checkRuleBacktrackFailure()>
<endif>
>>

```

```

/** match ^(root children) in tree parser */
tree(root, children, nullableChildList) ::= <<
<root:element()>
<if(nullableChildList)>
if ( input.LA(1)==antlr3::Token::DOWN ) {
    match(input, antlr3::Token::DOWN, null);
    <checkRuleBacktrackFailure()>
    <children:element()>
    match(input, antlr3::Token::UP, null);
    <checkRuleBacktrackFailure()>
}
<else>
match(input, antlr3::Token::DOWN, null);
<checkRuleBacktrackFailure()>
<children:element()>
match(input, antlr3::Token::UP, null);
<checkRuleBacktrackFailure()>
<endif>
>>

```

```

/** Every predicate is used as a validating predicate (even when it is
 * also hoisted into a prediction expression).
 */
validateSemanticPredicate(pred,description) ::= <<
if ( !(<evalPredicate(...)> ) ) {
    <ruleBacktrackFailure()>
    throw new FailedPredicateException(input, "<ruleName>", "<description>");
}
>>

```

```

// F i x e d D F A (if-then-else)
dfaState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
<if(!semPredState)>
<tokenId_type()> LA<decisionNumber>_<stateNumber> = input.LA(<k>);<\n>
<endif>
<edges; separator="\nelse ">
else
{

```

```

<if(eotPredictsAlt)>
  alt<decisionNumber> = <eotPredictsAlt>;<\n>
<else>
  <ruleBacktrackFailure()>
  NoViableAltException nvae(input.getPosition(), "<description>", <decisionNumber>, <stateNumber>);<\n>
  <@noViableAltException()>
  throw nvae;<\n>
<endif>
}
>>

```

```

/** Same as a normal DFA state except that we don't examine lookahead
 * for the bypass alternative. It delays error detection but this
 * is faster, smaller, and more what people expect. For (X)? people
 * expect "if ( LA(1)==X ) match(X);" and that's it.
 */
dfaOptionalBlockState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
<if(!semPredState)>
<tokenId_type()> LA<decisionNumber>_<stateNumber> = input.LA(<k>);
<endif>
<edges; separator="\nelse ">
>>

```

```

/** A DFA state that is actually the loopback decision of a closure
 * loop. If end-of-token (EOT) predicts any of the targets then it
 * should act like a default clause (i.e., no error can be generated).
 * This is used only in the lexer so that for ('a')* on the end of a rule
 * anything other than 'a' predicts exiting.
 */
dfaLoopbackState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
<if(!semPredState)>
<tokenId_type()> LA<decisionNumber>_<stateNumber> = input.LA(<k>);
<endif>
<edges; separator="\nelse "><\n>
<if(eotPredictsAlt)>
else
{
  alt<decisionNumber> = <eotPredictsAlt>;
}<\n>
<endif>
>>

```

```

/** An accept state indicates a unique alternative has been predicted */
dfaAcceptState(alt) ::= "alt<decisionNumber> = <alt>;"

```

```

/** A simple edge with an expression. If the expression is satisfied,
 * enter to the target state. To handle gated productions, we may
 * have to evaluate some predicates for this edge.

```

```

*/
dfaEdge(labelExpr, targetState, predicates) ::= <<
if ( (<labelExpr> <if(predicates)>&& (<predicates>)<endif>)
{
<targetState>
}
>>

// F i x e d D F A (switch case)

/** A DFA state where a SWITCH may be generated. The code generator
* decides if this is possible: CodeGenerator.canGenerateSwitch().
*/
dfaStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch ( input.LA(<k>) ) {
<edges; separator="\n">
default:
<if(eotPredictsAlt)>
alt<decisionNumber> = <eotPredictsAlt>;
<else>
NoViableAltException nvae( input.getPosition(), "<description>", <decisionNumber>, <stateNumber> );<\n>
<@noViableAltException()>
throw nvae;<\n>
<endif>
}<\n>
>>

dfaOptionalBlockStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch ( input.LA(<k>) ) {
<edges; separator="\n">
}<\n>
>>

dfaLoopbackStateSwitch(k, edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch ( input.LA(<k>) ) {
<edges; separator="\n"><\n>
<if(eotPredictsAlt)>
default:
alt<decisionNumber> = <eotPredictsAlt>;
break;<\n>
<endif>
}<\n>
>>

dfaEdgeSwitch(labels, targetState) ::= <<
<labels: {case <it>:}; separator="\n"> {
<targetState>
} break;

```

```

>>

// C y c l i c D F A

/** The code to initiate execution of a cyclic DFA; this is used
 * in the rule to predict an alt just like the fixed DFA case.
 * The <name> attribute is inherited via the parser, lexer, ...
 */
dfaDecision(decisionNumber,description) ::= <<
// dfaDecision
alt<decisionNumber> = predictDFA<decisionNumber>(input);
>>

/** The overall cyclic DFA chunk; contains all the DFA states */
cyclicDFA(dfa) ::= <<
/* cyclicDFA=<dfa>
*/
// cyclic = <dfa.cyclic>
// numstates = <dfa.numberofStates>

// startState = <dfa.startState>
// startState.numberOfTransitions = <dfa.startState.NumberOfTransitions>
// startState.lookaheadDepth = <dfa.startState.LookaheadDepth>

const static short <name>dfa<dfa.decisionNumber>_eot[<dfa.numberofStates>] = {
<dfa.eot; wrap="\n ", separator=",", null="-1">
};
const static short <name>dfa<dfa.decisionNumber>_eof[<dfa.numberofStates>] = {
<dfa.eof; wrap="\n ", separator=",", null="-1">
};
const static unichar <name>dfa<dfa.decisionNumber>_min[<dfa.numberofStates>] = {
<dfa.min; wrap="\n ", separator=",", null="0">
};
const static unichar <name>dfa<dfa.decisionNumber>_max[<dfa.numberofStates>] = {
<dfa.max; wrap="\n ", separator=",", null="0">
};
const static short <name>dfa<dfa.decisionNumber>_accept[<dfa.numberofStates>] = {
<dfa.accept; wrap="\n ", separator=",", null="-1">
};
const static short <name>dfa<dfa.decisionNumber>_special[<dfa.numberofStates>] = {
<dfa.special; wrap="\n ", separator=",", null="-1">
};
<dfa.edgeTransitionClassMap.keys:{ table |
const static short <name>dfa<dfa.decisionNumber>_transition<i0>[] = {
<table; separator=" ", wrap="\n ", null="-1">
};
}; null="">
const static short <name>dfa<dfa.decisionNumber>_transition[] = {

```

```

<dfa.transitionEdgeTables:{ whichTable|<name>dfa<dfa.decisionNumber>_transition<whichTable>};
separator="\n", null="0 /* fixme? */">
};
<! add attribute for the DFA !>
DFA\<char_type> dfa<dfa.decisionNumber>;
<! this should go in the initializer of the thing
- (id) init
{
if ((self = [super init]) != nil) {
eot = <name>dfa<dfa.decisionNumber>_eot;
eof = <name>dfa<dfa.decisionNumber>_eof;
min = <name>dfa<dfa.decisionNumber>_min;
max = <name>dfa<dfa.decisionNumber>_max;
accept = <name>dfa<dfa.decisionNumber>_accept;
special = <name>dfa<dfa.decisionNumber>_special;
if (!(transition = calloc(<dfa.numberofStates>, sizeof(void*)))) {
[self release];
return nil;
}
<dfa.transitionEdgeTables:{ whichTable|transition[<i0>] =
<name>dfa<dfa.decisionNumber>_transition<whichTable>}; separator="\n", null="">
}
return self;
}
!>

<if(dfa.specialStateSTs)>
int specialStateTransition( int state )
{
int s = state;
switch ( s ) {
<dfa.specialStateSTs:{ state |
case <i0> : <! compressed special state numbers 0..n-1 !>
<state>}; separator="\n">
}
<if(backtracking)>
if ( recognizer.isBacktracking() ) {
recognizer.setFailed();
return -1;
}<\n>
<endif>
noViableAlt(s, input);
}<\n>
<endif>

<\n>

```



```

// <dfa.description>
decision_type predictDFA<dfa.decisionNumber>( StreamType& input )
{
/* mark current location (rewind automatically when the rewinder goes
 * out of scope */
antlr3::Rewinder\<position_type> markPoint(input.getPosition());
goto s0; // goto start...
// ...
throw NoViableAltException( input.getPosition(), "<dfa.description>", <dfa.decisionNumber>, 0 /* fixme */ );<\n>
}<\n>
>>

```

```

/** A state in a cyclic DFA */
cyclicDFAState(decisionNumber,stateNumber,edges,needErrorClause,semPredState) ::= <<
// cyclicDFAState
s<stateNumber>: {
<if(semPredState)>
input.rewind();<\n>
<else>
<tokenid_type()> LA<decisionNumber>_<stateNumber> = input.LA(1);
<endif>
<edges>
<if(needErrorClause)>
throw NoViableAltException( input.getPosition(), "<description>", <decisionNumber>, <stateNumber> );<\n>
<endif><\n>
}<\n>
>>

```

```

/** Just like a fixed DFA edge, test the lookahead and indicate what
 * state to jump to next if successful.
 */
cyclicDFAEdge(labelExpr, targetStateNumber, edgeNumber, predicates) ::= <<
// cyclicDFAEdge
if ( (<labelExpr> <if(predicates)>&& (<predicates>)<endif> )
{
input.consume();
goto s<targetStateNumber>;
}<\n>
>>

```

```

/** An edge pointing at end-of-token; essentially matches any char;
 * always jump to the target.
 */
eotDFAEdge(targetStateNumber,edgeNumber, predicates) ::= "goto s<targetStateNumber>;"

```

// D F A E X P R E S S I O N S

```
andPredicates(left,right) ::= "<left> && <right>"
```

```

orPredicates(operands) ::= "<first(operands)><rest(operands):{ o | ||<o>}>"

notPredicate(pred) ::= "!(<pred>)"

evalPredicate(pred,description) ::= "<pred>"

evalSynPredicate(pred,description) ::= "<pred>()"

lookaheadTest(atom,k,atomAsInt) ::= "LA<decisionNumber>_<stateNumber>==<atom>"

/** Sometimes a lookahead test cannot assume that LA(k) is in a temp variable
 * somewhere. Must ask for the lookahead directly.
 */
isolatedLookaheadTest(atom,k,atomAsInt) ::= "input.LA(<k>)==<atom>"

lookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= <<
(LA<decisionNumber>_<stateNumber>\>=<lower> && LA<decisionNumber>_<stateNumber>\<=<upper>)
>>

isolatedLookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= "(input.LA(<k>)\>=<lower>
&& input.LA(<k>)\<=<upper>)"

setTest(ranges) ::= "<ranges; separator=\\\"\\\">"

// A T T R I B U T E S

globalAttributeScope(scope) ::= <<
<if(scope.attributes)>
protected static class <scope.name> {
    <scope.attributes:{<it.decl>;}; separator= "\\n">
}
protected Stack <scope.name>_stack = new Stack();<\n>
<endif>
>>

ruleAttributeScope(scope) ::= <<
<if(scope.attributes)>
protected static class <scope.name>_scope {
    <scope.attributes:{<it.decl>;}; separator= "\\n">
}
protected Stack <scope.name>_stack = new Stack();<\n>
<endif>
>>

returnType() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<ruleDescriptor.name>_return

```

```

<else>
<if(ruleDescriptor.singleValueReturnType)>
<ruleDescriptor.singleValueReturnType>
<else>
void
<endif>
<endif>
>>

ruleLabelType(referencedRule) ::= <<
<if(referencedRule.hasMultipleReturnValues)>
<referencedRule.name>_return
<else>
<if(referencedRule.singleValueReturnType)>
<referencedRule.singleValueReturnType>
<else>
void
<endif>
<endif>
>>

/** Using a type to init value map, try to init a type; if not in table
 * must be an object, default value is "null".
 */
initValue(typeName) ::= <<
<javaTypeInitMap.(typeName)>
>>

ruleLabelDef(label) ::= <<
<ruleLabelType(referencedRule=label.referencedRule)> <label.label.text> =
<initValue(typeName=ruleLabelType(referencedRule=label.referencedRule))>;<\n>
>>

returnScope(scope) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
public static class <returnType()> {
    <labelType> start, stop;
<if(buildAST)>
    <ASTLabelType> tree;
<else>
<if(buildTemplate)>
    StringTemplate st;
<endif>
<endif>
    <scope.attributes:{<it.decl>;}; separator="\n">
};
<endif>
>>

```

```

parameterScope(scope) ::= <<
<scope.attributes:{<it.decl>}; separator=", ">
>>

/** Used in codegen.g to translate $x.y references.
 * I could have left actions as StringTemplates to be inserted in
 * the output (so they could use attributes inherited from surrounding
 * templates), but really wanted to pass in AttributeScope and Attribute
 * objects so this translation could query them. So, translation of
 * $x.y to executable code occurs before recognizerST.toString() occurs.
 * I.e., actions are just text strings during final code generation.
 */
globalAttributeRef(scope,attr) ::= <<
((<scope>)<scope>_stack.peek()).<attr.name>
>>

parameterAttributeRef(attr) ::= "<attr.name>"

scopeAttributeRef(scope,attr,index,negIndex) ::= <<
<if(negIndex)>
((<scope>_scope)<scope>_stack.elementAt(<scope>_stack.size()-<negIndex>-1)).<attr.name>
<else>
<if(index)>
((<scope>_scope)<scope>_stack.elementAt(<index>)).<attr.name>
<else>
((<scope>_scope)<scope>_stack.peek()).<attr.name>
<endif>
<endif>
>>

/** $x is either global scope or x is rule with dynamic scope; refers
 * to stack itself not top of stack. This is useful for predicates
 * like {<function.size()>0 && <function::name.equals("foo")}?
 */
isolatedDynamicScopeRef(scope) ::= "<scope>_stack"

/** reference an attribute of rule; might only have single return value */
ruleLabelRef(referencedRule,scope,attr) ::= <<
<if(referencedRule.singleValueReturnType)>
<scope>
<else>
<scope>.<attr.name>
<endif>
>>

returnAttributeRef(ruleDescriptor,attr) ::= <<
<if(ruleDescriptor.singleValueReturnType)>

```

```

<attr.name>
<else>
retval.<attr.name>
<endif>
>>

/** How to translate $tokenLabel */
tokenLabelRef(label) ::= "<label>"

/** ids+=ID {$ids} or e+=expr {$e} */
listLabelRef(label) ::= "list_<label>"

// not sure the next are the right approach; and they are evaluated early;
// they cannot see TREE_PARSER or PARSE attributes for example. :(

tokenLabelPropertyRef_text(scope,attr) ::= "<scope>.getText()"
tokenLabelPropertyRef_type(scope,attr) ::= "<scope>.getType()"
tokenLabelPropertyRef_line(scope,attr) ::= "<scope>.getLine()"
tokenLabelPropertyRef_pos(scope,attr) ::= "<scope>.getCharPositionInLine()"
tokenLabelPropertyRef_channel(scope,attr) ::= "<scope>.getChannel()"
tokenLabelPropertyRef_index(scope,attr) ::= "<scope>.getTokenIndex()"
tokenLabelPropertyRef_tree(scope,attr) ::= "<scope>.tree"

ruleLabelPropertyRef_start(scope,attr) ::= "<scope>.start"
ruleLabelPropertyRef_stop(scope,attr) ::= "<scope>.stop"
ruleLabelPropertyRef_tree(scope,attr) ::= "<scope>.tree"
ruleLabelPropertyRef_text(scope,attr) ::= "input.toString(<scope>.start,<scope>.stop)"
ruleLabelPropertyRef_st(scope,attr) ::= "<scope>.st"

/** Isolated $RULE ref ok in lexer as it's a Token */
lexerRuleLabel(label) ::= "<label>"

lexerRuleLabelPropertyRef_type(scope,attr) ::= "<scope>.getType()"
lexerRuleLabelPropertyRef_line(scope,attr) ::= "<scope>.getLine()"
lexerRuleLabelPropertyRef_pos(scope,attr) ::= "<scope>.getCharPositionInLine()"
lexerRuleLabelPropertyRef_channel(scope,attr) ::= "<scope>.getChannel()"
lexerRuleLabelPropertyRef_index(scope,attr) ::= "<scope>.getTokenIndex()"
lexerRuleLabelPropertyRef_text(scope,attr) ::= "<scope>.getText()"

// Somebody may ref $template or $tree or $stop within a rule:
rulePropertyRef_start(scope,attr) ::= "((<labelType>)retval.start)"
rulePropertyRef_stop(scope,attr) ::= "((<labelType>)retval.stop)"
rulePropertyRef_tree(scope,attr) ::= "((<ASTLabelType>)retval.tree)"
rulePropertyRef_text(scope,attr) ::= "input.toString(retval.start,input.LT(-1))"
rulePropertyRef_st(scope,attr) ::= "retval.st"

// A C T I O N S

```

```

emit(type) ::= "emit(<type>);"

setType(type) ::= "setType(<type>);"

/** How to execute an action */
execAction(action) ::= <<
<if(backtracking)>
<if(actions.(actionScope).synpredgate)>
if ( <actions.(actionScope).synpredgate> )
{
  <action>
}
<else>
if ( backtracking == 0 )
{
  <action>
}
<endif>
<else>
<action>
<endif>
>>

// M I S C (properties, etc...)

bitset(name, words64) ::= <<
public static final BitSet <name> = new BitSet(new long[] { <words64: { <it>L }; separator="," > }); <\n>
>>

tokenPrefix() ::= "TOK_"
codeFileExtension() ::= ".cpp"
// used in CPPTarget.java to generate the headerfile extension
headerFileExtension() ::= ".h"

true() ::= "true"
false() ::= "false"

Found in path(s):
* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/codegen/templates/Cpp/Cpp.stg
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*/

/** Template overrides to add debugging to AST stuff. Dynamic inheritance

* hierarchy is set up as ASTDbg : AST : Dbg : Java by code generator.

*/

group ASTDbg;

parserMembers() ::= <<

```
ANTLRDebugTreeAdaptor *adaptor = [ANTLRDebugTreeAdaptor newANTLRDebugTreeAdaptor:(id)dbg
Adaptor:[ANTLRCommonTreeAdaptor newANTLRCommonTreeAdaptor]];
```

// fix this

```
- (void) setTreeAdaptor:(id<ANTLRTreeAdaptor>)anAdaptor
```

```
{
```

```
    adaptor = [ANTLRDebugTreeAdaptor newANTLRDebugTreeAdaptor:dbg Adaptor:anAdaptor];
```

```
<if(grammar.grammarIsRoot)>
```

```
    adaptor = [ANTLRDebugTreeAdaptor newANTLRDebugTreeAdaptor:adaptor withDBG:dbg];
```

```
<else>
```

```
    adaptor = (ANTLRDebugTreeAdaptor *)adaptor; // delegator sends dbg adaptor
```

```
<endif><\n>
```

```
    <grammar.directDelegates:{g[<g:delegateName()> setTreeAdaptor:adaptor];}>
```

```
}
```

```
- (id<ANTLRTreeAdaptor>)getTreeAdaptor
```

```
{
```

```
    return adaptor;
```

```
}<\n>
```

```
>>
```

```

parserCtorBody() ::= <<
<super.parserCtorBody()>
>>

createListenerAndHandshake() ::= <<
ANTLRDebugEventSocketProxy proxy =
  [ANTLRDebugEventSocketProxy newANTLRDebugEventSocketProxy:self, port, <if(TREE_PARSER)>[input
getTreeAdaptor]<else>adaptor<endif>];
[self setDebugListener:proxy];
[self set<inputStreamType>:[ANTLRANTLRDebug<inputStreamType>
newANTLRDebug<inputStreamType>:input with:proxy]];
try {
  [proxy handshake];
}
@catch (IOException *ioe) {
  [self reportError:ioe];
}
>>

@ctorForRootGrammar.finally() ::= <<
ANTLRCommonTreeAdaptor *adap = [ANTLRCommonTreeAdaptor newANTLRCommonTreeAdaptor];
[self setTreeAdaptor:adap];
[proxy setTreeAdaptor:adap];
>>

@ctorForProfilingRootGrammar.finally() ::= <<
ANTLRCommonTreeAdaptor *adap = [ANTLRCommonTreeAdaptor newANTLRCommonTreeAdaptor];
[self setTreeAdaptor:adap];
[proxy setTreeAdaptor:adap];
>>

@ctorForPredefinedListener.superClassRef() ::= @"super(input, dbg);"

@ctorForPredefinedListener.finally() ::= <<
<if(grammar.grammarIsRoot)> <! don't create new adaptor for delegates !>
ANTLRCommonTreeAdaptor *adap = [ANTLRCommonTreeAdaptor newANTLRCommonTreeAdaptor];
[self setTreeAdaptor:adap];<\n>
<endif>
>>

@treeParserHeaderFile.superClassName ::= "ANTLRDebugTreeParser"

@rewriteElement.pregen() ::= "[debugListener locationLine:<e.line> column:<e.pos>];"

Found in path(s):
* /opt/cola/permits/1238692736_1638981223.8/antlr-3-3-sources-
jar/org/antlr/codegen/templates/ObjC/ASTDbg.stg

```


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*/

/** Templates for building ASTs during normal parsing.

*

- * Deal with many combinations. Dimensions are:
- * Auto build or rewrite
- * no label, label, list label (label/no-label handled together)
- * child, root
- * token, set, rule, wildcard
- *
- * The situation is not too bad as rewrite (->) usage makes ^ and !
- * invalid. There is no huge explosion of combinations.

*/

group ASTParser;

@rule.setErrorReturnValue() ::= <<

/* ASTParser rule.setErrorReturnValue */

retval.tree = (<ASTLabelType> *)[treeAdaptor errorNode:input From:retval.startToken To:[input LT:-1] Exception:re];

<! System.out.println("<ruleName> returns "+((CommonTree)retval.tree).toStringTree()); !>

```

>>

// TOKEN AST STUFF

/** ID and output=AST */
tokenRef(token, label, elementIndex, hetero) ::= <<
/* ASTParser tokenRef */
<super.tokenRef(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<label>_tree = <createNodeFromToken(...)>;
[treeAdaptor addChild:<label>_tree toTree:root_0];
<if(backtracking)>}<endif>
>>

/* ID! and output=AST (same as plain tokenRef) */
/* ASTParser tokenRefBang */
tokenRefBang(token,label,elementIndex) ::= "<super.tokenRef(...)>"

/** ID^ and output=AST */
tokenRefRuleRoot(token,label,elementIndex,hetero) ::= <<
<super.tokenRef(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<label>_tree = <createNodeFromToken(...)>;
root_0 = (<ASTLabelType> *)[treeAdaptor becomeRoot:<label>_tree old:root_0];
<if(backtracking)>}<endif>
>>

/** ids+=ID! and output=AST */
tokenRefBangAndListLabel(token,label,elementIndex,hetero) ::= <<
/* ASTParser tokenRefBangAndListLabel */
<tokenRefBang(...)>
<listLabel(elem=label,...)>
>>

/** label+=TOKEN when output=AST but not rewrite alt */
tokenRefAndListLabel(token,label,elementIndex,hetero) ::= <<
/* ASTParser tokenRefAndListLabel */
<tokenRef(...)>
<listLabel(elem=label,...)>
>>

/** Match label+=TOKEN^ when output=AST but not rewrite alt */
tokenRefRuleRootAndListLabel(token,label,hetero,elementIndex) ::= <<
/* ASTParser tokenRefRuleRootAndListLabel */
<tokenRefRuleRoot(...)>
<listLabel(elem=label,...)>
>>

```

```

// SET AST

// the match set stuff is interesting in that it uses an argument list
// to pass code to the default matchSet; another possible way to alter
// inherited code. I don't use the region stuff because I need to pass
// different chunks depending on the operator. I don't like making
// the template name have the operator as the number of templates gets
// large but this is the most flexible--this is as opposed to having
// the code generator call matchSet then add root code or ruleroot code
// plus list label plus ... The combinations might require complicated
// rather than just added on code. Investigate that refactoring when
// I have more time.

matchSet(s,label,hetero,elementIndex,postmatchCode) ::= <<
/* ASTParser matchSet */
<super.matchSet(..., postmatchCode={<if(backtracking)>if ( <actions.(actionScope).synpredgate> )<endif>
 [treeAdaptor addChild:<createNodeFromToken(...)> toTree:root_0 ];})>
>>

matchRuleBlockSet(s,label,hetero,elementIndex,postmatchCode,treeLevel="0") ::= <<
/* ASTParser matchRuleBlockSet */
<matchSet(...)>
>>

matchSetBang(s,label,elementIndex,postmatchCode) ::= "<super.matchSet(...)>"

// note there is no matchSetTrack because -> rewrites force sets to be
// plain old blocks of alts: (A|B|...|C)

matchSetRuleRoot(s,label,hetero,elementIndex,debug) ::= <<
/* ASTParser matchSetRuleRoot */
<if(label)>
<label>=(<labelType>)[input LT:1];<\n>
<endif>
<super.matchSet(..., postmatchCode={<if(backtracking)>if ( <actions.(actionScope).synpredgate> )<endif>
root_0 = (<ASTLabelType> *)[treeAdaptor becomeRoot:<createNodeFromToken(...)> old:root_0];})>
>>

// RULE REF AST

/** rule when output=AST */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
/* ASTParser ruleRef */
<super.ruleRef(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> )<endif>
[treeAdaptor addChild:[<label> getTree] toTree:root_0];
>>

```

```

/** rule! is same as normal rule ref */
ruleRefBang(rule,label,elementIndex,args,scope) ::= "<super.ruleRef(...)>"

/** rule^ */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
/* ASTParser ruleRefRuleRoot */
<super.ruleRef(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> )<endif>
root_0 = (<ASTLabelType> *)[treeAdaptor becomeRoot:[<label> getTree] old:root_0];
>>

/** x+=rule when output=AST */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
/* ASTParser ruleRefAndListLabel */
<ruleRef(...)>
<listLabel(elem = "["+label+"getTree]",...)>
>>

/** x+=rule! when output=AST is a rule ref with list addition */
ruleRefBangAndListLabel(rule,label,elementIndex,args,scope) ::= <<
/* ASTParser ruleRefBangAndListLabel */
<ruleRefBang(...)>
<listLabel(elem = "["+label+"getTree]",...)>
>>

/** x+=rule^ */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
/* ASTParser ruleRefRuleRootAndListLabel */
<ruleRefRuleRoot(...)>
<listLabel(elem = "["+label+"getTree]",...)>
>>

// WILDCARD AST

wildcard(label,elementIndex) ::= <<
/* ASTParser wildcard */
<super.wildcard(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
  [treeAdaptor addChild:[[treeAdaptor createTree:<label>] retain] toTree:root_0];
<if(backtracking)>}<endif>
>>

wildcardBang(label,elementIndex) ::= "<super.wildcard(...)>"

wildcardRuleRoot(label,elementIndex) ::= <<
/* ASTParser wildcardRuleRoot */
<super.wildcard(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>

```

```

<label>_tree = [[treeAdaptor createTree:<label>] retain]
root_0 = (<ASTLabelType> *)[treeAdaptor becomeRoot:<label>_tree old:root_0];
<if(backtracking)><endif>
>>

createNodeFromToken(label,hetero) ::= <<
/* ASTParser createNodeFromToken */
<if(hetero)>
[ANTLR<hetero> newANTLR<hetero>:<label>] <! new MethodNode(IDLabel) !>
<else>
(<ASTLabelType> *)[treeAdaptor createTree:<label>] retain]
<endif>
>>

// straight from java cleanup ///
ruleCleanUp() ::= <<
/* ASTParser ruleCleanUp */
<super.ruleCleanUp()>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<\n><endif>
    retval.tree = (<ASTLabelType> *)[treeAdaptor rulePostProcessing:root_0];
    [treeAdaptor setTokenBoundaries:retval.tree From:retval.startToken To:retval.stopToken];
<if(backtracking)><endif>
>>

```

Found in path(s):

```

* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-
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*/

/** Templates for building ASTs during tree parsing.

*

* Deal with many combinations. Dimensions are:

* Auto build or rewrite

* no label, label, list label (label/no-label handled together)

* child, root

* token, set, rule, wildcard

*

* Each combination has its own template except that label/no label

* is combined into tokenRef, ruleRef, ...

*/

group ASTTreeParser;

/** Add a variable to track last element matched */

ruleDeclarations() ::= <<

<super.ruleDeclarations()>

<ASTLabelType> _last;<\n>

<ASTLabelType> _first_0;<\n>

>>

/** Add a variable to track last element matched */

ruleInitializations() ::= <<

<super.ruleInitializations()>

_last = NULL;<\n>

_first_0 = NULL;<\n>

>>

/** What to emit when there is no rewrite rule. For auto build

* mode, does nothing.

*/

noRewrite(rewriteBlockLevel, treeLevel) ::= <<

<if(backtracking)>if (BACKTRACKING ==0) {<endif>

<if(rewriteMode)>

retval.tree = (<ASTLabelType>)_first_0;

if (ADAPTOR->getParent(ADAPTOR, retval.tree) != NULL && ADAPTOR->isNilNode(ADAPTOR,

ADAPTOR->getParent(ADAPTOR, retval.tree)))

```

{
    retval.tree = (<ASTLabelType>)ADAPTOR->getParent(ADAPTOR, retval.tree);
}
<endif>
<if(backtracking)><endif>
>>

/** match ^(root children) in tree parser; override here to
 * add tree construction actions.
 */
tree(root, actionsAfterRoot, children, nullableChildList,
    enclosingTreeLevel, treeLevel) ::= <<
    _last = (<ASTLabelType>)LT(1);
    {
    <ASTLabelType> _save_last_<treeLevel>;
    <ASTLabelType> _first_<treeLevel>;
    <if(!rewriteMode)>
    <ASTLabelType> root_<treeLevel>;
    <endif>
    _save_last_<treeLevel> = _last;
    _first_<treeLevel> = NULL;
    <if(!rewriteMode)>
    root_<treeLevel> = (<ASTLabelType>)(ADAPTOR->nilNode(ADAPTOR));
    <endif>
    <root:element()>
    <if(rewriteMode)>
    <if(backtracking)>if ( BACKTRACKING ==0 ) {<endif>
    <if(root.el.rule)>
    if ( _first_<enclosingTreeLevel> == NULL ) _first_<enclosingTreeLevel> = <root.el.label>.tree;
    <else>
    if ( _first_<enclosingTreeLevel> == NULL ) _first_<enclosingTreeLevel> = <root.el.label>;
    <endif>
    <if(backtracking)><endif>
    <endif>
    <actionsAfterRoot:element()>
    <if(nullableChildList)>
    if ( LA(1)==ANTLR3_TOKEN_DOWN ) {
        MATCHT(ANTLR3_TOKEN_DOWN, NULL);
        <children:element()>
        MATCHT(ANTLR3_TOKEN_UP, NULL);
    }
    <else>
    MATCHT(ANTLR3_TOKEN_DOWN, NULL);
    <children:element()>
    MATCHT(ANTLR3_TOKEN_UP, NULL);
    <endif>
    <if(!rewriteMode)>
    ADAPTOR->addChild(ADAPTOR, root_<enclosingTreeLevel>, root_<treeLevel>);

```

```

<endif>
_last = _save_last_<treeLevel>;
}<\n>
>>

// TOKEN AST STUFF

/** ID! and output=AST (same as plain tokenRef) 'cept add
 * setting of _last
 */
tokenRefBang(token,label,elementIndex) ::= <<
_last = (<ASTLabelType>)LT(1);
<super.tokenRef(...)>
>>

/** ID auto construct */
tokenRef(token,label,elementIndex,hetero) ::= <<
_last = (<ASTLabelType>)LT(1);
<super.tokenRef(...)>
<if(!rewriteMode)>
<if(backtracking)>if ( BACKTRACKING ==0 ) {<endif>
<if(hetero)>
<label>_tree = <hetero>New(<label>);
<else>
<label>_tree = (<ASTLabelType>)ADAPTOR->dupNode(ADAPTOR, <label>);
<endif>
ADAPTOR->addChild(ADAPTOR, root_<treeLevel>, <label>_tree);
<if(backtracking)>}<endif>
<else>
<if(backtracking)>if ( BACKTRACKING ==0 ) {<endif>
if ( _first_<treeLevel> == NULL ) _first_<treeLevel> = <label>;
<if(backtracking)>}<endif>
<endif>
>>

/** label+=TOKEN auto construct */
tokenRefAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRef(...)>
<listLabel(elem=label,...)>
>>

/** ^(ID ...) auto construct */
tokenRefRuleRoot(token,label,elementIndex,hetero) ::= <<
_last = (<ASTLabelType>)LT(1);
<super.tokenRef(...)>
<if(!rewriteMode)>
<if(backtracking)>if ( BACKTRACKING == 0 ) {<endif>
<if(hetero)>

```



```

<label>_tree = <hetero>New(<label>);
<else>
<label>_tree = (<ASTLabelType>)ADAPTOR->dupNode(ADAPTOR, <label>);
<endif><\n>
root_<treeLevel> = (<ASTLabelType>)ADAPTOR->becomeRoot(ADAPTOR, <label>_tree, root_<treeLevel>);
<if(backtracking)><endif>
<endif>
>>

/** Match ^(label+=TOKEN ...) auto construct */
tokenRefRuleRootAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRefRuleRoot(...)>
<listLabel(elem=label,...)>
>>

/** Match . wildcard and auto dup the node/subtree */
wildcard(token,label,elementIndex,hetero) ::= <<
_last = (<ASTLabelType>)LT(1);
<super.wildcard(...)>
<if(!rewriteMode)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<label>_tree = (<ASTLabelType>)ADAPTOR->dupTree(ADAPTOR, <label>);
ADAPTOR->addChild(ADAPTOR, root_<treeLevel>, <label>_tree);
<if(backtracking)><endif>
<else> <! rewrite mode !>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> )<endif>
if ( _first_<treeLevel>==null ) _first_<treeLevel> = <label>;
<endif>
>>

// SET AST

matchSet(s,label,hetero,elementIndex,postmatchCode) ::= <<
_last = (<ASTLabelType>)LT(1);
<super.matchSet(..., postmatchCode={
<if(!rewriteMode)>
<if(backtracking)>if ( BACKTRACKING == 0 ) {<endif>
<if(hetero)>
<label>_tree = <hetero>New(<label>);
<else>
<label>_tree = (<ASTLabelType>)ADAPTOR->dupNode(ADAPTOR, <label>);
<endif><\n>
ADAPTOR->addChild(ADAPTOR, root_<treeLevel>, <label>_tree);
<if(backtracking)><endif>
<endif>
}
)>
>>

```

```

matchRuleBlockSet(s,label,hetero,elementIndex,postmatchCode,treeLevel="0") ::= <<
<matchSet(...)>
<noRewrite()> <! set return tree !>
>>

matchSetBang(s,label,elementIndex,postmatchCode) ::= <<
_last = (<ASTLabelType>)LT(1);
<super.matchSet(...)>
>>

matchSetRuleRoot(s,label,hetero,elementIndex,debug) ::= <<
<super.matchSet(..., postmatchCode={
<if(!rewriteMode)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> )<endif>
<if(hetero)>
<label>_tree = <hetero>New(<label>);
<else>
<label>_tree = (<ASTLabelType>)ADAPTOR->dupNode(ADAPTOR, <label>);
<endif>
root_<treeLevel> = (<ASTLabelType>)ADAPTOR->becomeRoot(ADAPTOR, <label>_tree, root_<treeLevel>);
<if(backtracking)>}<endif>
<endif>
}
)>
>>

// RULE REF AST

/** rule auto construct */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
_last = (<ASTLabelType>)LT(1);
<super.ruleRef(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> )
{
<endif>
<if(!rewriteMode)>
ADAPTOR->addChild(ADAPTOR, root_<treeLevel>, <label>.tree);
<else>
if ( _first_<treeLevel> == NULL ) _first_<treeLevel> = <label>.tree;
<endif>
<if(backtracking)>}<endif>
>>

/** x+=rule auto construct */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>
<super.listLabelAST(elem=label,...)>

```

```

>>

/** ^(rule ...) auto construct */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
  _last = (<ASTLabelType>)LT(1);
  <super.ruleRef(...)>
  <if(!rewriteMode)>
  <if(backtracking)>if ( ( <actions.(actionScope).synpredgate> ) ) <endif>root_<treeLevel> =
  (<ASTLabelType>)(ADAPTOR->becomeRoot(ADAPTOR, <label>.tree, root_<treeLevel>));
  <endif>
>>

/** ^(x+=rule ...) auto construct */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  <ruleRefRuleRoot(...)>
  <super.listLabelAST(elem=label,...)>
>>

/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
  _last = (<ASTLabelType>)LT(1);
  <super.ruleRefTrack(...)>
>>

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  _last = (<ASTLabelType>)LT(1);
  <super.ruleRefTrackAndListLabel(...)>
>>

/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
  _last = (<ASTLabelType>)LT(1);
  <super.ruleRefRootTrack(...)>
>>

/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  _last = (<ASTLabelType>)LT(1);
  <super.ruleRefRuleRootTrackAndListLabel(...)>
>>

/** Streams for token refs are tree nodes now; override to
 * change nextToken to nextNode.
 */
createRewriteNodeFromElement(token,hetero,scope) ::= <<
  <if(hetero)>
  <hetero>New(stream_<token>->nextNode(stream_<token>))

```

```

<else>
stream_<token>->nextNode(stream_<token>)
<endif>
>>

ruleCleanup() ::= <<
<super.ruleCleanup(...)>
<if(backtracking)>
if ( <actions.(actionScope).synpredgate> ) {<\n>
<endif>
<if(!ruleDescriptor.isSynPred)>
retval.stop = LT(-1);<\n>
<endif>
retval.tree = (<ASTLabelType>)ADAPTOR->rulePostProcessing(ADAPTOR, root_0);
<if(backtracking)>
}
<endif>
<ruleDescriptor.allTokenRefsInAltsWithRewrites
: {if (stream_<it> != NULL) stream_<it>->free(stream_<it>);}; separator="\n">
<ruleDescriptor.allRuleRefsInAltsWithRewrites
: {if (stream_<it> != NULL) stream_<it>->free(stream_<it>);}; separator="\n">
>>

```

Found in path(s):

```
* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-
jar/org/antlr/codegen/templates/C/ASTTreeParser.stg
```

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```
/*
```

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*/

/** Templates for building ASTs during tree parsing.

*

* Deal with many combinations. Dimensions are:

* Auto build or rewrite

* no label, label, list label (label/no-label handled together)

* child, root

* token, set, rule, wildcard

*

* Each combination has its own template except that label/no label

* is combined into tokenRef, ruleRef, ...

*/

group ASTTreeParser;

/** Add a variable to track last element matched */

ruleDeclarations() ::= <<

<super.ruleDeclarations()>

<ASTLabelType> _first_0 = null;

<ASTLabelType> _last = null;<\n>

>>

/** What to emit when there is no rewrite rule. For auto build

* mode, does nothing.

*/

noRewrite(rewriteBlockLevel, treeLevel) ::= <<

<if(backtracking)>if (state.backtracking==0) {<endif>

<if(rewriteMode)>

retval.tree = (<ASTLabelType>)_first_0;

if (adaptor.getParent(retval.tree)!=null && adaptor.isNil(adaptor.getParent(retval.tree)))

retval.tree = (<ASTLabelType>)adaptor.getParent(retval.tree);

<endif>

<if(backtracking)>}<endif>

>>

/** match ^(root children) in tree parser; override here to

* add tree construction actions.

*/

tree(root, actionsAfterRoot, children, nullableChildList,

enclosingTreeLevel, treeLevel) ::= <<

_last = (<ASTLabelType>)input.LT(1);

```

{
<ASTLabelType> _save_last_<treeLevel> = _last;
<ASTLabelType> _first_<treeLevel> = null;
<if(!rewriteMode)>
<ASTLabelType> root_<treeLevel> = (<ASTLabelType>)adaptor.nil();
<endif>
<root:element()>
<if(rewriteMode)>
<if(backtracking)>if ( state.backtracking==0 )<endif>
<if(root.el.rule)>
if ( _first_<enclosingTreeLevel>===null ) _first_<enclosingTreeLevel> = <root.el.label>.tree;
<else>
if ( _first_<enclosingTreeLevel>===null ) _first_<enclosingTreeLevel> = <root.el.label>;
<endif>
<endif>
<actionsAfterRoot:element()>
<if(nullableChildList)>
if ( input.LA(1)==Token.DOWN ) {
  match(input, Token.DOWN, null); <checkRuleBacktrackFailure()>
  <children:element()>
  match(input, Token.UP, null); <checkRuleBacktrackFailure()>
}
<else>
match(input, Token.DOWN, null); <checkRuleBacktrackFailure()>
<children:element()>
match(input, Token.UP, null); <checkRuleBacktrackFailure()>
<endif>
<if(!rewriteMode)>
adaptor.addChild(root_<enclosingTreeLevel>, root_<treeLevel>);
<endif>
_last = _save_last_<treeLevel>;
}<\n>
>>

```

```
// TOKEN AST STUFF
```

```

/** ID! and output=AST (same as plain tokenRef) 'cept add
 * setting of _last
 */
tokenRefBang(token,label,elementIndex) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.tokenRef(...)>
>>

```

```

/** ID auto construct */
tokenRef(token,label,elementIndex,hetero) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.tokenRef(...)>

```

```

<if(!rewriteMode)>
<if(backtracking)>if ( state.backtracking==0 ) {<endif>
<if(hetero)>
<label>_tree = new <hetero><(<label>);
<else>
<label>_tree = (<ASTLabelType>)adaptor.dupNode(<label>);
<endif><\n>
adaptor.addChild(root_<treeLevel>, <label>_tree);
<if(backtracking)>}<endif>
<else> <! rewrite mode !>
<if(backtracking)>if ( state.backtracking==0 )<endif>
if ( _first_<treeLevel>==null ) _first_<treeLevel> = <label>;
<endif>
>>

/** label+=TOKEN auto construct */
tokenRefAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRef(...)>
<listLabel(elem=label,...)>
>>

/** ^(ID ...) auto construct */
tokenRefRuleRoot(token,label,elementIndex,hetero) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.tokenRef(...)>
<if(!rewriteMode)>
<if(backtracking)>if ( state.backtracking==0 ) {<endif>
<if(hetero)>
<label>_tree = new <hetero><(<label>);
<else>
<label>_tree = (<ASTLabelType>)adaptor.dupNode(<label>);
<endif><\n>
root_<treeLevel> = (<ASTLabelType>)adaptor.becomeRoot(<label>_tree, root_<treeLevel>);
<if(backtracking)>}<endif>
<endif>
>>

/** Match ^(label+=TOKEN ...) auto construct */
tokenRefRuleRootAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRefRuleRoot(...)>
<listLabel(elem=label,...)>
>>

// SET AST

matchSet(s,label,hetero,elementIndex,postmatchCode) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.matchSet(..., postmatchCode={

```

```

<if(!rewriteMode)>
<if(backtracking)>if ( state.backtracking==0 ) {<endif>
<if(hetero)>
<label>_tree = new <hetero><(<label>);
<else>
<label>_tree = (<ASTLabelType>)adaptor.dupNode(<label>);
<endif><\n>
adaptor.addChild(root_<treeLevel>, <label>_tree);
<if(backtracking)>}<endif>
<endif>
}
)>
>>

matchRuleBlockSet(s,label,hetero,elementIndex,postmatchCode,treeLevel="0") ::= <<
<matchSet(...)>
<noRewrite()> <! set return tree !>
>>

matchSetBang(s,label,elementIndex,postmatchCode) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.matchSet(...)>
>>

matchSetRuleRoot(s,label,hetero,elementIndex,debug) ::= <<
<super.matchSet(..., postmatchCode={
<if(!rewriteMode)>
<if(backtracking)>if ( state.backtracking==0 ) {<endif>
<if(hetero)>
<label>_tree = new <hetero><(<label>);
<else>
<label>_tree = (<ASTLabelType>)adaptor.dupNode(<label>);
<endif><\n>
root_<treeLevel> = (<ASTLabelType>)adaptor.becomeRoot(<label>_tree, root_<treeLevel>);
<if(backtracking)>}<endif>
<endif>
}
)>
>>

// RULE REF AST

/** rule auto construct */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.ruleRef(...)>
<if(backtracking)>if ( state.backtracking==0 ) <endif>
<if(!rewriteMode)>

```



```

adaptor.addChild(root_<treeLevel>, <label>.getTree());
<else> <! rewrite mode !>
if ( _first_<treeLevel>==null ) _first_<treeLevel> = <label>.tree;
<endif>
>>

/** x+=rule auto construct */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>
<listLabel(elem=label+".getTree()",...)>
>>

/** ^(rule ...) auto construct */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.ruleRef(...)>
<if(!rewriteMode)>
<if(backtracking)>if ( state.backtracking==0 ) <endif>root_<treeLevel> =
(<ASTLabelType>)adaptor.becomeRoot(<label>.getTree(), root_<treeLevel>);
<endif>
>>

/** ^(x+=rule ...) auto construct */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...)>
<listLabel(elem=label+".getTree()",...)>
>>

/** Streams for token refs are tree nodes now; override to
 * change nextToken to nextNode.
 */
createRewriteNodeFromElement(token,hetero,scope) ::= <<
<if(hetero)>
new <hetero>(stream_<token>.nextNode())
<else>
stream_<token>.nextNode()
<endif>
>>

ruleCleanUp() ::= <<
<super.ruleCleanUp()>
<if(!rewriteMode)>
<if(backtracking)>if ( state.backtracking==0 ) {<\n><endif>
retval.tree = (<ASTLabelType>)adaptor.rulePostProcessing(root_0);
<if(backtracking)>}<endif>
<endif>
>>

```

Found in path(s):

```
* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-  
jar/org/antlr/codegen/templates/Perl5/ASTTreeParser.stg
```

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```
/*
```

```
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```

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```

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```
*/
```

```
/*
```

New style messages. This file contains the actual layout of the messages emitted by ANTLR.

The text itself is coming out of the languages/*stg files, according to the chosen locale.

This file contains the default format ANTLR uses.

```
*/
```

```
group antlr;
```

```
location(file, line, column) ::= "<file><(<line>,<column>)"
```

```
message(id, text) ::= "error <id> : <text>"
```

```
report(location, message, type) ::= "<location> : <type> <message.id> : <message.text>"
```

```
wantsSingleLineMessage() ::= "true"
```

Found in path(s):

* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/tool/templates/messages/formats/vs2005.stg

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*/

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* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/codegen/CSharp3Target.java

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```
*/
```

```
/** Template overrides to add debugging to normal Java output;
```

```
* If ASTs are built, then you'll also get ASTDbg.stg loaded.
```

```
*/
```

```
group Dbg;
```

```
@outputFile.debugPreprocessor() ::= "#define ANTLR_DEBUG"
```

```
@outputFile.imports() ::= <<
```

```
<@super.imports(>
```

```
using Antlr.Runtime.Debug;
```

```
using IOException = System.IO.IOException;
```

```
>>
```

```
@genericParser.members() ::= <<
```

```
<if(grammar.grammarIsRoot)>
```

```
public static readonly string[] ruleNames =
```

```
new string[]
```

```
{
```

```
"invalidRule", <grammar.allImportedRules:{rST | "<rST.name>"}; wrap="\n ", separator=", ">
```

```
};<\n>
```

```
<endif>
```

```
<if(grammar.grammarIsRoot)><! grammar imports other grammar(s) !>
```

```
int ruleLevel = 0;
```

```
public virtual int RuleLevel { get { return ruleLevel; } }
```

```
public virtual void IncRuleLevel() { ruleLevel++; }
```

```
public virtual void DecRuleLevel() { ruleLevel--; }
```

```

<if(profile)>
  <ctorForProfilingRootGrammar()>
<else>
  <ctorForRootGrammar()>
<endif>
<ctorForPredefinedListener()>
<else><! imported grammar !>
  public int RuleLevel { get { return <grammar.delegators:{g| <g:delegateName()>>}.RuleLevel; } }
  public void IncRuleLevel() { <grammar.delegators:{g| <g:delegateName()>>}.IncRuleLevel(); }
  public void DecRuleLevel() { <grammar.delegators:{g| <g:delegateName()>>}.DecRuleLevel(); }
  <ctorForDelegateGrammar()>
<endif>
<if(profile)>
public override bool AlreadyParsedRule( IIntStream input, int ruleIndex )
{
  int stopIndex = GetRuleMemoization(ruleIndex, input.Index);
  ((Profiler)dbg).ExamineRuleMemoization(input, ruleIndex, stopIndex,
  <grammar.composite.rootGrammar.recognizerName>.ruleNames[ruleIndex]);
  return base.AlreadyParsedRule(input, ruleIndex);
}<\n>
public override void Memoize( IIntStream input, int ruleIndex, int ruleStartIndex )
{
  ((Profiler)dbg).Memoize(input, ruleIndex, ruleStartIndex,
  <grammar.composite.rootGrammar.recognizerName>.ruleNames[ruleIndex]);
  base.Memoize(input, ruleIndex, ruleStartIndex);
}<\n>
<endif>
protected virtual bool EvalPredicate( bool result, string predicate )
{
  dbg.SemanticPredicate( result, predicate );
  return result;
}<\n>
>>

ctorForRootGrammar() ::= <<
<! bug: can't use <@super.members()> cut-n-paste instead !>
<! Same except we add port number and profile stuff if root grammar !>
public <name>( <inputStreamType> input )
: this( input, DebugEventSocketProxy.DefaultDebuggerPort, new RecognizerSharedState() )
{
}
public <name>( <inputStreamType> input, int port, RecognizerSharedState state )
: base( input, state )
{
  <parserCtorBody()>
  <createListenerAndHandshake()>
  <grammar.directDelegates:{g|<g:delegateName()> = new <g.recognizerName>( input, dbg, this.state,
  this<grammar.delegators:{g|, <g:delegateName()>> }> );}; separator="\n">

```

```

<@finally(>
}<\n>
>>

```

```

ctorForProfilingRootGrammar() ::= <<
<! bug: can't use <@super.members(>> cut-n-paste instead !>
public <name>( <inputStreamType> input )
: this( input, new Profiler(null), new RecognizerSharedState() )
{
}
public <name>( <inputStreamType> input, IDebugEventListener dbg, RecognizerSharedState state )
: base( input, dbg, state )
{
Profiler p = (Profiler)dbg;
p.setParser(this);
<parserCtorBody(>
<grammar.directDelegates:
{g|<g:delegateName(> = new <g.recognizerName>( input, dbg, this.state, this<grammar.delegators:{g|,
<g:delegateName(>> )> );}; separator="\n">
<@finally(>
}
<\n>
>>

```

```

/** Basically we don't want to set any dbg listeners are root will have it. */
ctorForDelegateGrammar() ::= <<
public <name>( <inputStreamType> input, IDebugEventListener dbg, RecognizerSharedState
state<grammar.delegators:{g|, <g.recognizerName> <g:delegateName(>> }> )
: base( input, dbg, state )
{
<parserCtorBody(>
<grammar.directDelegates:
{g|<g:delegateName(> = new <g.recognizerName>( input, this, this.state<grammar.delegators:{g|,
<g:delegateName(>> )> );}; separator="\n">
}<\n>
}
>>

```

```

ctorForPredefinedListener() ::= <<
public <name>( <inputStreamType> input, IDebugEventListener dbg )
<@superClassRef>: base( input, dbg, new RecognizerSharedState() )<@end>
{
<if(profile)>
Profiler p = (Profiler)dbg;
p.setParser(this);
<endif>
<parserCtorBody(>
<grammar.directDelegates:{g|<g:delegateName(> = new <g.recognizerName>(input, dbg, this.state,
this<grammar.delegators:{g|, <g:delegateName(>> )> );}; separator="\n">

```

```

<@finally(>
}<\n>
>>

createListenerAndHandshake() ::= <<
<if(TREE_PARSER)>
DebugEventSocketProxy proxy = new DebugEventSocketProxy( this, port, input.TreeAdaptor );<\n>
<else>
DebugEventSocketProxy proxy = new DebugEventSocketProxy( this, port, null );<\n>
<endif>
DebugListener = proxy;
try
{
proxy.Handshake();
}
catch ( IOException ioe )
{
ReportError( ioe );
}
>>

@genericParser.superClassName() ::= "Debug<@super.superClassName(>"

/*
* Many of the following rules were merged into CSharp2.stg.
*/

@rule.preamble() ::= <<
if (RuleLevel == 0)
DebugListener.Commence();
IncRuleLevel();
>>
//@rule.preamble() ::= <<
//try
//{
// dbg.EnterRule( GrammarFileName, "<ruleName>" );
// if ( RuleLevel == 0 )
// {
// dbg.Commence();
// }
// IncRuleLevel();
// dbg.Location( <ruleDescriptor.tree.line>, <ruleDescriptor.tree.charPositionInLine> );<\n>
//>>

@rule.postamble() ::= <<
DecRuleLevel();
if (RuleLevel == 0)
DebugListener.Terminate();

```

```

>>
//@rule.postamble() ::= <<
//dbg.Location(<ruleDescriptor.EORNode.line>, <ruleDescriptor.EORNode.charPositionInLine>);<\n>
//}
//finally
//{{
// dbg.ExitRule( GrammarFileName, "<ruleName>" );
// DecRuleLevel();
// if ( RuleLevel == 0 )
// {
//   dbg.Terminate();
// }
//}<\n>
//>>

//@insertSynpreds.start() ::= "dbg.BeginBacktrack( state.backtracking );"
//@insertSynpreds.stop() ::= "dbg.EndBacktrack( state.backtracking, success );"

// Common debug event triggers used by region overrides below

//enterSubRule() ::= <<
//try
//{{
// dbg.EnterSubRule( <decisionNumber> );<\n>
//>>

//exitSubRule() ::= <<
//}
//finally
//{{
// dbg.ExitSubRule( <decisionNumber> );
//}<\n>
//>>

//enterDecision() ::= <<
//try
//{{
// dbg.EnterDecision( <decisionNumber> );<\n>
//>>

//exitDecision() ::= <<
//}
//finally
//{{
// dbg.ExitDecision( <decisionNumber> );
//}<\n>
//>>

```



```

//enterAlt(n) ::= "dbg.EnterAlt( <n> );<n>"

// Region overrides that tell various constructs to add debugging triggers

//@block.predecision() ::= "<enterSubRule()><enterDecision()>"

//@block.postdecision() ::= "<exitDecision()>"

//@block.postbranch() ::= "<exitSubRule()>"

//@ruleBlock.predecision() ::= "<enterDecision()>"

//@ruleBlock.postdecision() ::= "<exitDecision()>"

//@ruleBlockSingleAlt.preal() ::= "<enterAlt(n=\"1\")>"

//@blockSingleAlt.preal() ::= "<enterAlt(n=\"1\")>"

//@positiveClosureBlock.preloop() ::= "<enterSubRule()>"

//@positiveClosureBlock.postloop() ::= "<exitSubRule()>"

//@positiveClosureBlock.predecision() ::= "<enterDecision()>"

//@positiveClosureBlock.postdecision() ::= "<exitDecision()>"

//@positiveClosureBlock.earlyExitException() ::=
// "dbg.RecognitionException( eee<decisionNumber> );<n>"

//@closureBlock.preloop() ::= "<enterSubRule()>"

//@closureBlock.postloop() ::= "<exitSubRule()>"

//@closureBlock.predecision() ::= "<enterDecision()>"

//@closureBlock.postdecision() ::= "<exitDecision()>"

//@altSwitchCase.preal() ::= "<enterAlt(n=i)>"

//@element.prematch() ::=
// "dbg.Location( <it.line>, <it.pos> );"

//@matchSet.mismatchedSetException() ::=
// "dbg.RecognitionException( mse );"

//@dfaState.noViableAltException() ::= "dbg.RecognitionException( nvae );"

//@dfaStateSwitch.noViableAltException() ::= "dbg.RecognitionException( nvae );"

```

```

//dfaDecision(decisionNumber,description) ::= <<
//try
//{
// isCyclicDecision = true;
// <super.dfaDecision(...)>
//}
//catch ( NoViableAltException nvae )
//{
// dbg.RecognitionException( nvae );
// throw nvae;
//}
//>>

//@cyclicDFA.errorMethod() ::= <<
//public override void Error( NoViableAltException nvae )
//{
// ((DebugParser)recognizer).dbg.RecognitionException( nvae );
//}
//>>

/** Force predicate validation to trigger an event */
evalPredicate(pred,description) ::= <<
EvalPredicate(<pred>, "<description>")
>>

```

Found in path(s):

```

* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-
jar/org/antlr/codegen/templates/CSharp2/Dbg.stg

```

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

/*

[The "BSD licence"]

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*/

/*

* This code generating template and the associated C runtime was produced by:

* Jim Idle jim|hereisanat|idle|dotgoeshere|ws.

* If it causes the destruction of the Universe, it will be pretty cool so long as

* I am in a different one at the time.

*/

group C implements ANTLRCore ;

cTypeInitMap ::= [

"int" : "0", // Integers start out being 0

"long" : "0", // Longs start out being 0

"float" : "0.0", // Floats start out being 0

"double" : "0.0", // Doubles start out being 0

"ANTLR3_BOOLEAN" : "ANTLR3_FALSE", // Booleans start out being Antlr C for false

"byte" : "0", // Bytes start out being 0

"short" : "0", // Shorts start out being 0

"char" : "0" // Chars start out being 0

]

leadIn(type) ::=

<<

/** \file

* This <type> file was generated by \$ANTLR version <ANTLRVersion>

*

* - From the grammar source file : <fileName>

* - On : <generatedTimestamp>

<if(LEXER)>

* - for the lexer : <name>Lexer

<endif>

<if(PARSER)>

* - for the parser : <name>Parser

<endif>

<if(TREE_PARSER)>

* - for the tree parser : <name>TreeParser

```
<endif>
*
* Editing it, at least manually, is not wise.
*
* C language generator and runtime by Jim Idle, jimi|hereisanat|idle|dotgoeshere|ws.
*
*
>>
```

```
/** The overall file structure of a recognizer; stores methods for rules
* and cyclic DFAs plus support code.
*/
```

```
outputFile( LEXER,
            PARSER,
            TREE_PARSER,
            actionScope,
            actions,
            docComment,
            recognizer,
            name,
            tokens,
            tokenNames,
            rules,
            cyclicDFAs,
            bitsets,
            buildTemplate,
            buildAST,
            rewriteMode,
            profile,
            backtracking,
            synpreds,
            memoize,
            numRules,
            fileName,
            ANTLRVersion,
            generatedTimestamp,
            trace,
            scopes,
            superClass,
            literals
            ) ::=
```

```
<<
```

```
<leadIn("C source")>
```

```
*/
```

```
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```

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// http://www.temporal-wave.com
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```

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```

```
<if(actions.(actionScope).header)>
```

```
/* =====
```

```
* This is what the grammar programmer asked us to put at the top of every file.
```

```
*/
```

```
<actions.(actionScope).header>
```

```
/* End of Header action.
```

```
* =====
```

```
*/
```

```
<endif>
```

```
/* -----
```

```
* Include the ANTLR3 generated header file.
```

```
*/
```

```
#include "<name>.h"
```

```
<actions.(actionScope).postinclude>
```

```
/* ----- */
```

```
<docComment>
```

```
<if(literals)>
```

```
/** String literals used by <name> that we must do things like MATCHS() with.
```

```
* C will normally just lay down 8 bit characters, and you can use L"xxx" to
```

```

* get wchar_t, but wchar_t is 16 bits on Windows, which is not UTF32 and so
* we perform this little trick of defining the literals as arrays of UINT32
* and passing in the address of these.
*/
<literals:{static ANTLR3_UCHAR lit_<i>[] = <it>;}; separator="\n">

<endif>

/* MACROS that hide the C interface implementations from the
* generated code, which makes it a little more understandable to the human eye.
* I am very much against using C pre-processor macros for function calls and bits
* of code as you cannot see what is happening when single stepping in debuggers
* and so on. The exception (in my book at least) is for generated code, where you are
* not maintaining it, but may wish to read and understand it. If you single step it, you know that input()
* hides some indirect calls, but is always referring to the input stream. This is
* probably more readable than ctx->input->istream->input(snarfle0->blarg) and allows me to rejig
* the runtime interfaces without changing the generated code too often, without
* confusing the reader of the generated output, who may not wish to know the gory
* details of the interface inheritance.
*/

#define CTX ctx

/* Aids in accessing scopes for grammar programmers
*/
#undef SCOPE_TYPE
#undef SCOPE_STACK
#undef SCOPE_TOP
#define SCOPE_TYPE(scope) p<name>_##scope##_SCOPE
#define SCOPE_STACK(scope) p<name>_##scope##_Stack
#define SCOPE_TOP(scope) ctx->p<name>_##scope##_Top
#define SCOPE_SIZE(scope) ctx->p<name>_##scope##_Stack_limit
#define SCOPE_INSTANCE(scope, i) (ctx->SCOPE_STACK(scope)->get(ctx->SCOPE_STACK(scope),i))

<if(LEXER)>

/* Macros for accessing things in a lexer
*/
#undef LEXER
#undef RECOGNIZER
#undef RULEMEMO
#undef GETCHARINDEX
#undef GETLINE
#undef GETCHARPOSITIONINLINE
#undef EMIT

```

```

#undef EMITNEW
#undef MATCHC
#undef MATCHS
#undef MATCHRANGE
#undef LTOKEN
#undef HASFAILED
#undef FAILEDFLAG
#undef INPUT
#undef STRSTREAM
#undef LA
#undef HASEXCEPTION
#undef EXCEPTION
#undef CONSTRUCTEX
#undef CONSUME
#undef LRECOVER
#undef MARK
#undef REWIND
#undef REWINDLAST
#undef BACKTRACKING
#undef MATCHANY
#undef MEMOIZE
#undef HAVEPARSEDRULE
#undef GETTEXT
#undef INDEX
#undef SEEK
#undef PUSHSTREAM
#undef POPSTREAM
#undef SETTEXT
#undef SETTEXT8

#define LEXER ctx->pLexer
#define RECOGNIZER LEXER->rec
#define LEXSTATE RECOGNIZER->state
#define TOKSOURCE LEXSTATE->tokSource
#define GETCHARINDEX() LEXER->getCharIndex(LEXER)
#define GETLINE() LEXER->getLine(LEXER)
#define GETTEXT() LEXER->getText(LEXER)
#define GETCHARPOSITIONINLINE() LEXER->getCharPositionInLine(LEXER)
#define EMIT() LEXSTATE->type = _type; LEXER->emit(LEXER)
#define EMITNEW(t) LEXER->emitNew(LEXER, t)
#define MATCHC(c) LEXER->matchc(LEXER, c)
#define MATCHS(s) LEXER->matchs(LEXER, s)
#define MATCHRANGE(c1,c2) LEXER->matchRange(LEXER, c1, c2)
#define MATCHANY() LEXER->matchAny(LEXER)
#define LTOKEN LEXSTATE->token
#define HASFAILED() (LEXSTATE->failed == ANTLR3_TRUE)
#define BACKTRACKING LEXSTATE->backtracking
#define FAILEDFLAG LEXSTATE->failed

```

```

#define INPUT LEXER->input
#define STRSTREAM INPUT
#define ISTREAM INPUT->istream
#define INDEX() ISTREAM->index(ISTREAM)
#define SEEK(n) ISTREAM->seek(ISTREAM, n)
#define EOF_TOKEN &(LEXSTATE->tokSource->eofToken)
#define HASEXCEPTION() (LEXSTATE->error == ANTLR3_TRUE)
#define EXCEPTION LEXSTATE->exception
#define CONSTRUCTEX() RECOGNIZER->exConstruct(RECOGNIZER)
#define LRECOVER() LEXER->recover(LEXER)
#define MARK() ISTREAM->mark(ISTREAM)
#define REWIND(m) ISTREAM->rewind(ISTREAM, m)
#define REWINDLAST() ISTREAM->rewindLast(ISTREAM)
#define MEMOIZE(ri,si) RECOGNIZER->memoize(RECOGNIZER, ri, si)
#define HAVEPARSEDRULE(r) RECOGNIZER->alreadyParsedRule(RECOGNIZER, r)
#define PUSHSTREAM(str) LEXER->pushCharStream(LEXER, str)
#define POPSTREAM() LEXER->popCharStream(LEXER)
#define SETTEXT(str) LEXSTATE->text = str
#define SKIP() LEXSTATE->token = &(TOKSOURCE->skipToken)
#define USER1 LEXSTATE->user1
#define USER2 LEXSTATE->user2
#define USER3 LEXSTATE->user3
#define CUSTOM LEXSTATE->custom
#define RULEMEMO LEXSTATE->ruleMemo
#define DBG RECOGNIZER->debugger

/* If we have been told we can rely on the standard 8 bit or UTF16 input
 * stream, then we can define our macros to use the direct pointers
 * in the input object, which is much faster than indirect calls. This
 * is really only significant to lexers with a lot of fragment rules (which
 * do not place LA(1) in a temporary at the moment) and even then
 * only if there is a lot of input (order of say 1M or so).
 */
#if defined(ANTLR3_INLINE_INPUT_8BIT) || defined(ANTLR3_INLINE_INPUT_UTF16)

# ifdef ANTLR3_INLINE_INPUT_8BIT

/* 8 bit character set */

# define NEXTCHAR ((pANTLR3_UINT8)(INPUT->nextChar))
# define DATAP ((pANTLR3_UINT8)(INPUT->data))

# else

# define NEXTCHAR ((pANTLR3_UINT16)(INPUT->nextChar))
# define DATAP ((pANTLR3_UINT16)(INPUT->data))

# endif

```



```

# define LA(n) ((NEXTCHAR + n) > (DATAP + INPUT->sizeBuf) ? ANTLR3_CHARSTREAM_EOF :
(ANTLR3_UCHAR)(*NEXTCHAR + n - 1))
# define CONSUME() //
{ //
if (NEXTCHAR < (DATAP + INPUT->sizeBuf)) //
{ //
INPUT->charPositionInLine++; //
if ((ANTLR3_UCHAR)(*NEXTCHAR) == INPUT->newlineChar) //
{ //
INPUT->line++; //
INPUT->charPositionInLine = 0; //
INPUT->currentLine = (void *) (NEXTCHAR + 1); //
} //
INPUT->nextChar = (void *) (NEXTCHAR + 1); //
} //
}

#else

// Pick up the input character by calling the input stream implementation.
//
#define CONSUME() INPUT->istream->consume(INPUT->istream)
#define LA(n) INPUT->istream->_LA(INPUT->istream, n)

#endif
<endif>

<if(PARSER)>
/* Macros for accessing things in the parser
*/

#undef PARSER
#undef RECOGNIZER
#undef HAVEPARSEDRULE
#undef MEMOIZE
#undef INPUT
#undef STRSTREAM
#undef HASEXCEPTION
#undef EXCEPTION
#undef MATCHT
#undef MATCHANYT
#undef FOLLOWSTACK
#undef FOLLOWPUSH
#undef FOLLOWPOP
#undef PRECOVER
#undef PREPORTERROR
#undef LA

```

```

#undef LT
#undef CONSTRUCTEX
#undef CONSUME
#undef MARK
#undef REWIND
#undef REWINDLAST
#undef PERRORRECOVERY
#undef HASFAILED
#undef FAILEDFLAG
#undef RECOVERFROMMISMATCHEDSET
#undef RECOVERFROMMISMATCHEDELEMENT
#undef INDEX
#undef ADAPTOR
#undef SEEK
#undef RULEMEMO
#undef DBG

#define PARSER ctx->pParser
#define RECOGNIZER PARSER->rec
#define PSRSTATE RECOGNIZER->state
#define HAVEPARSEDRULE(r) RECOGNIZER->alreadyParsedRule(RECOGNIZER, r)
#define MEMOIZE(ri,si) RECOGNIZER->memoize(RECOGNIZER, ri, si)
#define INPUT PARSER->tstream
#define STRSTREAM INPUT
#define ISTREAM INPUT->istream
#define INDEX() ISTREAM->index(INPUT->istream)
#define HASEXCEPTION() (PSRSTATE->error == ANTLR3_TRUE)
#define EXCEPTION PSRSTATE->exception
#define MATCHT(t, fs) RECOGNIZER->match(RECOGNIZER, t, fs)
#define MATCHANYT() RECOGNIZER->matchAny(RECOGNIZER)
#define FOLLOWSTACK PSRSTATE->following
#ifdef SKIP_FOLLOW_SETS
#define FOLLOWPUSH(x)
#define FOLLOWPOP()
#else
#define FOLLOWPUSH(x) FOLLOWSTACK->push(FOLLOWSTACK, ((void *)&(x)), NULL)
#define FOLLOWPOP() FOLLOWSTACK->pop(FOLLOWSTACK)
#endif
#define PRECOVER() RECOGNIZER->recover(RECOGNIZER)
#define PREPORTERROR() RECOGNIZER->reportError(RECOGNIZER)
#define LA(n) INPUT->istream->_LA(ISTREAM, n)
#define LT(n) INPUT->_LT(INPUT, n)
#define CONSTRUCTEX() RECOGNIZER->exConstruct(RECOGNIZER)
#define CONSUME() ISTREAM->consume(ISTREAM)
#define MARK() ISTREAM->mark(ISTREAM)
#define REWIND(m) ISTREAM->rewind(ISTREAM, m)
#define REWINDLAST() ISTREAM->rewindLast(ISTREAM)
#define SEEK(n) ISTREAM->seek(ISTREAM, n)

```

```

#define PERRORRECOVERY PSRSTATE->errorRecovery
#define FAILEDFLAG PSRSTATE->failed
#define HASFAILED() (FAILEDFLAG == ANTLR3_TRUE)
#define BACKTRACKING PSRSTATE->backtracking
#define RECOVERFROMMISMATCHEDSET(s) RECOGNIZER->recoverFromMismatchedSet(RECOGNIZER,
s)
#define RECOVERFROMMISMATCHEDELEMENT(e) RECOGNIZER-
>recoverFromMismatchedElement(RECOGNIZER, s)
#define ADAPTOR ctx->adaptor
#define RULEMEMO PSRSTATE->ruleMemo
#define DBG RECOGNIZER->debugger

```

```
<endif>
```

```
<if(TREE_PARSER)>
```

```
/* Macros for accessing things in the parser
```

```
*/
```

```

#undef PARSE
#undef RECOGNIZER
#undef HAVEPARSEDRULE
#undef INPUT
#undef STRSTREAM
#undef HASEXCEPTION
#undef EXCEPTION
#undef MATCHT
#undef MATCHANYT
#undef FOLLOWSTACK
#undef FOLLOWPUSH
#undef FOLLOWPOP
#undef PRECOVER
#undef PREPORTERROR
#undef LA
#undef LT
#undef CONSTRUCTEX
#undef CONSUME
#undef MARK
#undef REWIND
#undef REWINDLAST
#undef PERRORRECOVERY
#undef HASFAILED
#undef FAILEDFLAG
#undef RECOVERFROMMISMATCHEDSET
#undef RECOVERFROMMISMATCHEDELEMENT
#undef BACKTRACKING
#undef ADAPTOR
#undef RULEMEMO
#undef SEEK

```

```

#undef INDEX
#undef DBG

#define PARSER    ctx->pTreeParser
#define RECOGNIZER  PARSER->rec
#define PSRSTATE  RECOGNIZER->state
#define HAVEPARSEDRULE(r)  RECOGNIZER->alreadyParsedRule(RECOGNIZER, r)
#define INPUT    PARSER->ctnstream
#define ISTREAM  INPUT->tstream->istream
#define STRSTREAM  INPUT->tstream
#define HASEXCEPTION()  (PSRSTATE->error == ANTLR3_TRUE)
#define EXCEPTION  PSRSTATE->exception
#define MATCHT(t, fs)  RECOGNIZER->match(RECOGNIZER, t, fs)
#define MATCHANYT()  RECOGNIZER->matchAny(RECOGNIZER)
#define FOLLOWSTACK  PSRSTATE->following
#define FOLLOWPUSH(x)  FOLLOWSTACK->push(FOLLOWSTACK, ((void *)&(x)), NULL)
#define FOLLOWPOP()  FOLLOWSTACK->pop(FOLLOWSTACK)
#define PRECOVER()  RECOGNIZER->recover(RECOGNIZER)
#define PREPORTERROR()  RECOGNIZER->reportError(RECOGNIZER)
#define LA(n)  ISTREAM->_LA(ISTREAM, n)
#define LT(n)  INPUT->tstream->_LT(INPUT->tstream, n)
#define CONSTRUCTEX()  RECOGNIZER->exConstruct(RECOGNIZER)
#define CONSUME()  ISTREAM->consume(ISTREAM)
#define MARK()  ISTREAM->mark(ISTREAM)
#define REWIND(m)  ISTREAM->rewind(ISTREAM, m)
#define REWINDLAST()  ISTREAM->rewindLast(ISTREAM)
#define PERORRECOVERY  PSRSTATE->errorRecovery
#define FAILEDFLAG  PSRSTATE->failed
#define HASFAILED()  (FAILEDFLAG == ANTLR3_TRUE)
#define BACKTRACKING  PSRSTATE->backtracking
#define RECOVERFROMMISMATCHEDSET(s)  RECOGNIZER->recoverFromMismatchedSet(RECOGNIZER,
s)
#define RECOVERFROMMISMATCHEDELEMENT(e)  RECOGNIZER-
>recoverFromMismatchedElement(RECOGNIZER, s)
#define ADAPTOR          INPUT->adaptor
#define RULEMEMO  PSRSTATE->ruleMemo
#define SEEK(n)  ISTREAM->seek(ISTREAM, n)
#define INDEX()  ISTREAM->index(ISTREAM)
#define DBG    RECOGNIZER->debugger

<endif>

#define TOKTEXT(tok, txt)  tok, (pANTLR3_UINT8)txt

```

```

/* The 4 tokens defined below may well clash with your own #defines or token types. If so
* then for the present you must use different names for your defines as these are hard coded
* in the code generator. It would be better not to use such names internally, and maybe

```

```

* we can change this in a forthcoming release. I deliberately do not #undef these
* here as this will at least give you a redefined error somewhere if they clash.
*/
#define UP ANTLR3_TOKEN_UP
#define DOWN ANTLR3_TOKEN_DOWN
#define EOR ANTLR3_TOKEN_EOR
#define INVALID ANTLR3_TOKEN_INVALID

/* =====
* Functions to create and destroy scopes. First come the rule scopes, followed
* by the global declared scopes.
*/

<rules: {r |<if(r.ruleDescriptor.ruleScope)>
<ruleAttributeScopeFuncDecl(scope=r.ruleDescriptor.ruleScope)>
<ruleAttributeScopeFuncs(scope=r.ruleDescriptor.ruleScope)>
<endif>}>

<recognizer.scopes: {<if(it.isDynamicGlobalScope)>
<globalAttributeScopeFuncDecl(scope=it)>
<globalAttributeScopeFuncs(scope=it)>
<endif>}>

/* ===== */

/* =====
* Start of recognizer
*/

<recognizer>

/* End of code
* =====
*/

>>
headerFileExtension() ::= ".h"

headerFile( LEXER,
           PARSER,
           TREE_PARSER,
           actionScope,
           actions,
           docComment,
           recognizer,
           name,
           tokens,

```

```

    tokenNames,
    rules,
    cyclicDFAs,
    bitsets,
    buildTemplate,
    buildAST,
    rewriteMode,
    profile,
    backtracking,
    synpreds,
    memoize,
    numRules,
    fileName,
    ANTLRVersion,
    generatedTimestamp,
    trace,
    scopes,
    superClass,
    literals
) ::=
<<
<leadIn("C header")>
<if(PARSER)>
* The parser <mainName()>
<endif>
<if(LEXER)>
* The lexer <mainName()>
<endif>
<if(TREE_PARSER)>
* The tree parser <mainName()>
<endif>
has the callable functions (rules) shown below,
* which will invoke the code for the associated rule in the source grammar
* assuming that the input stream is pointing to a token/text stream that could begin
* this rule.
*
* For instance if you call the first (topmost) rule in a parser grammar, you will
* get the results of a full parse, but calling a rule half way through the grammar will
* allow you to pass part of a full token stream to the parser, such as for syntax checking
* in editors and so on.
*
* The parser entry points are called indirectly (by function pointer to function) via
* a parser context typedef p<name>, which is returned from a call to <name>New().
*
<if(LEXER)>
* As this is a generated lexer, it is unlikely you will call it 'manually'. However
* the methods are provided anyway.
*

```

```

<endif>
* The methods in p<name> are as follows:
*
* <rules: {r | <if(!r.ruleDescriptor.isSynPred)> - <headerReturnType(ruleDescriptor=r.ruleDescriptor,...)>
p<name>-><r.ruleDescriptor.name>(p<name><endif>}; separator="\n * ">
*
* The return type for any particular rule is of course determined by the source
* grammar file.
*/
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#ifndef _<name>_H
#define _<name>_H
<actions.(actionScope).preincludes>
/* =====
* Standard antlr3 C runtime definitions
*/
#include \<antlr3.h>

/* End of standard antlr 3 runtime definitions
* =====

```

```

*/
<actions.(actionScope).includes>

#ifdef __cplusplus
extern "C" {
#endif

// Forward declare the context typedef so that we can use it before it is
// properly defined. Delegators and delegates (from import statements) are
// interdependent and their context structures contain pointers to each other
// C only allows such things to be declared if you pre-declare the typedef.
//
typedef struct <name>_Ctx_struct <name>, * p<name>;

<if(recognizer.grammar.delegates)>
// Include delegate definition header files
//
<recognizer.grammar.delegates: {g|#include \<<g.recognizerName>.h}>; separator="\n">

<endif>

<actions.(actionScope).header>

#ifdef ANTLR3_WINDOWS
// Disable: Unreferenced parameter, - Rules with parameters that are not used
// constant conditional, - ANTLR realizes that a prediction is always true (synpred usually)
// initialized but unused variable - tree rewrite variables declared but not needed
// Unreferenced local variable - lexer rule declares but does not always use _type
// potentially uninitialized variable used - retval always returned from a rule
// unreferenced local function has been removed - susually getTokenNames or freeScope, they can go without
warnigns
//
// These are only really displayed at warning level /W4 but that is the code ideal I am aiming at
// and the codegen must generate some of these warnings by necessity, apart from 4100, which is
// usually generated when a parser rule is given a parameter that it does not use. Mostly though
// this is a matter of orthogonality hence I disable that one.
//
#pragma warning( disable : 4100 )
#pragma warning( disable : 4101 )
#pragma warning( disable : 4127 )
#pragma warning( disable : 4189 )
#pragma warning( disable : 4505 )
#pragma warning( disable : 4701 )
#endif
<if(backtracking)>

/* =====

```



```

* BACKTRACKING IS ENABLED
* =====
*/
<endif>

<rules: {r |<headerReturnScope(ruleDescriptor=r.ruleDescriptor,...)>}>

<scopes: {<if(it.isDynamicGlobalScope)><globalAttributeScopeDecl(scope=it)><endif>}>
<rules: {r |<ruleAttributeScopeDecl(scope=r.ruleDescriptor.ruleScope)>}>
<if(recognizer.grammar.delegators)>
// Include delegator definition header files
//
<recognizer.grammar.delegators: {g|#include \<<g.recognizerName>.h>}; separator="\n">

<endif>

/** Context tracking structure for <mainName()>
*/
struct <name>_Ctx_struct
{
    /** Built in ANTLR3 context tracker contains all the generic elements
    * required for context tracking.
    */
<if(PARSER)>
    pANTLR3_PARSER  pParser;
<endif>
<if(LEXER)>
    pANTLR3_LEXER  pLexer;
<endif>
<if(TREE_PARSER)>
    pANTLR3_TREE_PARSER  pTreeParser;
<endif>

<if(recognizer.grammar.delegates)>
<recognizer.grammar.delegates:
    {g|p<g.recognizerName> <g:delegateName()>;}; separator="\n">
<endif>
<if(recognizer.grammar.delegators)>
<recognizer.grammar.delegators:
    {g|p<g.recognizerName> <g:delegateName()>;}; separator="\n">
<endif>
<scopes: {<if(it.isDynamicGlobalScope)>
    <globalAttributeScopeDef(scope=it)>
<endif>}; separator="\n\n">
<rules: {r |<if(r.ruleDescriptor.ruleScope)>
    <ruleAttributeScopeDef(scope=r.ruleDescriptor.ruleScope)>
<endif>}>

```

```

<if(LEXER)>
  <rules:{r | <if(!r.ruleDescriptor.isSynPred)><headerReturnType(ruleDescriptor=r.ruleDescriptor)>
(*m<r.ruleDescriptor.name>) (struct <name>_Ctx_struct * ctx<if(r.ruleDescriptor.parameterScope)>,
<endif><r.ruleDescriptor.parameterScope:parameterScope(scope=it)>);<endif>}; separator="\n";>
<endif>
<if(!LEXER)>
  <rules:{r | <headerReturnType(ruleDescriptor=r.ruleDescriptor)> (*<r.ruleDescriptor.name>) (struct
<name>_Ctx_struct * ctx<if(r.ruleDescriptor.parameterScope)>,
<endif><r.ruleDescriptor.parameterScope:parameterScope(scope=it)>);}; separator="\n";>
<! generate rule/method definitions for imported rules so they
appear to be defined in this recognizer. !>
  // Delegated rules
<recognizer.grammar.delegatedRules:{ruleDescriptor|
  <headerReturnType(ruleDescriptor)> (*<ruleDescriptor.name>)(struct <name>_Ctx_struct *
ctx<if(ruleDescriptor.parameterScope)>, <endif><ruleDescriptor.parameterScope:parameterScope(scope=it)>);};
separator="\n";>
<endif>

  const char * (*getGrammarFileName());
  void (*reset) (struct <name>_Ctx_struct * ctx);
  void (*free) (struct <name>_Ctx_struct * ctx);
  <@members>
  <@end>
  <actions.(actionScope).context>
};

// Function prototypes for the constructor functions that external translation units
// such as delegators and delegates may wish to call.
//
ANTLR3_API p<name> <name>New (<inputType()> instream<recognizer.grammar.delegators:{g|,
p<g.recognizerName> <g:delegateName()>}>);
ANTLR3_API p<name> <name>NewSSD (<inputType()> instream,
pANTLR3_RECOGNIZER_SHARED_STATE state<recognizer.grammar.delegators:{g|, p<g.recognizerName>
<g:delegateName()>}>);
<if(!recognizer.grammar.grammarIsRoot)>
extern pANTLR3_UINT8 <recognizer.grammar.composite.rootGrammar.recognizerName>TokenNames[];
<endif>

/** Symbolic definitions of all the tokens that the <grammarType()> will work with.
* \{
*
* Antlr will define EOF, but we can't use that as it is too common in
* in C header files and that would be confusing. There is no way to filter this out at the moment
* so we just undef it here for now. That isn't the value we get back from C recognizers
* anyway. We are looking for ANTLR3_TOKEN_EOF.
*/
#ifdef EOF

```

```

#undef EOF
#endif
#ifdef Tokens
#undef Tokens
#endif
<tokens:{#define <it.name> <it.type>}; separator="\n">
#ifdef EOF
#undef EOF
#define EOF ANTLR3_TOKEN_EOF
#endif

#ifdef TOKENSOURCE
#define TOKENSOURCE(lxr->pLexer->rec->state->tokSource)
#endif

/* End of token definitions for <name>
* =====
*/
/** \} */

#ifdef __cplusplus
}
#endif

#endif

/* END - Note:Keep extra line feed to satisfy UNIX systems */

>>

inputType() ::= <<
<if(LEXER)>
pANTLR3_INPUT_STREAM
<endif>
<if(PARSER)>
pANTLR3_COMMON_TOKEN_STREAM
<endif>
<if(TREE_PARSER)>
pANTLR3_COMMON_TREE_NODE_STREAM
<endif>
>>

grammarType() ::= <<
<if(PARSER)>
parser
<endif>
<if(LEXER)>
lexer

```

```
<endif>
<if(TREE_PARSER)>
tree parser
<endif>
>>
```

```
mainName() ::= <<
<if(PARSER)>
<name>
<endif>
<if(LEXER)>
<name>
<endif>
<if(TREE_PARSER)>
<name>
<endif>
>>
```

```
headerReturnScope(ruleDescriptor) ::= "<returnScope(...)>"
```

```
headerReturnType(ruleDescriptor) ::= <<
<if(LEXER)>
<if(!r.ruleDescriptor.isSynPred)>
void
<else>
<ruleDescriptor:returnType()>
<endif>
<else>
<ruleDescriptor:returnType()>
<endif>
>>
```

```
// Produce the lexer output
```

```
//
```

```
lexer( grammar,
name,
tokens,
scopes,
rules,
numRules,
labelType="pANTLR3_COMMON_TOKEN",
filterMode,
superClass) ::= <<
```

```
<if(filterMode)>
```

```
/* Forward declare implementation function for ANTLR3_TOKEN_SOURCE interface when
```

```
* this is a filter mode lexer.
```

```
*/
```

```

static pANTLR3_COMMON_TOKEN <name>NextToken (pANTLR3_TOKEN_SOURCE toksource);

/* Override the normal MEMOIZE and HAVEALREADYPARSED macros as this is a filtering
 * lexer. In filter mode, the memoizing and backtracking are gated at BACKTRACKING > 1 rather
 * than just BACKTRACKING. In some cases this might generate code akin to:
 * if (BACKTRACKING) if (BACKTRACKING > 1) memoize.
 * However, I assume that the C compilers/optimizers are smart enough to work this one out
 * these days - Jim
 */
#undef MEMOIZE
#define MEMOIZE(ri,si) if (BACKTRACKING>1) { RECOGNIZER->memoize(RECOGNIZER, ri, si) }
#undef HAVEPARSEDRULE
#define HAVEPARSEDRULE(r) if (BACKTRACKING>1) { RECOGNIZER->alreadyParsedRule(RECOGNIZER,
r) }
<endif>

/* Forward declare the locally static matching functions we have generated and any predicate functions.
 */
<rules:{r | static ANTLR3_INLINE <headerReturnType(ruleDescriptor=r.ruleDescriptor)>
<if(!r.ruleDescriptor.isSynPred)>m<endif><r.ruleDescriptor.name> (p<name>
ctx<if(r.ruleDescriptor.parameterScope)>, <endif><r.ruleDescriptor.parameterScope:parameterScope(scope=it)>);};
separator="\n";>
static void <name>Free(p<name> ctx);

/* =====
 * Lexer matching rules end.
 * =====
 */

<scopes:{<if(it.isDynamicGlobalScope)><globalAttributeScope(scope=it)><endif>}>

<actions.lexer.members>

static void
<name>Free (p<name> ctx)
{
<if(memoize)>
if (RULEMEMO != NULL)
{
RULEMEMO->free(RULEMEMO);
RULEMEMO = NULL;
}
<endif>
<if(grammar.directDelegates)>
// Free the lexers that we delegated to
// functions to. NULL the state so we only free it once.
//
<grammar.directDelegates:

```

```

    {g|ctx-><g:delegateName()>->pLexer->rec->state = NULL;
    ctx-><g:delegateName()>->free(ctx-><g:delegateName()>);}; separator="\n">
<endif>
    LEXER->free(LEXER);

    ANTLR3_FREE(ctx);
}

static void
<name>Reset (p<name> ctx)
{
    RECOGNIZER->reset(RECOGNIZER);
}

/** \brief Name of the grammar file that generated this code
*/
static const char fileName[] = "<fileName>";

/** \brief Return the name of the grammar file that generated this code.
*/
static const char * getGrammarFileName()
{
    return fileName;
}

<if(filterMode)>
    <filteringNextToken()>
<endif>

/** \brief Create a new lexer called <name>
*
* \param[in] instream Pointer to an initialized input stream
* \return
* - Success p<name> initialized for the lex start
* - Fail NULL
*/
ANTLR3_API p<name> <name>New
(<inputType()> instream<grammar.delegators:{g|, p<g.recognizerName> <g:delegateName()>>})
{
    // See if we can create a new lexer with the standard constructor
    //
    return <name>NewSSD(instream, NULL<grammar.delegators:{g|, <g:delegateName()>>});
}

/** \brief Create a new lexer called <name>
*
* \param[in] instream Pointer to an initialized input stream
* \param[state] state Previously created shared recognizer stat

```

```

* \return
* - Success p<name> initialized for the lex start
* - Fail NULL
*/
ANTLR3_API p<name> <name>NewSSD
(pANTLR3_INPUT_STREAM instream, pANTLR3_RECOGNIZER_SHARED_STATE
state<grammar.delegators:{g|, p<g.recognizerName> <g.delegateName()>}>>)
{
    p<name> ctx; // Context structure we will build and return

    ctx = (p<name>) ANTLR3_CALLOC(1, sizeof(<name>));

    if (ctx == NULL)
    {
        // Failed to allocate memory for lexer context
        return NULL;
    }

    /* -----
    * Memory for basic structure is allocated, now to fill in
    * in base ANTLR3 structures. We initialize the function pointers
    * for the standard ANTLR3 lexer function set, but upon return
    * from here, the programmer may set the pointers to provide custom
    * implementations of each function.
    *
    * We don't use the macros defined in <name>.h here so you can get a sense
    * of what goes where.
    */

    /* Create a base lexer, using the supplied input stream
    */
    ctx->pLexer = antlr3LexerNewStream(ANTLR3_SIZE_HINT, instream, state);

    /* Check that we allocated the memory correctly
    */
    if (ctx->pLexer == NULL)
    {
        ANTLR3_FREE(ctx);
        return NULL;
    }
<if(memoize)>
<if(grammar.grammarIsRoot)>
    // Create a LIST for recording rule memos.
    //
    ctx->pLexer->rec->ruleMemo = antlr3IntTrieNew(15); /* 16 bit depth is enough for 32768 rules! */
<endif>
<endif>

```

```

/* Install the implementation of our <name> interface
*/
<rules:{r | <if(!r.ruleDescriptor.isSynPred)>ctx->m<r.ruleDescriptor.name> =
m<r.ruleDescriptor.name>;<endif>}; separator="\n";>

/** When the nextToken() call is made to this lexer's pANTLR3_TOKEN_SOURCE
* it will call mTokens() in this generated code, and will pass it the ctx
* pointer of this lexer, not the context of the base lexer, so store that now.
*/
ctx->pLexer->ctx = ctx;

/**Install the token matching function
*/
ctx->pLexer->mTokens = (void (*) (void *))(mTokens);

ctx->getGrammarFileName = getGrammarFileName;
ctx->free = <name>Free;
ctx->reset = <name>Reset;

<if(grammar.directDelegates)>
// Initialize the lexers that we are going to delegate some
// functions to.
//
<grammar.directDelegates:
    {g|ctx-><g:delegateName()> = <g.recognizerName>NewSSD(instream, ctx->pLexer->rec->state,
ctx->grammar.delegators:{g|, <g:delegateName()>});}; separator="\n">
<endif>
<if(grammar.delegators)>
// Install the pointers back to lexers that will delegate us to perform certain functions
// for them.
//
<grammar.delegators:
    {g|ctx-><g:delegateName()> = <g:delegateName()>;}; separator="\n">
<endif>
<if(filterMode)>
/* We have filter mode turned on, so install the filtering nextToken function
*/
ctx->pLexer->rec->state->tokSource->nextToken = <name>NextToken;
<endif>
<actions.lexer.apifuncs>

/* Return the newly built lexer to the caller
*/
return ctx;
}
<if(cyclicDFAs)>

/* =====

```



```

* DFA tables for the lexer
*/
<cyclicDFAs:cyclicDFA(> <! dump tables for all DFA !>
/* =====
* End of DFA tables for the lexer
*/
<endif>

/* =====
* Functions to match the lexer grammar defined tokens from the input stream
*/

<rules; separator="\n\n">

/* =====
* Lexer matching rules end.
* =====
*/
<if(synpreds)>

/* =====
* Lexer syntactic predicates
*/
<synpreds:{p | <lexerSynpred(predname=p)>}>
/* =====
* Lexer syntactic predicates end.
* =====
*/
<endif>

/* End of Lexer code
* =====
* =====
*/
>>

```

```

filteringNextToken() ::= <<
/** An override of the lexer's nextToken() method that backtracks over mTokens() looking
* for matches in lexer filterMode. No error can be generated upon error; just rewind, consume
* a token and then try again. BACKTRACKING needs to be set as well.
* Make rule memoization happen only at levels above 1 as we start mTokens
* at BACKTRACKING==1.
*/
static pANTLR3_COMMON_TOKEN
<name>NextToken(pANTLR3_TOKEN_SOURCE toksource)
{

```

```

pANTLR3_LEXER lexer;
pANTLR3_RECOGNIZER_SHARED_STATE state;

lexer = (pANTLR3_LEXER)(toksource->super);
state = lexer->rec->state;

/* Get rid of any previous token (token factory takes care of
 * any deallocation when this token is finally used up.
 */
state ->token = NULL;
state ->error = ANTLR3_FALSE; /* Start out without an exception */
state ->failed = ANTLR3_FALSE;

/* Record the start of the token in our input stream.
 */
state->tokenStartCharIndex = lexer->input->istream->index(lexer->input->istream);
state->tokenStartCharPositionInLine = lexer->input->getCharPositionInLine(lexer->input);
state->tokenStartLine = lexer->input->getLine(lexer->input);
state->text = NULL;

/* Now call the matching rules and see if we can generate a new token
 */
for (;;)
{
if (lexer->input->istream->_LA(lexer->input->istream, 1) == ANTLR3_CHARSTREAM_EOF)
{
/* Reached the end of the stream, nothing more to do.
 */
pANTLR3_COMMON_TOKEN teof = &(toksource->eofToken);

teof->setStartIndex (teof, lexer->getCharIndex(lexer));
teof->setStopIndex (teof, lexer->getCharIndex(lexer));
teof->setLine (teof, lexer->getLine(lexer));
return teof;
}

state->token = NULL;
state->error = ANTLR3_FALSE; /* Start out without an exception */

{
ANTLR3_MARKER m;

m = lexer->input->istream->mark(lexer->input->istream);
state->backtracking = 1; /* No exceptions */
state->failed = ANTLR3_FALSE;

/* Call the generated lexer, see if it can get a new token together.
 */

```

```

lexer->mTokens(lexer->ctx);
state->backtracking = 0;

<! mTokens backtracks with synpred at BACKTRACKING==2
and we set the synpredgate to allow actions at level 1. !>

if (state->failed == ANTLR3_TRUE)
{
lexer->input->istream->rewind(lexer->input->istream, m);
lexer->input->istream->consume(lexer->input->istream); <! advance one char and try again !>
}
else
{
lexer->emit(lexer); /* Assemble the token and emit it to the stream */
return state->token;
}
}
}
}
}
>>

actionGate() ::= "BACKTRACKING==0"

filteringActionGate() ::= "BACKTRACKING==1"

/** How to generate a parser */
genericParser( grammar,
name,
scopes,
tokens,
tokenNames,
rules,
numRules,
bitsets,
inputStreamType,
superClass,
ASTLabelType="pANTLR3_BASE_TREE",
labelType,
members,
rewriteElementType, filterMode
) ::= <<

<if(grammar.grammarIsRoot)>
/** \brief Table of all token names in symbolic order, mainly used for
* error reporting.
*/
pANTLR3_UINT8 <name>TokenNames[<length(tokenNames)>+4]

```

```

= {
    (pANTLR3_UINT8) "\\<invalid>",    /* String to print to indicate an invalid token */
    (pANTLR3_UINT8) "\\<EOR>",
    (pANTLR3_UINT8) "\\<DOWN>",
    (pANTLR3_UINT8) "\\<UP>",
    <tokenNames: {(pANTLR3_UINT8) <it>}; separator=",\n">
};
<endif>

<@members>

<@end>
<rules: {r |<ruleAttributeScopeFuncMacro(scope=r.ruleDescriptor.ruleScope)>}>
<scopes: {<if(it.isDynamicGlobalScope)><globalAttributeScopeFuncMacro(scope=it)><endif>}>

// Forward declare the locally static matching functions we have generated.
//
<rules: {r | static <headerReturnType(ruleDescriptor=r.ruleDescriptor)> <r.ruleDescriptor.name> (p<name>
ctx<if(r.ruleDescriptor.parameterScope)>, <endif><r.ruleDescriptor.parameterScope:parameterScope(scope=it)>);};
separator="\n";>
static void <name>Free(p<name> ctx);
static void <name>Reset (p<name> ctx);

<if(!LEXER)>
<! generate rule/method definitions for imported rules so they
appear to be defined in this recognizer. !>
<if(recognizer.grammar.delegatedRules)>
// Delegated rules
//
<recognizer.grammar.delegatedRules: {ruleDescriptor|static <headerReturnType(ruleDescriptor)>
<ruleDescriptor.name>(p<name> ctx<if(ruleDescriptor.parameterScope)>,
<endif><r.ruleDescriptor.parameterScope:parameterScope(scope=it)>);}; separator="\n";>

<endif>
<endif>

/* For use in tree output where we are accumulating rule labels via label += ruleRef
* we need a function that knows how to free a return scope when the list is destroyed.
* We cannot just use ANTLR3_FREE because in debug tracking mode, this is a macro.
*/
static void ANTLR3_CDECL freeScope(void * scope)
{
    ANTLR3_FREE(scope);
}

/** \brief Name of the grammar file that generated this code
*/
static const char fileName[] = "<fileName>";

```

```

/** \brief Return the name of the grammar file that generated this code.
*/
static const char * getGrammarFileName()
{
    return fileName;
}
/** \brief Create a new <name> parser and return a context for it.
*
* \param[in] instream Pointer to an input stream interface.
*
* \return Pointer to new parser context upon success.
*/
ANTLR3_API p<name>
<name>New (<inputStreamType> instream<grammar.delegators:{g|, p<g.recognizerName>
<g:delegateName(>>>)
{
    // See if we can create a new parser with the standard constructor
    //
    return <name>NewSSD(instream, NULL<grammar.delegators:{g|, <g:delegateName(>>>));
}

/** \brief Create a new <name> parser and return a context for it.
*
* \param[in] instream Pointer to an input stream interface.
*
* \return Pointer to new parser context upon success.
*/
ANTLR3_API p<name>
<name>NewSSD (<inputStreamType> instream, pANTLR3_RECOGNIZER_SHARED_STATE
state<grammar.delegators:{g|, p<g.recognizerName> <g:delegateName(>>>)
{
    p<name> ctx;    /* Context structure we will build and return */

    ctx = (p<name>) ANTLR3_CALLOC(1, sizeof(<name>));

    if (ctx == NULL)
    {
        // Failed to allocate memory for parser context
        //
        return NULL;
    }

    /* -----
    * Memory for basic structure is allocated, now to fill in
    * the base ANTLR3 structures. We initialize the function pointers
    * for the standard ANTLR3 parser function set, but upon return
    * from here, the programmer may set the pointers to provide custom

```

```

    * implementations of each function.
    *
    * We don't use the macros defined in <name>.h here, in order that you can get a sense
    * of what goes where.
    */

<if(PARSER)>
    /* Create a base parser/recognizer, using the supplied token stream
    */
    ctx->pParser = antlr3ParserNewStream(ANTLR3_SIZE_HINT, instream->tstream, state);
<endif>
<if(TREE_PARSER)>
    /* Create a base Tree parser/recognizer, using the supplied tree node stream
    */
    ctx->pTreeParser = antlr3TreeParserNewStream(ANTLR3_SIZE_HINT, instream, state);
<endif>

    /* Install the implementation of our <name> interface
    */
    <rules: {r | ctx-><r.ruleDescriptor.name> = <r.ruleDescriptor.name>;}; separator="\n";>
<if(grammar.delegatedRules)>
    // Install the delegated methods so that they appear to be a part of this
    // parser
    //
    <grammar.delegatedRules: {ruleDescriptor | ctx-><ruleDescriptor.name> = <ruleDescriptor.name>;};
separator="\n";>
<endif>

    ctx->free = <name>Free;
    ctx->reset = <name>Reset;
    ctx->getGrammarFileName = getGrammarFileName;

    /* Install the scope pushing methods.
    */
    <rules: {r |<if(r.ruleDescriptor.ruleScope)>
<ruleAttributeScope(scope=r.ruleDescriptor.ruleScope)><\n>
<endif>}>
    <recognizer.scopes: {<if(it.isDynamicGlobalScope)>
<globalAttributeScope(scope=it)><\n>
<endif>}>
    <@apifuncs>

    <@end>
<if(grammar.directDelegates)>
    // Initialize the parsers that we are going to delegate some
    // functions to.
    //
    <grammar.directDelegates:

```

```

    {g|ctx-><g:delegateName()> = <g.recognizerName>NewSSD(instream, PSRSTATE,
ctx<grammar.delegators:{g|, <g:delegateName()>>}); separator="\n">
<endif>
<if(grammar.delegators)>
// Install the pointers back to parsers that will delegate us to perform certain functions
// for them.
//
<grammar.delegators:
    {g|ctx-><g:delegateName()> = <g:delegateName()>;}; separator="\n">
<endif>
    <actions.parser.apifuncs>
    <actions.treeparser.apifuncs>
<if(memoize)>
<if(grammar.grammarIsRoot)>
    /* Create a LIST for recording rule memos.
    */
    RULEMEMO = antlr3IntTrieNew(15); /* 16 bit depth is enough for 32768 rules! */<\n>
<endif>
<endif>
    /* Install the token table
    */
    PSRSTATE->tokenNames = <grammar.composite.rootGrammar.recognizerName>TokenNames;

<@debugStuff()>

    /* Return the newly built parser to the caller
    */
    return ctx;
}

static void
<name>Reset (p<name> ctx)
{
    RECOGNIZER->reset(RECOGNIZER);
}

/** Free the parser resources
*/
static void
<name>Free(p<name> ctx)
{
    /* Free any scope memory
    */
    <rules: {r
|<if(r.ruleDescriptor.ruleScope)><ruleAttributeScopeFree(scope=r.ruleDescriptor.ruleScope)><\n><endif>}>
    <recognizer.scopes:{<if(it.isDynamicGlobalScope)><globalAttributeScopeFree(scope=it)><\n><endif>}>

    <@cleanup>

```

```

    <@end>
<if(grammar.directDelegates)>
    // Free the parsers that we delegated to
    // functions to.NULL the state so we only free it once.
    //
    <grammar.directDelegates:
        {g| ctx-><g:delegateName()-><if(TREE_PARSER)>pTreeParser<else>pParser<endif->rec->state = NULL;
        ctx-><g:delegateName()->free(ctx-><g:delegateName()->);}; separator="\n">
    <endif>
<if(memoize)>
<if(grammar.grammarIsRoot)>
    if (RULEMEMO != NULL)
    {
        RULEMEMO->free(RULEMEMO);
        RULEMEMO = NULL;
    }
<endif>
<endif>
    // Free this parser
    //
    <if(TREE_PARSER)>
        ctx->pTreeParser->free(ctx->pTreeParser);<\n>
    <else>
        ctx->pParser->free(ctx->pParser);<\n>
    <endif>

    ANTLR3_FREE(ctx);

    /* Everything is released, so we can return
    */
    return;
}

/** Return token names used by this <grammarType()>
 *
 * The returned pointer is used as an index into the token names table (using the token
 * number as the index).
 *
 * \return Pointer to first char * in the table.
 */
static pANTLR3_UINT8 *getTokenNames()
{
    return <grammar.composite.rootGrammar.recognizerName>TokenNames;
}

<members>

/* Declare the bitsets

```



```

*/
<bitsets:bitsetDeclare(name={ FOLLOW_<it.name>_in_<it.inName><it.tokenIndex>},
    words64=it.bits)>

<if(cyclicDFAs)>

/* =====
* DFA tables for the parser
*/
<cyclicDFAs:cyclicDFA(> <! dump tables for all DFA !>
/* =====
* End of DFA tables for the parser
*/
<endif>

/* =====
* Parsing rules
*/
<rules; separator="\n\n">
<if(grammar.delegatedRules)>
// Delegated methods that appear to be a part of this
// parser
//
<grammar.delegatedRules:{ruleDescriptor|
    <return Type()> <ruleDescriptor.name>(p<name> ctx<if(ruleDescriptor.parameterScope.attributes)>,
<endif><ruleDescriptor.parameterScope:parameterScope(scope=it)>)
    \{
        <if(ruleDescriptor.hasReturnValue)>return <endif>ctx-><ruleDescriptor.grammar:delegateName()>-
><ruleDescriptor.name>(ctx-
><ruleDescriptor.grammar:delegateName()><if(ruleDescriptor.parameterScope.attributes)>,
<endif><ruleDescriptor.parameterScope.attributes:{ a|<a.name>}; separator=", ">);
    \}}; separator="\n">

<endif>
/* End of parsing rules
* =====
*/

/* =====
* Syntactic predicates
*/
<synpreds:{ p | <synpred(predname=p)>}>
/* End of syntactic predicates
* =====
*/

```

```
>>
```

```
parser( grammar,  
  name,  
  scopes,  
  tokens,  
  tokenNames,  
  rules,  
  numRules,  
  bitsets,  
  ASTLabelType,  
  superClass="Parser",  
  labelType="pANTLR3_COMMON_TOKEN",  
  members={<actions.parser.members>}  
  ) ::= <<  
<genericParser(inputStreamType="pANTLR3_COMMON_TOKEN_STREAM", rewriteElementType="TOKEN",  
  ...)>  
>>
```

```
/** How to generate a tree parser; same as parser except the input  
 * stream is a different type.  
 */
```

```
treeParser( grammar,  
  name,  
  scopes,  
  tokens,  
  tokenNames,  
  globalAction,  
  rules,  
  numRules,  
  bitsets,  
  labelType={<ASTLabelType>},  
  ASTLabelType="pANTLR3_BASE_TREE",  
  superClass="TreeParser",  
  members={<actions.treeparser.members>}, filterMode  
  ) ::= <<  
<genericParser(inputStreamType="pANTLR3_COMMON_TREE_NODE_STREAM",  
  rewriteElementType="NODE", ...)>  
>>
```

```
/** A simpler version of a rule template that is specific to the imaginary  
 * rules created for syntactic predicates. As they never have return values  
 * nor parameters etc..., just give simplest possible method. Don't do  
 * any of the normal memoization stuff in here either; it's a waste.  
 * As predicates cannot be inlined into the invoking rule, they need to
```

```

* be in a rule by themselves.
*/
synpredRule(ruleName, ruleDescriptor, block, description, nakedBlock) ::=
<<
// $ANTLR start <ruleName>
static void <ruleName>_fragment(p<name> ctx <ruleDescriptor.parameterScope:parameterScope(scope=it)>)
{
    <ruleLabelDefs()>
    <ruleLabelInitializations()>
    <if(trace)>
        ANTLR3_PRINTF("enter <ruleName> %d failed = %d, backtracking = %d\n",LT(1),failed,BACKTRACKING);
        <block>
        ANTLR3_PRINTF("exit <ruleName> %d, failed = %d, backtracking = %d\n",LT(1),failed,BACKTRACKING);

    <else>
        <block>
    <endif>
    <ruleCleanUp()>
}
// $ANTLR end <ruleName>
>>

synpred(predname) ::= <<
static ANTLR3_BOOLEAN <predname>(p<name> ctx)
{
    ANTLR3_MARKER start;
    ANTLR3_BOOLEAN success;

    BACKTRACKING++;
    <@start()>
    start = MARK();
    <predname>_fragment(ctx); // can never throw exception
    success = !(FAILEDFLAG);
    REWIND(start);
    <@stop()>
    BACKTRACKING--;
    FAILEDFLAG = ANTLR3_FALSE;
    return success;
}<\n>
>>

lexerSynpred(predname) ::= <<
<synpred(predname)>
>>

ruleMemoization(rname) ::= <<
<if(memoize)>
if ( ( BACKTRACKING>0) && (HAVEPARSEDRULE(<ruleDescriptor.index>))) )

```

```

{
<if(ruleDescriptor.hasMultipleReturnValues)>
<if(!ruleDescriptor.isSynPred)>
    retval.start = 0;<\n>
<endif>
<endif>
    <(ruleDescriptor.actions.after):execAfter()>
    <finalCode(finalBlock=finally)>
<if(!ruleDescriptor.isSynPred)>
    <scopeClean()><\n>
<endif>
    return <ruleReturnValue()>;
}
<endif>
>>

/** How to test for failure and return from rule */
checkRuleBacktrackFailure() ::= <<
if (HASEXCEPTION())
{
    goto rule<ruleDescriptor.name>Ex;
}
<if(backtracking)>
if (HASFAILED())
{
    <scopeClean()>
    <@debugClean()>
    return <ruleReturnValue()>;
}
<endif>
>>

/** This rule has failed, exit indicating failure during backtrack */
ruleBacktrackFailure() ::= <<
<if(backtracking)>
if (BACKTRACKING>0)
{
    FAILEDFLAG = <>true()>;
    <scopeClean()>
    return <ruleReturnValue()>;
}
<endif>
>>

/** How to generate code for a rule. This includes any return type
 * data aggregates required for multiple return values.
 */
rule(ruleName,ruleDescriptor,block,emptyRule,description,exceptions,finally,memoize) ::= <<

```

```

/**
 * $ANTLR start <ruleName>
 * <fileName>:<description>
 */
static <returnType>
<ruleName>(p<name> ctx<if(ruleDescriptor.parameterScope)>,
<endif><ruleDescriptor.parameterScope:parameterScope(scope=it)>)
{
    <if(trace)>ANTLR3_PRINTF("enter <ruleName> %s failed=%d, backtracking=%d\n", LT(1),
BACKTRACKING);<endif>
    <ruleDeclarations()>
    <ruleDescriptor.actions.declarations>
    <ruleLabelDefs()>
    <ruleInitializations()>
    <ruleDescriptor.actions.init>
    <ruleMemoization(rname=ruleName)>
    <ruleLabelInitializations()>
    <@preamble()>
    {
        <block>
    }

    <ruleCleanUp()>
<if(exceptions)>
    if (HASEXCEPTION())
    {
<exceptions: {e|<catch(decl=e.decl,action=e.action)><\n>}>
    }
    else
    {
<(ruleDescriptor.actions.after):execAfter()>
    }
<else>
    <if(!emptyRule)>
        <if(actions.(actionScope).rulecatch)>
            <actions.(actionScope).rulecatch>
        <else>
            if (HASEXCEPTION())
            {
                PREPORTERROR();
                PRECOVER();
                <@setErrorReturnValue()>
            }
            <if(ruleDescriptor.actions.after)>
            else
            {
                <(ruleDescriptor.actions.after):execAfter()>
            }<\n>

```

```

    <endif>
  <endif>
<endif>
<endif>

  <if(trace)>ANTLR3_PRINTF("exit <ruleName> %d failed=%s backtracking=%s\n", LT(1), failed,
BACKTRACKING);<endif>
  <memoize()>
<if(finally)>
  <finalCode(finalBlock=finally)>
<endif>
  <scopeClean()>
  <@postamble()>
  return <ruleReturnValue()>;
}
/* $ANTLR end <ruleName> */
>>

finalCode(finalBlock) ::= <<
{
  <finalBlock>
}

>>

catch(decl,action) ::= <<
/* catch(decl,action)
*/
{
  <e.action>
}

>>

ruleDeclarations() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<returnType()> retval;<\n>
<else>
<ruleDescriptor.returnScope.attributes:{ a |
<a.type> <a.name>;
}>
<endif>
<if(memoize)>
ANTLR3_UINT32 <ruleDescriptor.name>_startIndex;
<endif>
>>

ruleInitializations() ::= <<

```

```

/* Initialize rule variables
*/
<if(ruleDescriptor.hasMultipleReturnValues)>
<ruleDescriptor.returnScope.attributes:{ a |
<if(a.initValue)>retval.<a.name> = <a.initValue>;<endif>
}>
<else>
<ruleDescriptor.returnScope.attributes:{ a |
<if(a.initValue)><a.name> = <a.initValue>;<endif>
}>
<endif>
<if(memoize)>
<ruleDescriptor.name>_startIndex = INDEX();<\n>
<endif>
<ruleDescriptor.useScopes:{<scopeTop(sname=it)> = <scopePush(sname=it)>;}; separator="\n">
<ruleDescriptor.ruleScope:{<scopeTop(sname=it.name)> = <scopePush(sname=it.name)>;}; separator="\n">
>>

```

```

ruleLabelDefs() ::= <<
<[ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels]
: {<labelType> <it.label.text>;}; separator="\n"
>
<[ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels]
: {pANTLR3_VECTOR list_<it.label.text>;}; separator="\n"
>
<[ruleDescriptor.ruleLabels,ruleDescriptor.ruleListLabels]
: ruleLabelDef(label=it); separator="\n"
>
>>

```

```

ruleLabelInitializations() ::= <<
<[ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels]
: {<it.label.text> = NULL;;}; separator="\n"
>
<[ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels]
: {list_<it.label.text> = NULL;;}; separator="\n"
>
<[ruleDescriptor.ruleLabels,ruleDescriptor.ruleListLabels]
: ruleLabelInitVal(label=it); separator="\n"
>
<if(ruleDescriptor.hasMultipleReturnValues)>
<if(!ruleDescriptor.isSynPred)>
retval.start = LT(1); retval.stop = retval.start;<\n>
<endif>
<endif>
>>

```

```

lexerRuleLabelDefs() ::= <<

```

```

<[ruleDescriptor.tokenLabels,
ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleLabels]
: {<labelType> <it.label.text>;}; separator="\n"
>
<ruleDescriptor.charLabels: {ANTLR3_UINT32 <it.label.text>;}; separator="\n">
<[ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleListLabels,
ruleDescriptor.ruleListLabels]
: {pANTLR3_INT_TRIE list_<it.label.text>;}; separator="\n"
>
>>

```

```

lexerRuleLabelInit() ::= <<
<[ruleDescriptor.tokenLabels,
ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleLabels]
: {<it.label.text> = NULL;;}; separator="\n"
>
<[ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleListLabels,
ruleDescriptor.ruleListLabels]
: {list_<it.label.text> = antlr3IntTrieNew(31);}; separator="\n"
>
>>

```

```

lexerRuleLabelFree() ::= <<
<[ruleDescriptor.tokenLabels,
ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleLabels]
: {<it.label.text> = NULL;;}; separator="\n"
>
<[ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleListLabels,
ruleDescriptor.ruleListLabels]
: {list_<it.label.text>->free(list_<it.label.text>;); separator="\n"
>
>>

```

```

ruleReturnValue() ::= <<
<if(!ruleDescriptor.isSynPred)>
<if(ruleDescriptor.hasReturnValue)>
<if(ruleDescriptor.hasSingleReturnValue)>
<ruleDescriptor.singleValueReturnName>
<else>
retval
<endif>
<endif>

```



```

<endif>
>>

memoize() ::= <<
<if(memoize)>
<if(backtracking)>
if ( BACKTRACKING>0 ) { MEMOIZE(<ruleDescriptor.index>, <ruleDescriptor.name>_StartIndex); }
<endif>
<endif>
>>

ruleCleanUp() ::= <<

// This is where rules clean up and exit
//
goto rule<ruleDescriptor.name>Ex; /* Prevent compiler warnings */
rule<ruleDescriptor.name>Ex; ;
<if(ruleDescriptor.hasMultipleReturnValues)>
<if(!TREE_PARSER)>
<if(!ruleDescriptor.isSynPred)>
retval.stop = LT(-1);<\n>
<endif>
<endif>
<endif>
>>

scopeClean() ::= <<
<ruleDescriptor.useScopes:{<scopePop(sname=it)>}; separator="\n">
<ruleDescriptor.ruleScope:{<scopePop(sname=it.name)>}; separator="\n">

>>
/** How to generate a rule in the lexer; naked blocks are used for
 * fragment rules, which do not produce tokens.
 */
lexerRule(ruleName,nakedBlock,ruleDescriptor,block,memoize) ::= <<
// Comes from: <block.description>
/** \brief Lexer rule generated by ANTLR3
 *
 * $ANTLR start <ruleName>
 *
 * Looks to match the characters the constitute the token <ruleName>
 * from the attached input stream.
 *
 *
 * \remark
 * - lexer->error == ANTLR3_TRUE if an exception was thrown.
 */
static ANTLR3_INLINE

```

```

void m<ruleName>(p<name> ctx<if(ruleDescriptor.parameterScope)>,
<endif><ruleDescriptor.parameterScope:parameterScope(scope=it)>)
{
    ANTLR3_UINT32 _type;
    <ruleDeclarations()>
    <ruleDescriptor.actions.declarations>
    <lexerRuleLabelDefs()>
    <if(trace)>System.out.println("enter <ruleName> "+(char)LA(1)+"
line="+GETLINE()+": "+GETCHARPOSITIONINLINE()+" failed="+failed+"
backtracking="+BACKTRACKING);<endif>

    <if(nakedBlock)>
        <ruleMemoization(rname=ruleName)>
        <lexerRuleLabelInit()>
        <ruleDescriptor.actions.init>

        <block><\n>
    <else>
        <ruleMemoization(rname=ruleName)>
        <lexerRuleLabelInit()>
        _type = <ruleName>;

        <ruleDescriptor.actions.init>

        <block>
        LEXSTATE->type = _type;
    <endif>
    <if(trace)> ANTLR3_FPRINTF(stderr, "exit <ruleName> '%c' line=%d:%d failed = %d, backtracking
=%d\n",LA(1),GETLINE(),GETCHARPOSITIONINLINE(),failed,BACKTRACKING);<endif>
    <ruleCleanUp()>
    <lexerRuleLabelFree()>
    <(ruleDescriptor.actions.after):execAfter()>
    <memoize>
}
// $ANTLR end <ruleName>
>>

/** How to generate code for the implicitly-defined lexer grammar rule
 * that chooses between lexer rules.
 */
tokensRule(ruleName,nakedBlock,args,block,ruleDescriptor) ::= <<
/** This is the entry point in to the lexer from an object that
 * wants to generate the next token, such as a pCOMMON_TOKEN_STREAM
 */
static void
mTokens(p<name> ctx)
{
    <block><\n>

```

```

    goto ruleTokensEx; /* Prevent compiler warnings */
ruleTokensEx: ;
}
>>

// S U B R U L E S

/** A (...) subrule with multiple alternatives */
block(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<

// <fileName>:<description>
{
    int alt<decisionNumber>=<maxAlt>;
    <decls>
    <@predecision()>
    <decision>
    <@postdecision()>
    <@prebranch()>
    switch (alt<decisionNumber>)
    {
    <alts:altSwitchCase()>
    }
    <@postbranch()>
}
>>

/** A rule block with multiple alternatives */
ruleBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
{
    // <fileName>:<description>

    ANTLR3_UINT32 alt<decisionNumber>;

    alt<decisionNumber>=<maxAlt>;

    <decls>
    <@predecision()>
    <decision>
    <@postdecision()>
    switch (alt<decisionNumber>)
    {
    <alts:altSwitchCase()>
    }
}
>>

ruleBlockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<

```

```

// <fileName>:<description>
<decls>
<@prealt()>
<alts>
<@postalt()>
>>

/** A special case of a (...) subrule with a single alternative */
blockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
// <fileName>:<description>
<decls>
<@prealt()>
<alts>
<@postalt()>
>>

/** A (..)+ block with 1 or more alternatives */
positiveClosureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,descriptio
n) ::= <<
// <fileName>:<description>
{
  int cnt<decisionNumber>=0;
  <decls>
  <@preloop()>

  for (;;)
  {
    int alt<decisionNumber>=<maxAlt>;
    <@predecision()>
    <decision>
    <@postdecision()>
    switch (alt<decisionNumber>)
    {
      <alts:altSwitchCase()>
      default:

    if ( cnt<decisionNumber> >= 1 )
    {
      goto loop<decisionNumber>;
    }
    <ruleBacktrackFailure()>
    <earlyExitEx()>
    <@earlyExitException()>
    goto rule<ruleDescriptor.name>Ex;
  }
  cnt<decisionNumber>++;
  }
  loop<decisionNumber>; /* Jump to here if this rule does not match */
}

```

```

    <@postloop()>
}
>>

earlyExitEx() ::= <<
/* mismatchedSetEx()
*/
CONSTRUCTEX();
EXCEPTION->type = ANTLR3_EARLY_EXIT_EXCEPTION;
EXCEPTION->name = (void *)ANTLR3_EARLY_EXIT_NAME;
<\n>
>>
positiveClosureBlockSingleAlt ::= positiveClosureBlock

/** A (..)* block with 1 or more alternatives */
closureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::=
<<

// <fileName>:<description>
<decls>

<@preloop()>
for (;;)
{
    int alt<decisionNumber>=<maxAlt>;
    <@predecision()>
    <decision>
    <@postdecision()>
    switch (alt<decisionNumber>)
    {
    <alts:altSwitchCase()>
    default:
        goto loop<decisionNumber>; /* break out of the loop */
        break;
    }
}
loop<decisionNumber>; /* Jump out to here if this rule does not match */
<@postloop()>
>>

closureBlockSingleAlt ::= closureBlock

/** Optional blocks (x)? are translated to (x|) by antlr before code generation
* so we can just use the normal block template
*/
optionalBlock ::= block

optionalBlockSingleAlt ::= block

```

```

/** A case in a switch that jumps to an alternative given the alternative
 * number. A DFA predicts the alternative and then a simple switch
 * does the jump to the code that actually matches that alternative.
 */
altSwitchCase() ::= <<
case <i>:
  <@prealt()>
  <it>
  break;<\n>
>>

/** An alternative is just a list of elements; at outermost level */
alt(elements,altNum,description,autoAST,outerAlt,treeLevel,rew) ::= <<
// <fileName>:<description>
{
  <@declarations()>
  <@initializations()>
  <elements:element()>
  <rew>
  <@cleanup()>
}
>>

// E L E M E N T S
/** What to emit when there is no rewrite. For auto build
 * mode, does nothing.
 */
noRewrite(rewriteBlockLevel, treeLevel) ::= ""

/** Dump the elements one per line */
element() ::= <<
<@prematch()>
<it.el><\n>
>>

/** match a token optionally with a label in front */
tokenRef(token,label,elementIndex,hetero) ::= <<
<if(label)><label> = (<labelType>)<endif> MATCHT(<token>,
&FOLLOW_<token>_in_<ruleName><elementIndex>);
<checkRuleBacktrackFailure()>
>>

/** ids+=ID */
tokenRefAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRef(...)>
<listLabel(elem=label,...)>
>>

```

```

listLabel(label,elem) ::= <<
if (list_<label> == NULL)
{
    list_<label>=ctx->vectors->newVector(ctx->vectors);
}
list_<label>->add(list_<label>, <elem>, NULL);
>>

/** match a character */
charRef(char,label) ::= <<
<if(label)>
<label> = LA(1);<\n>
<endif>
MATCHC(<char>);
<checkRuleBacktrackFailure()>
>>

/** match a character range */
charRangeRef(a,b,label) ::= <<
<if(label)>
<label> = LA(1);<\n>
<endif>
MATCHRANGE(<a>, <b>);
<checkRuleBacktrackFailure()>
>>

/** For now, sets are interval tests and must be tested inline */
matchSet(s,label,elementIndex,postmatchCode="") ::= <<
<if(label)>
<if(LEXER)>
<label>= LA(1);<\n>
<else>
<label>=(<labelType>)LT(1);<\n>
<endif>
<endif>
if ( <s> )
{
    CONSUME();
    <postmatchCode>
<if(!LEXER)>
    PERRORRECOVERY=ANTLR3_FALSE;
<endif>
    <if(backtracking)>FAILEDFLAG=ANTLR3_FALSE;<\n><endif>
}
else
{

```

```

    <ruleBacktrackFailure()>
    <mismatchedSetEx()>
    <@mismatchedSetException()>
<if(LEXER)>
    LRECOVER();
<else>
    RECOVERFROMMISMATCHEDSET(&FOLLOW_set_in_<ruleName><elementIndex>);
<endif>
    goto rule<ruleDescriptor.name>Ex;
}<\n>
>>

```

```

mismatchedSetEx() ::= <<
CONSTRUCTEX();
EXCEPTION->type      = ANTLR3_MISMATCHED_SET_EXCEPTION;
EXCEPTION->name      = (void *)ANTLR3_MISMATCHED_SET_NAME;
<if(PARSER)>
EXCEPTION->expectingSet = &FOLLOW_set_in_<ruleName><elementIndex>;
<endif>
>>

```

```

matchRuleBlockSet ::= matchSet

```

```

matchSetAndListLabel(s,label,elementIndex,postmatchCode) ::= <<
<matchSet(...)>
<listLabel(elem=label,...)>
>>

```

```

/** Match a string literal */
lexerStringRef(string,label,elementIndex) ::= <<
<if(label)>
<label>Start = GETCHARINDEX();
MATCHS(<string>);
<checkRuleBacktrackFailure()>
<label> = LEXSTATE->tokFactory->newToken(LEXSTATE->tokFactory);
<label>->setType(<label>, ANTLR3_TOKEN_INVALID);
<label>->setStartIndex(<label>, <label>Start);
<label>->setStopIndex(<label>, GETCHARINDEX()-1);
<label>->input = INPUT->tstream->istream;
<else>
MATCHS(<string>);
<checkRuleBacktrackFailure()><\n>
<endif>
>>

```

```

wildcard(label,elementIndex) ::= <<
<if(label)>
<label>=(<labelType>)LT(1);<\n>

```



```

<endif>
MATCHANYT();
<checkRuleBacktrackFailure()>
>>

wildcardAndListLabel(label,elementIndex) ::= <<
<wildcard(...)>
<listLabel(elem=label,...)>
>>

/** Match . wildcard in lexer */
wildcardChar(label, elementIndex) ::= <<
<if(label)>
<label> = LA(1);<\n>
<endif>
MATCHANY();
<checkRuleBacktrackFailure()>
>>

wildcardCharListLabel(label, elementIndex) ::= <<
<wildcardChar(...)>
<listLabel(elem=label,...)>
>>

/** Match a rule reference by invoking it possibly with arguments
 * and a return value or values. The 'rule' argument was the
 * target rule name, but now is type Rule, whose toString is
 * same: the rule name. Now though you can access full rule
 * descriptor stuff.
 */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
FOLLOWPUSH(FOLLOW_<rule.name>_in_<ruleName><elementIndex>);
<if(label)><label>=<endif><if(scope)>ctx-><scope:delegateName()-><endif><rule.name>(ctx<if(scope)->
-><scope:delegateName()-><endif><if(args)>, <args; separator=","><endif>);<\n>
FOLLOWPOP();
<checkRuleBacktrackFailure()>
>>

/** ids+=1 */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>
<listLabel(elem=label,...)>
>>

/** A lexer rule reference
 * The 'rule' argument was the target rule name, but now
 * is type Rule, whose toString is same: the rule name.
 * Now though you can access full rule descriptor stuff.

```

```

*/
lexerRuleRef(rule,label,args,elementIndex,scope) ::= <<
/* <description> */
<if(label)>
{
    ANTLR3_MARKER <label>Start<elementIndex> = GETCHARINDEX();
    <if(scope)>ctx-><scope:delegateName()-><endif>m<rule.name>(ctx<if(scope)>-
><scope:delegateName()-><endif> <if(args)>, <endif><args; separator=", ">;
    <checkRuleBacktrackFailure()->
    <label> = LEXSTATE->tokFactory->newToken(LEXSTATE->tokFactory);
    <label>->setType(<label>, ANTLR3_TOKEN_INVALID);
    <label>->setStartIndex(<label>, <label>Start<elementIndex>);
    <label>->setStopIndex(<label>, GETCHARINDEX()-1);
    <label>->input = INPUT;
}
<else>
<if(scope)>ctx-><scope:delegateName()-><endif>m<rule.name>(ctx<if(scope)>-
><scope:delegateName()-><endif> <if(args)>, <endif><args; separator=", ">;
<checkRuleBacktrackFailure()->
<endif>
>>

/** i+=INT in lexer */
lexerRuleRefAndListLabel(rule,label,args,elementIndex,scope) ::= <<
<lexerRuleRef(...)>
<listLabel(elem=label,...)>
>>

/** EOF in the lexer */
lexerMatchEOF(label,elementIndex) ::= <<
<if(label)>
{
    ANTLR3_UINT32 <label>Start<elementIndex>;
    <labelType> <label>;
    <label>Start<elementIndex> = GETCHARINDEX();
    MATCHC(ANTLR3_CHARSTREAM_EOF);
    <checkRuleBacktrackFailure()->
    <label> = LEXSTATE->tokFactory->newToken(LEXSTATE->tokFactory);
    <label>->setType(<label>, ANTLR3_TOKEN_EOF);
    <label>->setStartIndex(<label>, <label>Start<elementIndex>);
    <label>->setStopIndex(<label>, GETCHARINDEX()-1);
    <label>->input = INPUT->tstream->istream;
}
<else>
    MATCHC(ANTLR3_CHARSTREAM_EOF);
    <checkRuleBacktrackFailure()->
    <endif>
>>

```

```

/** match ^(root children) in tree parser */
tree(root, actionsAfterRoot, children, nullableChildList, enclosingTreeLevel, treeLevel) ::= <<
<root:element()>
<actionsAfterRoot:element()>
<if(nullableChildList)>
if ( LA(1)==ANTLR3_TOKEN_DOWN ) {
    MATCHT(ANTLR3_TOKEN_DOWN, NULL);
    <checkRuleBacktrackFailure()>
    <children:element()>
    MATCHT(ANTLR3_TOKEN_UP, NULL);
    <checkRuleBacktrackFailure()>
}
<else>
MATCHT(ANTLR3_TOKEN_DOWN, NULL);
<checkRuleBacktrackFailure()>
<children:element()>
MATCHT(ANTLR3_TOKEN_UP, NULL);
<checkRuleBacktrackFailure()>
<endif>
>>

```

```

/** Every predicate is used as a validating predicate (even when it is
* also hoisted into a prediction expression).
*/

```

```

validateSemanticPredicate(pred,description) ::= <<
if ( !( <evalPredicate(...)> ) )
{
    <ruleBacktrackFailure()>
    <newFPE(...)>
}
>>

```

```

newFPE() ::= <<
    CONSTRUCTEX();
    EXCEPTION->type      = ANTLR3_FAILED_PREDICATE_EXCEPTION;
    EXCEPTION->message   = (void *)"<description>";
    EXCEPTION->ruleName = (void *)"<ruleName>";
    <\n>
>>

```

```

// F i x e d D F A (if-then-else)

```

```

dfaState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
{
    int LA<decisionNumber>_<stateNumber> = LA(<k>);
    <edges; separator="\nelse ">

```

```

else
{
<if(eotPredictsAlt)>
    alt<decisionNumber>=<eotPredictsAlt>;
<else>
    <ruleBacktrackFailure()>

    <newNVException()>
    goto rule<ruleDescriptor.name>Ex;

<endif>
}
}
>>

newNVException() ::= <<
CONSTRUCTEX();
EXCEPTION->type      = ANTLR3_NO_VIABLE_ALT_EXCEPTION;
EXCEPTION->message   = (void *)"<description>";
EXCEPTION->decisionNum = <decisionNumber>;
EXCEPTION->state     = <stateNumber>;
<@noViableAltException()>
<\n>
>>

/** Same as a normal DFA state except that we don't examine lookahead
 * for the bypass alternative. It delays error detection but this
 * is faster, smaller, and more what people expect. For (X)? people
 * expect "if ( LA(1)==X ) match(X);" and that's it.
 */
dfaOptionalBlockState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
{
    int LA<decisionNumber>_<stateNumber> = LA(<k>);
    <edges; separator="\nelse ">
}
>>

/** A DFA state that is actually the loopback decision of a closure
 * loop. If end-of-token (EOT) predicts any of the targets then it
 * should act like a default clause (i.e., no error can be generated).
 * This is used only in the lexer so that for ('a')* on the end of a rule
 * anything other than 'a' predicts exiting.
 */

dfaLoopbackStateDecls() ::= <<
ANTLR3_UINT32 LA<decisionNumber>_<stateNumber>;
>>
dfaLoopbackState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<

```

```

{
/* dfaLoopbackState(k,edges,eotPredictsAlt,description,stateNumber,semPredState)
*/
int LA<decisionNumber>_<stateNumber> = LA(<k>);
<edges; separator="\nelse "><\n>
<if(eotPredictsAlt)>
<if(!edges)>
alt<decisionNumber>=<eotPredictsAlt>; <! if no edges, don't gen ELSE !>
<else>
else
{
alt<decisionNumber>=<eotPredictsAlt>;
}<\n>
<endif>
<endif>
}
>>

/** An accept state indicates a unique alternative has been predicted */
dfaAcceptState(alt) ::= "alt<decisionNumber>=<alt>";

/** A simple edge with an expression. If the expression is satisfied,
* enter to the target state. To handle gated productions, we may
* have to evaluate some predicates for this edge.
*/
dfaEdge(labelExpr, targetState, predicates) ::= <<
if ( <if(predicates)>(<predicates>) && <endif>(<labelExpr>))
{
<targetState>
}
>>

// F i x e d D F A (switch case)

/** A DFA state where a SWITCH may be generated. The code generator
* decides if this is possible: CodeGenerator.canGenerateSwitch().
*/
dfaStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch ( LA(<k> )
{
<edges; separator="\n">

default:
<if(eotPredictsAlt)>
alt<decisionNumber>=<eotPredictsAlt>;
<else>
<ruleBacktrackFailure()>
<newNVEException()>

```

```

    goto rule<ruleDescriptor.name>Ex;<\n>
<endif>
}<\n>
>>

```

```

dfaOptionalBlockStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch ( LA(<k> )
{
    <edges; separator="\n">
}<\n>
>>

```

```

dfaLoopbackStateSwitch(k, edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch ( LA(<k> )
{
<edges; separator="\n"><\n>
<if(eotPredictsAlt)>
default:
    alt<decisionNumber>=<eotPredictsAlt>;
    break;<\n>
<endif>
}<\n>
>>

```

```

dfaEdgeSwitch(labels, targetState) ::= <<
<labels:{ case <it>:}; separator="\n">
{
    <targetState>
}
    break;
>>

```

```

// C y c l i c D F A

```

```

/** The code to initiate execution of a cyclic DFA; this is used
 * in the rule to predict an alt just like the fixed DFA case.
 * The <name> attribute is inherited via the parser, lexer, ...
 */

```

```

dfaDecision(decisionNumber,description) ::= <<
alt<decisionNumber> = cdfa<decisionNumber>.predict(ctx, RECOGNIZER, ISTREAM,
&cdfa<decisionNumber>);
<checkRuleBacktrackFailure()>
>>

```

```

/* Dump DFA tables as static initialized arrays of shorts(16 bits)/characters(8 bits)
 * which are then used to statically initialize the dfa structure, which means that there
 * is no runtime initialization whatsoever, other than anything the C compiler might
 * need to generate. In general the C compiler will lay out memory such that there is no

```

```

* runtime code required.
*/
cyclicDFA(dfa) ::= <<
/** Static dfa state tables for Cyclic dfa:
* <dfa.description>
*/
static const ANTLR3_INT32 dfa<dfa.decisionNumber>_eot[<dfa.numberofStates>] =
{
<dfa.eot; wrap="\n", separator=", ", null="-1">
};
static const ANTLR3_INT32 dfa<dfa.decisionNumber>_eof[<dfa.numberofStates>] =
{
<dfa.eof; wrap="\n", separator=", ", null="-1">
};
static const ANTLR3_INT32 dfa<dfa.decisionNumber>_min[<dfa.numberofStates>] =
{
<dfa.min; wrap="\n", separator=", ", null="-1">
};
static const ANTLR3_INT32 dfa<dfa.decisionNumber>_max[<dfa.numberofStates>] =
{
<dfa.max; wrap="\n", separator=", ", null="-1">
};
static const ANTLR3_INT32 dfa<dfa.decisionNumber>_accept[<dfa.numberofStates>] =
{
<dfa.accept; wrap="\n", separator=", ", null="-1">
};
static const ANTLR3_INT32 dfa<dfa.decisionNumber>_special[<dfa.numberofStates>] =
{
<dfa.special; wrap="\n", separator=", ", null="-1">
};

/** Used when there is no transition table entry for a particular state */
#define dfa<dfa.decisionNumber>_T_empty NULL

<dfa.edgeTransitionClassMap.keys:{ table |
static const ANTLR3_INT32 dfa<dfa.decisionNumber>_T<i0>[] =
{
<table; separator=", ", wrap="\n", null="-1">
}}; null = "">

/* Transition tables are a table of sub tables, with some tables
* reused for efficiency.
*/
static const ANTLR3_INT32 * const dfa<dfa.decisionNumber>_transitions[] =
{
<dfa.transitionEdgeTables:{ xref[dfa<dfa.decisionNumber>_T<xref>]; separator=", ", wrap="\n", null="_empty">
};

```

```

<if(dfa.specialStateSTs)>
static ANTLR3_INT32 dfa<dfa.decisionNumber>_sst(p<name> ctx, pANTLR3_BASE_RECOGNIZER recognizer,
pANTLR3_INT_STREAM is, pANTLR3_CYCLIC_DFA dfa, ANTLR3_INT32 s)
{
    ANTLR3_INT32  _s;

    _s = s;
    switch (s)
    {
        <dfa.specialStateSTs:{state |
        case <i0>:

            <state>}; separator="\n">
        }
    <if(backtracking)>
        if (BACKTRACKING > 0)
        {
            FAILEDFLAG = ANTLR3_TRUE;
            return -1;
        }
    <endif>

    CONSTRUCTEX();
    EXCEPTION->type      = ANTLR3_NO_VIABLE_ALT_EXCEPTION;
    EXCEPTION->message   = (void *)"<dfa.description>";
    EXCEPTION->decisionNum = <dfa.decisionNumber>;
    EXCEPTION->state     = _s;
    <@noViableAltException()>
    return -1;
}
<endif>

<@errorMethod()>

/* Declare tracking structure for Cyclic DFA <dfa.decisionNumber>
*/
static
ANTLR3_CYCLIC_DFA cdfa<dfa.decisionNumber>
= {
    <dfa.decisionNumber>, /* Decision number of this dfa */
    /* Which decision this represents: */
    (const pANTLR3_UCHAR)"<dfa.description>",
    <if(dfa.specialStateSTs)>
        (C DFA_SPECIAL_FUNC) dfa<dfa.decisionNumber>_sst,
    <else>
        (C DFA_SPECIAL_FUNC) antlr3dfaspecialStateTransition, /* Default special state transition function */
    <endif>
}

```



```

antlr3dfaspecialTransition, /* DFA specialTransition is currently just a default function in the runtime */
antlr3dfapredict, /* DFA simulator function is in the runtime */
dfa<dfa.decisionNumber>_eot, /* EOT table */
dfa<dfa.decisionNumber>_eof, /* EOF table */
dfa<dfa.decisionNumber>_min, /* Minimum tokens for each state */
dfa<dfa.decisionNumber>_max, /* Maximum tokens for each state */
dfa<dfa.decisionNumber>_accept, /* Accept table */
dfa<dfa.decisionNumber>_special, /* Special transition states */
dfa<dfa.decisionNumber>_transitions /* Table of transition tables */

```

```
};
```

```
/* End of Cyclic DFA <dfa.decisionNumber>
```

```
* -----
```

```
*/
```

```
>>
```

```
/** A state in a cyclic DFA; it's a special state and part of a big switch on
```

```
* state.
```

```
*/
```

```
cyclicDFAState(decisionNumber,stateNumber,edges,needErrorClause,semPredState) ::= <<
```

```
{
```

```
ANTLR3_UINT32 LA<decisionNumber>_<stateNumber>;<\n>
```

```
ANTLR3_MARKER index<decisionNumber>_<stateNumber>;<\n>
```

```
LA<decisionNumber>_<stateNumber> = LA(1);<\n>
```

```
<if(semPredState)> <! get next lookahead symbol to test edges, then rewind !>
```

```
index<decisionNumber>_<stateNumber> = INDEX();<\n>
```

```
REWINDLAST();<\n>
```

```
<endif>
```

```
s = -1;
```

```
<edges; separator="\nelse ">
```

```
<if(semPredState)> <! return input cursor to state before we rewound !>
```

```
SEEK(index<decisionNumber>_<stateNumber>;<\n>
```

```
<endif>
```

```
if ( s>=0 )
```

```
{
```

```
return s;
```

```
}
```

```
}
```

```
break;
```

```
>>
```

```
/** Just like a fixed DFA edge, test the lookahead and indicate what
```

```
* state to jump to next if successful.
```

```
*/
```

```
cyclicDFAEdge(labelExpr, targetStateNumber, edgeNumber, predicates) ::= <<
```

```
if ( <if(predicates)><predicates> && <endif><labelExpr> )
```

```
{
```

```

    s = <targetStateNumber>;
} <\n>
>>

/** An edge pointing at end-of-token; essentially matches any char;
 * always jump to the target.
 */
eotDFAEdge(targetStateNumber,edgeNumber, predicates) ::= <<
s = <targetStateNumber>; <\n>
>>

// D F A E X P R E S S I O N S

andPredicates(left,right) ::= "( (<left> ) && (<right> ) )"

orPredicates(operands) ::= "((<first(operands)>)<rest(operands):{o || (<o>)}>)"

notPredicate(pred) ::= "! (<evalPredicate(...)> )"

evalPredicate(pred,description) ::= "<pred>"

evalSynPredicate(pred,description) ::= "<pred>(ctx)"

lookaheadTest(atom,k,atomAsInt) ::= "LA<decisionNumber>_<stateNumber> == <atom>"

/** Sometimes a lookahead test cannot assume that LA(k) is in a temp variable
 * somewhere. Must ask for the lookahead directly.
 */
isolatedLookaheadTest(atom,k,atomAsInt) ::= "LA(<k>) == <atom>"

lookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= <<
((LA<decisionNumber>_<stateNumber> \>= <lower>) && (LA<decisionNumber>_<stateNumber> \<= <upper>))
>>

isolatedLookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= "((LA(<k>) \>= <lower>)
&& (LA(<k>) \<= <upper>))"

setTest(ranges) ::= "<ranges; separator=\" || \">"

// A T T R I B U T E S

makeScopeSet() ::= <<
/* makeScopeSet()
 */
/** Definition of the <scope.name> scope variable tracking
 * structure. An instance of this structure is created by calling
 * <name>_<scope.name>Push().

```

```

*/
typedef struct <scopeStruct(sname=scope.name,...)>_struct
{
  /** Function that the user may provide to be called when the
   * scope is destroyed (so you can free pANTLR3_HASH_TABLES and so on)
   *
   * \param POinter to an instance of this typedef/struct
   */
  void (ANTLR3_CDECL *free) (struct <scopeStruct(sname=scope.name,...)>_struct * frame);

  /* =====
   * Programmer defined variables...
   */
  <scope.attributes:{<it.decl>;}; separator="\n">

  /* End of programmer defined variables
   * =====
   */
}
<scopeStruct(sname=scope.name,...)>, * <scopeType(sname=scope.name,...)>;

>>

globalAttributeScopeDecl(scope) ::= <<
<if(scope.attributes)>
/* globalAttributeScopeDecl(scope)
*/
<makeScopeSet(...)>
<endif>
>>

ruleAttributeScopeDecl(scope) ::= <<
<if(scope.attributes)>
/* ruleAttributeScopeDecl(scope)
*/
<makeScopeSet(...)>
<endif>
>>

globalAttributeScopeFuncDecl(scope) ::=
<<
/* globalAttributeScopeFuncDecl(scope)
*/
<if(scope.attributes)>
/* -----
* Function declaration for creating a <name>_<scope.name> scope set
*/
static <scopeType(sname=scope.name,...)> <scopePushName(sname=scope.name,...)>(p<name> ctx);

```

```

static void ANTLR3_CDECL <scope.name>Free(<scopeType(sname=scope.name)> scope);
/* ----- */

<endif>
>>

globalAttributeScopeFuncMacro(scope) ::= <<
<if(scope.attributes)>
/* globalAttributeScopeFuncMacro(scope)
*/
/** Function for popping the top value from a <scopeStack(sname=scope.name)>
*/
void
<scopePopName(sname=scope.name,...)>(p<name> ctx)
{
    // First see if the user defined a function they want to be called when a
    // scope is popped/freed.
    //
    // If the user supplied the scope entries with a free function, then call it first
    //
    if (SCOPE_TOP(<scope.name>)->free != NULL)
    {
        SCOPE_TOP(<scope.name>)->free(SCOPE_TOP(<scope.name>));
    }

    // Now we decrement the scope's upper limit bound. We do not actually pop the scope as
    // we want to reuse scope entries if we do continuous push and pops. Most scopes don't
    // next too far so we don't want to keep freeing and allocating them
    //
    ctx-><scopeStack(sname=scope.name,...)>_limit--;
    SCOPE_TOP(<scope.name>) = (<scopeType(sname=scope.name)>)(ctx-><scopeStack(sname=scope.name,...)>-
    >get(ctx-><scopeStack(sname=scope.name,...)>, ctx-><scopeStack(sname=scope.name,...)>_limit - 1));
}
<endif>
>>

ruleAttributeScopeFuncDecl(scope) ::= <<
<if(scope.attributes)>
/* ruleAttributeScopeFuncDecl(scope)
*/
/* -----
* Function declarations for creating a <name>_<scope.name> scope set
*/
static <scopeType(sname=scope.name,...)> <scopePushName(sname=scope.name,...)>(p<name> ctx);
static void ANTLR3_CDECL <scope.name>Free(<scopeType(sname=scope.name)> scope);
/* ----- */

<endif>

```

>>

```
ruleAttributeScopeFuncMacro(scope) ::= <<
<if(scope.attributes)>
/* ruleAttributeScopeFuncMacro(scope)
*/
/** Function for popping the top value from a <scopeStack(sname=scope.name,...)>
*/
void
<scopePopName(sname=scope.name,...)>(p<name> ctx)
{
    // First see if the user defined a function they want to be called when a
    // scope is popped/freed.
    //
    // If the user supplied the scope entries with a free function, then call it first
    //
    if (SCOPE_TOP(<scope.name>)->free != NULL)
    {
        SCOPE_TOP(<scope.name>)->free(SCOPE_TOP(<scope.name>));
    }

    // Now we decrement the scope's upper limit bound. We do not actually pop the scope as
    // we want to reuse scope entries if we do continuous push and pops. Most scopes don't
    // next too far so we don't want to keep freeing and allocating them
    //
    ctx-><scopeStack(sname=scope.name,...)>_limit--;
    SCOPE_TOP(<scope.name>) = (<scopeType(sname=scope.name)>)(ctx-><scopeStack(sname=scope.name,...)>-
    >get(ctx-><scopeStack(sname=scope.name,...)>, ctx-><scopeStack(sname=scope.name,...)>_limit - 1));
}

<endif>
>>
```

```
globalAttributeScopeDef(scope) ::=
<<
/* globalAttributeScopeDef(scope)
*/
<if(scope.attributes)>
/** Pointer to the <scope.name> stack for use by <scopePushName(sname=scope.name)>()
* and <scopePopName(sname=scope.name,...)>()
*/
pANTLR3_STACK <scopeStack(sname=scope.name)>;
ANTLR3_UINT32 <scopeStack(sname=scope.name)>_limit;
/** Pointer to the top of the stack for the global scope <scopeStack(sname=scope.name)>
*/
<scopeType(sname=scope.name,...)> (*<scopePushName(sname=scope.name,...)>)(struct <name>_Ctx_struct *
ctx);
<scopeType(sname=scope.name,...)> <scopeTopDecl(sname=scope.name,...)>;
```

```

<endif>
>>

ruleAttributeScopeDef(scope) ::= <<
<if(scope.attributes)>
/* ruleAttributeScopeDef(scope)
*/
/** Pointer to the <scope.name> stack for use by <scopePushName(sname=scope.name)>()
* and <scopePopName(sname=scope.name,...)>()
*/
pANTLR3_STACK <scopeStack(sname=scope.name,...)>;
ANTLR3_UINT32 <scopeStack(sname=scope.name,...)>_limit;
<scopeType(sname=scope.name,...)> (*<scopePushName(sname=scope.name,...)>)(struct <name>_Ctx_struct *
ctx);
<scopeType(sname=scope.name,...)> <scopeTopDecl(sname=scope.name,...)>;

<endif>
>>

globalAttributeScopeFuncs(scope) ::= <<
<if(scope.attributes)>
/* globalAttributeScopeFuncs(scope)
*/
<attributeFuncs(scope)>
<endif>
>>

ruleAttributeScopeFuncs(scope) ::= <<
<if(scope.attributes)>
/* ruleAttributeScopeFuncs(scope)
*/
<attributeFuncs(scope)>
<endif>
>>

globalAttributeScope(scope) ::= <<
<if(scope.attributes)>
/* globalAttributeScope(scope)
*/
ctx-><scopePushName(sname=scope.name,...)> = <scopePushName(sname=scope.name,...)>;
ctx-><scopeStack(sname=scope.name,...)> = antlr3StackNew(0);
ctx-><scopeStack(sname=scope.name,...)>_limit = 0;
<scopeTop(sname=scope.name,...)> = NULL;
<endif>
>>

ruleAttributeScope(scope) ::=

```

```

<<
<if(scope.attributes)>
/* ruleAttributeScope(scope)
*/
ctx-><scopePushName(sname=scope.name,...)> = <scopePushName(sname=scope.name,...)>;
ctx-><scopeStack(sname=scope.name,...)> = antlr3StackNew(0);
ctx-><scopeStack(sname=scope.name,...)>_limit = 0;
<scopeTop(sname=scope.name,...)> = NULL;
<endif>
>>

globalAttributeScopeFree(scope) ::= <<
<if(scope.attributes)>
/* globalAttributeScope(scope)
*/
ctx-><scopeStack(sname=scope.name,...)>->free(ctx-><scopeStack(sname=scope.name,...)>);
<endif>
>>

ruleAttributeScopeFree(scope) ::=
<<
<if(scope.attributes)>
/* ruleAttributeScope(scope)
*/
ctx-><scopeStack(sname=scope.name,...)>->free(ctx-><scopeStack(sname=scope.name,...)>);
<endif>
>>

scopeTopDecl(sname) ::= <<
p<name>_<sname>Top
>>

scopeTop(sname) ::= <<
ctx-><scopeTopDecl(sname=sname,...)>
>>

scopePop(sname) ::= <<
<scopePopName(sname=sname,...)>(ctx);
>>

scopePush(sname) ::= <<
p<name>_<sname>Push(ctx)
>>

scopePopName(sname) ::= <<
p<name>_<sname>Pop
>>

scopePushName(sname) ::= <<

```

```

p<name>_<sname>Push
>>

scopeType(sname) ::= <<
p<name>_<sname>_SCOPE
>>

scopeStruct(sname) ::= <<
<name>_<sname>_SCOPE
>>

scopeStack(sname) ::= <<
p<name>_<sname>Stack
>>

attributeFuncs(scope) ::= <<
<if(scope.attributes)>
/* attributeFuncs(scope)
*/

static void ANTLR3_CDECL <scope.name>Free(<scopeType(sname=scope.name)> scope)
{
    ANTLR3_FREE(scope);
}

/** \brief Allocate initial memory for a <name> <scope.name> scope variable stack entry and
 *     add it to the top of the stack.
 *
 * \remark
 * By default the structure is freed with ANTLR_FREE(), but you can use the
 * the \@init action to install a pointer to a custom free() routine by
 * adding the code:
 * \code
 * <scopeTop(sname=scope.name)>->free = myroutine;
 * \endcode
 *
 * With lots of comments of course! The routine should be declared in
 * \@members { } as:
 * \code
 * void ANTLR3_CDECL myfunc( <scopeType(sname=scope.name)> ptr).
 * \endcode
 *
 * It should perform any custom freeing stuff that you need (call ANTLR_FREE3, not free())
 * NB: It should not free the pointer it is given, which is the scope stack entry itself
 * and will be freed by the function that calls your custom free routine.
 *
 */
static <scopeType(sname=scope.name)>

```



```

<scopePushName(sname=scope.name)>(p<name> ctx)
{
    /* Pointer used to create a new set of attributes
    */
    <scopeType(sname=scope.name)>    newAttributes;

    /* Allocate the memory for a new structure if we need one.
    */
    if (ctx-><scopeStack(sname=scope.name)>->size(ctx-><scopeStack(sname=scope.name)>) > ctx-><scopeStack(sname=scope.name)>_limit)
    {
        // The current limit value was less than the number of scopes available on the stack so
        // we can just reuse one. Our limit tracks the stack count, so the index of the entry we want
        // is one less than that, or conveniently, the current value of limit.
        //
        newAttributes = (<scopeType(sname=scope.name)>)ctx-><scopeStack(sname=scope.name)>->get(ctx-><scopeStack(sname=scope.name)>, ctx-><scopeStack(sname=scope.name)>_limit);
    }
    else
    {
        // Need a new allocation
        //
        newAttributes = (<scopeType(sname=scope.name)>)
        ANTLR3_MALLOC(sizeof(<scopeStruct(sname=scope.name)>));
        if (newAttributes != NULL)
        {
            /* Standard ANTLR3 library implementation
            */
            ctx-><scopeStack(sname=scope.name)>->push(ctx-><scopeStack(sname=scope.name)>, newAttributes,
            (void (*)(void *))<scope.name>Free);
        }
    }

    // Blank out any previous free pointer, the user might or might install a new one.
    //
    newAttributes->free = NULL;

    // Indicate the position in the available stack that the current level is at
    //
    ctx-><scopeStack(sname=scope.name)>_limit++;

    /* Return value is the pointer to the new entry, which may be used locally
    * without de-referencing via the context.
    */
    return newAttributes;
}<\n>

<endif>

```

```

>>
returnStructName() ::= "<it.name>_return"

returnType() ::= <<
<if(!ruleDescriptor.isSynPred)>
<if(ruleDescriptor.hasMultipleReturnValues)>
<ruleDescriptor.grammar.recognizerName>_<ruleDescriptor:returnStructName()>
<else>
<if(ruleDescriptor.hasSingleReturnValue)>
<ruleDescriptor.singleValueReturnType>
<else>
void
<endif>
<endif>
<else>
ANTLR3_BOOLEAN
<endif>
>>

/** Generate the C type associated with a single or multiple return
 * value(s).
 */
ruleLabelType(referencedRule) ::= <<
<if(referencedRule.hasMultipleReturnValues)>
<referencedRule.grammar.recognizerName>_<referencedRule.name>_return
<else>
<if(referencedRule.hasSingleReturnValue)>
<referencedRule.singleValueReturnType>
<else>
void
<endif>
<endif>
>>

delegateName() ::= <<
<if(it.label)><it.label><else>g<it.name><endif>
>>

/** Using a type to init value map, try to init a type; if not in table
 * must be an object, default value is "0".
 */
initValue(typeName) ::= <<
= <cTypeInitMap.(typeName)>
>>

/** Define a rule label */
ruleLabelDef(label) ::= <<
<ruleLabelType(referencedRule=label.referencedRule)> <label.label.text>;

```

```

#undef RETURN_TYPE_<label.label.text>
#define RETURN_TYPE_<label.label.text> <ruleLabelType(referencedRule=label.referencedRule)><\n>
>>
/** Rule label default value */
ruleLabelInitVal(label) ::= <<
>>

ASTLabelType() ::=
"<if(recognizer.ASTLabelType)><recognizer.ASTLabelType><else>pANTLR3_BASE_TREE<endif>"

/** Define a return struct for a rule if the code needs to access its
 * start/stop tokens, tree stuff, attributes, ... Leave a hole for
 * subgroups to stick in members.
 */
returnScope() ::= <<
<if(!ruleDescriptor.isSynPred)>
<if(ruleDescriptor.hasMultipleReturnValues)>
typedef struct <ruleDescriptor.grammar.recognizerName>_<ruleDescriptor:returnStructName()>_struct
{
<if(!TREE_PARSER)>
/** Generic return elements for ANTLR3 rules that are not in tree parsers or returning trees
 */
pANTLR3_COMMON_TOKEN start;
pANTLR3_COMMON_TOKEN stop;
<else>
<recognizer.ASTLabelType> start;
<recognizer.ASTLabelType> stop;
<endif>
<@ruleReturnMembers()>
<ruleDescriptor.returnScope.attributes:{<it.type> <it.name>;}; separator="\n">
}
<ruleDescriptor.grammar.recognizerName>_<ruleDescriptor:returnStructName()>;<\n><\n>
<endif>
<endif>
>>

parameterScope(scope) ::= <<
<scope.attributes:{<it.decl>}; separator=", ">
>>

parameterAttributeRef(attr) ::= "<attr.name>"
parameterSetAttributeRef(attr,expr) ::= "<attr.name>=<expr>";

/** Note that the scopeAttributeRef does not have access to the
 * grammar name directly
 */
scopeAttributeRef(scope,attr,index,negIndex) ::= <<
<if(negIndex)>

```

```

((SCOPE_TYPE(<scope>))(ctx->SCOPE_STACK(<scope>)->get( ctx->SCOPE_STACK(<scope>), ctx-
>SCOPE_STACK(<scope>)->size(ctx->SCOPE_STACK(<scope>)) - <negIndex> - 1 ))-><attr.name>
<else>
<if(index)>
((SCOPE_TYPE(<scope>))(ctx->SCOPE_STACK(<scope>)->get(ctx->SCOPE_STACK(<scope>),
(ANTLR3_UINT32)<index> ) ))-><attr.name>
<else>
(SCOPE_TOP(<scope>))-><attr.name>
<endif>
<endif>
>>

scopeSetAttributeRef(scope,attr,expr,index,negIndex) ::= <<
<if(negIndex)>
((SCOPE_TYPE(<scope>))(ctx->SCOPE_STACK(<scope>)->get( ctx->SCOPE_STACK(<scope>), ctx-
>SCOPE_STACK(<scope>)->size(ctx->SCOPE_STACK(<scope>)) - <negIndex> - 1 ))-><attr.name> = <expr>;
<else>
<if(index)>
((SCOPE_TYPE(<scope>))(ctx->SCOPE_STACK(<scope>)->get(ctx->SCOPE_STACK(<scope>),
(ANTLR3_UINT32)<index> ) ))-><attr.name> = <expr>;
<else>
(SCOPE_TOP(<scope>))-><attr.name>=<expr>;
<endif>
<endif>
>>

/** $x is either global scope or x is rule with dynamic scope; refers
 * to stack itself not top of stack. This is useful for predicates
 * like {$function.size()>0 && $function::name.equals("foo")}?
 */
isolatedDynamicScopeRef(scope) ::= "ctx->SCOPE_STACK(<scope>)"

/** reference an attribute of rule; might only have single return value */
ruleLabelRef(referencedRule,scope,attr) ::= <<
<if(referencedRule.hasMultipleReturnValues)>
<scope>.<attr.name>
<else>
<scope>
<endif>
>>

returnAttributeRef(ruleDescriptor,attr) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
retval.<attr.name>
<else>
<attr.name>
<endif>
>>

```

```

returnSetAttributeRef(ruleDescriptor,attr,expr) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
retval.<attr.name>=<expr>;
<else>
<attr.name>=<expr>;
<endif>
>>

/** How to translate $tokenLabel */
tokenLabelRef(label) ::= "<label>"

/** ids+=ID {$ids} or e+=expr {$e} */
listLabelRef(label) ::= "list_<label>"

// not sure the next are the right approach
//
tokenLabelPropertyRef_text(scope,attr) ::= "<scope->getText(<scope>)"
tokenLabelPropertyRef_type(scope,attr) ::= "<scope->getType(<scope>)"
tokenLabelPropertyRef_line(scope,attr) ::= "<scope->getLine(<scope>)"
tokenLabelPropertyRef_pos(scope,attr) ::= "<scope->getCharPositionInLine(<scope>)"
tokenLabelPropertyRef_channel(scope,attr) ::= "<scope->getChannel(<scope>)"
tokenLabelPropertyRef_index(scope,attr) ::= "<scope->getTokenIndex(<scope>)"
tokenLabelPropertyRef_tree(scope,attr) ::= "<scope->tree"
tokenLabelPropertyRef_int(scope,attr) ::= "<scope->getText(<scope>->toInt32(<scope->getText(<scope>)))"

ruleLabelPropertyRef_start(scope,attr) ::= "<scope>.start"
ruleLabelPropertyRef_stop(scope,attr) ::= "<scope>.stop"
ruleLabelPropertyRef_tree(scope,attr) ::= "<scope>.tree"
ruleLabelPropertyRef_text(scope,attr) ::= <<
<if(TREE_PARSER)>
(STRSTREAM->toStringSS(STRSTREAM, <scope>.start, <scope>.start))
<else>
(STRSTREAM->toStringTT(STRSTREAM, <scope>.start, <scope>.stop))
<endif>
>>

ruleLabelPropertyRef_st(scope,attr) ::= "<scope>.st"

/** Isolated $RULE ref ok in lexer as it's a Token */
lexerRuleLabel(label) ::= "<label>"

lexerRuleLabelPropertyRef_type(scope,attr) ::= "<scope->getType(<scope>)"
lexerRuleLabelPropertyRef_line(scope,attr) ::= "<scope->getLine(<scope>)"
lexerRuleLabelPropertyRef_pos(scope,attr) ::= "<scope->getCharPositionInLine(<scope>)"
lexerRuleLabelPropertyRef_channel(scope,attr) ::= "<scope->getChannel(<scope>)"
lexerRuleLabelPropertyRef_index(scope,attr) ::= "<scope->getTokenIndex(<scope>)"

```

```

lexerRuleLabelPropertyRef_text(scope,attr) ::= "<scope->getText(<scope>)"

// Somebody may ref $template or $tree or $stop within a rule:
rulePropertyRef_start(scope,attr) ::= "retval.start"
rulePropertyRef_stop(scope,attr) ::= "retval.stop"
rulePropertyRef_tree(scope,attr) ::= "retval.tree"
rulePropertyRef_text(scope,attr) ::= <<
<if(TREE_PARSER)>
INPUT->toStringSS(INPUT, ADAPTOR->getTokenStartIndex(ADAPTOR, retval.start), ADAPTOR-
>getTokenStopIndex(ADAPTOR, retval.start))
<else>
STRSTREAM->toStringTT(STRSTREAM, retval.start, LT(-1))
<endif>
>>
rulePropertyRef_st(scope,attr) ::= "retval.st"

lexerRulePropertyRef_text(scope,attr) ::= "LEXER->getText(LEXER)"
lexerRulePropertyRef_type(scope,attr) ::= "_type"
lexerRulePropertyRef_line(scope,attr) ::= "LEXSTATE->tokenStartLine"
lexerRulePropertyRef_pos(scope,attr) ::= "LEXSTATE->tokenStartCharPositionInLine"
lexerRulePropertyRef_channel(scope,attr) ::= "LEXSTATE->channel"
lexerRulePropertyRef_start(scope,attr) ::= "LEXSTATE->tokenStartCharIndex"
lexerRulePropertyRef_stop(scope,attr) ::= "(LEXER->getCharIndex(LEXER)-1)"
lexerRulePropertyRef_index(scope,attr) ::= "-1" // undefined token index in lexer
lexerRulePropertyRef_int(scope,attr) ::= "LEXER->getText(LEXER)->toInt32(LEXER->getText(LEXER))"

// setting $st and $tree is allowed in local rule. everything else is flagged as error
ruleSetPropertyRef_tree(scope,attr,expr) ::= "retval.tree=<expr>";
ruleSetPropertyRef_st(scope,attr,expr) ::= "retval.st=<expr>";

/** How to deal with an @after for C targets. Because we cannot rely on
 * any garbage collection, after code is executed even in backtracking
 * mode. Must be documented clearly.
 */
execAfter(action) ::= <<
{
  <action>
}
>>

/** How to execute an action (when not backtracking) */
execAction(action) ::= <<
<if(backtracking)>
<if(actions.(actionScope).synpredgate)>
if ( <actions.(actionScope).synpredgate> )
{

```

```

    <action>
  }
<else>
if ( BACKTRACKING == 0 )
{
  <action>
}
<endif>
<else>
{
  <action>
}
<endif>
>>

// M I S C (properties, etc...)

bitsetDeclare(name, words64) ::= <<

/** Bitset defining follow set for error recovery in rule state: <name> */
static ANTLR3_BITWORD <name>_bits[] = { <words64:{ANTLR3_UINT64_LIT(<it>)}; separator=", "> };
static ANTLR3_BITSET_LIST <name> = { <name>_bits, <length(words64)> };
>>

bitset(name, words64) ::= <<
antlr3BitsetSetAPI(&<name>);<\n>
>>

codeFileExtension() ::= ".c"

true() ::= "ANTLR3_TRUE"
false() ::= "ANTLR3_FALSE"

```

Found in path(s):

* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/codegen/templates/C/C.stg
No license file was found, but licenses were detected in source scan.

```

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*/

Found in path(s):

* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/codegen/templates/Java/Dbg.stg

* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/codegen/templates/Java/ST.stg

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```

*/

/* in sync with Java/Java.stg revision 107 */

group Python implements ANTLRCore;

/** The overall file structure of a recognizer; stores methods for rules
 * and cyclic DFAs plus support code.
 */
outputFile(LEXER,PARSER,TREE_PARSER, actionScope, actions,
           docComment, recognizer,
           name, tokens, tokenNames, rules, cyclicDFAs,
           bitsets, buildTemplate, buildAST, rewriteMode, profile,
           backtracking, synpreds, memoize, numRules,
           fileName, ANTLRVersion, generatedTimestamp, trace,
           scopes, superClass, literals) ::=

<<
# $ANTLR <ANTLRVersion> <fileName> <generatedTimestamp>

<@imports>
import sys
from antlr3 import *
<if(TREE_PARSER)>
from antlr3.tree import *<\n>
<endif>
from antlr3.compat import set, frozenset
<@end>

<actions.(actionScope).header>

<! <docComment> !>

# for convenience in actions
HIDDEN = BaseRecognizer.HIDDEN

# token types
<tokens:{<it.name>=<it.type>}; separator="\n">

<recognizer>

<if(actions.(actionScope).main)>
<actions.(actionScope).main>
<else>
def main(argv, stdin=sys.stdin, stdout=sys.stdout, stderr=sys.stderr):
<if(LEXER)>
    from antlr3.main import LexerMain
    main = LexerMain(<recognizer.name>)<\n>
<endif>

```

```

<if(PARSER)>
    from antlr3.main import ParserMain
    main = ParserMain("<recognizer.grammar.name>Lexer", <recognizer.name>)<\n>
<endif>
<if(TREE_PARSER)>
    from antlr3.main import WalkerMain
    main = WalkerMain(<recognizer.name>)<\n>
<endif>
    main.stdin = stdin
    main.stdout = stdout
    main.stderr = stderr
    main.execute(argv)<\n>
<endif>

<actions.(actionScope).footer>

if __name__ == '__main__':
    main(sys.argv)

>>

lexer(grammar, name, tokens, scopes, rules, numRules, labelType="Token",
    filterMode, superClass="Lexer") ::= <<
<grammar.directDelegates:
{g|from <g.recognizerName> import <g.recognizerName>; separator="\n">

class <grammar.recognizerName>(<@superClassName><superClass><@end>):
    <scopes:{<if(it.isDynamicGlobalScope)><globalAttributeScope(scope=it)><endif>}>

    grammarFileName = "<fileName>"
    antlr_version = version_str_to_tuple("<ANTLRVersion>")
    antlr_version_str = "<ANTLRVersion>"

    def __init__(self<grammar.delegates:{g|, <g.delegateName()>}>, input=None, state=None):
        if state is None:
            state = RecognizerSharedState()
            super(<grammar.recognizerName>, self).__init__(input, state)

<if(memoize)>
<if(grammar.grammarIsRoot)>
    self._state.ruleMemo = {}
<endif>
<endif>

    <grammar.directDelegates:
    {g|self.<g.delegateName()> = <g.recognizerName>(<trunc(g.delegates):{p|<p.delegateName()>, }>self, input,
state)); separator="\n">
    <grammar.delegates:

```

```

    {g|self.<g:delegateName()> = <g:delegateName()>}; separator="\n">
    <last(grammar.delegators):
    {g|self.gParent = <g:delegateName()>}; separator="\n">

    <cyclicDFAs:{dfa | <cyclicDFAInit(dfa)>}; separator="\n">

    <actions.lexer.init>

    <actions.lexer.members>

    <if(filterMode)>
    <filteringNextToken()>
    <endif>
    <rules; separator="\n\n">

    <synpreds:{p | <lexerSynpred(p)>}>

    <cyclicDFAs:cyclicDFA()> <! dump tables for all DFA !>

>>

/** A override of Lexer.nextToken() that backtracks over mTokens() looking
 * for matches. No error can be generated upon error; just rewind, consume
 * a token and then try again. backtracking needs to be set as well.
 * Make rule memoization happen only at levels above 1 as we start mTokens
 * at backtracking==1.
 */
filteringNextToken() ::= <<
def nextToken(self):
    while True:
        if self.input.LA(1) == EOF:
            return EOF_TOKEN

        self._state.token = None
        self._state.channel = DEFAULT_CHANNEL
        self._state.tokenStartCharIndex = self.input.index()
        self._state.tokenStartCharPositionInLine = self.input.charPositionInLine
        self._state.tokenStartLine = self.input.line
        self._state._text = None
        try:
            m = self.input.mark()
            try:
                # means we won't throw slow exception
                self._state.backtracking = 1
            try:

```

```

        self.mTokens()
    finally:
        self._state.backtracking = 0

    except BacktrackingFailed:
        # mTokens backtracks with synpred at backtracking==2
        # and we set the synpredgate to allow actions at level 1.
        self.input.rewind(m)
        self.input.consume() # advance one char and try again

    else:
        self.emit()
        return self._state.token

    except RecognitionException, re:
        # shouldn't happen in backtracking mode, but...
        self.reportError(re)
        self.recover(re)

def memoize(self, input, ruleIndex, ruleStartIndex, success):
    if self._state.backtracking > 1:
        # is Lexer always superclass?
        <@superClassName><superClass><@end>.memoize(self, input, ruleIndex, ruleStartIndex, success)

def alreadyParsedRule(self, input, ruleIndex):
    if self._state.backtracking > 1:
        return <@superClassName><superClass><@end>.alreadyParsedRule(self, input, ruleIndex)
    return False

>>

actionGate() ::= "self._state.backtracking == 0"

filteringActionGate() ::= "self._state.backtracking == 1"

/** How to generate a parser */

genericParser(grammar, name, scopes, tokens, tokenNames, rules, numRules,
    bitsets, inputStreamType, superClass, filterMode,
    ASTLabelType="Object", labelType, members, rewriteElementType,
    init) ::= <<
<if(grammar.grammarIsRoot)>
# token names
tokenNames = [
    "\<invalid>", "\<EOR>", "\<DOWN>", "\<UP>",

```

```

    <tokenNames; wrap, separator=", ">
]<\n>
<else>
from <grammar.composite.rootGrammar.recognizerName> import tokenNames<\n>
<endif>
<scopes:{<if(it.isDynamicGlobalScope)><globalAttributeScopeClass(scope=it)><endif>}>

<grammar.directDelegates:
{g|from <g.recognizerName> import <g.recognizerName>; separator="\n">

<rules:{<ruleAttributeScopeClass(scope=it.ruleDescriptor.ruleScope)>}>

class <grammar.recognizerName>(<@superClassName><superClass><@end>):
    grammarFileName = "<fileName>"
    antlr_version = version_str_to_tuple("<ANTLRVersion>")
    antlr_version_str = "<ANTLRVersion>"
    tokenNames = tokenNames

    def __init__(self<grammar.delegates:{g|, <g:delegateName()>}, input, state=None, *args, **kwargs):
        if state is None:
            state = RecognizerSharedState()

        <@args()>
        super(<grammar.recognizerName>, self).__init__(input, state, *args, **kwargs)

<if(memoize)>
<if(grammar.grammarIsRoot)>
    self._state.ruleMemo = {}
<endif>
<endif>

    <cyclicDFAs:{dfa | <cyclicDFAInit(dfa)>}; separator="\n">

    <scopes:{<if(it.isDynamicGlobalScope)><globalAttributeScopeStack(scope=it)><endif>}>
    <rules:{<ruleAttributeScopeStack(scope=it.ruleDescriptor.ruleScope)>}>

    <init>

    <grammar.delegates:
    {g|self.<g:delegateName()> = <g:delegateName()>; separator="\n">
    <grammar.directDelegates:
    {g|self.<g:delegateName()> = <g.recognizerName>(<trunc(g.delegates):{p|<p:delegateName()>, }>self, input,
state)); separator="\n">
    <!grammar.directDelegates:
    {g|self.<g:delegateName()> = <g.recognizerName>(self<grammar.delegates:{g|, <g:delegateName()>},
input, state)); separator="\n"!>
    <last(grammar.delegates):
    {g|self.gParent = self.<g:delegateName()>; separator="\n">

```

```

    <@init>
    <@end>

<@members>
<@end>

<members>

<rules; separator="\n\n">

<! generate rule/method definitions for imported rules so they
    appear to be defined in this recognizer. !>
# Delegated rules
<grammar.delegatedRules:{ruleDescriptor| <delegateRule(ruleDescriptor)> }; separator="\n">

<synpreds:{p | <synpred(p)>}>

<cyclicDFAs:cyclicDFA()> <! dump tables for all DFA !>

<bitsets:{FOLLOW_<it.name>_in_<it.inName><it.tokenIndex> = frozenset([<it.tokenTypes:{<it>}separator=",
">])<\n>}>

>>

delegateRule(ruleDescriptor) ::= <<
def <ruleDescriptor.name>(self, <ruleDescriptor.parameterScope:parameterScope(scope=it)>):
<\ > <if(ruleDescriptor.hasReturnValue)>return
<endif>self.<ruleDescriptor.grammar:delegateName()>.<ruleDescriptor.name>(<ruleDescriptor.parameterScope.att
ributes:{a|<a.name>}; separator=", ">)

>>

parser(grammar, name, scopes, tokens, tokenNames, rules, numRules, bitsets, ASTLabelType="object",
superClass="Parser", labelType="Token", members={<actions.parser.members>}) ::= <<
<genericParser(inputStreamType="TokenStream", rewriteElementType="Token", init={<actions.parser.init>}, ...)>
>>

/** How to generate a tree parser; same as parser except the input
 * stream is a different type.
 */
treeParser(grammar, name, scopes, tokens, tokenNames, globalAction, rules, numRules, bitsets,
labelType={<ASTLabelType>}, ASTLabelType="Object", superClass="TreeParser",
members={<actions.treeparser.members>}, filterMode) ::= <<
<genericParser(inputStreamType="TreeNodeStream", rewriteElementType="Node",
init={<actions.treeparser.init>}, ...)>

```

>>

```
/** A simpler version of a rule template that is specific to the imaginary
 * rules created for syntactic predicates. As they never have return values
 * nor parameters etc..., just give simplest possible method. Don't do
 * any of the normal memoization stuff in here either; it's a waste.
 * As predicates cannot be inlined into the invoking rule, they need to
 * be in a rule by themselves.
 */
synpredRule(ruleName, ruleDescriptor, block, description, nakedBlock) ::=
<<
# $ANTLR start "<ruleName>"
def <ruleName>_fragment(self, <ruleDescriptor.parameterScope:parameterScope(scope=it)>):
<if(trace)>
  self.traceIn("<ruleName>_fragment", <ruleDescriptor.index>)
  try:
    <block>

  finally:
    self.traceOut("<ruleName>_fragment", <ruleDescriptor.index>)

<else>
  <block>
<endif>
# $ANTLR end "<ruleName>"
```

>>

```
synpred(name) ::= <<
def <name>(self):
  self._state.backtracking += 1
  <@start()>
  start = self.input.mark()
  try:
    self.<name>_fragment()
  except BacktrackingFailed:
    success = False
  else:
    success = True
  self.input.rewind(start)
  <@stop()>
  self._state.backtracking -= 1
  return success
```

>>

```

lexerSynpred(name) ::= <<
<synpred(name)>
>>

ruleMemoization(name) ::= <<
<if(memoize)>
if self._state.backtracking > 0 and self.alreadyParsedRule(self.input, <ruleDescriptor.index>):
    # for cached failed rules, alreadyParsedRule will raise an exception
    success = True
    return <ruleReturnValue()>

<endif>
>>

/** This rule has failed, exit indicating failure during backtrack */
ruleBacktrackFailure() ::= <<
<if(backtracking)>
if self._state.backtracking > 0:
    raise BacktrackingFailed

<endif>
>>

/** How to generate code for a rule. This includes any return type
 * data aggregates required for multiple return values.
 */
rule(ruleName,ruleDescriptor,block,emptyRule,description,exceptions,finally,memoize) ::= <<
<returnScope(scope=ruleDescriptor.returnScope)>

# $ANTLR start "<ruleName>"
# <fileName>:<description>
<ruleDescriptor.actions.decorate>
def <ruleName>(self, <ruleDescriptor.parameterScope;parameterScope(scope=it)>):
<if(trace)>
    self.traceIn("<ruleName>", <ruleDescriptor.index>)<\n>
<endif>
    <ruleScopeSetUp()>
    <ruleDeclarations()>
    <ruleLabelDefs()>
    <ruleDescriptor.actions.init>
    <@preamble()>
    <@body><ruleBody()><@end>
    <@postamble()>
    return <ruleReturnValue()>

# $ANTLR end "<ruleName>"
>>

```



```

ruleBody() ::= <<
<if(memoize)>
<if(backtracking)>
success = False<\n>
<endif>
<endif>
try:
  try:
    <ruleMemoization(name=ruleName)>
    <block>
    <ruleCleanUp()>
    <(ruleDescriptor.actions.after):execAction()>

<if(memoize)>
<if(backtracking)>
  success = True<\n>
<endif>
<endif>
<if(exceptions)>
  <exceptions:{e|<catch(decl=e.decl,action=e.action)><\n>}>
<else>
<if(!emptyRule)>
<if(actions.(actionScope).rulecatch)>
  <actions.(actionScope).rulecatch>
<else>
  except RecognitionException, re:
    self.reportError(re)
    self.recover(self.input, re)
    <@setErrorReturnValue()>

<endif>
<else>
  finally:
    pass

<endif>
<endif>
finally:
<if(trace)>
  self.traceOut("<ruleName>", <ruleDescriptor.index>)<\n>
<endif>
  <memoize()>
  <ruleScopeCleanUp()>
  <finally>
  pass
>>

```

```

catch(decl,action) ::= <<

```

```

except <e.decl>:
    <e.action>

>>

ruleDeclarations() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
retval = self.<ruleDescriptor.name>_return()
retval.start = self.input.LT(1)<\n>
<else>
<ruleDescriptor.returnScope.attributes: { a |
<a.name> = <if(a.initValue)><a.initValue><else>None<endif>
}>
<endif>
<if(memoize)>
<ruleDescriptor.name>_startIndex = self.input.index()
<endif>
>>

ruleScopeSetUp() ::= <<
<ruleDescriptor.useScopes: { self.<it>_stack.append(<it>_scope()); separator="\n">
<ruleDescriptor.ruleScope: { self.<it.name>_stack.append(<it.name>_scope()); separator="\n">
>>

ruleScopeCleanup() ::= <<
<ruleDescriptor.useScopes: { self.<it>_stack.pop(); separator="\n">
<ruleDescriptor.ruleScope: { self.<it.name>_stack.pop(); separator="\n">
>>

ruleLabelDefs() ::= <<
<[ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels,
ruleDescriptor.wildcardTreeLabels,ruleDescriptor.wildcardTreeListLabels]
: { <it.label.text> = None }; separator="\n"
>
<[ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels,
ruleDescriptor.wildcardTreeListLabels]
: { list_<it.label.text> = None }; separator="\n"
>
<[ruleDescriptor.ruleLabels,ruleDescriptor.ruleListLabels]
: ruleLabelDef(label=it); separator="\n"
>
<ruleDescriptor.ruleListLabels: { <it.label.text> = None }; separator="\n">
>>

lexerRuleLabelDefs() ::= <<
<[ruleDescriptor.tokenLabels,
ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleLabels]

```

```

    :{<it.label.text> = None}; separator="\n"
  >
  <ruleDescriptor.charLabels:{<it.label.text> = None}; separator="\n">
  <[ruleDescriptor.tokenListLabels,
  ruleDescriptor.ruleListLabels]
  :{list_<it.label.text> = None}; separator="\n"
  >
  >>

ruleReturnValue() ::= <<
  <if(!ruleDescriptor.isSynPred)>
  <if(ruleDescriptor.hasReturnValue)>
  <if(ruleDescriptor.hasSingleReturnValue)>
  <ruleDescriptor.singleValueReturnName>
  <else>
  retval
  <endif>
  <endif>
  <endif>
  >>

ruleCleanup() ::= <<
  <if(ruleDescriptor.hasMultipleReturnValues)>
  <if(!TREE_PARSER)>
  retval.stop = self.input.LT(-1)<\n>
  <endif>
  <endif>
  >>

memoize() ::= <<
  <if(memoize)>
  <if(backtracking)>
  if self._state.backtracking > 0:
    self.memoize(self.input, <ruleDescriptor.index>, <ruleDescriptor.name>_startIndex, success)

  <endif>
  <endif>
  >>

/** How to generate a rule in the lexer; naked blocks are used for
 * fragment rules.
 */
lexerRule(ruleName,nakedBlock,ruleDescriptor,block,memoize) ::= <<
# $ANTLR start "<ruleName>"
def m<ruleName>(self, <ruleDescriptor.parameterScope:parameterScope(scope=it)>):
  <if(trace)>
    self.traceIn("<ruleName>", <ruleDescriptor.index>)<\n>
  <endif>

```

```

    <ruleScopeSetUp()>
    <ruleDeclarations()>
<if(memoize)>
<if(backtracking)>
    success = False<\n>
<endif>
<endif>
    try:
<if(nakedBlock)>
    <ruleMemoization(name=ruleName)>
    <lexerRuleLabelDefs()>
    <ruleDescriptor.actions.init>
    <block><\n>
<else>
    _type = <ruleName>
    _channel = DEFAULT_CHANNEL

    <ruleMemoization(name=ruleName)>
    <lexerRuleLabelDefs()>
    <ruleDescriptor.actions.init>
    <block>
    <ruleCleanUp()>
    self._state.type = _type
    self._state.channel = _channel
    <(ruleDescriptor.actions.after):execAction()>
<endif>
<if(memoize)>
<if(backtracking)>
    success = True<\n>
<endif>
<endif>

    finally:
<if(trace)>
    self.traceOut("<ruleName>", <ruleDescriptor.index>)<\n>
<endif>
<ruleScopeCleanUp()>
    <memoize()>
    pass

# $ANTLR end "<ruleName>"

>>

/** How to generate code for the implicitly-defined lexer grammar rule
 * that chooses between lexer rules.
 */

```

```

tokensRule(ruleName,nakedBlock,args,block,ruleDescriptor) ::= <<
def mTokens(self):
    <block><\n>

>>

// S U B R U L E S

/** A (...) subrule with multiple alternatives */
block(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
# <fileName>:<description>
alt<decisionNumber> = <maxAlt>
<decls>
<@body><blockBody()><@end>
>>

blockBody() ::= <<
<@predecision()>
<@decision><decision><@end>
<@postdecision()>
<@prebranch()>
<alts:altSwitchCase(); separator="\nel">
<@postbranch()>
>>

/** A rule block with multiple alternatives */
ruleBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
# <fileName>:<description>
alt<decisionNumber> = <maxAlt>
<decls>
<@predecision()>
<@decision><decision><@end>
<@postdecision()>
<alts:altSwitchCase(); separator="\nel">
>>

ruleBlockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
# <fileName>:<description>
<decls>
<@prealt()>
<alts>
<@postalt()>
>>

/** A special case of a (...) subrule with a single alternative */
blockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
# <fileName>:<description>

```

```

<decls>
<@prealt()>
<alts>
<@postalt()>
>>

/** A (..)+ block with 1 or more alternatives */
positiveClosureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
# <fileName>:<description>
cnt<decisionNumber> = 0
<decls>
<@preloop()>
<@loopBody>
<positiveClosureBlockLoop()>
<@end>
<@postloop()>
>>

positiveClosureBlockLoop() ::= <<
while True: #loop<decisionNumber>
  alt<decisionNumber> = <maxAlt>
  <@predecision()>
  <@decisionBody><decision><@end>
  <@postdecision()>
  <alts:altSwitchCase(); separator="\nel">
  else:
    if cnt<decisionNumber> >= 1:
      break #loop<decisionNumber>

  <ruleBacktrackFailure()>
  eee = EarlyExitException(<decisionNumber>, self.input)
  <@earlyExitException()>
  raise eee

  cnt<decisionNumber> += 1
>>

positiveClosureBlockSingleAlt ::= positiveClosureBlock

/** A (..)* block with 1 or more alternatives */
closureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::=
<<
# <fileName>:<description>
<decls>
<@preloop()>
<@loopBody>
<closureBlockLoop()>

```

```

<@end>
<@postloop()>
>>

closureBlockLoop() ::= <<
while True: #loop<decisionNumber>
  alt<decisionNumber> = <maxAlt>
  <@predecision()>
  <@decisionBody><decision><@end>
  <@postdecision()>
  <alts:altSwitchCase(); separator="\nel">
  else:
    break #loop<decisionNumber>
>>

closureBlockSingleAlt ::= closureBlock

/** Optional blocks (x)? are translated to (x|) by before code generation
 * so we can just use the normal block template
 */
optionalBlock ::= block

optionalBlockSingleAlt ::= block

/** A case in a switch that jumps to an alternative given the alternative
 * number. A DFA predicts the alternative and then a simple switch
 * does the jump to the code that actually matches that alternative.
 */
altSwitchCase() ::= <<
if alt<decisionNumber> == <i>:
  <@prealt()>
  <it>
>>

/** An alternative is just a list of elements; at outermost level */
alt(elements,altNum,description,autoAST,outerAlt, treeLevel,rew) ::= <<
# <fileName>:<description>
pass <! so empty alternatives are a valid block !>
<@declarations()>
<elements:element()>
<rew>
<@cleanup()>
>>

/** What to emit when there is no rewrite. For auto build
 * mode, does nothing.
 */
noRewrite(rewriteBlockLevel, treeLevel) ::= ""

```

```

// ELEMENTS

/** Dump the elements one per line */
element() ::= <<
<@prematch(>
<it.el><\n>
>>

/** match a token optionally with a label in front */
tokenRef(token,label,elementIndex,hetero) ::= <<
<if(label)><label>=<endif>self.match(self.input, <token>,
self.FOLLOW_<token>_in_<ruleName><elementIndex>)
>>

/** ids+=ID */
tokenRefAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRef(...)>
<listLabel(elem=label,...)>
>>

listLabel(label, elem) ::= <<
if list_<label> is None:
    list_<label> = []
list_<label>.append(<elem>)<\n>
>>

/** match a character */
charRef(char,label) ::= <<
<if(label)>
<label> = self.input.LA(1)<\n>
<endif>
self.match(<char>)
>>

/** match a character range */
charRangeRef(a,b,label) ::= <<
<if(label)>
<label> = self.input.LA(1)<\n>
<endif>
self.matchRange(<a>, <b>)
>>

/** For now, sets are interval tests and must be tested inline */
matchSet(s,label,elementIndex,postmatchCode="") ::= <<
<if(label)>
<label> = self.input.LT(1)<\n>
<endif>

```



```

if <s>:
    self.input.consume()
    <postmatchCode>
<if(!LEXER)>
    self._state.errorRecovery = False<\n>
<endif>

else:
    <ruleBacktrackFailure()>
    mse = MismatchedSetException(None, self.input)
    <@mismatchedSetException()>
<if(LEXER)>
    self.recover(mse)
    raise mse
<else>
    raise mse
    <! use following code to make it recover inline; remove throw mse;
    self.recoverFromMismatchedSet(
        self.input, mse, self.FOLLOW_set_in_<ruleName><elementIndex>
    )
    !>
<endif>
<\n>
>>

matchRuleBlockSet ::= matchSet

matchSetAndListLabel(s,label,elementIndex,postmatchCode) ::= <<
<matchSet(...)>
<listLabel(elem=label,...)>
>>

/** Match a string literal */
lexerStringRef(string,label,elementIndex) ::= <<
<if(label)>
<label>Start = self.getCharIndex()
self.match(<string>)
<label> = CommonToken(input=self.input, type=INVALID_TOKEN_TYPE, channel=DEFAULT_CHANNEL,
start=<label>Start, stop=self.getCharIndex()-1)
<else>
self.match(<string>)
<endif>
>>

wildcard(label,elementIndex) ::= <<
<if(label)>
<label> = self.input.LT(1)<\n>
<endif>

```

```
self.matchAny(self.input)
```

```
>>
```

```
wildcardAndListLabel(label,elementIndex) ::= <<
```

```
<wildcard(...)>
```

```
<listLabel(elem=label,...)>
```

```
>>
```

```
/** Match . wildcard in lexer */
```

```
wildcardChar(label, elementIndex) ::= <<
```

```
<if(label)>
```

```
<label> = self.input.LA(1)<\n>
```

```
<endif>
```

```
self.matchAny()
```

```
>>
```

```
wildcardCharListLabel(label, elementIndex) ::= <<
```

```
<wildcardChar(...)>
```

```
<listLabel(elem=label,...)>
```

```
>>
```

```
/** Match a rule reference by invoking it possibly with arguments
```

```
* and a return value or values. The 'rule' argument was the
```

```
* target rule name, but now is type Rule, whose toString is
```

```
* same: the rule name. Now though you can access full rule
```

```
* descriptor stuff.
```

```
*/
```

```
ruleRef(rule,label,elementIndex,args,scope) ::= <<
```

```
self._state.following.append(self.FOLLOW_<rule.name>_in_<ruleName><elementIndex>)
```

```
<if(label)><label> = <endif>self.<if(scope)><scope:delegateName()>.<endif><rule.name>(<args; separator=",">
```

```
"")<\n>
```

```
self._state.following.pop()
```

```
>>
```

```
/** ids+=rule */
```

```
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
```

```
<ruleRef(...)>
```

```
<listLabel(elem=label,...)>
```

```
>>
```

```
/** A lexer rule reference
```

```
* The 'rule' argument was the target rule name, but now
```

```
* is type Rule, whose toString is same: the rule name.
```

```
* Now though you can access full rule descriptor stuff.
```

```
*/
```

```
lexerRuleRef(rule,label,args,elementIndex,scope) ::= <<
```

```
<if(label)>
```

```
<label>Start<elementIndex> = self.getCharIndex()
```

```

self.<if(scope)><scope:delegateName()>.<endif>m<rule.name>(<args; separator=", ">)
<label> = CommonToken(
    input=self.input,
    type=INVALID_TOKEN_TYPE,
    channel=DEFAULT_CHANNEL,
    start=<label>Start<elementIndex>,
    stop=self.getCharIndex()-1
)
<else>
self.<if(scope)><scope:delegateName()>.<endif>m<rule.name>(<args; separator=", ">)
<endif>
>>

/** i+=INT in lexer */
lexerRuleRefAndListLabel(rule,label,args,elementIndex,scope) ::= <<
<lexerRuleRef(...)>
<listLabel(elem=label,...)>
>>

/** EOF in the lexer */
lexerMatchEOF(label,elementIndex) ::= <<
<if(label)>
<label>Start<elementIndex> = self.getCharIndex()
self.match(EOF)
<label> = CommonToken(input=self.input, type=EOF, channel=DEFAULT_CHANNEL,
start=<label>Start<elementIndex>, stop=self.getCharIndex()-1)
<else>
self.match(EOF)
<endif>
>>

/** match ^(root children) in tree parser */
tree(root, actionsAfterRoot, children, nullableChildList,
    enclosingTreeLevel, treeLevel) ::= <<
<root:element()>
<actionsAfterRoot:element()>
<if(nullableChildList)>
if self.input.LA(1) == DOWN:
    self.match(self.input, DOWN, None)
    <children:element()>
    self.match(self.input, UP, None)

<else>
self.match(self.input, DOWN, None)
<children:element()>
self.match(self.input, UP, None)
<endif>
>>

```

```

/** Every predicate is used as a validating predicate (even when it is
 * also hoisted into a prediction expression).
 */
validateSemanticPredicate(pred,description) ::= <<
if not (<evalPredicate(...)>):
    <ruleBacktrackFailure()>
    raise FailedPredicateException(self.input, "<ruleName>", "<description>")

>>

// F i x e d D F A (if-then-else)

dfaState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
LA<decisionNumber>_<stateNumber> = self.input.LA(<k>)<\n>
<edges; separator="\n" >
else:
<if(eotPredictsAlt)>
    alt<decisionNumber> = <eotPredictsAlt>
<else>
    <ruleBacktrackFailure()>
    nvae = NoViableAltException("<description>", <decisionNumber>, <stateNumber>, self.input)<\n>
    <@noViableAltException()>
    raise nvae<\n>
<endif>
>>

/** Same as a normal DFA state except that we don't examine lookahead
 * for the bypass alternative. It delays error detection but this
 * is faster, smaller, and more what people expect. For (X)? people
 * expect "if ( LA(1)==X ) match(X);" and that's it.
 */
dfaOptionalBlockState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
LA<decisionNumber>_<stateNumber> = self.input.LA(<k>)<\n>
<edges; separator="\n" >
>>

/** A DFA state that is actually the loopback decision of a closure
 * loop. If end-of-token (EOT) predicts any of the targets then it
 * should act like a default clause (i.e., no error can be generated).
 * This is used only in the lexer so that for ('a')* on the end of a rule
 * anything other than 'a' predicts exiting.
 */
dfaLoopbackState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
LA<decisionNumber>_<stateNumber> = self.input.LA(<k>)<\n>
<edges; separator="\n" ><\n>
<if(eotPredictsAlt)>
<if(!edges)>

```

```

alt<decisionNumber> = <eotPredictsAlt> <! if no edges, don't gen ELSE !>
<else>
else:
    alt<decisionNumber> = <eotPredictsAlt>
<\n>
<endif>
<endif>
>>

/** An accept state indicates a unique alternative has been predicted */
dfaAcceptState(alt) ::= "alt<decisionNumber> = <alt>"

/** A simple edge with an expression. If the expression is satisfied,
 * enter to the target state. To handle gated productions, we may
 * have to evaluate some predicates for this edge.
 */
dfaEdge(labelExpr, targetState, predicates) ::= <<
if (<labelExpr>) <if(predicates)>and (<predicates>)<endif>:
    <targetState>
>>

// F i x e d D F A (switch case)

/** A DFA state where a SWITCH may be generated. The code generator
 * decides if this is possible: CodeGenerator.canGenerateSwitch().
 */
dfaStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
<!
    FIXME: this is one of the few occasion, where I miss a switch statement
    in Python. ATM this is implemented as a list of if .. elif ..
    This may be replaced by faster a dictionary lookup, when I find a solution
    for the cases when an edge is not a plain dfaAcceptState.
!>
LA<decisionNumber> = self.input.LA(<k>)
<edges; separator="\n">
else:
<if(eotPredictsAlt)>
    alt<decisionNumber> = <eotPredictsAlt>
<else>
    <ruleBacktrackFailure()>
    nvae = NoViableAltException("<description>", <decisionNumber>, <stateNumber>, self.input)<\n>
    <@noViableAltException()>
    raise nvae<\n>
<endif>

>>

dfaOptionalBlockStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<

```

```

LA<decisionNumber> = self.input.LA(<k>)
<edges; separator="\n">
>>

dfaLoopbackStateSwitch(k, edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
LA<decisionNumber> = self.input.LA(<k>)
<edges; separator="\n">
<if(eotPredictsAlt)>
else:
    alt<decisionNumber> = <eotPredictsAlt>
<endif>
>>

dfaEdgeSwitch(labels, targetState) ::= <<
if <labels:{LA<decisionNumber> == <it>}; separator=" or ">:
    <targetState>
>>

// C y c l i c D F A

/** The code to initiate execution of a cyclic DFA; this is used
 * in the rule to predict an alt just like the fixed DFA case.
 * The <name> attribute is inherited via the parser, lexer, ...
 */
dfaDecision(decisionNumber,description) ::= <<
alt<decisionNumber> = self.dfa<decisionNumber>.predict(self.input)
>>

/* Dump DFA tables as run-length-encoded Strings of octal values.
 * Can't use hex as compiler translates them before compilation.
 * These strings are split into multiple, concatenated strings.
 * Java puts them back together at compile time thankfully.
 * Java cannot handle large static arrays, so we're stuck with this
 * encode/decode approach. See analysis and runtime DFA for
 * the encoding methods.
 */
cyclicDFA(dfa) ::= <<
# lookup tables for DFA #<dfa.decisionNumber>

DFA<dfa.decisionNumber>_eot = DFA.unpack(
    u"<dfa.javaCompressedEOT; wrap="\n  u\"">"
    )

DFA<dfa.decisionNumber>_eof = DFA.unpack(
    u"<dfa.javaCompressedEOF; wrap="\n  u\"">"
    )

DFA<dfa.decisionNumber>_min = DFA.unpack(

```

```

    u"<dfa.javaCompressedMin; wrap="\n  u\>"
  )

DFA<dfa.decisionNumber>_max = DFA.unpack(
  u"<dfa.javaCompressedMax; wrap="\n  u\>"
  )

DFA<dfa.decisionNumber>_accept = DFA.unpack(
  u"<dfa.javaCompressedAccept; wrap="\n  u\>"
  )

DFA<dfa.decisionNumber>_special = DFA.unpack(
  u"<dfa.javaCompressedSpecial; wrap="\n  u\>"
  )

DFA<dfa.decisionNumber>_transition = [
  <dfa.javaCompressedTransition: {s|DFA.unpack(u"<s; wrap="\nu\>"); separator=",\n">
]

# class definition for DFA #<dfa.decisionNumber>

class DFA<dfa.decisionNumber>(DFA):
  pass

  <@errorMethod()>

  <if(dfa.specialStateSTs)>
  def specialStateTransition(self_, s, input):
    # convince pylint that my self_ magic is ok ;
    # pylint: disable-msg=E0213

    # pretend we are a member of the recognizer
    # thus semantic predicates can be evaluated
    self = self_.recognizer

    _s = s

    <dfa.specialStateSTs: {state |
if s == <i0>: <! compressed special state numbers 0..n-1 !>
<state>}; separator="\n!">

  <if(backtracking)>
    if self._state.backtracking >0:
      raise BacktrackingFailed

  <endif>

  nvae = NoViableAltException(self_.getDescription(), <dfa.decisionNumber>, _s, input)

```

```

        self._error(nvae)
        raise nvae<\n>
<endif>

>>

cyclicDFAInit(dfa) ::= <<
self.dfa<dfa.decisionNumber> = self.DFA<dfa.decisionNumber>(
    self, <dfa.decisionNumber>,
    eot = self.DFA<dfa.decisionNumber>_eot,
    eof = self.DFA<dfa.decisionNumber>_eof,
    min = self.DFA<dfa.decisionNumber>_min,
    max = self.DFA<dfa.decisionNumber>_max,
    accept = self.DFA<dfa.decisionNumber>_accept,
    special = self.DFA<dfa.decisionNumber>_special,
    transition = self.DFA<dfa.decisionNumber>_transition
)<\n>
>>

/** A state in a cyclic DFA; it's a special state and part of a big switch on
 * state.
 */
cyclicDFAState(decisionNumber,stateNumber,edges,needErrorClause,semPredState) ::= <<
LA<decisionNumber>_<stateNumber> = input.LA(1)<\n>
<if(semPredState)> <! get next lookahead symbol to test edges, then rewind !>
index<decisionNumber>_<stateNumber> = input.index()
input.rewind()<\n>
<endif>
s = -1
<edges; separator="\n" >
<if(semPredState)> <! return input cursor to state before we rewound !>
input.seek(index<decisionNumber>_<stateNumber>)<\n>
<endif>
if s >= 0:
    return s
>>

/** Just like a fixed DFA edge, test the lookahead and indicate what
 * state to jump to next if successful.
 */
cyclicDFAEdge(labelExpr, targetStateNumber, edgeNumber, predicates) ::= <<
if (<labelExpr>)<if(predicates)> and (<predicates>)<endif>:
    s = <targetStateNumber><\n>
>>

/** An edge pointing at end-of-token; essentially matches any char;
 * always jump to the target.
 */

```



```

eotDFAEdge(targetStateNumber,edgeNumber, predicates) ::= <<
se:
  s = <targetStateNumber><\n>
>>

// D F A E X P R E S S I O N S

andPredicates(left,right) ::= "((<left>) and (<right>))"

orPredicates(operands) ::= "(<first(operands)><rest(operands):{o | or <o>}>)"

notPredicate(pred) ::= "not (<evalPredicate(...)>)"

evalPredicate(pred,description) ::= "(<pred>)"

evalSynPredicate(pred,description) ::= "self.<pred>()"

lookaheadTest(atom,k,atomAsInt) ::= "LA<decisionNumber>_<stateNumber> == <atom>"

/** Sometimes a lookahead test cannot assume that LA(k) is in a temp variable
 * somewhere. Must ask for the lookahead directly.
 */
isolatedLookaheadTest(atom,k,atomAsInt) ::= "self.input.LA(<k>) == <atom>"

lookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= <<
(<lower> \<= LA<decisionNumber>_<stateNumber> \<= <upper>)
>>

isolatedLookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= "(<lower> \<=
self.input.LA(<k>) \<= <upper>)"

setTest(ranges) ::= "<ranges; separator=\\\" or \\\">"

// A T T R I B U T E S

globalAttributeScopeClass(scope) ::= <<
<if(scope.attributes)>
class <scope.name>_scope(object):
  def __init__(self):
    <scope.attributes:{self.<it.decl> = None }; separator="\n">

<endif>
>>

globalAttributeScopeStack(scope) ::= <<
<if(scope.attributes)>
self.<scope.name>_stack = []<\n>

```

```

<endif>
>>

ruleAttributeScopeClass(scope) ::= <<
<if(scope.attributes)>
class <scope.name>_scope(object):
    def __init__(self):
        <scope.attributes:{self.<it.decl> = None}; separator="\n">

<endif>
>>

ruleAttributeScopeStack(scope) ::= <<
<if(scope.attributes)>
self.<scope.name>_stack = []<\n>
<endif>
>>

delegateName() ::= <<
<if(it.label)><it.label><else>g<it.name><endif>
>>

/** Define a rule label including default value */
ruleLabelDef(label) ::= <<
<label.label.text> = None<\n>
>>

returnStructName() ::= "<it.name>_return"

/** Define a return struct for a rule if the code needs to access its
 * start/stop tokens, tree stuff, attributes, ... Leave a hole for
 * subgroups to stick in members.
 */
returnScope(scope) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
class <ruleDescriptor:returnStructName()>(<if(TREE_PARSER)>Tree<else>Parser<endif>RuleReturnScope):
    def __init__(self):
        super(<grammar.recognizerName>.<ruleDescriptor:returnStructName()>, self).__init__()

        <scope.attributes:{self.<it.decl> = None}; separator="\n">
        <@ruleReturnInit()>

        <@ruleReturnMembers()>

<endif>
>>

```

```

parameterScope(scope) ::= <<
<scope.attributes:{<it.decl>}; separator=", ">
>>

parameterAttributeRef(attr) ::= "<attr.name>"
parameterSetAttributeRef(attr,expr) ::= "<attr.name> = <expr>"

scopeAttributeRef(scope,attr,index,negIndex) ::= <<
<if(negIndex)>
self.<scope>_stack[-<negIndex>].<attr.name>
<else>
<if(index)>
self.<scope>_stack[<index>].<attr.name>
<else>
self.<scope>_stack[-1].<attr.name>
<endif>
<endif>
>>

/* not applying patch because of bug in action parser!

<if(negIndex)>
((len(self.<scope>_stack) - <negIndex> - 1) >= 0 and [self.<scope>_stack[-<negIndex>].<attr.name>] or [None])[0]
<else>
<if(index)>
((<index> < len(self.<scope>_stack)) and [self.<scope>_stack[<index>].<attr.name>] or [None])[0]
<else>
((len(self.<scope>_stack) > 0) and [self.<scope>_stack[-1].<attr.name>] or [None])[0]
<endif>
<endif>

*/

scopeSetAttributeRef(scope,attr,expr,index,negIndex) ::= <<
<if(negIndex)>
<!FIXME: this seems not to be used by ActionTranslator...!>
self.<scope>_stack[-<negIndex>].<attr.name> = <expr>
<else>
<if(index)>
<!FIXME: this seems not to be used by ActionTranslator...!>
self.<scope>_stack[<index>].<attr.name> = <expr>
<else>
self.<scope>_stack[-1].<attr.name> = <expr>
<endif>
<endif>
>>

/** $x is either global scope or x is rule with dynamic scope; refers

```

```

* to stack itself not top of stack. This is useful for predicates
* like {$function.size(>0 && $function::name.equals("foo"))?
*/
isolatedDynamicScopeRef(scope) ::= "self.<scope>_stack"

/** reference an attribute of rule; might only have single return value */
ruleLabelRef(referencedRule,scope,attr) ::= <<
<if(referencedRule.hasMultipleReturnValues)>
((<scope> is not None) and [<scope>.<attr.name>] or [None])[0]
<else>
<scope>
<endif>
>>

returnAttributeRef(ruleDescriptor,attr) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
retval.<attr.name>
<else>
<attr.name>
<endif>
>>

returnSetAttributeRef(ruleDescriptor,attr,expr) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
retval.<attr.name> = <expr>
<else>
<attr.name> = <expr>
<endif>
>>

/** How to translate $tokenLabel */
tokenLabelRef(label) ::= "<label>"

/** ids+=ID {$ids} or e+=expr {$e} */
listLabelRef(label) ::= "list_<label>"

// not sure the next are the right approach; and they are evaluated early;
// they cannot see TREE_PARSER or PARSER attributes for example. :(

tokenLabelPropertyRef_text(scope,attr) ::= "<scope>.text"
tokenLabelPropertyRef_type(scope,attr) ::= "<scope>.type"
tokenLabelPropertyRef_line(scope,attr) ::= "<scope>.line"
tokenLabelPropertyRef_pos(scope,attr) ::= "<scope>.charPositionInLine"
tokenLabelPropertyRef_channel(scope,attr) ::= "<scope>.channel"
tokenLabelPropertyRef_index(scope,attr) ::= "<scope>.index"
tokenLabelPropertyRef_tree(scope,attr) ::= "<scope>_tree"

```

```

ruleLabelPropertyRef_start(scope,attr) ::= "<scope>.start"
ruleLabelPropertyRef_stop(scope,attr) ::= "<scope>.stop"
ruleLabelPropertyRef_tree(scope,attr) ::= "<scope>.tree"
ruleLabelPropertyRef_text(scope,attr) ::= <<
<if(TREE_PARSER)>
((<scope> is not None) and [self.input.getTokenStream().toString(
    self.input.getTreeAdaptor().getTokenStartIndex(<scope>.start),
    self.input.getTreeAdaptor().getTokenStopIndex(<scope>.start)
    ]) or [None])[0]
<else>
((<scope> is not None) and [self.input.toString(<scope>.start,<scope>.stop)] or [None])[0]
<endif>
>>
ruleLabelPropertyRef_st(scope,attr) ::= "((<scope> is not None) and [<scope>.st] or [None])[0]"

/** Isolated $RULE ref ok in lexer as it's a Token */
lexerRuleLabel(label) ::= "<label>"

lexerRuleLabelPropertyRef_type(scope,attr) ::= "((<scope> is not None) and [<scope>.type] or [0])[0]"
lexerRuleLabelPropertyRef_line(scope,attr) ::= "((<scope> is not None) and [<scope>.line] or [0])[0]"
lexerRuleLabelPropertyRef_pos(scope,attr) ::= "((<scope> is not None) and [<scope>.charPositionInLine] or [0])[0]"
lexerRuleLabelPropertyRef_channel(scope,attr) ::= "((<scope> is not None) and [<scope>.channel] or [0])[0]"
lexerRuleLabelPropertyRef_index(scope,attr) ::= "((<scope> is not None) and [<scope>.index] or [0])[0]"
lexerRuleLabelPropertyRef_text(scope,attr) ::= "((<scope> is not None) and [<scope>.text] or [None])[0]"
lexerRuleLabelPropertyRef_int(scope,attr) ::= "((<scope> is not None) and [int(<scope>.text)] or [0])[0]"

// Somebody may ref $template or $tree or $stop within a rule:
rulePropertyRef_start(scope,attr) ::= "retval.start"
rulePropertyRef_stop(scope,attr) ::= "retval.stop" //mmm... or input.LT(-1)??
rulePropertyRef_tree(scope,attr) ::= "retval.tree"
rulePropertyRef_text(scope,attr) ::= "self.input.toString(retval.start, self.input.LT(-1))"
rulePropertyRef_st(scope,attr) ::= "retval.st"

lexerRulePropertyRef_text(scope,attr) ::= "self.text"
lexerRulePropertyRef_type(scope,attr) ::= "_type"
lexerRulePropertyRef_line(scope,attr) ::= "self._state.tokenStartLine"
lexerRulePropertyRef_pos(scope,attr) ::= "self._state.tokenStartCharPositionInLine"
lexerRulePropertyRef_index(scope,attr) ::= "-1" // undefined token index in lexer
lexerRulePropertyRef_channel(scope,attr) ::= "_channel"
lexerRulePropertyRef_start(scope,attr) ::= "self._state.tokenStartCharIndex"
lexerRulePropertyRef_stop(scope,attr) ::= "(self.getCharIndex()-1)"
lexerRulePropertyRef_int(scope,attr) ::= "int(<scope>.text)"

// setting $st and $tree is allowed in local rule. everything else
// is flagged as error
ruleSetPropertyRef_tree(scope,attr,expr) ::= "retval.tree =<expr>"
ruleSetPropertyRef_st(scope,attr,expr) ::= "retval.st =<expr>"

```

```

/** How to execute an action (only when not backtracking) */
execAction(action) ::= <<
<if(backtracking)>
<if(actions.(actionScope).synpredgate)>
if <actions.(actionScope).synpredgate>:
    <action>

<else>
if <actions.(actionScope).synpredgate>:
    <action>

<endif>
<else>
#action start
<action>
#action end
<endif>
>>

/** How to always execute an action even when backtracking */
execForcedAction(action) ::= "<action>"

```

```
// M I S C (properties, etc...)
```

```
codeFileExtension() ::= ".py"
```

```
true() ::= "True"
false() ::= "False"
```

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

```
* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-
jar/org/antlr/codegen/templates/Python/Python.stg
```

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

```
/*
```

```
[The "BSD license"]
```

```
Copyright (c) 2010 Terence Parr
```

```
All rights reserved.
```

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*/

/*

New style messages. This file only contains the messages in English, but no information about which file, line, or column it occurred in.

The location and message ids are taken out of the formats directory.

Kay Roepke

*/

group en_US;

// TOOL ERRORS

// file errors

CANNOT_WRITE_FILE(arg,exception,stackTrace) ::= <<

cannot write file <arg>: <exception>

<stackTrace; separator="\n">

>>

CANNOT_CLOSE_FILE(arg,exception,stackTrace) ::= "cannot close file <arg>: <exception>"

CANNOT_FIND_TOKENS_FILE(arg) ::= "cannot find tokens file <arg>"

ERROR_READING_TOKENS_FILE(arg,exception,stackTrace) ::= <<

problem reading token vocabulary file <arg>: <exception>

<stackTrace; separator="\n">

>>

DIR_NOT_FOUND(arg,exception,stackTrace) ::= "directory not found: <arg>"

OUTPUT_DIR_IS_FILE(arg,exception,stackTrace) ::= "output directory is a file: <arg>"

CANNOT_OPEN_FILE(arg,exception,stackTrace) ::= "cannot find or open file: <arg><if(exception)>; reason: <exception><endif>"

CIRCULAR_DEPENDENCY() ::= "your grammars contain a circular dependency and cannot be sorted into a valid build order."

INTERNAL_ERROR(arg,arg2,exception,stackTrace) ::= <<

internal error: <arg> <arg2><if(exception)>: <exception><endif>

<stackTrace; separator="\n">

>>

INTERNAL_WARNING(arg) ::= "internal warning: <arg>"

```

ERROR_CREATING_ARTIFICIAL_RULE(arg,exception,stackTrace) ::= <<
problems creating lexer rule listing all tokens: <exception>
<stackTrace; separator="\n">
>>
TOKENS_FILE_SYNTAX_ERROR(arg,arg2) ::=
"problems parsing token vocabulary file <arg> on line <arg2>"
CANNOT_GEN_DOT_FILE(arg,exception,stackTrace) ::=
"cannot write DFA DOT file <arg>: <exception>"
BAD_ACTION_AST_STRUCTURE(exception,stackTrace) ::=
"bad internal tree structure for action '<arg>': <exception>"
BAD_AST_STRUCTURE(arg,exception,stackTrace) ::= <<
bad internal tree structure '<arg>': <exception>
<stackTrace; separator="\n">
>>
FILE_AND_GRAMMAR_NAME_DIFFER(arg,arg2) ::=
"file <arg2> contains grammar <arg>; names must be identical"
FILENAME_EXTENSION_ERROR(arg) ::=
"file <arg> must end in a file extension, normally .g"

// code gen errors
MISSING_CODE_GEN_TEMPLATES(arg) ::=
"cannot find code generation templates <arg>.stg"
MISSING_CYCLIC_DFA_CODE_GEN_TEMPLATES() ::=
"cannot find code generation cyclic DFA templates for language <arg>"
CODE_GEN_TEMPLATES_INCOMPLETE(arg) ::=
"at least one code generation template missing for language <arg>"
CANNOT_CREATE_TARGET_GENERATOR(arg,exception,stackTrace) ::=
"cannot create target <arg> code generator: <exception>"
CANNOT_COMPUTE_SAMPLE_INPUT_SEQ() ::=
"cannot generate a sample input sequence from lookahead DFA"

// grammar interpretation errors
/*
NO_VIABLE_DFA_ALT(arg,arg2) ::=
"no viable transition from state <arg> on <arg2> while interpreting DFA"
*/

// GRAMMAR ERRORS
SYNTAX_ERROR(arg) ::= "syntax error: <arg>"
RULE_REDEFINITION(arg) ::=
"rule <arg> redefinition"
LEXER_RULES_NOT_ALLOWED(arg) ::=
"lexer rule <arg> not allowed in parser"
PARSER_RULES_NOT_ALLOWED(arg) ::=
"parser rule <arg> not allowed in lexer"
CANNOT_FIND_ATTRIBUTE_NAME_IN_DECL(arg) ::=
"cannot find an attribute name in attribute declaration"
NO_TOKEN_DEFINITION(arg) ::=

```


"no lexer rule corresponding to token: <arg>"

UNDEFINED_RULE_REF(arg) ::=

"reference to undefined rule: <arg>"

LITERAL_NOT_ASSOCIATED_WITH_LEXER_RULE(arg) ::=

"literal has no associated lexer rule: <arg>"

CANNOT_ALIAS_TOKENS_IN_LEXER(arg) ::=

"literals are illegal in lexer tokens{ } section: <arg>"

ATTRIBUTE_REF_NOT_IN_RULE(arg,arg2) ::=

"reference to attribute outside of a rule: <arg><if(arg2)>.<arg2><endif>"

UNKNOWN_ATTRIBUTE_IN_SCOPE(arg,arg2) ::=

"unknown attribute for <arg>: <arg2>"

UNKNOWN_RULE_ATTRIBUTE(arg,arg2) ::=

"unknown attribute for rule <arg>: <arg2>"

UNKNOWN_SIMPLE_ATTRIBUTE(arg,args2) ::=

"attribute is not a token, parameter, or return value: <arg>"

ISOLATED_RULE_SCOPE(arg) ::=

"missing attribute access on rule scope: <arg>"

INVALID_RULE_PARAMETER_REF(arg,arg2) ::=

"cannot access rule <arg>'s parameter: <arg2>"

INVALID_RULE_SCOPE_ATTRIBUTE_REF(arg,arg2) ::=

"cannot access rule <arg>'s dynamically-scoped attribute: <arg2>"

SYMBOL_CONFLICTS_WITH_GLOBAL_SCOPE(arg) ::=

"symbol <arg> conflicts with global dynamic scope with same name"

WRITE_TO_READONLY_ATTR(arg,arg2,arg3) ::=

"cannot write to read only attribute: \$<arg><if(arg2)>.<arg2><endif>"

LABEL_CONFLICTS_WITH_RULE(arg) ::=

"label <arg> conflicts with rule with same name"

LABEL_CONFLICTS_WITH_TOKEN(arg) ::=

"label <arg> conflicts with token with same name"

LABEL_CONFLICTS_WITH_RULE_SCOPE_ATTRIBUTE(arg,arg2) ::=

"label <arg> conflicts with rule <arg2>'s dynamically-scoped attribute with same name"

LABEL_CONFLICTS_WITH_RULE_ARG_RETVAL(arg,arg2) ::=

"label <arg> conflicts with rule <arg2>'s return value or parameter with same name"

ATTRIBUTE_CONFLICTS_WITH_RULE(arg,arg2) ::=

"rule <arg2>'s dynamically-scoped attribute <arg> conflicts with the rule name"

ATTRIBUTE_CONFLICTS_WITH_RULE_ARG_RETVAL(arg,arg2) ::=

"rule <arg2>'s dynamically-scoped attribute <arg> conflicts with <arg2>'s return value or parameter with same name"

LABEL_TYPE_CONFLICT(arg,arg2) ::=

"label <arg> type mismatch with previous definition: <arg2>"

ARG_RETVAL_CONFLICT(arg,arg2) ::=

"rule <arg2>'s argument <arg> conflicts a return value with same name"

NONUNIQUE_REF(arg) ::=

"<arg> is a non-unique reference"

FORWARD_ELEMENT_REF(arg) ::=

"illegal forward reference: <arg>"

MISSING_RULE_ARGS(arg) ::=

"missing parameter(s) on rule reference: <arg>"

```

RULE_HAS_NO_ARGS(arg) ::=
    "rule <arg> has no defined parameters"
ARGS_ON_TOKEN_REF(arg) ::=
    "token reference <arg> may not have parameters"
/*
NONCHAR_RANGE() ::=
    "range operator can only be used in the lexer"
*/
ILLEGAL_OPTION(arg) ::=
    "illegal option <arg>"
LIST_LABEL_INVALID_UNLESS_RETVAL_STRUCT(arg) ::=
    "rule '+' list labels are not allowed w/o output option: <arg>"
UNDEFINED_TOKEN_REF_IN_REWRITE(arg) ::=
    "reference to undefined token in rewrite rule: <arg>"
REWRITE_ELEMENT_NOT_PRESENT_ON_LHS(arg) ::=
    "reference to rewrite element <arg> without reference on left of ->"
UNDEFINED_LABEL_REF_IN_REWRITE(arg) ::=
    "reference to undefined label in rewrite rule: $<arg>"
NO_GRAMMAR_START_RULE (arg) ::=
    "grammar <arg>: no start rule (no rule can obviously be followed by EOF)"
EMPTY_COMPLEMENT(arg) ::= <<
    <if(arg)>
    set complement ~<arg> is empty
    <else>
    set complement is empty
    <endif>
    >>
UNKNOWN_DYNAMIC_SCOPE(arg) ::=
    "unknown dynamic scope: <arg>"
UNKNOWN_DYNAMIC_SCOPE_ATTRIBUTE(arg,arg2) ::=
    "unknown dynamically-scoped attribute for scope <arg>: <arg2>"
RULE_REF_AMBIG_WITH_RULE_IN_ALT(arg) ::=
    "reference $<arg> is ambiguous; rule <arg> is enclosing rule and referenced in the production (assuming enclosing rule)"
ISOLATED_RULE_ATTRIBUTE(arg) ::=
    "reference to locally-defined rule scope attribute without rule name: <arg>"
INVALID_ACTION_SCOPE(arg,arg2) ::=
    "unknown or invalid action scope for <arg2> grammar: <arg>"
ACTION_REDEFINITION(arg) ::=
    "redefinition of <arg> action"
DOUBLE_QUOTES_ILLEGAL(arg) ::=
    "string literals must use single quotes (such as '\begin\'): <arg>"
INVALID_TEMPLATE_ACTION(arg) ::=
    "invalid StringTemplate % shorthand syntax: '<arg>'"
MISSING_ATTRIBUTE_NAME() ::=
    "missing attribute name on $ reference"
ARG_INIT_VALUES_ILLEGAL(arg) ::=
    "rule parameters may not have init values: <arg>"

```

```

REWRITE_OR_OP_WITH_NO_OUTPUT_OPTION(arg) ::=
  "<if(arg)>rule <arg> uses <endif>rewrite syntax or operator with no output option; setting output=AST"
AST_OP_WITH_NON_AST_OUTPUT_OPTION(arg) ::=
  "AST operator with non-AST output option: <arg>"
NO_RULES(arg) ::= "grammar file <arg> has no rules"
MISSING_AST_TYPE_IN_TREE_GRAMMAR(arg) ::=
  "tree grammar <arg> has no ASTLabelType option"
REWRITE_FOR_MULTI_ELEMENT_ALT(arg) ::=
  "with rewrite=true, alt <arg> not simple node or obvious tree element; text attribute for rule not guaranteed to be
correct"
RULE_INVALID_SET(arg) ::=
  "Cannot complement rule <arg>; not a simple set or element"
HETERO_ILLEGAL_IN_REWRITE_ALT(arg) ::=
  "alts with rewrites can't use heterogeneous types left of ->"
NO_SUCH_GRAMMAR_SCOPE(arg,arg2) ::=
  "reference to undefined grammar in rule reference: <arg>.<arg2>"
NO_SUCH_RULE_IN_SCOPE(arg,arg2) ::=
  "rule <arg2> is not defined in grammar <arg>"
TOKEN_ALIAS_CONFLICT(arg,arg2) ::=
  "cannot alias <arg>; string already assigned to <arg2>"
TOKEN_ALIAS_REASSIGNMENT(arg,arg2) ::=
  "cannot alias <arg>; token name already assigned to <arg2>"
TOKEN_VOCAB_IN_DELEGATE(arg,arg2) ::=
  "tokenVocab option ignored in imported grammar <arg>"
INVALID_IMPORT(arg,arg2) ::=
  "<arg.grammarTypeString> grammar <arg.name> cannot import <arg2.grammarTypeString> grammar
<arg2.name>"
IMPORTED_TOKENS_RULE_EMPTY(arg,arg2) ::=
  "no lexer rules contributed to <arg> from imported grammar <arg2>"
IMPORT_NAME_CLASH(arg,arg2) ::=
  "combined grammar <arg.name> and imported <arg2.grammarTypeString> grammar <arg2.name> both generate
<arg2.recognizerName>; import ignored"
AST_OP_IN_ALT_WITH_REWRITE(arg,arg2) ::=
  "rule <arg> alt <arg2> uses rewrite syntax and also an AST operator"
WILDCARD_AS_ROOT(arg) ::= "Wildcard invalid as root; wildcard can itself be a tree"
CONFLICTING_OPTION_IN_TREE_FILTER(arg,arg2) ::= "option <arg>=<arg2> conflicts with tree grammar
filter mode"

```

```
// GRAMMAR WARNINGS
```

```

GRAMMAR_NONDETERMINISM(input,conflictingAlts,paths,disabled,hasPredicateBlockedByAction) ::=
<<
<if(paths)>
Decision can match input such as "<input>" using multiple alternatives:
<paths:{ alt <it.alt> via NFA path <it.states>; separator=","><n}>
<else>
Decision can match input such as "<input>" using multiple alternatives: <conflictingAlts>; separator="," >
<endif>

```

<if(disabled)><\n>As a result, alternative(s) <disabled; separator=","> were disabled for that input<endif><if(hasPredicateBlockedByAction)><\n>Semantic predicates were present but were hidden by actions.<endif>
>>

DANGLING_STATE(danglingAlts,input) ::= <<
the decision cannot distinguish between alternative(s) <danglingAlts; separator=","> for input such as "<input>"
>>

UNREACHABLE_ALTS(alts) ::= <<
The following alternatives can never be matched: <alts; separator=","><\n>
>>

INSUFFICIENT_PREDICATES(upon,altToLocations,hasPredicateBlockedByAction) ::= <<
Input such as "<upon>" is insufficiently covered with predicates at locations: <altToLocations.keys:{alt|alt <alt>:
<altToLocations.(alt){loc| line <loc.line>:<loc.column> at <loc.text>}; separator=",">; separator=",">
>><if(hasPredicateBlockedByAction)><\n>Semantic predicates were present but were hidden by actions.<endif>
>>

DUPLICATE_SET_ENTRY(arg) ::=
"duplicate token type <arg> when collapsing subrule into set"

ANALYSIS_ABORTED(enclosingRule) ::= <<
ANTLR could not analyze this decision in rule <enclosingRule>; often this is because of recursive rule references visible from the left edge of alternatives. ANTLR will re-analyze the decision with a fixed lookahead of k=1. Consider using "options {k=1;}" for that decision and possibly adding a syntactic predicate.
>>

RECURSION_OVERFLOW(alt,input,targetRules,callSiteStates) ::= <<
Alternative <alt>: after matching input such as <input> decision cannot predict what comes next due to recursion overflow <targetRules,callSiteStates:{t,c|to <t> from <c:{s|<s.enclosingRule.name>};separator=",">; separator=","> and ">
>>

LEFT_RECURSION(targetRules,alt,callSiteStates) ::= <<
Alternative <alt> discovers infinite left-recursion <targetRules,callSiteStates:{t,c|to <t> from <c:{s|<s.enclosingRule>};separator=",">; separator=","> and ">
>>

UNREACHABLE_TOKENS(tokens) ::= <<
The following token definitions can never be matched because prior tokens match the same input: <tokens; separator=",">
>>

TOKEN_NONDETERMINISM(input,conflictingTokens,paths,disabled,hasPredicateBlockedByAction) ::= <<
<if(paths)>
Decision can match input such as "<input>" using multiple alternatives:

```

<paths:{ alt <it.alt> via NFA path <it.states; separator=","><\n}>
<else>
Multiple token rules can match input such as "<input>": <conflictingTokens; separator=","><\n>
<endif>
<if(disabled)><\n>As a result, token(s) <disabled; separator=","> were disabled for that
input<endif><if(hasPredicateBlockedByAction)><\n>Semantic predicates were present but were hidden by
actions.<endif>
>>

```

```

LEFT_RECURSION_CYCLES(listOfCycles) ::= <<
The following sets of rules are mutually left-recursive <listOfCycles:{c| [<c:{r|<r.name>}]; separator=",">];
separator=" and ">
>>

```

```

NONREGULAR_DECISION(ruleName,alts) ::= <<
[fatal] rule <ruleName> has non-LL(*) decision due to recursive rule invocations reachable from alts <alts;
separator=",">. Resolve by left-factoring or using syntactic predicates or using backtrack=true option.
>>

```

```

/* 110n for message levels */
warning() ::= "warning"
error() ::= "error"

```

```

Found in path(s):
* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-
jar/org/antlr/tool/templates/messages/languages/en.stg
No license file was found, but licenses were detected in source scan.

```

```

/*
[The "BSD licence"]
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```

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*/

```
group Perl5 implements ANTLRCore;
```

```
/** The overall file structure of a recognizer; stores methods for rules  
 * and cyclic DFAs plus support code.
```

```
*/
```

```
outputFile(LEXER,PARSER,TREE_PARSER, actionScope, actions,  
           docComment, recognizer,  
           name, tokens, tokenNames, rules, cyclicDFAs,  
           bitsets, buildTemplate, buildAST, rewriteMode, profile,  
           backtracking, synpreds, memoize, numRules,  
           fileName, ANTLRVersion, generatedTimestamp, trace,  
           scopes, superClass, literals) ::=
```

```
<<
```

```
# $ANTLR <ANTLRVersion> <fileName> <generatedTimestamp>
```

```
<actions.(actionScope).header>
```

```
<@imports>
```

```
<if(TREE_PARSER)>
```

```
<endif>
```

```
<if(backtracking)>
```

```
<endif>
```

```
<@end>
```

```
<docComment>
```

```
<recognizer>
```

```
>>
```

```
lexer(grammar, name, tokens, scopes, rules, numRules, labelType="Token",
```

```
      filterMode, superClass="ANTLR::Runtime::Lexer") ::= <<
```

```
package <name>;
```

```
use Carp;
```

```
use English qw( -no_match_vars );
```

```
use Readonly;
```

```
use Switch;
```

```
use ANTLR::Runtime::BaseRecognizer;
```

```
use ANTLR::Runtime::DFA;
```

```
use ANTLR::Runtime::NoViableAltException;
```

```

use Moose;

extends 'ANTLR::Runtime::Lexer';

Readonly my $HIDDEN => ANTLR::Runtime::BaseRecognizer->HIDDEN;
sub HIDDEN { $HIDDEN }

use constant {
    <tokens:{ <it.name> => <it.type>, }; separator="\n">
};
<scopes:{<if(it.isDynamicGlobalScope)><globalAttributeScope(scope=it)><endif>}>
<actions.lexer.members>

sub BUILD {
    my ($self, $arg_ref) = @_ ;

    $self->init_dfas();
}

sub get_grammar_file_name {
    return "<fileName>";
}

<if(filterMode)>
<filteringNextToken()>
<endif>
<rules; separator="\n\n">

<synpreds:{p | <lexerSynpred(p)>}>

<cyclicDFAs:{ dfa | has 'dfa<dfa.decisionNumber>'; }; separator="\n">

sub init_dfas {
    my ($self) = @_ ;

    <cyclicDFAs:{ dfa |
        $self->dfa<dfa.decisionNumber>(<name::DFA<dfa.decisionNumber>->new({ recognizer => $self }));
        }; separator="\n">

    return;
}

<cyclicDFAs:cyclicDFA()> <! dump tables for all DFA !>

no Moose;
__PACKAGE__->meta->make_immutable();
1;

```

>>

```
perlTypeInitMap ::= [  
    "$":"undef",  
    "@":"()",  
    "%":"()",  
    default:"undef"  
]
```

```
/** A override of Lexer.nextToken() that backtracks over mTokens() looking  
 * for matches. No error can be generated upon error; just rewind, consume  
 * a token and then try again. backtracking needs to be set as well.  
 * Make rule memoization happen only at levels above 1 as we start mTokens  
 * at backtracking==1.  
 */
```

```
*/
```

```
filteringNextToken() ::= <<
```

```
public Token nextToken() {
```

```
    while (true) {
```

```
        if ( input.LA(1)==CharStream.EOF ) {
```

```
            return Token.EOF_TOKEN;
```

```
        }
```

```
        token = null;
```

```
channel = Token.DEFAULT_CHANNEL;
```

```
tokenStartCharIndex = input.index();
```

```
tokenStartCharPositionInLine = input.getCharPositionInLine();
```

```
tokenStartLine = input.getLine();
```

```
text = null;
```

```
    try {
```

```
        int m = input.mark();
```

```
        backtracking=1; <!-- means we won't throw slow exception !>
```

```
        failed=false;
```

```
        mTokens();
```

```
        backtracking=0;
```

```
        <!-- mTokens backtracks with synpred at backtracking==2
```

```
         and we set the synpredgate to allow actions at level 1. !>
```

```
        if ( failed ) {
```

```
            input.rewind(m);
```

```
            input.consume(); <!-- advance one char and try again !>
```

```
        }
```

```
        else {
```

```
            emit();
```

```
            return token;
```

```
        }
```

```
    }
```

```
    catch (RecognitionException re) {
```

```
        // shouldn't happen in backtracking mode, but...
```

```
        reportError(re);
```



```

        recover(re);
    }
}

public void memoize(IntStream input,
    int ruleIndex,
    int ruleStartIndex)
{
    if ( backtracking>1 ) super.memoize(input, ruleIndex, ruleStartIndex);
}

public boolean alreadyParsedRule(IntStream input, int ruleIndex) {
    if ( backtracking>1 ) return super.alreadyParsedRule(input, ruleIndex);
    return false;
}
>>

actionGate() ::= "$self->state->backtracking==0"

filteringActionGate() ::= "backtracking==1"

/** How to generate a parser */
genericParser(grammar, name, scopes, tokens, tokenNames, rules, numRules,
    bitsets, inputStreamType, superClass, filterMode,
    ASTLabelType="Object", labelType, members) ::= <<
package <name>;

use English qw( -no_match_vars );
use Readonly;
use Switch;
use Carp;
use ANTLR::Runtime::BitSet;

use Moose;

extends '<@superClassName><superClass><@end>';

Readonly my $token_names => [
    "\<invalid>", "\<EOR>", "\<DOWN>", "\<UP>", <tokenNames; separator=", ">
];

use constant {
    <tokens:{ <it.name> => <it.type>, }; separator="\n">
};

<bitsets:bitset(name={FOLLOW_<it.name>_in_<it.inName><it.tokenIndex>},
    words64=it.bits)>

```

```

<scopes:{<if(it.isDynamicGlobalScope)><globalAttributeScope(scope=it)><endif>}>
<@members>
<! WARNING. bug in ST: this is cut-n-paste into Dbg.stg !>

sub BUILD {
    my ($self, $arg_ref) = @_ ;

<if(backtracking)>
    $self->state->rule_memo({});<\n>
<endif>
}
<@end>

sub get_token_names {
    return $token_names;
}

sub get_grammar_file_name {
    return "<fileName>";
}

<members>

<rules; separator="\n\n">

<synpreds:{p | <synpred(p)>}>

<cyclicDFAs:{ dfa | dfa<dfa.decisionNumber> = __PACKAGE__::DFA<dfa.decisionNumber>->new($self);};
separator="\n">
<cyclicDFAs:cyclicDFA()> <! dump tables for all DFA !>

no Moose;
__PACKAGE__->meta->make_immutable();
1;
__END__
>>

parser(grammar, name, scopes, tokens, tokenNames, rules, numRules, bitsets, ASTLabelType,
superClass="ANTLR::Runtime::Parser", labelType="ANTLR::Runtime::Token",
members={<actions.parser.members>}) ::= <<
<genericParser(inputStreamType="ANTLR::Runtime::TokenStream", ...)>
>>

/** How to generate a tree parser; same as parser except the input
 * stream is a different type.
 */
treeParser(grammar, name, scopes, tokens, tokenNames, globalAction, rules, numRules, bitsets,

```

```

labelType={<ASTLabelType>}, ASTLabelType="Object", superClass="ANTLR::Runtime::TreeParser",
members={<actions.treeparser.members>}, filterMode) ::= <<
<genericParser(inputStreamType="TreeNodeStream", ...)>
>>

```

```

/** A simpler version of a rule template that is specific to the imaginary
 * rules created for syntactic predicates. As they never have return values
 * nor parameters etc..., just give simplest possible method. Don't do
 * any of the normal memoization stuff in here either; it's a waste.
 * As predicates cannot be inlined into the invoking rule, they need to
 * be in a rule by themselves.
 */
synpredRule(ruleName, ruleDescriptor, block, description, nakedBlock) ::=
<<
# $ANTLR start <ruleName>
sub <ruleName>_fragment {
# <ruleDescriptor.parameterScope:parameterScope(scope=it)>

<if(trace)>
  $self->traceIn("<ruleName>_fragment", <ruleDescriptor.index>);
  eval {
    <block>
  };
  $self->traceOut("<ruleName>_fragment", <ruleDescriptor.index>);
  if ($EVAL_ERROR) {
    croak $EVAL_ERROR;
  }
<else>
  <block>
<endif>
}
# $ANTLR end <ruleName>
>>

```

```

synpred(name) ::= <<
public final boolean <name>() {
  backtracking++;
  <@start()>
  int start = input.mark();
  try {
    <name>_fragment(); // can never throw exception
  } catch (RecognitionException re) {
    System.err.println("impossible: "+re);
  }
  boolean success = !failed;
  input.rewind(start);
  <@stop()>
  backtracking--;

```

```

    failed=false;
    return success;
}<\n>
>>

lexerSynpred(name) ::= <<
<synpred(name)>
>>

ruleMemoization(name) ::= <<
<if(memoize)>
if ( backtracking>0 && alreadyParsedRule(input, <ruleDescriptor.index>) ) { return <ruleReturnValue()>; }
<endif>
>>

/** How to test for failure and return from rule */
checkRuleBacktrackFailure() ::= <<
<if(backtracking)>
if ($self->state->failed) {
    return <ruleReturnValue()>;
}
<endif>
>>

/** This rule has failed, exit indicating failure during backtrack */
ruleBacktrackFailure() ::= <<
<if(backtracking)>if (backtracking>0) { failed=true; return <ruleReturnValue()>;}<endif>
>>

/** How to generate code for a rule. This includes any return type
 * data aggregates required for multiple return values.
 */
rule(ruleName,ruleDescriptor,block,emptyRule,description,exceptions,finally,memoize) ::= <<
<ruleAttributeScope(scope=ruleDescriptor.ruleScope)>
<returnScope(scope=ruleDescriptor.returnScope)>

# $ANTLR start <ruleName>
# <fileName>:<description>
sub <ruleName>() {
    my ($self, <ruleDescriptor.parameterScope:parameterScope(scope=it)>) = @_ ;
    <if(trace)>$self->traceIn("<ruleName>", <ruleDescriptor.index>);<endif>
    <ruleScopeSetUp()>
    <ruleDeclarations()>
    <ruleLabelDefs()>
    <ruleDescriptor.actions.init>
    <@preamble()>
    eval {
        <ruleMemoization(name=ruleName)>

```

```

    <block>
    <ruleCleanup()>
    <(ruleDescriptor.actions.after):execAction()>
    };
<if(exceptions)>
    <exceptions:{e|<catch(decl=e.decl,action=e.action)><\n>}>
<else>
<if(!emptyRule)>
<if(actions.(actionScope).rulecatch)>
    <actions.(actionScope).rulecatch>
<else>
    my $exception = $EVAL_ERROR;
    if (ref $exception && $exception->isa('ANTLR::Runtime::RecognitionException')) {
        $self->report_error($exception);
        $self->recover($self->input, $exception);
        $exception = undef;
    }<\n>
<endif>
<endif>
<endif>
    <if(trace)>$self->traceOut("<ruleName>", <ruleDescriptor.index>);<endif>
    <memoize()>
    <ruleScopeCleanup()>
    <finally>
    if ($exception) {
        croak $exception;
        # $exception->rethrow();
    }
    <@postamble()>
    return <ruleReturnValue()>;
}
# $ANTLR end <ruleName>
>>

catch(decl,action) ::= <<
catch (<e.decl>) {
    <e.action>
}
>>

ruleDeclarations() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
my $retval = <returnType()>->new();
$retval->set_start($self->input->LT(1));<\n>
<else>
<ruleDescriptor.returnScope.attributes: { a |
my $<a.name> = <if(a.initValue)><a.initValue><else><initValue(a.type)><endif>;
}>

```

```

<endif>
<if(memoize)>
my $<ruleDescriptor.name>_start_index = $self->input->index();
<endif>
>>

ruleScopeSetUp() ::= <<
<ruleDescriptor.useScopes:{<it>_stack.push(new <it>_scope());}; separator="\n">
<ruleDescriptor.ruleScope:{<it.name>_stack.push(new <it.name>_scope());}; separator="\n">
>>

ruleScopeCleanUp() ::= <<
<ruleDescriptor.useScopes:{<it>_stack.pop();}; separator="\n">
<ruleDescriptor.ruleScope:{<it.name>_stack.pop();}; separator="\n">
>>

ruleLabelDefs() ::= <<
<[ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels]
: {my $<it.label.text> = undef;}; separator="\n"
>
<[ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels]
: {List list_<it.label.text>=null;}; separator="\n"
>
<ruleDescriptor.ruleLabels:ruleLabelDef(label=it); separator="\n">
<ruleDescriptor.ruleListLabels:{ll|RuleReturnScope <ll.label.text> = null;}; separator="\n">
>>

lexerRuleLabelDefs() ::= <<
<[ruleDescriptor.tokenLabels,
ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleLabels]
: {<labelType> <it.label.text>=null;}; separator="\n"
>
<ruleDescriptor.charLabels:{my $<it.label.text>;}; separator="\n">
<[ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleListLabels,
ruleDescriptor.ruleListLabels]
: {List list_<it.label.text>=null;}; separator="\n"
>
>>

ruleReturnValue() ::= <<
<if(!ruleDescriptor.isSynPred)>
<if(ruleDescriptor.hasReturnValue)>
<if(ruleDescriptor.hasSingleReturnValue)>
$<ruleDescriptor.singleValueReturnName>
<else>
$retval

```

```

<endif>
<endif>
<endif>
>>

ruleCleanup() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<if(!TREE_PARSER)>
$retval->set_stop($self->input->LT(-1));<\n>
<endif>
<endif>
>>

memoize() ::= <<
<if(memoize)>
<if(backtracking)>
if ( backtracking>0 ) { memoize(input, <ruleDescriptor.index>, <ruleDescriptor.name>_startIndex); }
<endif>
<endif>
>>

/** How to generate a rule in the lexer; naked blocks are used for
 * fragment rules.
 */
lexerRule(ruleName,nakedBlock,ruleDescriptor,block,memoize) ::= <<
# $ANTLR start <ruleName>
sub m_<ruleName> {
# <ruleDescriptor.parameterScope:parameterScope(scope=it)>
my ($self) = @_ ;
<if(trace)>traceIn("<ruleName>", <ruleDescriptor.index>);<endif>
<ruleDeclarations()>
eval {
<if(nakedBlock)>
<ruleMemoization(name=ruleName)>
<lexerRuleLabelDefs()>
<ruleDescriptor.actions.init>
<block><\n>
<else>
my $_type = <ruleName>;
my $_channel = $self->DEFAULT_TOKEN_CHANNEL;
<ruleMemoization(name=ruleName)>
<lexerRuleLabelDefs()>
<ruleDescriptor.actions.init>
<block>
<ruleCleanup()>
$self->state->type($_type);
$self->state->channel($_channel);
<(ruleDescriptor.actions.after):execAction()>

```

```

<endif>
};
<if(trace)>traceOut("<ruleName>", <ruleDescriptor.index>);<endif>
<memoize()>

if ($EVAL_ERROR) {
    croak $EVAL_ERROR;
}
}
# $ANTLR end <ruleName>
>>

/** How to generate code for the implicitly-defined lexer grammar rule
 * that chooses between lexer rules.
 */
tokensRule(ruleName,nakedBlock,args,block,ruleDescriptor) ::= <<
sub m_tokens {
    my ($self) = @_ ;
    <block><\n>
}
>>

// S U B R U L E S

/** A (...) subrule with multiple alternatives */
block(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
# <fileName>:<description>
my $alt<decisionNumber> = <maxAlt>;
<decls>
<@predecision()>
<decision>
<@postdecision()>
<@prebranch()>
switch ($alt<decisionNumber>) {
    <alts:altSwitchCase()>
}
<@postbranch()>
>>

/** A rule block with multiple alternatives */
ruleBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
# <fileName>:<description>
my $alt<decisionNumber> = <maxAlt>;
<decls>
<@predecision()>
<decision>
<@postdecision()>
switch ($alt<decisionNumber>) {

```



```

    <alts:altSwitchCase()>
  }
>>

ruleBlockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
# <fileName>:<description>
<decls>
<@prealt()>
<alts>
<@postalt()>
>>

/** A special case of a (...) subrule with a single alternative */
blockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
# <fileName>:<description>
<decls>
<@prealt()>
<alts>
<@postalt()>
>>

/** A (..)+ block with 1 or more alternatives */
positiveClosureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
# <fileName>:<description>
my $cnt<decisionNumber> = 0;
<decls>
<@preloop()>
LOOP<decisionNumber>:
while (1) {
  my $alt<decisionNumber> = <maxAlt>;
  <@predecision()>
  <decision>
  <@postdecision()>
  switch ($alt<decisionNumber>) {
    <alts:altSwitchCase()>
  else {
    if ( $cnt<decisionNumber> >= 1 ) { last LOOP<decisionNumber> }
    <ruleBacktrackFailure()>
    my $see =
      ANTLR::Runtime::EarlyExitException->new(<decisionNumber>, $self->input);
    <@earlyExitException()>
    croak $see;
  }
}
++$cnt<decisionNumber>;
}
<@postloop()>

```

>>

positiveClosureBlockSingleAlt ::= positiveClosureBlock

/** A (..)* block with 1 or more alternatives */

closureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::=

<<

<fileName>:<description>

<decls>

<@preloop()>

LOOP<decisionNumber>:

while (1) {

 my \$alt<decisionNumber> = <maxAlt>;

 <@predecision()>

 <decision>

 <@postdecision()>

 switch (\$alt<decisionNumber>) {

 <alts:altSwitchCase()>

 else { last LOOP<decisionNumber> }

 }

}

<@postloop()>

>>

closureBlockSingleAlt ::= closureBlock

/** Optional blocks (x)? are translated to (x|) by before code generation

* so we can just use the normal block template

*/

optionalBlock ::= block

optionalBlockSingleAlt ::= block

/** A case in a switch that jumps to an alternative given the alternative

* number. A DFA predicts the alternative and then a simple switch

* does the jump to the code that actually matches that alternative.

*/

altSwitchCase() ::= <<

case <i> {

 <@prealt()>

 <it>

}<\n>

>>

/** An alternative is just a list of elements; at outermost level */

alt(elements,altNum,description,autoAST,outerAlt,treeLevel,rew) ::= <<

<fileName>:<description>

{

```

<@declarations(>
<elements:element(>
<rew>
<@cleanup(>
}
>>

/** What to emit when there is no rewrite. For auto build
 * mode, does nothing.
 */
noRewrite(rewriteBlockLevel, treeLevel) ::= ""

// E L E M E N T S

/** Dump the elements one per line */
element() ::= <<
<@prematch(>
<it.el><\n>
>>

/** match a token optionally with a label in front */
tokenRef(token,label,elementIndex,hetero) ::= <<
<if(label)>$<label> =<endif>$self->match($self->input, <token>,
$FOLLOW_<token>_in_<ruleName><elementIndex>);
<checkRuleBacktrackFailure(>
>>

/** ids+=ID */
tokenRefAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRef(...)>
<listLabel(elem=label,...)>
>>

listLabel(label,elem) ::= <<
if (list_<label>==null) list_<label>=new ArrayList();
list_<label>.add(<elem>);<\n>
>>

/** match a character */
charRef(char,label) ::= <<
<if(label)>
<label> = $self->input->LA(1);<\n>
<endif>
$self->match(<char>); <checkRuleBacktrackFailure(>
>>

/** match a character range */
charRangeRef(a,b,label) ::= <<

```

```

<if(label)>
<label> = $self->input->LA(1);<\n>
<endif>
$self->match_range(<a>,<b>); <checkRuleBacktrackFailure()>
>>

/** For now, sets are interval tests and must be tested inline */
matchSet(s,label,elementIndex,postmatchCode="") ::= <<
<if(label)>
<if(LEXER)>
<label>= $self->input->LA(1);<\n>
<else>
<label>=(<labelType>)input.LT(1);<\n>
<endif>
<endif>
if ( <s> ) {
    $self->input->consume();
    <postmatchCode>
<if(!LEXER)>
    $self->state->error_recovery(0);
<endif>
    <if(backtracking)>failed=false;<endif>
}
else {
    <ruleBacktrackFailure()>
    my $mse =
        ANTLR::Runtime::MismatchedSetException->new(undef, $self->input);
    <@mismatchedSetException()>
<if(LEXER)>
    $self->recover($mse);
    $mse->throw();
<else>
    $mse->throw();
    <! use following code to make it recover inline; remove throw mse;
    $self->recoverFromMismatchedSet($self->input, $mse, $FOLLOW_set_in_<ruleName><elementIndex>);
    !>
<endif>
}<\n>
>>

matchRuleBlockSet ::= matchSet

matchSetAndListLabel(s,label,elementIndex,postmatchCode) ::= <<
<matchSet(...)>
<listLabel(elem=label,...)>
>>

/** Match a string literal */

```

```
lexerStringRef(string,label,elementIndex) ::= <<
<if(label)>
int <label>Start = getCharIndex();
$self->match(<string>); <checkRuleBacktrackFailure()>
<labelType> <label> = new CommonToken(input, Token.INVALID_TOKEN_TYPE,
Token.DEFAULT_CHANNEL, <label>Start, getCharIndex()-1);
<else>
$self->match(<string>); <checkRuleBacktrackFailure()><\n>
<endif>
>>
```

```
wildcard(label,elementIndex) ::= <<
<if(label)>
<label>=(<labelType>)input.LT(1);<\n>
<endif>
matchAny(input); <checkRuleBacktrackFailure()>
>>
```

```
wildcardAndListLabel(label,elementIndex) ::= <<
<wildcard(...)>
<listLabel(elem=label,...)>
>>
```

```
/** Match . wildcard in lexer */
wildcardChar(label, elementIndex) ::= <<
<if(label)>
<label> = $self->input->LA(1);<\n>
<endif>
matchAny(); <checkRuleBacktrackFailure()>
>>
```

```
wildcardCharListLabel(label, elementIndex) ::= <<
<wildcardChar(...)>
<listLabel(elem=label,...)>
>>
```

```
/** Match a rule reference by invoking it possibly with arguments
 * and a return value or values.
 */
```

```
ruleRef(rule,label,elementIndex,args,scope) ::= <<
$self->push_follow($FOLLOW_<rule.name>_in_<ruleName><elementIndex>);
<if(label)>
$<label> = $self-><rule.name>(<args; separator=", ">);<\n>
<else>
$self-><rule.name>(<args; separator=", ">);<\n>
<endif>
$self->state->_fsp($self->state->_fsp - 1);
<checkRuleBacktrackFailure()>
```

```

>>

/** ids+=r */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>
<listLabel(elem=label,...)>
>>

/** A lexer rule reference.
 *
 * The 'rule' argument was the target rule name, but now
 * is type Rule, whose toString is same: the rule name.
 * Now though you can access full rule descriptor stuff.
 */
lexerRuleRef(rule,label,args,elementIndex,scope) ::= <<
<if(label)>
int <label>Start<elementIndex> = getCharIndex();
$self->m_<rule>(<args; separator=", ">; <checkRuleBacktrackFailure()>
<label> = new CommonToken(input, Token.INVALID_TOKEN_TYPE, Token.DEFAULT_CHANNEL,
<label>Start<elementIndex>, getCharIndex()-1);
<else>
$self->m_<rule.name>(<args; separator=", ">; <checkRuleBacktrackFailure()>
<endif>
>>

/** i+=INT in lexer */
lexerRuleRefAndListLabel(rule,label,args,elementIndex,scope) ::= <<
<lexerRuleRef(...)>
<listLabel(elem=label,...)>
>>

/** EOF in the lexer */
lexerMatchEOF(label,elementIndex) ::= <<
<if(label)>
int <label>Start<elementIndex> = getCharIndex();
match(EOF); <checkRuleBacktrackFailure()>
<labelType> <label> = new CommonToken(input, EOF, Token.DEFAULT_CHANNEL,
<label>Start<elementIndex>, getCharIndex()-1);
<else>
match(EOF); <checkRuleBacktrackFailure()>
<endif>
>>

/** match ^(root children) in tree parser */
tree(root, actionsAfterRoot, children, nullableChildList,
enclosingTreeLevel, treeLevel) ::= <<
<root:element()>
<actionsAfterRoot:element()>

```

```

<if(nullableChildList)>
if ( input.LA(1)==Token.DOWN ) {
    match(input, Token.DOWN, null); <checkRuleBacktrackFailure()>
    <children:element()>
    match(input, Token.UP, null); <checkRuleBacktrackFailure()>
}
<else>
match(input, Token.DOWN, null); <checkRuleBacktrackFailure()>
<children:element()>
match(input, Token.UP, null); <checkRuleBacktrackFailure()>
<endif>
>>

/** Every predicate is used as a validating predicate (even when it is
 * also hoisted into a prediction expression).
 */
validateSemanticPredicate(pred,description) ::= <<
if ( !(<evalPredicate(...)> ) ) {
    <ruleBacktrackFailure()>
    throw new FailedPredicateException(input, "<ruleName>", "<description>");
}
>>

// F i x e d D F A (if-then-else)

dfaState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
my $LA<decisionNumber>_<stateNumber> = $self->input->LA(<k>);<\n>
<edges; separator="\nls">
else {
<if(eotPredictsAlt)>
    $alt<decisionNumber> = <eotPredictsAlt>;
<else>
    <ruleBacktrackFailure()>
    my $nvae =
        ANTLR::Runtime::NoViableAltException->new({
            grammar_decision_description => "<description>",
            decision_number => <decisionNumber>,
            state_number => <stateNumber>,
            input => $self->input,
        });<\n>
    <@noViableAltException()>
    croak $nvae;<\n>
<endif>
}
>>

/** Same as a normal DFA state except that we don't examine lookahead
 * for the bypass alternative. It delays error detection but this

```

```

* is faster, smaller, and more what people expect. For (X)? people
* expect "if ( LA(1)==X ) match(X);" and that's it.
*/
dfaOptionalBlockState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
my $LA<decisionNumber>_<stateNumber> = $self->input->LA(<k>);<\n>
<edges; separator="\nls">
>>

/** A DFA state that is actually the loopback decision of a closure
* loop. If end-of-token (EOT) predicts any of the targets then it
* should act like a default clause (i.e., no error can be generated).
* This is used only in the lexer so that for ('a')* on the end of a rule
* anything other than 'a' predicts exiting.
*/
dfaLoopbackState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
my $LA<decisionNumber>_<stateNumber> = $self->input->LA(<k>);<\n>
<edges; separator="\nls"><\n>
<if(eotPredictsAlt)>
<if(!edges)>
$alt<decisionNumber> = <eotPredictsAlt>; <! if no edges, don't gen ELSE !>
<else>
else {
    $alt<decisionNumber> = <eotPredictsAlt>;
}<\n>
<endif>
<endif>
>>

/** An accept state indicates a unique alternative has been predicted */
dfaAcceptState(alt) ::= "$alt<decisionNumber> = <alt>;"

/** A simple edge with an expression. If the expression is satisfied,
* enter to the target state. To handle gated productions, we may
* have to evaluate some predicates for this edge.
*/
dfaEdge(labelExpr, targetState, predicates) ::= <<
if ( (<labelExpr> <if(predicates)>&& (<predicates>)<endif> ) {
    <targetState>
}
>>

// F i x e d D F A (switch case)

/** A DFA state where a SWITCH may be generated. The code generator
* decides if this is possible: CodeGenerator.canGenerateSwitch().
*/
dfaStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch ( $self->input->LA(<k> ) ) {

```



```

<edges; separator="\n">
else {
<if(eotPredictsAlt)>
    $alt<decisionNumber> = <eotPredictsAlt>;
<else>
    <ruleBacktrackFailure()>
    my $nvae =
        ANTLR::Runtime::NoViableAltException->new({
            grammar_decision_description => "<description>",
            decision_number => <decisionNumber>,
            state_number => <stateNumber>,
            input => $self->input,
        });<\n>
    <@noViableAltException()>
    croak $nvae;<\n>
<endif>
}
}<\n>
>>

dfaOptionalBlockStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch ( $self->input->LA(<k>) ) {
    <edges; separator="\n">
}<\n>
>>

dfaLoopbackStateSwitch(k, edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch ( $self->input->LA(<k>) ) {
<edges; separator="\n"><\n>
<if(eotPredictsAlt)>
else { $alt<decisionNumber> = <eotPredictsAlt> }<\n>
<endif>
}<\n>
>>

dfaEdgeSwitch(labels, targetState) ::= <<
case [<labels:{ <it> }; separator=", ">] { <targetState> }
>>

// C y c l i c D F A

/** The code to initiate execution of a cyclic DFA; this is used
 * in the rule to predict an alt just like the fixed DFA case.
 * The <name> attribute is inherited via the parser, lexer, ...
 */
dfaDecision(decisionNumber,description) ::= <<
$alt<decisionNumber> = $self->dfa<decisionNumber>->predict($self->input);
>>

```

```

/* Dump DFA tables as run-length-encoded Strings of octal values.
* Can't use hex as compiler translates them before compilation.
* These strings are split into multiple, concatenated strings.
* Java puts them back together at compile time thankfully.
* Java cannot handle large static arrays, so we're stuck with this
* encode/decode approach. See analysis and runtime DFA for
* the encoding methods.
*/
cyclicDFA(dfa) ::= <<
Readonly my $DFA<dfa.decisionNumber>_eot => ANTLR::Runtime::DFA->unpack_rle([
<dfa.javaCompressedEOT; separator=", "> ]);
Readonly my $DFA<dfa.decisionNumber>_eof => ANTLR::Runtime::DFA->unpack_rle([
<dfa.javaCompressedEOF; separator=", "> ]);
Readonly my $DFA<dfa.decisionNumber>_min => ANTLR::Runtime::DFA->unpack_rle([
<dfa.javaCompressedMin; separator=", "> ]);
Readonly my $DFA<dfa.decisionNumber>_max => ANTLR::Runtime::DFA->unpack_rle([
<dfa.javaCompressedMax; separator=", "> ]);
Readonly my $DFA<dfa.decisionNumber>_accept => ANTLR::Runtime::DFA->unpack_rle([
<dfa.javaCompressedAccept; separator=", "> ]);
Readonly my $DFA<dfa.decisionNumber>_special => ANTLR::Runtime::DFA->unpack_rle([
<dfa.javaCompressedSpecial; separator=", "> ]);
Readonly my $DFA<dfa.decisionNumber>_transition => [
<dfa.javaCompressedTransition: {s|ANTLR::Runtime::DFA->unpack_rle([ <s; separator=", "> ])}; separator=", "> ];

{
package <name>::DFA<dfa.decisionNumber>;
use ANTLR::Runtime::Class;

use strict;
use warnings;

extends 'ANTLR::Runtime::DFA';

sub BUILD {
my $self = shift;
my $param_ref = __PACKAGE__->unpack_params(@_, {
spec => [
{
name => 'recognizer',
isa => 'ANTLR::Runtime::BaseRecognizer'
},
],
});

$self->recognizer($param_ref->{recognizer});
$self->decision_number(<dfa.decisionNumber>);
$self->eot($DFA<dfa.decisionNumber>_eot);

```

```

$self->eof($DFA<dfa.decisionNumber>_eof);
$self->min($DFA<dfa.decisionNumber>_min);
$self->max($DFA<dfa.decisionNumber>_max);
$self->accept($DFA<dfa.decisionNumber>_accept);
$self->special($DFA<dfa.decisionNumber>_special);
$self->transition($DFA<dfa.decisionNumber>_transition);
}

sub get_description {
    return "<dfa.description>";
}

<@errorMethod()>

<if(dfa.specialStateSTs)>
sub special_state_transition {
    my ($self, $param_ref) = unpack_params(@_, {
        spec => [
            {
                name => 's',
                type => SCALAR,
            },
            {
                name => 'input',
                isa => 'ANTLR::Runtime::IntStream',
            }
        ]
    });
    my $s = $param_ref->{s};
    my $input = $param_ref->{input};

    switch ($s) {
        <dfa.specialStateSTs:{state |
        case <i0> \{ <! compressed special state numbers 0..n-1 !>
            <state>}; separator="\n">
        }
    }

<if(backtracking)>
    if ($self->state->backtracking > 0) {
        $self->state->failed = 1;
        return -1;
    }<\n>
<endif>

    my $nvae =
        ANTLR::Runtime::NoViableAltException->new({
            grammar_decision_description => $self->get_description(),

```

```

        decision_number => <dfa.decisionNumber>,
        state_number => $s,
        input => $input,
    });<\n>
    $self->error($nvae);
    $nvae->throw();
} <\n>
<endif>
} <\n>
>>

/** A state in a cyclic DFA; it's a special state and part of a big switch on
 * state.
 */
cyclicDFAState(decisionNumber,stateNumber,edges,needErrorClause,semPredState) ::= <<
my $input = $self->input;
my $LA<decisionNumber>_<stateNumber> = $input->LA(1);<\n>
<if(semPredState)> <! get next lookahead symbol to test edges, then rewind !>
my $index<decisionNumber>_<stateNumber> = $input->index();
$input->rewind();<\n>
<endif>
s = -1;
<edges; separator="\nls">
<if(semPredState)> <! return input cursor to state before we rewound !>
input.seek(index<decisionNumber>_<stateNumber>);<\n>
<endif>
if ( s>=0 ) return s;
break;
>>

/** Just like a fixed DFA edge, test the lookahead and indicate what
 * state to jump to next if successful.
 */
cyclicDFAEdge(labelExpr, targetStateNumber, edgeNumber, predicates) ::= <<
if ( (<labelExpr> <if(predicates)>&& (<predicates>)<endif> ) { s = <targetStateNumber>;}<\n>
>>

/** An edge pointing at end-of-token; essentially matches any char;
 * always jump to the target.
 */
eotDFAEdge(targetStateNumber,edgeNumber, predicates) ::= <<
s = <targetStateNumber>;<\n>
>>

// D F A E X P R E S S I O N S

andPredicates(left,right) ::= "<left> && <right>"

```

```

orPredicates(operands) ::= "<first(operands)><rest(operands):{ o | ||<o>}>"

notPredicate(pred) ::= "!(<evalPredicate(...)>)"

evalPredicate(pred,description) ::= "<pred>"

evalSynPredicate(pred,description) ::= "<pred>()"

lookaheadTest(atom,k,atomAsInt) ::= "$LA<decisionNumber>_<stateNumber> eq <atom>"

/** Sometimes a lookahead test cannot assume that LA(k) is in a temp variable
 * somewhere. Must ask for the lookahead directly.
 */
isolatedLookaheadTest(atom,k,atomAsInt) ::= "$self->input->LA(<k>) eq <atom>"

lookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= <<
($LA<decisionNumber>_<stateNumber> ge <lower> && $LA<decisionNumber>_<stateNumber> le <upper>)
>>

isolatedLookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= "($self->input->LA(<k>) ge
<lower> && $self->input->LA(<k>) le <upper>)"

setTest(ranges) ::= "<ranges; separator=\\\" || \\\">"

// A T T R I B U T E S

globalAttributeScope(scope) ::= <<
<if(scope.attributes)>
protected static class <scope.name>_scope {
  <scope.attributes:{<it.decl>;}; separator= "\\n">
}
protected Stack <scope.name>_stack = new Stack();<\n>
<endif>
>>

ruleAttributeScope(scope) ::= <<
<if(scope.attributes)>
protected static class <scope.name>_scope {
  <scope.attributes:{<it.decl>;}; separator= "\\n">
}
protected Stack <scope.name>_stack = new Stack();<\n>
<endif>
>>

returnType() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<ruleDescriptor.name>_return

```

```

<else>
<if(ruleDescriptor.hasSingleReturnValue)>
<ruleDescriptor.singleValueReturnType>
<else>
void
<endif>
<endif>
>>

/** Generate the Java type associated with a single or multiple return
 * values.
 */
ruleLabelType(referencedRule) ::= <<
<if(referencedRule.hasMultipleReturnValues)>
<referencedRule.name>_return
<else>
<if(referencedRule.hasSingleReturnValue)>
<referencedRule.singleValueReturnType>
<else>
void
<endif>
<endif>
>>

/** Using a type to init value map, try to init a type; if not in table
 * must be an object, default value is "undef".
 */
initValue(typeName) ::= <<
<if(typeName)>
<perlTypeInitMap.(typeName)>
<else>
undef
<endif>
>>

/** Define a rule label including default value */
ruleLabelDef(label) ::= <<
my $<label.label.text> = <initValue(typeName=ruleLabelType(referencedRule=label.referencedRule))>;<\n>
>>

/** Define a return struct for a rule if the code needs to access its
 * start/stop tokens, tree stuff, attributes, ... Leave a hole for
 * subgroups to stick in members.
 */
returnScope(scope) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
{
package <returnType()>;

```

```

use ANTLR::Runtime::Class;

extends 'ANTLR::Runtime::<if(TREE_PARSER)>Tree<else>Parser<endif>RuleReturnScope';

<scope.attributes:{public <it.decl>;}; separator="\n">
<@ruleReturnMembers()>
}
<endif>
>>

parameterScope(scope) ::= <<
<scope.attributes:{<$it.name>}; separator=", ">
>>

parameterAttributeRef(attr) ::= "<$attr.name>"
parameterSetAttributeRef(attr,expr) ::= "<$attr.name> =<expr>";

scopeAttributeRef(scope,attr,index,negIndex) ::= <<
<if(negIndex)>
((<scope>_scope)<scope>_stack.elementAt(<scope>_stack.size()-<negIndex>-1)).<attr.name>
<else>
<if(index)>
((<scope>_scope)<scope>_stack.elementAt(<index>)).<attr.name>
<else>
((<scope>_scope)<scope>_stack.peek()).<attr.name>
<endif>
<endif>
>>

scopeSetAttributeRef(scope,attr,expr,index,negIndex) ::= <<
<if(negIndex)>
((<scope>_scope)<scope>_stack.elementAt(<scope>_stack.size()-<negIndex>-1)).<attr.name> =<expr>;
<else>
<if(index)>
((<scope>_scope)<scope>_stack.elementAt(<index>)).<attr.name> =<expr>;
<else>
((<scope>_scope)<scope>_stack.peek()).<attr.name> =<expr>;
<endif>
<endif>
>>

/** $x is either global scope or x is rule with dynamic scope; refers
 * to stack itself not top of stack. This is useful for predicates
 * like {$function.size()>0 && $function::name.equals("foo")}?
 */
isolatedDynamicScopeRef(scope) ::= "<scope>_stack"

/** reference an attribute of rule; might only have single return value */

```

```

ruleLabelRef(referencedRule,scope,attr) ::= <<
<if(referencedRule.hasMultipleReturnValues)>
$<scope>.<attr.name>
<else>
$<scope>
<endif>
>>

returnAttributeRef(ruleDescriptor,attr) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
retval.<attr.name>
<else>
$<attr.name>
<endif>
>>

returnSetAttributeRef(ruleDescriptor,attr,expr) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
retval.<attr.name> =<expr>;
<else>
$<attr.name> =<expr>;
<endif>
>>

/** How to translate $tokenLabel */
tokenLabelRef(label) ::= "$<label>"

/** ids+=ID {$ids} or e+=expr {$e} */
listLabelRef(label) ::= "list_<label>"

// not sure the next are the right approach

tokenLabelPropertyRef_text(scope,attr) ::= "$<scope>->get_text()"
tokenLabelPropertyRef_type(scope,attr) ::= "<scope>.getType()"
tokenLabelPropertyRef_line(scope,attr) ::= "<scope>.getLine()"
tokenLabelPropertyRef_pos(scope,attr) ::= "<scope>.getCharPositionInLine()"
tokenLabelPropertyRef_channel(scope,attr) ::= "<scope>.getChannel()"
tokenLabelPropertyRef_index(scope,attr) ::= "<scope>.getTokenIndex()"
tokenLabelPropertyRef_tree(scope,attr) ::= "<scope>_tree"

ruleLabelPropertyRef_start(scope,attr) ::= "((<labelType>)<scope>.start)"
ruleLabelPropertyRef_stop(scope,attr) ::= "((<labelType>)<scope>.stop)"
ruleLabelPropertyRef_tree(scope,attr) ::= "((<ASTLabelType>)<scope>.tree)"
ruleLabelPropertyRef_text(scope,attr) ::= <<
<if(TREE_PARSER)>
input.getTokenStream().toString(
input.getTreeAdaptor().getTokenStartIndex(<scope>.start),

```



```

input.getTreeAdaptor().getTokenStopIndex(<scope>.start)
<else>
substr($self->input, $<scope>->start, $<scope>->stop)
<endif>
>>

ruleLabelPropertyRef_st(scope,attr) ::= "<scope>.st"

/** Isolated $RULE ref ok in lexer as it's a Token */
lexerRuleLabel(label) ::= "$<label>"

lexerRuleLabelPropertyRef_type(scope,attr) ::= "<scope>.getType()"
lexerRuleLabelPropertyRef_line(scope,attr) ::= "<scope>.getLine()"
lexerRuleLabelPropertyRef_pos(scope,attr) ::= "<scope>.getCharPositionInLine()"
lexerRuleLabelPropertyRef_channel(scope,attr) ::= "<scope>.getChannel()"
lexerRuleLabelPropertyRef_index(scope,attr) ::= "<scope>.getTokenIndex()"
lexerRuleLabelPropertyRef_text(scope,attr) ::= "<scope>.getText()"

// Somebody may ref $template or $tree or $stop within a rule:
rulePropertyRef_start(scope,attr) ::= "((<labelType>)retval.start)"
rulePropertyRef_stop(scope,attr) ::= "((<labelType>)retval.stop)"
rulePropertyRef_tree(scope,attr) ::= "((<ASTLabelType>)retval.tree)"
rulePropertyRef_text(scope,attr) ::= <<
<if(TREE_PARSER)>
input.getTokenStream().toString(
input.getTreeAdaptor().getTokenStartIndex(retval.start),
input.getTreeAdaptor().getTokenStopIndex(retval.start))
<else>
input.toString(retval.start,input.LT(-1))
<endif>
>>
rulePropertyRef_st(scope,attr) ::= "retval.st"

lexerRulePropertyRef_text(scope,attr) ::= "getText()"
lexerRulePropertyRef_type(scope,attr) ::= "$_type"
lexerRulePropertyRef_line(scope,attr) ::= "tokenStartLine"
lexerRulePropertyRef_pos(scope,attr) ::= "tokenStartCharPositionInLine"
lexerRulePropertyRef_index(scope,attr) ::= "-1" // undefined token index in lexer
lexerRulePropertyRef_channel(scope,attr) ::= "$_channel"
lexerRulePropertyRef_start(scope,attr) ::= "tokenStartCharIndex"
lexerRulePropertyRef_stop(scope,attr) ::= "(getCharIndex()-1)"
lexerRulePropertyRef_self(scope,attr) ::= "$self"

// setting $st and $tree is allowed in local rule. everything else
// is flagged as error
ruleSetPropertyRef_tree(scope,attr,expr) ::= "retval.tree =<expr>";
ruleSetPropertyRef_st(scope,attr,expr) ::= "retval.st =<expr>";

```

```

/** How to execute an action */
execAction(action) ::= <<
<if(backtracking)>
<if(actions.(actionScope).synpredgate)>
if ( <actions.(actionScope).synpredgate> ) {
  <action>
}
<else>
if ( backtracking==0 ) {
  <action>
}
<endif>
<else>
<action>
<endif>
>>

// M I S C (properties, etc...)

bitset(name, words64) ::= <<
Readonly my $<name> => ANTLR::Runtime::BitSet->new({ words64 => [ <words64:{'<it>'};separator=", "> ]
});<\n>
>>

codeFileExtension() ::= ".pm"

true() ::= "1"
false() ::= "0"

Found in path(s):
* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/codegen/templates/Per15/Per15.stg
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*/

/** Template overrides to add debugging to AST stuff. Dynamic inheritance

* hierarchy is set up as ASTDbg : AST : Dbg : Java by code generator.

*/

group ASTDbg;

parserMembers() ::= <<

protected DebugTreeAdaptor adaptor;

public void setTreeAdaptor(TreeAdaptor adaptor) {

<if(grammar.grammarIsRoot)>

 this.adaptor = new DebugTreeAdaptor(dbg, adaptor);

<else>

 this.adaptor = (DebugTreeAdaptor) adaptor; // delegator sends dbg adaptor

<endif><\n>

 <grammar.directDelegates: {g|<g.delegateName()>.setTreeAdaptor(this.adaptor);}>

}

public TreeAdaptor getTreeAdaptor() {

 return adaptor;

}<\n>

>>

parserCtorBody() ::= <<

<super.parserCtorBody()>

>>

createListenerAndHandshake() ::= <<

DebugEventSocketProxy proxy =

 new DebugEventSocketProxy(this, port, <if(TREE_PARSER)>input.getTreeAdaptor()<else>adaptor<endif>);

setDebugListener(proxy);

set<inputStreamType>(new Debug<inputStreamType>(input, proxy));

try {

 proxy.handshake();

}

catch (IOException ioe) {

 reportError(ioe);

```
}  
>>
```

```
@ctorForRootGrammar.finally() ::= <<  
TreeAdaptor adap = new CommonTreeAdaptor();  
setTreeAdaptor(adap);  
proxy.setTreeAdaptor(adap);  
>>
```

```
@ctorForProfilingRootGrammar.finally() ::= <<  
TreeAdaptor adap = new CommonTreeAdaptor();  
setTreeAdaptor(adap);  
>>
```

```
@ctorForPredefinedListener.superClassRef() ::= "super(input, dbg);"
```

```
@ctorForPredefinedListener.finally() ::= <<  
<if(grammar.grammarIsRoot)> <! don't create new adaptor for delegates !>  
TreeAdaptor adap = new CommonTreeAdaptor();  
setTreeAdaptor(adap);<\n>  
<endif>  
>>
```

```
@rewriteElement.pregen() ::= "dbg.location(<e.line>,<e.pos>);"
```

Found in path(s):

```
* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-  
jar/org/antlr/codegen/templates/Java/ASTDbg.stg
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* THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
* (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
* THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/
/** Template subgroup to add template rewrite output
* If debugging, then you'll also get STDbg.stg loaded.
*/
group ST;

@outputFile.imports() ::= <<
<@super.imports(>
using Antlr3.ST;
using Antlr3.ST.Language;
>>

/** Add this to each rule's return value struct */
@returnScope.ruleReturnMembers() ::= <<
private StringTemplate _st;
public StringTemplate Template { get { return _st; } set { _st = value; } }
public override string ToString() { return (Template==null) ? string.Empty : Template.ToString(); }
>>

@genericParser.members() ::= <<
<@super.members(>
protected StringTemplateGroup templateLib = new StringTemplateGroup("<name>Templates",
typeof(AngleBracketTemplateLexer) );

public StringTemplateGroup TemplateLib
{
get { return templateLib; }
set { templateLib = value; }
}
>>

/** x+=rule when output=template */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...>
<listLabel(elem=label+".getTemplate()",...>
>>

```

```

rewriteTemplate(alts) ::= <<

// TEMPLATE REWRITE
<if(backtracking)>
if ( <actions.(actionScope).synpredgate> )
{
  <alts:rewriteTemplateAlt(); separator="else ">
  <if(rewriteMode)><replaceTextInLine()><endif>
}
<else>
<alts:rewriteTemplateAlt(); separator="else ">
<if(rewriteMode)><replaceTextInLine()><endif>
<endif>
>>

replaceTextInLine() ::= <<
<if(TREE_PARSER)>
((TokenRewriteStream)input.TokenStream).Replace(
  input.TreeAdaptor.GetTokenStartIndex(retval.Start),
  input.TreeAdaptor.GetTokenStopIndex(retval.Start),
  retval.Template);
<else>
((TokenRewriteStream)input).Replace(
  retval.Start.TokenIndex,
  input.LT(-1).TokenIndex,
  retval.Template);
<endif>
>>

rewriteTemplateAlt() ::= <<
// <it.description>
<if(it.pred)>
if (<it.pred>)
{
  retval.Template = <it.alt>;
}<\n>
<else>
{
  retval.Template = <it.alt>;
}<\n>
<endif>
>>

rewriteEmptyTemplate(alts) ::= <<
null;
>>

```

```

/** Invoke a template with a set of attribute name/value pairs.
 * Set the value of the rule's template after having set
 * the attributes because the rule's template might be used as
 * an attribute to build a bigger template; you get a self-embedded
 * template.
 */
rewriteExternalTemplate(name,args) ::= <<
templateLib.GetInstanceOf("<name>"<if(args)>,
new STAttrMap()<args:{a | .put("<a.name>", <a.value>)}>
<endif>)
>>

/** expr is a string expression that says what template to load */
rewriteIndirectTemplate(expr,args) ::= <<
templateLib.GetInstanceOf(<expr><if(args)>,
new STAttrMap()<args:{a | .put("<a.name>", <a.value>)}>
<endif>)
>>

/** Invoke an inline template with a set of attribute name/value pairs */
rewriteInlineTemplate(args, template) ::= <<
new StringTemplate(templateLib, "<template>"<if(args)>,
new STAttrMap()<args:{a | .put("<a.name>", <a.value>)}>
<endif>)
>>

/** plain -> {foo} action */
rewriteAction(action) ::= <<
<action>
>>

/** An action has %st.attrName=expr; or % {st}.attrName=expr; */
actionSetAttribute(st,attrName,expr) ::= <<
(<st>).SetAttribute("<attrName>",<expr>);
>>

/** Translate % {stringExpr} */
actionStringConstructor(stringExpr) ::= <<
new StringTemplate(templateLib,<stringExpr>)
>>

```

Found in path(s):

* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/codegen/templates/CSharp3/ST.stg
No license file was found, but licenses were detected in source scan.

/*

[The "BSD licence"]

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*/

group AST;

```
/** Add an adaptor property that knows how to build trees */
```

```
@headerFile.members() ::= <<
```

```
/* @headerFile.members() */
```

```
pANTLR3_BASE_TREE_ADAPTOR adaptor;
```

```
pANTLR3_VECTOR_FACTORY vectors;
```

```
/* End @headerFile.members() */
```

```
>>
```

```
/** Install the tree adaptor interface pointer and anything else that
```

```
* tree parsers and producers require.
```

```
*/
```

```
@genericParser.apifuncs() ::= <<
```

```
<if(PARSER)>
```

```
ADAPTOR = ANTLR3_TREE_ADAPTORNew(instream->tstream->tokenSource->strFactory);<\n>
```

```
<endif>
```

```
ctx->vectors = antlr3VectorFactoryNew(0);
```

```
>>
```

```
@genericParser.cleanup() ::= <<
```



```

ctx->vectors->close(ctx->vectors);
<if(PARSER)>
/* We created the adaptor so we must free it
*/
ADAPTOR->free(ADAPTOR);
<endif>
>>

@returnScope.ruleReturnMembers() ::= <<

<super.ASTLabelType()> tree;

>>

/** Add a variable to track rule's return AST */
ruleDeclarations() ::= <<
<super.ruleDeclarations()>
<ASTLabelType> root_0;<\n>
>>

ruleInitializations() ::= <<
<super.ruleInitializations()>
root_0 = NULL;<\n>
>>

ruleLabelDefs() ::= <<
<super.ruleLabelDefs()>
<ruleDescriptor.tokenLabels:{<ASTLabelType> <it.label.text>_tree;}; separator="\n">
<ruleDescriptor.tokenListLabels:{<ASTLabelType> <it.label.text>_tree;}; separator="\n">
<ruleDescriptor.allTokenRefsInAltsWithRewrites
: {pANTLR3_REWRITE_RULE_<rewriteElementType>_STREAM stream_<it>;}; separator="\n">
<ruleDescriptor.allRuleRefsInAltsWithRewrites
: {pANTLR3_REWRITE_RULE_SUBTREE_STREAM stream_<it>;}; separator="\n">
>>

/* Note that we defer the actual creation of any rewrite streams we need here and just initialize
* them to NULL. This saves creating huge numbers of rewrite streams that cannot be used as only
* one alt will be taken in a rule, but we are declaring all the streams here. So we define
* a macro that conatins the create code, then use this macro later to check if the stream
* has been created yet. Checking for NULL is almost free in C.
*/
ruleLabelInitializations() ::= <<
<super.ruleLabelInitializations()>
<ruleDescriptor.tokenLabels:{<it.label.text>_tree = NULL;}; separator="\n">
<ruleDescriptor.tokenListLabels:{<it.label.text>_tree = NULL;}; separator="\n">

<ruleDescriptor.allTokenRefsInAltsWithRewrites
: {stream_<it> = NULL;

```

```

#define CREATE_stream_<it> if (stream_<it> == NULL) {stream_<it> =
antlr3RewriteRule<rewriteElementType>StreamNewAE(ADAPTOR, RECOGNIZER, (pANTLR3_UINT8)"token
<it>"); } }; separator="\n">
<ruleDescriptor.allRuleRefsInAltsWithRewrites
:{stream_<it> = NULL;
#define CREATE_stream_<it> if (stream_<it> == NULL) {stream_<it> =
antlr3RewriteRuleSubtreeStreamNewAE(ADAPTOR, RECOGNIZER, (pANTLR3_UINT8)"rule <it>"); } };
separator="\n">

<if(ruleDescriptor.hasMultipleReturnValues)>
retval.tree = NULL;
<endif>
>>

/** a rule label including default value */
ruleLabelInitVal(label) ::= <<
<super.ruleLabelInitVal(...)>
<label.label.text>.tree = NULL;
>>

/** When doing auto AST construction, we must define some variables;
 * These should be turned off if doing rewrites. This must be a "mode"
 * as a rule could have both rewrite and AST within the same alternative
 * block.
 */
@alt.declarations() ::= <<
<if(autoAST)>
<if(outerAlt)>
<endif>
<endif>
>>

@alt.initializations() ::= <<
<if(autoAST)>
<if(outerAlt)>
<if(!rewriteMode)>
root_0 = (<ASTLabelType>)(ADAPTOR->nilNode(ADAPTOR));<\n>
<endif>
<endif>
<endif>
>>

// Tracking Rule Elements
//
/** ID but track it for use in a rewrite rule */
tokenRefTrack(token,label,elementIndex,hetero) ::= <<

```

```

<tokenRefBang(...)> <! Track implies no auto AST construction!>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) { <endif>CREATE_stream_<token>;
stream_<token>->add(stream_<token>, <label>, NULL);<if(backtracking)> }<endif><\n>
>>

/** ids+=ID and track it for use in a rewrite rule; adds to ids *and*
 * to the tracking list stream_ID for use in the rewrite.
 */
tokenRefTrackAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRefTrack(...)>
<listLabel(elem=label,...)>
>>

/** ^(ID ...) track for rewrite */
tokenRefRuleRootTrack(token,label,elementIndex,hetero) ::= <<
<tokenRefBang(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>CREATE_stream_<token>; stream_<token>-
>add(stream_<token>, <label>, NULL);<if(backtracking)> }<endif><\n>
>>

wildcardTrack(label,elementIndex) ::= <<
<super.wildcard(...)>
>>

/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) { <endif>CREATE_stream_<rule.name>;
stream_<rule.name>->add(stream_<rule.name>, <label>.tree, NULL);<if(backtracking)> }<endif>
>>

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefTrack(...)>
<listLabelTrack(...)>
>>

/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) { <endif>CREATE_stream_<rule.name>;
stream_<rule.name>->add(stream_<rule.name>, <label>.tree, NULL);<if(backtracking)> }<endif>
>>

/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRootTrack(...)>
<listLabelAST(...)>

```

>>

// RULE REF AST

```
/** Match ^(label+=TOKEN ...) track for rewrite */
tokenRefRuleRootTrackAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRefRuleRootTrack(...)>
<listLabel(elem=label,...)>
>>
```

/* How to accumulate lists when we are doing rewrite tracking...

*/

```
listLabelTrack(label) ::= <<
```

```
/* listLabelTrack(label)
```

*/

```
if (list_<label> == NULL)
```

```
{
```

```
list_<label>=ctx->vectors->newVector(ctx->vectors);
```

```
}
```

```
list_<label>->add(list_<label>, <label>.tree, NULL);
```

```
>>
```

/* How to accumulate lists of rule outputs (only allowed with AST

* option but if the user is going to walk the tree, they will want

* all their custom elements from rule returns.

*

* Normally, we use inline structures (which the compiler lays down

* code to copy from heap allocations. However, here we want to accumulate copies

* of the returned structures because we are adding them to a list. This only makes sense if the

* grammar is not rewriting the tree as a tree rewrite only preserves the tree, not the object/structure

* returned from the rule. The rewrite will extract the tree pointer. However, if we are not going to

* do a tree re-write, then the user may wish to iterate the structures returned by the rule in

* action code and will expect the user defined returns[] elements to be available when they do this.

* Hence we cannot just preserve the tree that was returned. So, we must copy the local structure and provide

* a function that can free the allocated space. We cannot know how to free user allocated elements and

* presume that the user will know to do this using their own factories for the structures they allocate.

*/

```
listLabelAST(label) ::= <<
```

```
if (list_<label> == NULL)
```

```
{
```

```
list_<label>=ctx->vectors->newVector(ctx->vectors);
```

```
}
```

```
{
```

```
RETURN_TYPE_<label> * tcopy;
```

```

    tcopy = (RETURN_TYPE_<label> *)ANTLR3_MALLOC(sizeof(RETURN_TYPE_<label>)); /* Note no
memory allocation checks! */
    ANTLR3_MEMCPY((void *)tcopy, (const void *)<label>, sizeof(RETURN_TYPE_<label>));
    list_<label>->add(list_<label>, (void *)tcopy, freeScope); /* Add whatever the return type is */<n>
}
>>

```

```
// R e w r i t e
```

```

rewriteCode(
    alts,
    description,
    referencedElementsDeep, // ALL referenced elements to right of ->
    referencedTokenLabels,
    referencedTokenListLabels,
    referencedRuleLabels,
    referencedRuleListLabels,
    referencedWildcardLabels,
    referencedWildcardListLabels,
    rewriteBlockLevel,
    enclosingTreeLevel,
    treeLevel) ::=
<<

```

```
/* AST REWRITE
```

```

* elements      : <referencedElementsDeep; separator=", ">
* token labels   : <referencedTokenLabels; separator=", ">
* rule labels    : <referencedRuleLabels; separator=", ">
* token list labels : <referencedTokenListLabels; separator=", ">
* rule list labels : <referencedRuleListLabels; separator=", ">
*/

```

```
<if(backtracking)>
```

```
if ( <actions.(actionScope).synpredgate> ) <n>
```

```
<endif>
```

```
{
```

```
<rewriteCodeLabelsDecl()>
```

```
<rewriteCodeLabelsInit()>
```

```
root_0 = (<ASTLabelType>)(ADAPTOR->nilNode(ADAPTOR));
```

```
<prevRuleRootRef()>.tree = root_0;
```

```
<alts:rewriteAlt(); separator="else ">
```

```
<if(TREE_PARSER)>
```

```
<if(rewriteMode)>
```

```
<prevRuleRootRef()>.tree = (<ASTLabelType>)(ADAPTOR->rulePostProcessing(ADAPTOR, root_0));
```

```
INPUT->replaceChildren(INPUT, ADAPTOR->getParent(ADAPTOR, retval.start),
```

```
    ADAPTOR->getChildIndex(ADAPTOR, retval.start),
```

```
    ADAPTOR->getChildIndex(ADAPTOR, _last),
```

```
    retval.tree);
```

```

<endif>
<endif>
<prevRuleRootRef().tree = root_0; // set result root
<rewriteCodeLabelsFree()>

}
>>

rewriteCodeLabelsDecl() ::= <<
<referencedTokenLabels
: {pANTLR3_REWRITE_RULE_<rewriteElementType>_STREAM stream_<it>;};
separator="\n"
>
<referencedTokenListLabels
: {pANTLR3_REWRITE_RULE_<rewriteElementType>_STREAM stream_<it>;};
separator="\n"
>
<referencedRuleLabels
: {pANTLR3_REWRITE_RULE_SUBTREE_STREAM stream_<it>;};
separator="\n"
>
<referencedRuleListLabels
: {pANTLR3_REWRITE_RULE_SUBTREE_STREAM stream_<it>;};
separator="\n"
>
>>

rewriteCodeLabelsInit() ::= <<
<referencedTokenLabels
: {stream_<it>=antlr3RewriteRule<rewriteElementType>StreamNewAEE(ADAPTOR, RECOGNIZER,
(pANTLR3_UINT8)"token <it>", <it>;);};
separator="\n"
>
<referencedTokenListLabels
: {stream_<it>=antlr3RewriteRule<rewriteElementType>StreamNewAEV(ADAPTOR, RECOGNIZER,
(pANTLR3_UINT8)"token <it>", list_<it>;);};
separator="\n"
>
<referencedRuleLabels
: {stream_<it>=antlr3RewriteRuleSubtreeStreamNewAEE(ADAPTOR, RECOGNIZER,
(pANTLR3_UINT8)"token <it>", <it>.tree != NULL ? <it>.tree : NULL);};
separator="\n"
>
<referencedRuleListLabels
: {stream_<it>=antlr3RewriteRuleSubtreeStreamNewAEV(ADAPTOR, RECOGNIZER,
(pANTLR3_UINT8)"token <it>", list_<it>;);};
separator="\n"
>

```

```

>>
rewriteCodeLabelsFree() ::= <<
<referencedTokenLabels
:{if (stream_<it> != NULL) stream_<it>->free(stream_<it>); };
separator="\n"
>
<referencedTokenListLabels
:{if (stream_<it> != NULL) stream_<it>->free(stream_<it>); };
separator="\n"
>
<referencedRuleLabels
:{if (stream_<it> != NULL) stream_<it>->free(stream_<it>); };
separator="\n"
>
<referencedRuleListLabels
:{if (stream_<it> != NULL) stream_<it>->free(stream_<it>); };
separator="\n"
>
>>

/** Generate code for an optional rewrite block; note it uses the deep ref'd element
 * list rather shallow like other blocks.
 */
rewriteOptionalBlock(
alt,
rewriteBlockLevel,
referencedElementsDeep, // all nested refs
referencedElements, // elements in immediately block; no nested blocks
description) ::=
<<
// <fileName>:<description>
{
if ( <referencedElementsDeep:{el | (stream_<el> != NULL && stream_<el>->hasNext(stream_<el>)) };
separator="|| "> )
{
<alt>
}
<referencedElementsDeep:{el | if ( stream_<el> != NULL) stream_<el>->reset(stream_<el>);<n>}>
}<n>
}>>

rewriteClosureBlock(
alt,
rewriteBlockLevel,
referencedElementsDeep, // all nested refs
referencedElements, // elements in immediately block; no nested blocks
description) ::=
<<

```

```

// <fileName>:<description>
{
  while ( <referencedElements:{el | (stream_<el> != NULL && stream_<el>->hasNext(stream_<el>)) }; separator="||"
"> )
  {
    <alt>
  }
  <referencedElements:{el | if (stream_<el> != NULL) stream_<el>->reset(stream_<el>);<\n>}>
}<\n>
>>
RewriteEarlyExitException() ::=
<<
CONSTRUCTEX();
EXCEPTION->type      = ANTLR3_REWRITE_EARLY_EXCEPTION;
EXCEPTION->name      = (void *)ANTLR3_REWRITE_EARLY_EXCEPTION_NAME;
>>
rewritePositiveClosureBlock(
  alt,
  rewriteBlockLevel,
  referencedElementsDeep, // all nested refs
  referencedElements, // elements in immediately block; no nested blocks
  description) ::=
<<
if ( <referencedElements:{el | (stream_<el> == NULL || !stream_<el>->hasNext(stream_<el>)) }; separator="|| "> )
{
  <RewriteEarlyExitException(>
}
else
{
  while ( <referencedElements:{el | (stream_<el>->hasNext(stream_<el>)) }; separator="|| "> ) {
    <alt>
  }
  <referencedElements:{el | stream_<el>->reset(stream_<el>);<\n>}>
}
>>

rewriteAlt(a) ::= <<
// <a.description>
<if(a.pred)>
if (<a.pred>)
{
  <a.alt>
}<\n>
<else>
{
  <a.alt>
}<\n>
<endif>

```



```

>>

/** For empty rewrites: "r : ... -> ;" */
rewriteEmptyAlt() ::= "root_0 = NULL; /* \<-- rewriteEmptyAlt() */"

rewriteTree(root,children,description,enclosingTreeLevel,treeLevel) ::= <<
// <fileName>:<description>
{
  <ASTLabelType> root_<treeLevel> = (<ASTLabelType>)(ADAPTOR->nilNode(ADAPTOR));
  <root:rewriteElement()>
  <children:rewriteElement()>
  ADAPTOR->addChild(ADAPTOR, root_<enclosingTreeLevel>, root_<treeLevel>);
}<\n>
>>

rewriteElementList(elements) ::= "<elements:rewriteElement()>"

rewriteElement(e) ::= <<
<@pregen()>
<e.el>
>>

/** Gen ID or ID[args] */
rewriteTokenRef(token,elementIndex,hetero,args) ::= <<
ADAPTOR->addChild(ADAPTOR, root_<treeLevel>, <createRewriteNodeFromElement(...)>);<\n>
<endif>
>>

/** Gen $label ... where defined via label=ID */
rewriteTokenLabelRef(label,elementIndex) ::= <<
ADAPTOR->addChild(ADAPTOR, root_<treeLevel>, stream_<label> == NULL ? NULL : stream_<label>-
>nextNode(stream_<label>));<\n>
>>

/** Gen $label ... where defined via label+=ID */
rewriteTokenListLabelRef(label,elementIndex) ::= <<
ADAPTOR->addChild(ADAPTOR, root_<treeLevel>, stream_<label> == NULL ? NULL : stream_<label>-
>nextNode(stream_<label>));<\n>
>>

/** Gen ^($label ...) */
rewriteTokenLabelRefRoot(label,elementIndex) ::= <<
root_<treeLevel> = (<ASTLabelType>)(ADAPTOR->becomeRootToken(ADAPTOR, stream_<label> == NULL ?
NULL : stream_<label>->nextToken(stream_<label>, root_<treeLevel>));<\n>
>>

/** Gen ^($label ...) where label+=... */
rewriteTokenListLabelRefRoot ::= rewriteTokenLabelRefRoot

```

```

/** Gen ^(ID ...) or ^(ID[args] ...) */
rewriteTokenRefRoot(token,elementIndex,hetero,args) ::= <<
root_<treeLevel> = (<ASTLabelType>)(ADAPTOR->becomeRoot(ADAPTOR,
<createRewriteNodeFromElement(...)>, root_<treeLevel>));<\n>
>>

rewriteImaginaryTokenRef(args,token,hetero,elementIndex) ::= <<
ADAPTOR->addChild(ADAPTOR, root_<treeLevel>, <createImaginaryNode(tokenType=token, ...)>);<\n>
>>

rewriteImaginaryTokenRefRoot(args,token,hetero,elementIndex) ::= <<
root_<treeLevel> = (<ASTLabelType>)(ADAPTOR->becomeRoot(ADAPTOR,
<createImaginaryNode(tokenType=token, ...)>, root_<treeLevel>));<\n>
>>

/** plain -> {foo} action */
rewriteAction(action) ::= <<
root_0 = <action>;<\n>
>>

/** What is the name of the previous value of this rule's root tree? This
* let's us refer to $rule to mean previous value. I am reusing the
* variable 'tree' sitting in retval struct to hold the value of root_0 right
* before I set it during rewrites. The assign will be to retval.tree.
*/
prevRuleRootRef() ::= "retval"

rewriteRuleRef(rule,dup) ::= <<
ADAPTOR->addChild(ADAPTOR, root_<treeLevel>, stream_<rule> == NULL ? NULL : stream_<rule>-
>nextTree(stream_<rule>));<\n>
>>

rewriteRuleRefRoot(rule,dup) ::= <<
root_<treeLevel> = (<ASTLabelType>)(ADAPTOR->becomeRoot(ADAPTOR, stream_<rule> == NULL ? NULL
: stream_<rule>->nextNode(stream_<rule>), root_<treeLevel>));<\n>
>>

rewriteNodeAction(action) ::= <<
ADAPTOR->addChild(ADAPTOR, root_<treeLevel>, <action>);<\n>
>>

rewriteNodeActionRoot(action) ::= <<
root_<treeLevel> = (<ASLabelType>)(ADAPTOR->becomeRoot(ADAPTOR, <action>, root_<treeLevel>));<\n>
>>

/** Gen $ruleLabel ... where defined via ruleLabel=rule */
rewriteRuleLabelRef(label) ::= <<

```

```

ADAPTOR->addChild(ADAPTOR, root_<treeLevel>, stream_<label> == NULL ? NULL : stream_<label>-
>nextTree(stream_<label>));<\n>
>>

/** Gen $ruleLabel ... where defined via ruleLabel+=rule */
rewriteRuleListLabelRef(label) ::= <<
ADAPTOR->addChild(ADAPTOR, root_<treeLevel>, stream_<label> == NULL ? NULL : stream_<label>-
>nextTree(stream_<label>));<\n>
>>

/** Gen ^($ruleLabel ...) where ruleLabel=rule */
rewriteRuleLabelRefRoot(label) ::= <<
root_<treeLevel> = (<ASTLabelType>)(ADAPTOR->becomeRoot(ADAPTOR, stream_<label> == NULL ? NULL
: stream_<label>->nextNode(stream_<label>), root_<treeLevel>));<\n>
>>

/** Gen ^($ruleLabel ...) where ruleLabel+=rule */
rewriteRuleListLabelRefRoot(label) ::= <<
root_<treeLevel> = (<ASTLabelType>)(ADAPTOR->becomeRoot((<ASTLabelType>)(stream_<label> == NULL
? NULL : stream_<label>->nextNode(stream_<label>), root_<treeLevel>));<\n>
>>

rewriteWildcardLabelRef(label) ::= <<
ADAPTOR->addChild(ADAPTOR, root_<treeLevel>, stream_<label> == NULL ? NULL : stream_<label>-
>nextTree(stream_<label>));<\n>
>>

createImaginaryNode(tokenType,hetero,args) ::= <<
<if(hetero)>
<! new MethodNode(IDLabel, args) !>
<hetero>New(<tokenType><if(args)>, <args; separator=", "><endif>)
<else>
<if(args)>

#if <length(args)> == 2
(<ASTLabelType>)ADAPTOR->createTypeTokenText(ADAPTOR, <tokenType>, TOKTEXT(<args; separator=",
">))
#else
(<ASTLabelType>)ADAPTOR->createTypeText(ADAPTOR, <tokenType>, (pANTLR3_UINT8)<args;
separator=", ">)
#endif

<else>
(<ASTLabelType>)ADAPTOR->createTypeText(ADAPTOR, <tokenType>, (pANTLR3_UINT8)"<tokenType>")
<endif>
<endif>
>>

```

```

createRewriteNodeFromElement(token,hetero,args) ::= <<
<if(hetero)>
<hetero>New(stream_<token>->nextToken(stream_<token>)<if(args)>, <args; separator=", "><endif>)
<else>
<if(args)> <! must create new node from old !>

#if <length(args)> == 2
ADAPTOR->createTypeTokenText(ADAPTOR, <token>->getType(<token>, TOKTEXT(<token>, <args;
separator=", ">)) /* JIMI */
#else
ADAPTOR->createTypeToken(ADAPTOR, <token>->getType(<token>, <token>, <args; separator=", ">)
#endif

<else>
stream_<token> == NULL ? NULL : stream_<token>->nextNode(stream_<token>)
<endif>
<endif>
>>

```

Found in path(s):

* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/codegen/templates/C/AST.stg
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*/

/*

New style messages. This file contains the actual layout of the messages emitted by ANTLR.

The text itself is coming out of the languages/*stg files, according to the chosen locale.

This file contains the default format ANTLR uses.

*/

group antlr;

location(file, line, column) ::= "<file>:<line>:<column>:"

message(id, text) ::= "<id> <text>"

report(location, message, type) ::= "<type>(<message.id>): <location> <message.text>"

```
wantsSingleLineMessage() ::= "false"
```

Found in path(s):

```
* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-  
jar/org/antlr/tool/templates/messages/formats/antlr.stg
```

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```

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```

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```
*/
```

```
group AST;
```

```
@outputFile.imports() ::= <<
```

```
<@super.imports(>
```

```
<if(!TREE_PARSER)><! tree parser would already have imported !>
```

```
using Antlr.Runtime.Tree;
```

```
using RewriteRuleITokenStream = Antlr.Runtime.Tree.RewriteRuleTokenStream;<\n>
```

```
<endif>
```

```
>>
```

```
@genericParser.members() ::= <<
```

```
<@super.members(>
```

```

<parserMembers()>
>>

parserCtorBody() ::= <<
<super.parserCtorBody()>
ITreeAdaptor treeAdaptor = null;
CreateTreeAdaptor(ref treeAdaptor);
TreeAdaptor = treeAdaptor ?? new CommonTreeAdaptor();
>>

/** Add an adaptor property that knows how to build trees */
parserMembers() ::= <<
// Implement this function in your helper file to use a custom tree adaptor
void CreateTreeAdaptor(ref ITreeAdaptor adaptor) { }

private ITreeAdaptor adaptor;

public ITreeAdaptor TreeAdaptor
{
    get
    {
        return adaptor;
    }
    set
    {
        this.adaptor = value;
        <grammar.directDelegates:{g|<g:delegateName()>.TreeAdaptor = this.adaptor;}>
    }
}
>>

@returnScope.ruleReturnInterfaces() ::= <<
, IAstRuleReturnScope<<ASTLabelType>>
>>

@returnScope.ruleReturnMembers() ::= <<
private <ASTLabelType> _tree;
public <ASTLabelType> Tree { get { return _tree; } set { _tree = value; } }
>>

/** Add a variable to track rule's return AST */
ruleDeclarations() ::= <<
<super.ruleDeclarations()>
<ASTLabelType> root_0 = null;<\n>
>>

ruleLabelDefs() ::= <<
<super.ruleLabelDefs()>

```

```

<[ruleDescriptor.tokenLabels,ruleDescriptor.wildcardTreeLabels,ruleDescriptor.wildcardTreeListLabels]
: {<ASTLabelType> <it.label.text>_tree=null;}; separator="\n">
<ruleDescriptor.tokenListLabels: {<ASTLabelType> <it.label.text>_tree=null;}; separator="\n">
<ruleDescriptor.allTokenRefsInAltsWithRewrites
: {RewriteRule<rewriteElementType>Stream stream_<it>=new
RewriteRule<rewriteElementType>Stream(adaptor,"token <it>");}; separator="\n">
<ruleDescriptor.allRuleRefsInAltsWithRewrites
: {RewriteRuleSubtreeStream stream_<it>=new RewriteRuleSubtreeStream(adaptor,"rule <it>");}; separator="\n">
>>

```

```

/** When doing auto AST construction, we must define some variables;
 * These should be turned off if doing rewrites. This must be a "mode"
 * as a rule could have both rewrite and AST within the same alternative
 * block.
 */

```

```

@alt.declarations() ::= <<
<if(autoAST)>
<if(outerAlt)>
<if(!rewriteMode)>
root_0 = (<ASTLabelType>)adaptor.Nil();<\n>
<endif>
<endif>
<endif>
>>

```

// Tracking Rule Elements

```

/** ID and track it for use in a rewrite rule */
tokenRefTrack(token,label,elementIndex,hetero) ::= <<
<tokenRefBang(...)> <! Track implies no auto AST construction!>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>stream_<token>.Add(<label>);<\n>
>>

```

```

/** ids+=ID and track it for use in a rewrite rule; adds to ids *and*
 * to the tracking list stream_ID for use in the rewrite.
 */
tokenRefTrackAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRefTrack(...)>
<listLabel(elem=label,...)>
>>

```

```

/** ^(ID ...) track for rewrite */
tokenRefRuleRootTrack(token,label,elementIndex,hetero) ::= <<
<tokenRefBang(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>stream_<token>.Add(<label>);<\n>
>>

```

```

/** Match ^(label+=TOKEN ...) track for rewrite */

```



```

tokenRefRuleRootTrackAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRefRuleRootTrack(...)>
<listLabel(elem=label,...)>
>>

/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>stream_<rule.name>.Add(<label>.Tree);
>>

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefTrack(...)>
<listLabel(elem=label+".Tree",...)>
>>

/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>stream_<rule>.Add(<label>.Tree);
>>

/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRootTrack(...)>
<listLabel(elem=label+".Tree",...)>
>>

// R e w r i t e

rewriteCode(
alts, description,
referencedElementsDeep, // ALL referenced elements to right of ->
referencedTokenLabels,
referencedTokenListLabels,
referencedRuleLabels,
referencedRuleListLabels,
referencedWildcardLabels,
referencedWildcardListLabels,
rewriteBlockLevel, enclosingTreeLevel, treeLevel) ::=
<<

{
// AST REWRITE
// elements: <referencedElementsDeep; separator=", ">
// token labels: <referencedTokenLabels; separator=", ">
// rule labels: <referencedRuleLabels; separator=", ">

```

```

// token list labels: <referencedTokenListLabels; separator=", ">
// rule list labels: <referencedRuleListLabels; separator=", ">
// wildcard labels: <[referencedWildcardLabels,referencedWildcardListLabels]; separator=", ">
<if(backtracking)>
if ( <actions.(actionScope).synpredgate> ) {<\n>
<endif>
<prevRuleRootRef().Tree = root_0;
<rewriteCodeLabels()>
root_0 = (<ASTLabelType>)adaptor.Nil();
<alts:rewriteAlt(); separator="else ">
<! if tree parser and rewrite=true !>
<if(TREE_PARSER)>
<if(rewriteMode)>
<prevRuleRootRef().Tree = (<ASTLabelType>)adaptor.RulePostProcessing(root_0);
input.ReplaceChildren(adaptor.GetParent(retval.Start),
                    adaptor.GetChildIndex(retval.Start),
                    adaptor.GetChildIndex(_last),
                    retval.Tree);
<endif>
<endif>
<! if parser or tree-parser && rewrite!=true, we need to set result !>
<if(!TREE_PARSER)>
<prevRuleRootRef().Tree = root_0;<\n>
<else>
<if(!rewriteMode)>
<prevRuleRootRef().Tree = root_0;
<endif>
<endif>
<if(backtracking)>
}<\n>
<endif>
}
>>

rewriteCodeLabels() ::= <<
<referencedTokenLabels
: {RewriteRule<rewriteElementType>Stream stream_<it>=new
RewriteRule<rewriteElementType>Stream(adaptor,"token <it>",<it>)};
separator="\n"
>
<referencedTokenListLabels
: {RewriteRule<rewriteElementType>Stream stream_<it>=new
RewriteRule<rewriteElementType>Stream(adaptor,"token <it> ", list_<it>)};
separator="\n"
>
<referencedWildcardLabels
: {RewriteRuleSubtreeStream stream_<it>=new RewriteRuleSubtreeStream(adaptor,"wildcard <it>",<it>)};

```

```

separator="\n"
>
<referencedWildcardListLabels
:{RewriteRuleSubtreeStream stream_<it>=new RewriteRuleSubtreeStream(adaptor,"wildcard <it>",list_<it>)};
separator="\n"
>
<referencedRuleLabels
:{RewriteRuleSubtreeStream stream_<it>=new RewriteRuleSubtreeStream(adaptor,"rule
<it>",<it>!=null?<it>.Tree:null)};
separator="\n"
>
<referencedRuleListLabels
:{RewriteRuleSubtreeStream stream_<it>=new RewriteRuleSubtreeStream(adaptor,"token <it>",list_<it>)};
separator="\n"
>
>>

/** Generate code for an optional rewrite block; note it uses the deep ref'd element
 * list rather shallow like other blocks.
 */
rewriteOptionalBlock(
alt,rewriteBlockLevel,
referencedElementsDeep, // all nested refs
referencedElements, // elements in immediately block; no nested blocks
description) ::=
<<
// <fileName>:<description>
if ( <referencedElementsDeep:{el | stream_<el>.HasNext}; separator="||"> )
{
<alt>
}
<referencedElementsDeep:{el | stream_<el>.Reset();<n>}>
>>

rewriteClosureBlock(
alt,rewriteBlockLevel,
referencedElementsDeep, // all nested refs
referencedElements, // elements in immediately block; no nested blocks
description) ::=
<<
// <fileName>:<description>
while ( <referencedElements:{el | stream_<el>.HasNext}; separator="||"> )
{
<alt>
}
<referencedElements:{el | stream_<el>.Reset();<n>}>
>>

```

```

rewritePositiveClosureBlock(
  alt,rewriteBlockLevel,
  referencedElementsDeep, // all nested refs
  referencedElements, // elements in immediately block; no nested blocks
  description) ::=
<<
if ( !(<referencedElements:{el | stream_<el>.HasNext}; separator="||">) )
{
  throw new RewriteEarlyExitException();
}
while ( <referencedElements:{el | stream_<el>.HasNext}; separator="||"> )
{
  <alt>
}
<referencedElements:{el | stream_<el>.Reset();<\n>}>
>>

```

```

rewriteAlt(a) ::= <<
// <a.description>
<if(a.pred)>
if (<a.pred>)
{
  <a.alt>
}<\n>
<else>
{
  <a.alt>
}<\n>
<endif>
>>

```

```

/** For empty rewrites: "r : ... -> ;" */
rewriteEmptyAlt() ::= "root_0 = null;"

```

```

rewriteTree(root,children,description,enclosingTreeLevel,treeLevel) ::= <<
// <fileName>:<description>
{
  <ASTLabelType> root_<treeLevel> = (<ASTLabelType>)adaptor.Nil();
  <root:rewriteElement()>
  <children:rewriteElement()>
  adaptor.AddChild(root_<enclosingTreeLevel>, root_<treeLevel>);
}<\n>
>>

```

```

rewriteElementList(elements) ::= "<elements:rewriteElement()>"

```

```

rewriteElement(e) ::= <<
<@pregen()>

```

```

DebugLocation(<e.line>, <e.pos>);
<e.el>
>>

/** Gen ID or ID[args] */
rewriteTokenRef(token,elementIndex,hetero,args) ::= <<
adaptor.AddChild(root_<treeLevel>, <createRewriteNodeFromElement(...)>);<\n>
>>

/** Gen $label ... where defined via label=ID */
rewriteTokenLabelRef(label,elementIndex) ::= <<
adaptor.AddChild(root_<treeLevel>, stream_<label>.NextNode());<\n>
>>

/** Gen $label ... where defined via label+=ID */
rewriteTokenListLabelRef(label,elementIndex) ::= <<
adaptor.AddChild(root_<treeLevel>, stream_<label>.NextNode());<\n>
>>

/** Gen ^($label ...) */
rewriteTokenLabelRefRoot(label,elementIndex) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(stream_<label>.NextNode(), root_<treeLevel>);<\n>
>>

/** Gen ^($label ...) where label+=... */
rewriteTokenListLabelRefRoot ::= rewriteTokenLabelRefRoot

/** Gen ^(ID ...) or ^(ID[args] ...) */
rewriteTokenRefRoot(token,elementIndex,hetero,args) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(<createRewriteNodeFromElement(...)>,
root_<treeLevel>);<\n>
>>

rewriteImaginaryTokenRef(args,token,hetero,elementIndex) ::= <<
adaptor.AddChild(root_<treeLevel>, <createImaginaryNode(tokenType=token, ...)>);<\n>
>>

rewriteImaginaryTokenRefRoot(args,token,hetero,elementIndex) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(<createImaginaryNode(tokenType=token, ...)>,
root_<treeLevel>);<\n>
>>

/** plain -> {foo} action */
rewriteAction(action) ::= <<
root_0 = <action>;<\n>
>>

/** What is the name of the previous value of this rule's root tree? This

```

```

* let's us refer to $rule to mean previous value. I am reusing the
* variable 'tree' sitting in retval struct to hold the value of root_0 right
* before I set it during rewrites. The assign will be to retval.tree.
*/
prevRuleRootRef() ::= "retval"

rewriteRuleRef(rule) ::= <<
adaptor.AddChild(root_<treeLevel>, stream_<rule>.NextTree());<\n>
>>

rewriteRuleRefRoot(rule) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(stream_<rule>.NextNode(), root_<treeLevel>);<\n>
>>

rewriteNodeAction(action) ::= <<
adaptor.AddChild(root_<treeLevel>, <action>);<\n>
>>

rewriteNodeActionRoot(action) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(<action>, root_<treeLevel>);<\n>
>>

/** Gen $ruleLabel ... where defined via ruleLabel=rule */
rewriteRuleLabelRef(label) ::= <<
adaptor.AddChild(root_<treeLevel>, stream_<label>.NextTree());<\n>
>>

/** Gen $ruleLabel ... where defined via ruleLabel+=rule */
rewriteRuleListLabelRef(label) ::= <<
adaptor.AddChild(root_<treeLevel>, stream_<label>.NextTree());<\n>
>>

/** Gen ^($ruleLabel ...) where ruleLabel=rule */
rewriteRuleLabelRefRoot(label) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(stream_<label>.NextNode(), root_<treeLevel>);<\n>
>>

/** Gen ^($ruleLabel ...) where ruleLabel+=rule */
rewriteRuleListLabelRefRoot(label) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(stream_<label>.NextNode(), root_<treeLevel>);<\n>
>>

rewriteWildcardLabelRef(label) ::= <<
adaptor.AddChild(root_<treeLevel>, stream_<label>.NextTree());<\n>
>>

createImaginaryNode(tokenType,hetero,args) ::= <<
<if(hetero)>

```

```

<! new MethodNode(IDLabel, args) !>
new <hetero>(<tokenType><if(args)>, <args; separator=", "><endif>)
<else>
(<ASTLabelType>)adaptor.Create(<tokenType>, <args; separator=", "><if(!args)>"<tokenType>"<endif>)
<endif>
>>

```

```

createRewriteNodeFromElement(token,hetero,args) ::= <<
<if(hetero)>
new <hetero>(stream_<token>.NextToken(<if(args)>, <args; separator=", "><endif>)
<else>
<if(args)> <! must create new node from old !>
adaptor.Create(<token>, <args; separator=", ">)
<else>
stream_<token>.NextNode()
<endif>
<endif>
>>

```

Found in path(s):

```

* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-
jar/org/antlr/codegen/templates/CSharp2/AST.stg

```

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```

/*

```

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*/

/** Templates for building ASTs during normal parsing.

*

* Deal with many combinations. Dimensions are:

* Auto build or rewrite

* no label, label, list label (label/no-label handled together)

* child, root

* token, set, rule, wildcard

*

* The situation is not too bad as rewrite (->) usage makes ^ and !

* invalid. There is no huge explosion of combinations.

*/

group ASTParser;

@rule.setErrorReturnValue() ::= <<

RetVal.Tree := Adaptor.ErrorNode(Input, RetVal.Start as IToken,

Input.LT(-1), RE) as I<ASTLabelType>;

>>

// TOKEN AST STUFF

/** ID and output=AST */

tokenRef(token,label,elementIndex,hetero) ::= <<

<super.tokenRef(...)>

<if(backtracking)>

if (State.Backtracking = 0) then

begin<\n>

<endif>

<label>_tree := <createNodeFromToken(...)>;

Adaptor.AddChild(Root[0], <label>_tree);

<if(backtracking)>

end;

<endif>

>>

/** ID! and output=AST (same as plain tokenRef) */

tokenRefBang(token,label,elementIndex) ::= "<super.tokenRef(...)>"

/** ID^ and output=AST */

tokenRefRuleRoot(token,label,elementIndex,hetero) ::= <<

<super.tokenRef(...)>

<if(backtracking)>


```

if (State.Backtracking = 0) then
begin
<endif>
<label>_tree := <createNodeFromToken(...)>;
Root[0] := Adaptor.BecomeRoot(<label>_tree, Root[0]) as I<ASTLabelType>;
<if(backtracking)>
end;
<endif>
>>

/** ids+=ID! and output=AST */
tokenRefBangAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRefBang(...)>
<listLabel(elem=label,...)>
>>

/** label+=TOKEN when output=AST but not rewrite alt */
tokenRefAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRef(...)>
<listLabel(elem=label,...)>
>>

/** Match label+=TOKEN^ when output=AST but not rewrite alt */
tokenRefRuleRootAndListLabel(token,label,hetero,elementIndex) ::= <<
<tokenRefRuleRoot(...)>
<listLabel(elem=label,...)>
>>

// SET AST

// the match set stuff is interesting in that it uses an argument list
// to pass code to the default matchSet; another possible way to alter
// inherited code. I don't use the region stuff because I need to pass
// different chunks depending on the operator. I don't like making
// the template name have the operator as the number of templates gets
// large but this is the most flexible--this is as opposed to having
// the code generator call matchSet then add root code or ruleroot code
// plus list label plus ... The combinations might require complicated
// rather than just added on code. Investigate that refactoring when
// I have more time.

matchSet(s,label,hetero,elementIndex,postmatchCode) ::= <<
<super.matchSet(..., postmatchCode={<if(backtracking)>if (State.Backtracking = 0) then
<endif>Adaptor.AddChild(Root[0], <createNodeFromToken(...)>);}>
>>

matchRuleBlockSet(s,label,hetero,elementIndex,postmatchCode,treeLevel="0") ::= <<
<matchSet(...)>

```

>>

```
matchSetBang(s,label,elementIndex,postmatchCode) ::= "<super.matchSet(...)>"
```

```
// note there is no matchSetTrack because -> rewrites force sets to be
```

```
// plain old blocks of alts: (A|B|...|C)
```

```
matchSetRuleRoot(s,label,hetero,elementIndex,debug) ::= <<
```

```
<if(label)>
```

```
<label> := Input.LT(1) as I<labelType>;<\n>
```

```
<endif>
```

```
<super.matchSet(..., postmatchCode={ <if(backtracking)>if (State.Backtracking = 0) then <endif>Root[0] :=  
Adaptor.BecomeRoot(<createNodeFromToken(...)>, Root[0]) as I<ASTLabelType>;}>
```

```
>>
```

```
// RULE REF AST
```

```
/** rule when output=AST */
```

```
ruleRef(rule,label,elementIndex,args,scope) ::= <<
```

```
<super.ruleRef(...)>
```

```
<if(backtracking)>if (State.Backtracking = 0) then <endif>Adaptor.AddChild(Root[0], <label>.Tree);
```

```
>>
```

```
/** rule! is same as normal rule ref */
```

```
ruleRefBang(rule,label,elementIndex,args,scope) ::= "<super.ruleRef(...)>"
```

```
/** rule^ */
```

```
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
```

```
<super.ruleRef(...)>
```

```
<if(backtracking)>if (State.Backtracking = 0) then <endif>Root[0] := Adaptor.BecomeRoot(<label>.Tree, Root[0])  
as I<ASTLabelType>;
```

```
>>
```

```
/** x+=rule when output=AST */
```

```
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
```

```
<ruleRef(...)>
```

```
<listLabel(elem=label+".Tree",...)>
```

```
>>
```

```
/** x+=rule! when output=AST is a rule ref with list addition */
```

```
ruleRefBangAndListLabel(rule,label,elementIndex,args,scope) ::= <<
```

```
<ruleRefBang(...)>
```

```
<listLabel(elem=label+".Tree",...)>
```

```
>>
```

```
/** x+=rule^ */
```

```
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
```

```
<ruleRefRuleRoot(...)>
```

```

<listLabel(elem=label+".Tree",...)>
>>

// WILDCARD AST

wildcard(label,elementIndex) ::= <<
<super.wildcard(...)>
<if(backtracking)>
if (State.Backtracking = 0) then
begin
<endif>
<label>_tree := Adaptor.CreateNode(<label>) as I<ASTLabelType>;
Adaptor.AddChild(Root[0], <label>_tree);
<if(backtracking)>
end;
<endif>
>>

wildcardBang(label,elementIndex) ::= "<super.wildcard(...)>"

wildcardRuleRoot(label,elementIndex) ::= <<
<super.wildcard(...)>
<if(backtracking)>
if (State.Backtracking = 0) then
begin
<endif>
<label>_tree := Adaptor.CreateNode(<label>) as I<ASTLabelType>;
Root[0] := Adaptor.BecomeRoot(<label>_tree, Root[0]) as I<ASTLabelType>;
<if(backtracking)>
end;
<endif>
>>

createNodeFromToken(label,hetero) ::= <<
<if(hetero)>
T<hetero>.Create(<label>) <! new MethodNode(IDLabel) !>
<else>
Adaptor.CreateNode(<label>) as I<ASTLabelType>
<endif>
>>

ruleCleanUp() ::= <<
<super.ruleCleanUp()>
<if(backtracking)>
if (State.Backtracking = 0) then
begin<\n>
<endif>
RetVal.Tree := Adaptor.RulePostProcessing(Root[0]) as I<ASTLabelType>;

```

```
<if(!TREE_PARSER)>
Adaptor.SetTokenBoundaries(RetVal.Tree, RetVal.Start as IToken, RetVal.Stop as IToken);
<endif>
<if(backtracking)>
<\n>end;
<endif>
>>
```

Found in path(s):

```
* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-
jar/org/antlr/codegen/templates/Delphi/ASTParser.stg
```

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

```
/*
```

```
[The "BSD licence"]
```

```
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```

```
*/
```

```
group AST;
```

```
@genericParserHeaderFile.memVars() ::= <<
```

```
/* AST parserHeaderFile.memVars */
```

```
<@super.memVars()>
```

```
<parsermemVars()>
```

```
>>
```

```

@genericParserHeaderFile.methodsdecl() ::= <<
/* AST parserHeaderFile.methodsdecl */
<@super.methodsdecl()>
<parserMethodsDecl()>
>>

@genericParser.methods() ::= <<
/* AST genericParser.methods */
<@super.methods()>
<parserMethods()>
>>

/* additional init code for tree support */
@genericParser.init() ::= <<
/* AST genericParser.init */
<@super.init()>
[self setTreeAdaptor:[[ANTLRCommonTreeAdaptor newANTLRCommonTreeAdaptor] retain]];
>>

@genericParser.dealloc() ::= <<
/* AST genericParser.dealloc */
[self setTreeAdaptor:nil];
<@super.dealloc()>
>>

/* Add an adaptor property that knows how to build trees */
parsermemVars() ::= <<
/* AST parsermemVars */
id<ANTLRTreeAdaptor> treeAdaptor;
>>

/** Declaration of additional tree support methods - go in interface of parserHeaderFile() */
parserMethodsDecl() ::= <<
/* AST parserMethodsDecl */
- (id<ANTLRTreeAdaptor>) getTreeAdaptor;
- (void) setTreeAdaptor:(id<ANTLRTreeAdaptor>)theTreeAdaptor;
>>

/** Definition of addition tree support methods - go in implementation of genericParser() */
parserMethods() ::= <<
/* AST parserMethods */
- (id<ANTLRTreeAdaptor>) getTreeAdaptor
{
return treeAdaptor;
}

- (void) setTreeAdaptor:(id<ANTLRTreeAdaptor>)aTreeAdaptor
{

```

```

if (aTreeAdaptor != treeAdaptor) {
    treeAdaptor = aTreeAdaptor;
}
}
>>

/** addition memVars for returnscopes */
@returnScopeInterface.memVars() ::= <<
/* AST returnScopeInterface.memVars */
<recognizer.ASTLabelType; null="ANTLRCommonTree"> *tree;
>>

/** the interface of returnScope properties */
@returnScopeInterface.properties() ::= <<
/* AST returnScopeInterface.properties */
@property (retain, getter=getTree, setter=setTree;) <recognizer.ASTLabelType; null="ANTLRCommonTree">
*tree;
>>

/** the interface of returnScope methodsDecl */
@returnScopeInterface.methodsDecl() ::= <<
/* AST returnScopeInterface.methodsdecl */
- (<recognizer.ASTLabelType; null="ANTLRCommonTree"> *)getTree;
- (void) setTree:(<recognizer.ASTLabelType; null="ANTLRCommonTree"> *)aTree;<\n>
>>

/** the implementation of returnScope synthesize */
@returnScope.synthesize() ::= <<
/* AST returnScope.synthesize */
@synthesize tree;
>>

/** the implementation of returnScope methods */
@returnScope.methods() ::= <<
/* AST returnScope.methods */
- (<ASTLabelType> *)getTree
{
    return tree;
}

- (void) setTree:(<ASTLabelType> *)aTree
{
    if (tree != aTree) {
        if (tree != nil) [tree release];
        if (aTree != nil) [aTree retain];
        tree = aTree;
    }
}
}

```

```

- (void) dealloc
{
    [self setTree:nil];
    [super dealloc];
}

>>

/** Add a variable to track rule's return AST */
ruleDeclarations() ::= <<
/* AST ruleDeclarations */
<super.ruleDeclarations()>
<ASTLabelType> *root_0 = nil;<\n>
>>

ruleLabelDefs() ::= <<
/* AST ruleLabelDefs */
<super.ruleLabelDefs()>
<[ruleDescriptor.tokenLabels,ruleDescriptor.wildcardTreeLabels,
ruleDescriptor.wildcardTreeListLabels]:{<ASTLabelType> *<it.label.text>_tree=nil;}; separator="\n">
<ruleDescriptor.tokenListLabels:{<ASTLabelType> *<it.label.text>_tree = nil;}; separator="\n">
<ruleDescriptor.allTokenRefsInAltsWithRewrites: {ANTLRRewriteRuleTokenStream *stream_<it> =
[[ANTLRRewriteRuleTokenStream newANTLRRewriteRuleTokenStream:treeAdaptor
description:@"token <it>"] retain];}; separator="\n">
<ruleDescriptor.allRuleRefsInAltsWithRewrites: {ANTLRRewriteRuleSubtreeStream *stream_<it> =
[[ANTLRRewriteRuleSubtreeStream newANTLRRewriteRuleSubtreeStream:treeAdaptor
description:@"rule <it>"] retain];}; separator="\n">
>>

ruleCleanUp() ::= <<
/* AST ruleCleanUp */
<super.ruleCleanUp()>
<[ruleDescriptor.allTokenRefsInAltsWithRewrites,ruleDescriptor.allRuleRefsInAltsWithRewrites]:{[stream_<it>
release];}; separator="\n">
<!
<if(ruleDescriptor.hasMultipleReturnValues)>
<if(backtracking)>if ( state.backtracking == 0 ) {<\n>
<endif>
    [<prevRuleRootRef()> setTree:(<ASTLabelType> *)[treeAdaptor rulePostProcessing:root_0]];<\n>
    [treeAdaptor setTokenBoundaries:[<prevRuleRootRef()> getTree]
        From:[<prevRuleRootRef()> getStart]
        To:[<prevRuleRootRef()> getStop]];<\n>
<if(backtracking)>}<\n>
<endif>
<endif>
[root_0 release];
!>

```

```

>>

rewriteCodeLabelsCleanUp() ::= <<
/* AST rewriteCodeLabelsCleanUp */
<referencedTokenLabels: {[stream_<it> release];}; separator="\n">
<referencedTokenListLabels: {[stream_<it> release];}; separator="\n">
<referencedRuleLabels: {[stream_<it> release];}; separator="\n">
<referencedRuleListLabels: {[stream_<it> release];}; separator="\n">
>>

/** When doing auto AST construction, we must define some variables;
 * These should be turned off if doing rewrites. This must be a "mode"
 * as a rule could have both rewrite and AST within the same alternative
 * block.
 */
@alt.declarations() ::= <<
<if(autoAST)>
<if(outerAlt)>
<if(!rewriteMode)>
root_0 = (<ASTLabelType> *)[[[treeAdaptor class] newEmptyTree] retain];<\n>
<endif>
<endif>
<endif>
>>

// Tracking Rule Elements

/** ID and track it for use in a rewrite rule */
tokenRefTrack(token,label,elementIndex) ::= <<
<! <super.tokenRef(...)> !>
<tokenRefBang(...)> <! Track implies no auto AST construction!>
<if(backtracking)>
if ( <actions.(actionScope).synpredgate> ) <endif>
  [stream_<token> addElement:<label>];<\n>
>>

/** ids+=ID and track it for use in a rewrite rule; adds to ids *and*
 * to the tracking list stream_ID for use in the rewrite.
 */
tokenRefTrackAndListLabel(token,label,elementIndex) ::= <<
<tokenRefTrack(...)>
<listLabel(elem=label,...)>
>>

/** ^(ID ...) track for rewrite */
tokenRefRuleRootTrack(token,label,elementIndex) ::= <<
<! <super.tokenRef(...)> !>
<tokenRefBang(...)>

```



```

<if(backtracking)>
if ( !<actions.(actionScope).synpredgate> ) <endif>
  [stream_<token> addElement:<label>];<\n>
>>

/** Match ^(label+=TOKEN ...) track for rewrite */
tokenRefRuleRootTrackAndListLabel(token,label,elementIndex) ::= <<
<tokenRefRuleRootTrack(...)>
<listLabel(elem=label,...)>
>>

/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>
[stream_<rule.name> addElement:[<label> getTree]];
>>

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefTrack(...)>
<listLabel(elem="["+label+" getTree]",...)>
>>

/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
<! <super.ruleRefRuleRoot(...)> !>
<ruleRefRuleRoot(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>
  [stream_<rule.name> addElement:[<label> getTree]];<\n>
>>

/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRootTrack(...)>
<listLabel(elem="["+label+" getTree]",...)>
>>

// R e w r i t e

rewriteCode(
alts, description,
referencedElementsDeep, // ALL referenced elements to right of ->
referencedTokenLabels,
referencedTokenListLabels,
referencedRuleLabels,
referencedRuleListLabels,
referencedWildcardLabels,

```

```

referencedWildcardListLabels,
rewriteBlockLevel, enclosingTreeLevel, treeLevel) ::=
<<

// AST REWRITE
// elements: <referencedElementsDeep; separator=", ">
// token labels: <referencedTokenLabels; separator=", ">
// rule labels: <referencedRuleLabels; separator=", ">
// token list labels: <referencedTokenListLabels; separator=", ">
// rule list labels: <referencedRuleListLabels; separator=", ">
// wildcard labels: <[referencedWildcardLabels,referencedWildcardListLabels]; separator=", ">
<if(backtracking)>
if ( <actions.(actionScope).synpredgate> ) {<\n>
<endif>
[<prevRuleRootRef()> setTree:root_0];<\n>
<prevRuleRootRef()>.tree = root_0;<\n>
<rewriteCodeLabels()>
root_0 = (<ASTLabelType> *)[[[treeAdaptor class] newEmptyTree] retain];<\n>
<alts:rewriteAlt(); separator="else ">
<! if tree parser and rewrite=true !>
<if(TREE_PARSER)>
<if(rewriteMode)>
<prevRuleRootRef()>.tree = (<ASTLabelType>)[treeAdaptor rulePostProcessing:root_0];
[input replaceChildren:[treeAdaptor getParent:retval.start]
    From:[treeAdaptor getChildIndex:retval.start]
    To:[treeAdaptor getChildIndex:_last]
    With:retval.tree];
<endif>
<endif>
<! if parser or tree-parser && rewrite!=true, we need to set result !>
<if(!TREE_PARSER)>
<prevRuleRootRef()>.tree = root_0;<\n>
<else>
<if(!rewriteMode)>
<prevRuleRootRef()>.tree = root_0;<\n>
<endif>
<endif>
<! <rewriteCodeLabelsCleanUp()> !>
<if(backtracking)>
}
<endif>
>>

rewriteCodeLabels() ::= <<
<referencedTokenLabels
: { ANTLRRewriteRule<rewriteElementType>Stream
*stream_<it>=[[ANTLRRewriteRule<rewriteElementType>Stream
newANTLRRewriteRule<rewriteElementType>Stream:treeAdaptor Description:@"token <it>" Element:<it>]

```

```

retain];}; separator="\n">
<referencedTokenListLabels:{ ANTLRRewriteRule<rewriteElementType>Stream *stream_<it> =
  [[ANTLRRewriteRule<rewriteElementType>Stream
newANTLRRewriteRule<rewriteElementType>Stream:treeAdaptor
  description:@"token <it>"
  elements:<it>_list] retain];}; separator="\n">
<referencedWildcardLabels:{ RewriteRuleSubtreeStream stream_<it> =
  [[ANTLRRewriteRuleSubtreeStream newANTLRRewriteRuleSubtreeStream:treeAdaptor
  description:"wildcard <it>"
  element:<it>] retain];}; separator="\n">
<referencedWildcardListLabels:{ RewriteRuleSubtreeStream stream_<it> =
  [[ANTLRRewriteRuleSubtreeStream newANTLRRewriteRuleSubtreeStream:treeAdaptor
  descriptor:"wildcard <it>"
  element:list_<it>] retain];}; separator="\n">
<referencedRuleLabels:{ ANTLRRewriteRuleSubtreeStream *stream_<it> =
  [[ANTLRRewriteRuleSubtreeStream newANTLRRewriteRuleSubtreeStream:treeAdaptor
  description:@"token <it>"
  element:<it>!=nil?[<it> getTree]:nil] retain];}; separator="\n">
<referencedRuleListLabels:{ ANTLRRewriteRuleSubtreeStream *stream_<it> =
  [[ANTLRRewriteRuleSubtreeStream newANTLRRewriteRuleSubtreeStream:treeAdaptor
  description:@"token <it>"
  elements:list_<it>] retain];}; separator="\n">
>>

```

```

/** Generate code for an optional rewrite block; note it uses the deep ref'd element
 * list rather shallow like other blocks.
 */

```

```

rewriteOptionalBlock(
alt,rewriteBlockLevel,
referencedElementsDeep, // all nested refs
referencedElements, // elements in immediately block; no nested blocks
description) ::=
<<
// <fileName>:<description>
if ( <referencedElementsDeep:{el | [stream_<el> hasNext]}; separator="||"> ) {
  <alt>
}
<referencedElementsDeep:{el | [stream_<el> reset];<\n>}>
>>

```

```

rewriteClosureBlock(
alt,rewriteBlockLevel,
referencedElementsDeep, // all nested refs
referencedElements, // elements in immediately block; no nested blocks
description) ::=
<<
// <fileName>:<description>
while ( <referencedElements:{el | [stream_<el> hasNext]}; separator="||"> ) {

```

```

    <alt>
  }
  <referencedElements:{el | [stream_<el> reset];<\n>}>
>>

rewritePositiveClosureBlock(
  alt,rewriteBlockLevel,
  referencedElementsDeep, // all nested refs
  referencedElements, // elements in immediately block; no nested blocks
  description) ::=
<<
// <fileName>:<description>
{
if ( !(<referencedElements:{el | [stream_<el> hasNext]}; separator=" || ">) ) {
  @throw [NSException exceptionWithName:@"RewriteEarlyExitException" reason:nil userInfo:nil];
}
while ( <referencedElements:{el | [stream_<el> hasNext]}; separator=" || "> ) {
  <alt>
}
<referencedElements:{el | [stream_<el> reset];<\n>}>
}
>>

rewriteAlt(a) ::= <<
// <a.description>
<if(a.pred)>
if (<a.pred>) {
  <a.alt>
}<\n>
<else>
{
  <a.alt>
}<\n>
<endif>
>>

/** For empty rewrites: "r : ... -> ;" */
rewriteEmptyAlt() ::= "root_0 = nil;"

rewriteTree(root,children,description,enclosingTreeLevel,treeLevel) ::= <<
// <fileName>:<description>
{
  <ASTLabelType> *root_<treeLevel> = (<ASTLabelType> *)[[[treeAdaptor class] newEmptyTree] retain];
  <root:rewriteElement()>
  <children:rewriteElement()>
  [treeAdaptor addChild:root_<treeLevel> toTree:root_<enclosingTreeLevel>];
}<\n>
>>

```

```

rewriteElementList(elements) ::= "<elements:rewriteElement()>"

rewriteElement(e) ::= <<
<@pregen()>
<e.el>
>>

/** Gen ID or ID[args] */
rewriteTokenRef(token,elementIndex,hetero,args) ::= <<
// TODO: args: <args; separator=", ">
[treeAdaptor addChild:<createRewriteNodeFromElement(...)> toTree:root_<treeLevel>];<\n>
>>

/** Gen $label ... where defined via label=ID */
rewriteTokenLabelRef(label,elementIndex) ::= <<
[treeAdaptor addChild:[stream_<label> nextNode] toTree:root_<treeLevel>];<\n>
>>

/** Gen $label ... where defined via label+=ID */
rewriteTokenListLabelRef(label,elementIndex) ::= <<
[treeAdaptor addChild:[stream_<label> nextNode] toTree:root_<treeLevel>];<\n>
>>

/** Gen ^($label ...) */
rewriteTokenLabelRefRoot(label,elementIndex) ::= <<
root_<treeLevel> = (<ASTLabelType> *)[treeAdaptor becomeRoot:[stream_<label> nextNode]
old:root_<treeLevel>];<\n>
>>

/** Gen ^($label ...) where label+=... */
rewriteTokenListLabelRefRoot ::= rewriteTokenLabelRefRoot

/** Gen ^(ID ...) or ^(ID[args] ...) */
rewriteTokenRefRoot(token,elementIndex,hetero,args) ::= <<
root_<treeLevel> = (<ASTLabelType> *)[treeAdaptor becomeRoot:<createRewriteNodeFromElement(...)>
old:root_<treeLevel>];<\n>
>>

rewriteImaginaryTokenRef(args,token,hetero,elementIndex) ::= <<
<!
<if(first(rest(args)))> /* got two arguments - means create from token with custom text */
// rewriteImaginaryTokenRef - 2 args
[treeAdaptor addChild:[treeAdaptor createTree:<first(args)> Text:@<first(rest(args))>] retain]
toTree:root_<treeLevel>];
<else> /* at most one argument */
<if(first(args)>>
// rewriteImaginaryTokenRef - 1 arg

```

```

[treeAdaptor addChild:[treeAdaptor createTree:<first(args)> Text:@<first(rest(args))>] retain]
toTree:root_<treeLevel>];
<else> /* no argument at all */
// rewriteImaginaryTokenRef - no args
[treeAdaptor addChild:[treeAdaptor createTree:<token>.type Text:[state.tokenNames objectAtIndex:<token>.type]
retain] toTree:root_<treeLevel>];
<endif> /* one arg */
<endif> /* two args */
!>
[treeAdaptor addChild:<createImaginaryNode(tokenType=token, ...)> toTree:root_<treeLevel>];<\n>
>>

rewriteImaginaryTokenRefRoot(args,token,hetero,elementIndex) ::= <<
<!
<if(first(rest(args)))> /* got two arguments - means create from token with custom text*/
// rewriteImaginaryTokenRef - 2 args
id\<ANTLRTree> <token>_tree = [[ANTLRCommonTree newANTLRCommonTreeWithTokenType:<first(args)>
Text:@<first(rest(args))>] retain];
root_<treeLevel> = (<ASTLabelType> *)[treeAdaptor becomeRoot:<token>_tree old:root_<treeLevel>];
<else> /* at most one argument */
<if(first(args)>
id\<ANTLRTree> <token>_tree = [[ANTLRCommonTree newANTLRCommonTreeWithToken:<first(args)>]
retain];
root_<treeLevel> = (<ASTLabelType> *)[treeAdaptor becomeRoot:<token>_tree old:root_<treeLevel>];
<else> /* no argument at all */
id\<ANTLRTree> <token>_tree = [[ANTLRCommonTree newANTLRCommonTreeWithTokenType:<token>.type
Text:[tokenNames objectAtIndex:<token>.type]] retain];
root_<treeLevel> = (<ASTLabelType> *)[treeAdaptor becomeRoot:<token>_tree old:root_<treeLevel>];
<endif> /* one arg */
<endif> /* two args */
!>
root_<treeLevel> = (<ASTLabelType> *)[treeAdaptor becomeRoot:<createImaginaryNode(tokenType=token, ...)>
old:root_<treeLevel>];<\n>
>>

/** plain -> {foo} action */
rewriteAction(action) ::= <<
root_0 = <action>;<\n>
>>

/** What is the name of the previous value of this rule's root tree? This
* let's us refer to $rule to mean previous value. I am reusing the
* variable 'tree' sitting in retval struct to hold the value of root_0 right
* before I set it during rewrites. The assign will be to retval.tree.
*/
prevRuleRootRef() ::= "retval"

rewriteRuleRef(rule) ::= <<

```

```

[treeAdaptor addChild:[stream_<rule> nextTree] toTree:root_<treeLevel>];<\n>
>>

rewriteRuleRefRoot(rule) ::= <<
root_<treeLevel> = (<ASTLabelType> *)[treeAdaptor becomeRoot:(id\<ANTLRTree>)[stream_<rule> nextNode]
old:root_<treeLevel>];<\n>
>>

rewriteNodeAction(action) ::= <<
[treeAdaptor addChild:<action> toTree:root_<treeLevel>];<\n>
>>

rewriteNodeActionRoot(action) ::= <<
root_<treeLevel> = (<ASTLabelType> *)[treeAdaptor becomeRoot:<action> old:root_<treeLevel>];<\n>
>>

/** Gen $ruleLabel ... where defined via ruleLabel=rule */
rewriteRuleLabelRef(label) ::= <<
[treeAdaptor addChild:[stream_<label> nextTree] toTree:root_<treeLevel>];<\n>
>>

/** Gen $ruleLabel ... where defined via ruleLabel+=rule */
rewriteRuleListLabelRef(label) ::= <<
[treeAdaptor addChild:[(ANTLR<if(TREE_PARSER)>Tree<else>Parser<endif>RuleReturnScope
*)[stream_<label> nextTree]] toTree:root_<treeLevel>];<\n>
>>

/** Gen ^($ruleLabel ...) where ruleLabel=rule */
rewriteRuleLabelRefRoot(label) ::= <<
root_<treeLevel> = (<ASTLabelType> *)[treeAdaptor becomeRoot:[stream_<label> nextNode]
old:root_<treeLevel>];<\n>
>>

/** Gen ^($ruleLabel ...) where ruleLabel+=rule */
rewriteRuleListLabelRefRoot(label) ::= <<
root_<treeLevel> = (<ASTLabelType> *)[treeAdaptor becomeRoot:[stream_<label> nextNode]
old:root_<treeLevel>];<\n>
>>

rewriteWildcardLabelRef(label) ::= <<
[treeAdaptor addChild:[stream_<label> nextTree] toTree:root_<treeLevel>];<\n>
>>

createImaginaryNode(tokenType,hetero,args) ::= <<
<if(hetero)>
<! new MethodNode(IDLabel, args) !>
new <hetero><(tokenType)<if(args)>, <args; separator=", "><endif>
<else>

```

```

<! [treeAdaptor createTree:<if(args)>@<first(args)><else><tokenType><endif>
<if(args)>Text:@<first(rest(args))><endif>] !>
[[treeAdaptor createTree:(NSInteger)<tokenType> Text:[[ANTLRBaseRecognizer getTokenNames]
objectAtIndex:(NSUInteger)<tokenType>]] retain]
<endif>
>>

```

```

createRewriteNodeFromElement(token,hetero,args) ::= <<
<if(hetero)>
new <hetero>[stream_<token> nextToken]<if(args)>, <args; separator=", "><endif>
<else>
<if(args)> <! must create new node from old !>
[[treeAdaptor create:<token>] retain] <args; separator=", ">
<else>
[stream_<token> nextNode]
<endif>
<endif>
>>

```

Found in path(s):

* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/codegen/templates/ObjC/AST.stg
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*/

/** Templates for building ASTs during tree parsing.

*

* Deal with many combinations. Dimensions are:

* Auto build or rewrite

* no label, label, list label (label/no-label handled together)

* child, root

* token, set, rule, wildcard

*

* Each combination has its own template except that label/no label

* is combined into tokenRef, ruleRef, ...

*/

group ASTTreeParser;

finishedBacktracking(block) ::= <<

<if(backtracking)>

if <actions.(actionScope).synpredgate>:

 <block>

<else>

 <block>

<endif>

>>

/** Add a variable to track last element matched */

ruleDeclarations() ::= <<

<super.ruleDeclarations()>

 _first_0 = None

 _last = None<\n>

>>

/** What to emit when there is no rewrite rule. For auto build

* mode, does nothing.

*/

noRewrite(rewriteBlockLevel, treeLevel) ::= <<

<finishedBacktracking({

 <if(rewriteMode)>

 retval.tree = _first_0

 if self._adaptor.getParent(retval.tree) is not None and self._adaptor.isNil(self._adaptor.getParent(retval.tree)):

 retval.tree = self._adaptor.getParent(retval.tree)

 <endif>

 })>

>>

/** match ^(root children) in tree parser; override here to

* add tree construction actions.

*/

```

tree(root, actionsAfterRoot, children, nullableChildList,
    enclosingTreeLevel, treeLevel) ::= <<
    _last = self.input.LT(1)
    _save_last_<treeLevel> = _last
    _first_<treeLevel> = None
    <if(!rewriteMode)>
    root_<treeLevel> = self._adaptor.nil()<\n>
    <endif>
    <root:element()>
    <if(rewriteMode)>
    <finishedBacktracking({
    <if(root.el.rule)>
    if _first_<enclosingTreeLevel> is None:
        _first_<enclosingTreeLevel> = <root.el.label>.tree<\n>
    <else>
    if _first_<enclosingTreeLevel> is None:
        _first_<enclosingTreeLevel> = <root.el.label><\n>
    <endif>
    })>
    <endif>
    <actionsAfterRoot:element()>
    <if(nullableChildList)>
    if self.input.LA(1) == DOWN:
        self.match(self.input, DOWN, None)
        <children:element()>
        self.match(self.input, UP, None)

    <else>
    self.match(self.input, DOWN, None)
    <children:element()>
    self.match(self.input, UP, None)<\n>
    <endif>
    <if(!rewriteMode)>
    self._adaptor.addChild(root_<enclosingTreeLevel>, root_<treeLevel>)<\n>
    <endif>
    _last = _save_last_<treeLevel>

>>

// TOKEN AST STUFF

/** ID! and output=AST (same as plain tokenRef) 'cept add
 * setting of _last
 */
tokenRefBang(token,label,elementIndex) ::= <<
    _last = self.input.LT(1)
    <super.tokenRef(...)>
>>

```

```

/** ID auto construct */
tokenRef(token,label,elementIndex,hetero) ::= <<
  _last = self.input.LT(1)
  <super.tokenRef(...)>
  <if(!rewriteMode)>
  <finishedBacktracking({
  <if(hetero)>
  <label>_tree = <hetero><label>
  <else>
  <label>_tree = self._adaptor.dupNode(<label>)
  <endif><\n>
  self._adaptor.addChild(root_<treeLevel>, <label>_tree)
  })>
  <else> <! rewrite mode !>
  <finishedBacktracking({
  if _first_<treeLevel> is None:
    _first_<treeLevel> = <label><\n>
  })>
  <endif>
  >>

/** label+=TOKEN auto construct */
tokenRefAndListLabel(token,label,elementIndex,hetero) ::= <<
  <tokenRef(...)>
  <listLabel(elem=label,...)>
  >>

/** ^(ID ...) auto construct */
tokenRefRuleRoot(token,label,elementIndex,hetero) ::= <<
  _last = self.input.LT(1)
  <super.tokenRef(...)>
  <if(!rewriteMode)>
  <finishedBacktracking({
  <if(hetero)>
  <label>_tree = <hetero><label>
  <else>
  <label>_tree = self._adaptor.dupNode(<label>)
  <endif><\n>
  root_<treeLevel> = self._adaptor.becomeRoot(<label>_tree, root_<treeLevel>)
  })>
  <endif>
  >>

/** Match ^(label+=TOKEN ...) auto construct */
tokenRefRuleRootAndListLabel(token,label,elementIndex,hetero) ::= <<
  <tokenRefRuleRoot(...)>
  <listLabel(elem=label,...)>

```

```

>>

/** Match . wildcard and auto dup the node/subtree */
wildcard(token,label,elementIndex,hetero) ::= <<
  _last = self.input.LT(1)
  <super.wildcard(...)>
  <if(!rewriteMode)>
  <finishedBacktracking({
  <label>_tree = self._adaptor.dupTree(<label>)
  self._adaptor.addChild(root_<treeLevel>, <label>_tree)
  })>
  <else> <! rewrite mode !>
  <finishedBacktracking({
  if _first_<treeLevel> is None:
    _first_<treeLevel> = <label>
  })>
  <endif>
>>

// SET AST
matchSet(s,label,hetero,elementIndex,postmatchCode) ::= <<
  _last = self.input.LT(1)
  <super.matchSet(..., postmatchCode={
  <if(!rewriteMode)>
  <finishedBacktracking({
  <if(hetero)>
  <label>_tree = <hetero>(<label>)
  <else>
  <label>_tree = self._adaptor.dupNode(<label>)
  <endif><\n>
  self._adaptor.addChild(root_<treeLevel>, <label>_tree)
  })>
  <endif>
  })>
  <endif>
>>

matchRuleBlockSet(s,label,hetero,elementIndex,postmatchCode,treeLevel="0") ::= <<
  <matchSet(...)>
  <noRewrite()> <! set return tree !>
  >>

matchSetBang(s,label,elementIndex,postmatchCode) ::= <<
  _last = self.input.LT(1)
  <super.matchSet(...)>
  >>

matchSetRuleRoot(s,label,hetero,elementIndex,debug) ::= <<
  <super.matchSet(..., postmatchCode={

```

```

<if(!rewriteMode)>
<finishedBacktracking({
<if(hetero)>
<label>_tree = <hetero>(<label>)
<else>
<label>_tree = self._adaptor.dupNode(<label>)
<endif><\n>
root_<treeLevel> = self._adaptor.becomeRoot(<label>_tree, root_<treeLevel>)
})>
<endif>
})>
>>

```

```
// RULE REF AST
```

```

/** rule auto construct */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
_last = self.input.LT(1)
<super.ruleRef(...)>
<finishedBacktracking({
<if(!rewriteMode)>
self._adaptor.addChild(root_<treeLevel>, <label>.tree)
<else> <! rewrite mode !>
if _first_<treeLevel> is None:
_first_<treeLevel> = <label>.tree<\n>
<endif>
})>
>>

```

```

/** x+=rule auto construct */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>
<listLabel(elem=label+".tree",...)>
>>

```

```

/** ^(rule ...) auto construct */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
_last = self.input.LT(1)
<super.ruleRef(...)>
<if(!rewriteMode)>
<finishedBacktracking({
root_<treeLevel> = self._adaptor.becomeRoot(<label>.tree, root_<treeLevel>)
})>
<endif>
>>

```

```

/** ^(x+=rule ...) auto construct */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<

```

```

<ruleRefRuleRoot(...)>
<listLabel(elem=label+".tree",...)>
>>

/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
  _last = self.input.LT(1)
  <super.ruleRefTrack(...)>
>>

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  _last = self.input.LT(1)
  <super.ruleRefTrackAndListLabel(...)>
>>

/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
  _last = self.input.LT(1)
  <super.ruleRefRuleRootTrack(...)>
>>

/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  _last = self.input.LT(1)
  <super.ruleRefRuleRootTrackAndListLabel(...)>
>>

/** Streams for token refs are tree nodes now; override to
 * change nextToken to nextNode.
 */
createRewriteNodeFromElement(token,hetero,scope) ::= <<
  <if(hetero)>
  <hetero>(stream_<token>.nextNode())
  <else>
  stream_<token>.nextNode()
  <endif>
>>

ruleCleanUp() ::= <<
  <super.ruleCleanUp()>
  <if(!rewriteMode)>
  <finishedBacktracking({
  retval.tree = self._adaptor.rulePostProcessing(root_0)
  })>
  <endif>
>>

```

Found in path(s):

```
* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-  
jar/org/antlr/codegen/templates/Python/ASTTreeParser.stg
```

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

```
/*
```

```
[The "BSD licence"]
```

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```

```
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```

```
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```

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```
*/
```

```
group CSharp2 implements ANTLRCore;
```

```
csharpVisibilityMap ::= [
```

```
  "private": "private",
```

```
  "protected": "protected",
```

```
  "public": "public",
```

```
  "fragment": "private",
```

```
  default: "private"
```

```
]
```

```
// System.Boolean.ToString() returns "True" and "False", but the proper C# literals are "true" and "false"
```

```
// The Java version of Boolean returns "true" and "false", so they map to themselves here.
```

```
booleanLiteral ::= [
```

```
  "True": "true",
```

```
  "False": "false",
```

```
"true": "true",  
"false": "false",  
default: "false"  
]
```

```
/** The overall file structure of a recognizer; stores methods for rules  
 * and cyclic DFAs plus support code.  
 */
```

```
outputFile( LEXER,PARSER,TREE_PARSER, actionScope, actions,  
  docComment, recognizer,  
  name, tokens, tokenNames, rules, cyclicDFAs,  
  bitsets, buildTemplate, buildAST, rewriteMode, profile,  
  backtracking, synpreds, memoize, numRules,  
  fileName, ANTLRVersion, generatedTimestamp, trace,  
  scopes, superClass, literals) ::=
```

```
<<
```

```
// $ANTLR <ANTLRVersion> <fileName> <generatedTimestamp>
```

```
<@debugPreprocessor(>
```

```
// The variable 'variable' is assigned but its value is never used.
```

```
#pragma warning disable 168, 219
```

```
// Unreachable code detected.
```

```
#pragma warning disable 162
```

```
<actions.(actionScope).header>
```

```
<@imports>
```

```
using System;
```

```
using System.Collections.Generic;
```

```
using Antlr.Runtime;
```

```
<if(TREE_PARSER)>
```

```
using Antlr.Runtime.Tree;
```

```
using RewriteRuleITokenStream = Antlr.Runtime.Tree.RewriteRuleTokenStream;
```

```
<endif>
```

```
using Stack = System.Collections.Generic.Stack<object>;
```

```
using List = System.Collections.IList;
```

```
using ArrayList = System.Collections.Generic.List<object>;
```

```
<if(backtracking)>
```

```
using Map = System.Collections.IDictionary;
```

```
using HashMap = System.Collections.Generic.Dictionary<object, object>;
```

```
<endif>
```

```
<@end>
```

```
<if(actions.(actionScope).namespace)>
```

```
namespace <actions.(actionScope).namespace>
```

```
{
```

```
<endif>
```



```

<docComment>
<recognizer>
<if(actions.(actionScope).namespace)>
}
<endif>
>>

lexer(grammar, name, tokens, scopes, rules, numRules, labelType="CommonToken",
    filterMode,
    superClass={ <if(actions.(actionScope).superClass)><actions.(actionScope).superClass><else>Antlr.Runtime.Lexer
<endif>}) ::= <<
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<ANTLRVersion>")]
[System.CLSCompliant(false)]
public partial class <grammar.recognizerName> : <@superClassName><superClass><@end>
{
    <tokens:{ public const int <it.name>=<it.type>;}; separator="\n">
    <scopes:{ <if(it.isDynamicGlobalScope)><globalAttributeScope(scope=it)><endif>}>
    <actions.lexer.members>

    // delegates
    <grammar.delegates:
        { g|public <g.recognizerName> <g.delegateName()>;}; separator="\n">
    // delegators
    <grammar.delegators:
        { g|public <g.recognizerName> <g.delegateName()>;}; separator="\n">
    <last(grammar.delegators):{ g|public <g.recognizerName> gParent;}>

    public <grammar.recognizerName>()<! needed by subclasses !>
    {
        OnCreated();
    }

    public <grammar.recognizerName>(ICharStream input<grammar.delegators:{ g|, <g.recognizerName>
<g.delegateName()>}> )
        : this(input, new RecognizerSharedState()<grammar.delegators:{ g|, <g.delegateName()>}>)
    {
    }

    public <grammar.recognizerName>(ICharStream input, RecognizerSharedState state<grammar.delegators:{ g|,
<g.recognizerName> <g.delegateName()>}>)
        : base(input, state)
    {
    <if(memoize)>
    <if(grammar.grammarIsRoot)>
        state.ruleMemo = new System.Collections.Generic.Dictionary<int, int>[<numRules>+1];<n><! index from 1..n !>
    <endif>
    <endif>
    <grammar.directDelegates:

```

```

    {g|<g:delegateName()> = new <g.recognizerName>(input, this.state<trunc(g.delegators):{p|,
<p:delegateName()>>, this);}; separator="\n">
    <grammar.delegators:
    {g|this.<g:delegateName()> = <g:delegateName()>;}; separator="\n">
    <last(grammar.delegators):{g|gParent = <g:delegateName()>;}>

    OnCreated();
}
public override string GrammarFileName { get { return "<fileName>"; } }

private static readonly bool[] decisionCanBacktrack = new bool[0];

<if(grammar.hasDelegates)>
public override ICharStream CharStream
{
    get
    {
        return base.CharStream;
    }
    set
    {
        base.CharStream = value;
        <grammar.directDelegates:
        {g|<g:delegateName()> = new <g.recognizerName>(input, state<trunc(g.delegators):{p|, <p:delegateName()>>},
this);}; separator="\n">
        <grammar.delegators:
        {g|this.<g:delegateName()> = <g:delegateName()>;}; separator="\n">
        <last(grammar.delegators):{g|gParent = <g:delegateName()>;}>
    }
}

<endif>
<if(filterMode)>
    <filteringNextToken()>
<endif>

protected virtual void OnCreated() {}
protected virtual void EnterRule(string ruleName, int ruleIndex) {}
protected virtual void LeaveRule(string ruleName, int ruleIndex) {}

    <rules; separator="\n\n">

<insertLexerSynpreds(synpreds)>

#region DFA
<cyclicDFAs:{dfa | DFA<dfa.decisionNumber> dfa<dfa.decisionNumber>;}; separator="\n">

protected override void InitDFAs()

```

```

{
  base.InitDFAs();
  <cyclicDFAs:{ dfa | dfa<dfa.decisionNumber> = new DFA<dfa.decisionNumber>(this<if(dfa.specialStateSTs)>,
SpecialStateTransition<dfa.decisionNumber><endif>);}; separator="\n">
}

<cyclicDFAs:cyclicDFA()> <! dump tables for all DFA !>
#endregion

}
>>

/** A override of Lexer.nextToken() that backtracks over mTokens() looking
 * for matches. No error can be generated upon error; just rewind, consume
 * a token and then try again. backtracking needs to be set as well.
 * Make rule memoization happen only at levels above 1 as we start mTokens
 * at backtracking==1.
 */
filteringNextToken() ::= <<
public override IToken NextToken()
{
  while (true)
  {
    if (input.LA(1) == CharStreamConstants.EndOfFile)
    {
      IToken eof = new CommonToken((ICharStream)input, CharStreamConstants.EndOfFile, TokenChannels.Default,
input.Index, input.Index);
      eof.Line = Line;
      eof.CharPositionInLine = CharPositionInLine;
      return eof;
    }
    state.token = null;
    state.channel = TokenChannels.Default;
    state.tokenStartCharIndex = input.Index;
    state.tokenStartCharPositionInLine = input.CharPositionInLine;
    state.tokenStartLine = input.Line;
    state.text = null;
    try
    {
      int m = input.Mark();
      state.backtracking=1;<! means we won't throw slow exception !>
      state.failed=false;
      mTokens();
      state.backtracking=0;
      <! mTokens backtracks with synpred at backtracking==2
      and we set the synpredgate to allow actions at level 1. !>
      if (state.failed)
      {

```

```

    input.Rewind(m);
    input.Consume();<! advance one char and try again !>
  }
  else
  {
    Emit();
    return state.token;
  }
}
catch (RecognitionException re)
{
  // shouldn't happen in backtracking mode, but...
  ReportError(re);
  Recover(re);
}
}
}

public override void Memoize(IIntStream input, int ruleIndex, int ruleStartIndex)
{
  if (state.backtracking > 1)
    base.Memoize(input, ruleIndex, ruleStartIndex);
}

public override bool AlreadyParsedRule(IIntStream input, int ruleIndex)
{
  if (state.backtracking > 1)
    return base.AlreadyParsedRule(input, ruleIndex);

  return false;
}
>>

actionGate() ::= "(state.backtracking==0)"

filteringActionGate() ::= "(state.backtracking == 1)"

/** How to generate a parser */
genericParser(grammar, name, scopes, tokens, tokenNames, rules, numRules,
             bitsets, inputStreamType, superClass,
             ASTLabelType="object", labelType, members, rewriteElementType,
             filterMode) ::= <<
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<ANTLRVersion>")]
[System.CLSCompliant(false)]
public partial class <grammar.recognizerName> : <@superClassName><superClass><@end>
{
  <if(grammar.grammarIsRoot)>
  internal static readonly string[] tokenNames = new string[] {

```

```

"\<invalid>", "\<EOR>", "\<DOWN>", "\<UP>", <tokenNames; separator=", ">
};\n
<endif>
<tokens:{public const int <it.name>=<it.type>;}; separator="\n">

// delegates
<grammar.delegates:
  {g|public <g.recognizerName> <g.delegateName()>;}; separator="\n">
// delegators
<grammar.delegators:
  {g|public <g.recognizerName> <g.delegateName()>;}; separator="\n">
<last(grammar.delegators):{g|public <g.recognizerName> gParent;}>

<scopes:{<if(it.isDynamicGlobalScope)><globalAttributeScope(scope=it)><endif>>
<@members>
#if ANTLR_DEBUG
private static readonly bool[] decisionCanBacktrack =
  new bool[]
  {
    false, // invalid decision
    <grammar.decisions:{d | <booleanLiteral.(d.dfa.hasSynPred)>}; wrap="\n", separator=", ">
  };
#else
private static readonly bool[] decisionCanBacktrack = new bool[0];
#endif
<! WARNING. bug in ST: this is cut-n-paste into Dbg.stg !>
public <grammar.recognizerName>( <inputStreamType> input<grammar.delegators:{g|, <g.recognizerName>
<g.delegateName()>>> )
: this( input, new RecognizerSharedState()<grammar.delegators:{g|, <g.delegateName()>>> )
{
}
public <grammar.recognizerName>( <inputStreamType> input, RecognizerSharedState
state<grammar.delegators:{g|, <g.recognizerName> <g.delegateName()>>> )
: base(input, state)
{
  <parserCtorBody()>
  <grammar.directDelegates:
    {g|<g.delegateName()> = new <g.recognizerName>(input, state<trunc(g.delegators):{p|, <p.delegateName()>>},
this);}; separator="\n">
  <grammar.indirectDelegates:{g | <g.delegateName()> = <g.delegator.delegateName()>.<g.delegateName()>;};
separator="\n">
  <last(grammar.delegators):{g|gParent = <g.delegateName()>;}>

  OnCreated();
}
<@end>

public override string[] TokenNames { get { return

```

```

<grammar.composite.rootGrammar.recognizerName>.tokenNames; } }
public override string GrammarFileName { get { return "<fileName>"; } }

<members>

protected virtual void OnCreated() {}
protected virtual void EnterRule(string ruleName, int ruleIndex) {}
protected virtual void LeaveRule(string ruleName, int ruleIndex) {}

    <rules; separator="\n\n">
<if(grammar.delegatedRules)>
<! generate rule/method definitions for imported rules so they
appear to be defined in this recognizer. !>
#region Delegated rules
<grammar.delegatedRules:{ruleDescriptor|
public <returnType()> <ruleDescriptor.name>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>)
<!throws RecognitionException !>{\ <if(ruleDescriptor.hasReturnValue)>return
<endif><ruleDescriptor.grammar:delegateName()>.<ruleDescriptor.name>(<ruleDescriptor.parameterScope.attribut
es:{a|<a.name>}; separator=", ">); \}}; separator="\n">
#endregion Delegated rules<\n>
<endif>

<insertSynpreds(synpreds)>

<if(cyclicDFAs)>
#region DFA
<cyclicDFAs:{dfa | DFA<dfa.decisionNumber> dfa<dfa.decisionNumber>;}; separator="\n">

protected override void InitDFAs()
{
base.InitDFAs();
<cyclicDFAs:{dfa | dfa<dfa.decisionNumber> = new DFA<dfa.decisionNumber>( this<if(dfa.specialStateSTs)>,
SpecialStateTransition<dfa.decisionNumber><endif> );}; separator="\n">
}

<cyclicDFAs:cyclicDFA()><! dump tables for all DFA !>
#endregion DFA<\n>
<endif>

<if(bitsets)>
#region Follow sets
private static class Follow
{
<bitsets:bitset(name={_<it.name>_in_<it.inName><it.tokenIndex>},
words64=it.bits)>
}
#endregion Follow sets<\n>

```

```

<endif>
}
>>

parserCtorBody() ::= <<
<if(memoize)>
<if(grammar.isRoot)>
this.state.ruleMemo = new System.Collections.Generic.Dictionary<int,
int>[<length(grammar.allImportedRules)>+1];<\n><! index from 1..n !>
<endif>
<endif>
<grammar.delegators:
{g[this.<g.delegateName()>] = <g.delegateName()>; separator="\n">
>>

parser(grammar, name, scopes, tokens, tokenNames, rules, numRules, bitsets,
    ASTLabelType="object",
    superClass={<if(actions.actionScope.superClass)><actions.actionScope.superClass><else>Antlr.Runtime.Parser
<endif>}, labelType="IToken",
    members={<actions.parser.members>}) ::= <<
<genericParser(inputStreamType="ITokenStream", rewriteElementType="IToken", ...)>
>>

/** How to generate a tree parser; same as parser except the input
 * stream is a different type.
 */
treeParser(grammar, name, scopes, tokens, tokenNames, globalAction, rules,
    numRules, bitsets, labelType={<ASTLabelType>}, ASTLabelType="object",
    superClass={<if(actions.actionScope.superClass)><actions.actionScope.superClass><else>Antlr.Runtime.Tree.<
if(filterMode)><if(buildAST)>TreeRewriter<<labelType>><else>TreeFilter<endif><else>TreeParser<endif><end
if>},
    members={<actions.treeparser.members>},
    filterMode) ::= <<
<genericParser(inputStreamType="ITreeNodeStream", rewriteElementType="Node", ...)>
>>

/** A simpler version of a rule template that is specific to the imaginary
 * rules created for syntactic predicates. As they never have return values
 * nor parameters etc..., just give simplest possible method. Don't do
 * any of the normal memoization stuff in here either; it's a waste.
 * As predicates cannot be inlined into the invoking rule, they need to
 * be in a rule by themselves.
 */
synpredRule(ruleName, ruleDescriptor, block, description, nakedBlock) ::=
<<
protected virtual void Enter_<ruleName>_fragment() {}
protected virtual void Leave_<ruleName>_fragment() {}

```

```

// $ANTLR start <ruleName>
public <!final !>void <ruleName>_fragment(<ruleDescriptor.parameterScope:parameterScope(scope=it)>)
{
    <ruleLabelDefs(>
<if(trace)>
    Enter_<ruleName>_fragment();
    EnterRule("<ruleName>_fragment", <ruleDescriptor.index>);
    TraceIn("<ruleName>_fragment", <ruleDescriptor.index>);
    try
    {
        <block>
    }
    finally
    {
        TraceOut("<ruleName>_fragment", <ruleDescriptor.index>);
        LeaveRule("<ruleName>_fragment", <ruleDescriptor.index>);
        Leave_<ruleName>_fragment();
    }
<else>
    <block>
<endif>
}
// $ANTLR end <ruleName>
>>

```

```

insertLexerSynpreds(synpreds) ::= <<
<insertSynpreds(synpreds)>
>>

```

```

insertSynpreds(synpreds) ::= <<
<if(synpreds)>
#region Synpreds
private bool EvaluatePredicate(System.Action fragment)
{
    bool success = false;
    state.backtracking++;
    <@start(>
    try { DebugBeginBacktrack(state.backtracking);
    int start = input.Mark();
    try
    {
        fragment();
    }
    catch ( RecognitionException re )
    {
        System.Console.Error.WriteLine("impossible: "+re);
    }
    success = !state.failed;

```



```

input.Rewind(start);
} finally { DebugEndBacktrack(state.backtracking, success); }
<@stop()>
state.backtracking--;
state.failed=false;
return success;
}
#endregion Synpreds<\n>
<endif>
>>

ruleMemoization(name) ::= <<
<if(memoize)>
if (state.backtracking > 0 && AlreadyParsedRule(input, <ruleDescriptor.index>)) { <returnFromRule()> }
<endif>
>>

/** How to test for failure and return from rule */
checkRuleBacktrackFailure() ::= <<
<if(backtracking)>if (state.failed) <returnFromRule()><endif>
>>

/** This rule has failed, exit indicating failure during backtrack */
ruleBacktrackFailure() ::= <<
<if(backtracking)>if (state.backtracking>0) { state.failed=true; <returnFromRule()>}<endif>
>>

/** How to generate code for a rule. This includes any return type
 * data aggregates required for multiple return values.
 */
rule(ruleName,ruleDescriptor,block,emptyRule,description,exceptions,finally,memoize) ::= <<
<ruleAttributeScope(scope=ruleDescriptor.ruleScope)>
<returnScope(scope=ruleDescriptor.returnScope)>

protected virtual void Enter_<ruleName>() {}
protected virtual void Leave_<ruleName>() {}

// $ANTLR start "<ruleName>"
// <fileName>:<description>
[GrammarRule("<ruleName>")]
<csharpVisibilityMap.(ruleDescriptor.modifier); null="private"> <returnType()>
<ruleName>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>)
{
<if(trace)>
Enter_<ruleName>();
EnterRule("<ruleName>", <ruleDescriptor.index>);
TraceIn("<ruleName>", <ruleDescriptor.index>);
<endif>

```

```

<ruleScopeSetUp()>
<ruleDeclarations()>
<ruleLabelDefs()>
<ruleDescriptor.actions.init>
try { DebugEnterRule(GrammarFileName, "<ruleName>");
DebugLocation(<ruleDescriptor.tree.line>, <ruleDescriptor.EORNode.charPositionInLine>);
<@preamble()>
try
{
<ruleMemoization(name=ruleName)>
<block>
<ruleCleanUp()>
<(ruleDescriptor.actions.after):execAction()>
}
<if(exceptions)>
<exceptions: {e|<catch(decl=e.decl,action=e.action)><\n>}>
<else>
<if(!emptyRule)>
<if(actions.(actionScope).rulecatch)>
<actions.(actionScope).rulecatch>
<else>
catch (RecognitionException re)
{
ReportError(re);
Recover(input,re);
<@setErrorReturnValue()>
}<\n>
<endif>
<endif>
<endif>
finally
{
<if(trace)>
TraceOut("<ruleName>", <ruleDescriptor.index>);
LeaveRule("<ruleName>", <ruleDescriptor.index>);
Leave_<ruleName>();
<endif>
<memoize()>
<ruleScopeCleanUp()>
<finally>
}
DebugLocation(<ruleDescriptor.EORNode.line>, <ruleDescriptor.EORNode.charPositionInLine>);
} finally { DebugExitRule(GrammarFileName, "<ruleName>"); }
<@postamble()>
<returnFromRule()><\n>
}
// $ANTLR end "<ruleName>"
>>

```

```

catch(decl,action) ::= <<
catch (<e.decl>)
{
<e.action>
}
>>

```

```

ruleDeclarations() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<returnType()> retval = new <returnType()>();
retval.Start = (<labelType>)input.LT(1);<\n>
<else>
<ruleDescriptor.returnScope.attributes: { a |
<a.type> <a.name> = <if(a.initValue)><a.initValue><else><initValue(a.type)><endif>;
} >
<endif>
<if(memoize)>
int <ruleDescriptor.name>_startIndex = input.Index;
<endif>
>>

```

```

ruleScopeSetUp() ::= <<
<ruleDescriptor.useScopes: { <it>_stack.Push(new <it>_scope());<it>_scopeInit(<it>_stack.Peek());};
separator="\n">
<ruleDescriptor.ruleScope: { <it.name>_stack.Push(new
<it.name>_scope());<it.name>_scopeInit(<it.name>_stack.Peek());}; separator="\n">
>>

```

```

ruleScopeCleanUp() ::= <<
<ruleDescriptor.useScopes: { <it>_scopeAfter(<it>_stack.Peek());<it>_stack.Pop();}; separator="\n">
<ruleDescriptor.ruleScope: { <it.name>_scopeAfter(<it.name>_stack.Peek());<it.name>_stack.Pop();};
separator="\n">
>>

```

```

ruleLabelDefs() ::= <<
<[ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels,ruleDescriptor.wildcardTreeLabels,ruleDescriptor.wildcardTreeListLabels]
: { <labelType> <it.label.text>=null;}; separator="\n"
>
<[ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels,ruleDescriptor.wildcardTreeListLabels]
: {List list_<it.label.text>=null;}; separator="\n"
>
<ruleDescriptor.ruleLabels:ruleLabelDef(label=it); separator="\n">
<ruleDescriptor.ruleListLabels:ruleLabelDef(label=it); separator="\n">
>>

```

```

lexerRuleLabelDefs() ::= <<

```

```

<[ruleDescriptor.tokenLabels,
ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleLabels]
  :{<labelType> <it.label.text>=null;}; separator="\n"
>
<ruleDescriptor.charLabels:{int <it.label.text>;}; separator="\n">
<[ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleListLabels]
  :{List list_<it.label.text>=null;}; separator="\n"
>
>>

returnFromRule() ::= <<
return<if(!ruleDescriptor.isSynPred)>
<if(ruleDescriptor.hasReturnValue)>
<if(ruleDescriptor.hasSingleReturnValue)>
<! This comment is a hack to make sure the following
single space appears in the output. !> <ruleDescriptor.singleValueReturnName>
<else>
retval
<endif>
<endif>
<endif>
;
>>

ruleCleanUp() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<if(!TREE_PARSER)>
retval.Stop = (<labelType>)input.LT(-1);<\n>
<endif>
<endif>
>>

memoize() ::= <<
<if(memoize)>
<if(backtracking)>
if (state.backtracking > 0) { Memoize(input, <ruleDescriptor.index>, <ruleDescriptor.name>_StartIndex); }
<endif>
<endif>
>>

/** How to generate a rule in the lexer; naked blocks are used for
 * fragment rules.
 */
lexerRule(ruleName,nakedBlock,ruleDescriptor,block,memoize) ::= <<
protected virtual void Enter_<ruleName>() {}
protected virtual void Leave_<ruleName>() {}

```

```

// $ANTLR start "<ruleName>"
[GrammarRule("<ruleName>")]
<csharpVisibilityMap.(ruleDescriptor.modifier); null="private"> void
m<ruleName>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>)
{
<if(trace)>
Enter_<ruleName>();
EnterRule("<ruleName>", <ruleDescriptor.index>);
TraceIn("<ruleName>", <ruleDescriptor.index>);
<endif>
<ruleScopeSetUp()>
<ruleDeclarations()>
try
{
<if(nakedBlock)>
<ruleMemoization(name=ruleName)>
<lexerRuleLabelDefs()>
<ruleDescriptor.actions.init>
<block><\n>
<else>
int _type = <ruleName>;
int _channel = DefaultTokenChannel;
<ruleMemoization(name=ruleName)>
<lexerRuleLabelDefs()>
<ruleDescriptor.actions.init>
<block>
<ruleCleanUp()>
state.type = _type;
state.channel = _channel;
<(ruleDescriptor.actions.after):execAction()>
<endif>
}
finally
{
<if(trace)>
TraceOut("<ruleName>", <ruleDescriptor.index>);
LeaveRule("<ruleName>", <ruleDescriptor.index>);
Leave_<ruleName>();
<endif>
<ruleScopeCleanUp()>
<memoize()>
}
}
// $ANTLR end "<ruleName>"
>>

```

/** How to generate code for the implicitly-defined lexer grammar rule

```

* that chooses between lexer rules.
*/
tokensRule(ruleName,nakedBlock,args,block,ruleDescriptor) ::= <<
public override void mTokens()
{
    <block><\n>
}
>>

// S U B R U L E S

/** A (...) subrule with multiple alternatives */
block(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// <fileName>:<description>
int alt<decisionNumber>=<maxAlt>;
<decls>
<@predecision()>
try { DebugEnterSubRule(<decisionNumber>);
try { DebugEnterDecision(<decisionNumber>, decisionCanBacktrack[<decisionNumber>]);
<decision>
} finally { DebugExitDecision(<decisionNumber>); }
<@postdecision()>
<@prebranch()>
switch (alt<decisionNumber>)
{
    <alts:altSwitchCase()>
}
} finally { DebugExitSubRule(<decisionNumber>); }
<@postbranch()>
>>

/** A rule block with multiple alternatives */
ruleBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// <fileName>:<description>
int alt<decisionNumber>=<maxAlt>;
<decls>
<@predecision()>
try { DebugEnterDecision(<decisionNumber>, decisionCanBacktrack[<decisionNumber>]);
<decision>
} finally { DebugExitDecision(<decisionNumber>); }
<@postdecision()>
switch (alt<decisionNumber>)
{
    <alts:altSwitchCase()>
}
>>

ruleBlockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<

```

```

// <fileName>:<description>
<decls>
<@prealt()>
DebugEnterAlt(1);
<alts>
<@postalt()>
>>

/** A special case of a (...) subrule with a single alternative */
blockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
// <fileName>:<description>
<decls>
<@prealt()>
DebugEnterAlt(1);
<alts>
<@postalt()>
>>

/** A (..)+ block with 1 or more alternatives */
positiveClosureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// <fileName>:<description>
int cnt<decisionNumber>=0;
<decls>
<@preloop()>
try { DebugEnterSubRule(<decisionNumber>);
while (true)
{
int alt<decisionNumber>=<maxAlt>;
<@predecision()>
try { DebugEnterDecision(<decisionNumber>, decisionCanBacktrack[<decisionNumber>]);
<decision>
} finally { DebugExitDecision(<decisionNumber>); }
<@postdecision()>
switch (alt<decisionNumber>)
{
<alts:altSwitchCase()>
default:
if (cnt<decisionNumber> >= 1)
goto loop<decisionNumber>;

<ruleBacktrackFailure()>
EarlyExitException eee<decisionNumber> = new EarlyExitException( <decisionNumber>, input );
DebugRecognitionException(eee<decisionNumber>);
<@earlyExitException()>
throw eee<decisionNumber>;
}
cnt<decisionNumber>++;

```

```

}
loop<decisionNumber>:
;

} finally { DebugExitSubRule(<decisionNumber>); }
<@postloop()>
>>

positiveClosureBlockSingleAlt ::= positiveClosureBlock

/** A (..)* block with 1 or more alternatives */
closureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::=
<<
// <fileName>:<description>
<decls>
<@preloop()>
try { DebugEnterSubRule(<decisionNumber>);
while (true)
{
int alt<decisionNumber>=<maxAlt>;
<@predecision()>
try { DebugEnterDecision(<decisionNumber>, decisionCanBacktrack[<decisionNumber>]);
<decision>
} finally { DebugExitDecision(<decisionNumber>); }
<@postdecision()>
switch ( alt<decisionNumber> )
{
<alts:altSwitchCase()>
default:
goto loop<decisionNumber>;
}
}
}

loop<decisionNumber>:
;

} finally { DebugExitSubRule(<decisionNumber>); }
<@postloop()>
>>

closureBlockSingleAlt ::= closureBlock

/** Optional blocks (x)? are translated to (x|) by before code generation
* so we can just use the normal block template
*/
optionalBlock ::= block

optionalBlockSingleAlt ::= block

```



```

/** A case in a switch that jumps to an alternative given the alternative
 * number. A DFA predicts the alternative and then a simple switch
 * does the jump to the code that actually matches that alternative.
 */
altSwitchCase() ::= <<
case <i>:
  <@prealt(>
  DebugEnterAlt(<i>);
  <it>
  break;<\n>
>>

/** An alternative is just a list of elements; at outermost level */
alt(elements,altNum,description,autoAST,outerAlt,treeLevel,rew) ::= <<
// <fileName>:<description>
{
  <@declarations(>
  <elements:element(>
  <rew>
  <@cleanup(>
  }
>>

/** What to emit when there is no rewrite. For auto build
 * mode, does nothing.
 */
noRewrite(rewriteBlockLevel, treeLevel) ::= ""

// E L E M E N T S

/** Dump the elements one per line */
element() ::= <<
  <@prematch(>
  DebugLocation(<it.line>, <it.pos>);
  <it.el><\n>
>>

/** match a token optionally with a label in front */
tokenRef(token,label,elementIndex,hetero) ::= <<
  <if(label)><label>=<(<labelType>)<endif>Match(input,<token>,Follow._<token>_in_<ruleName><elementIndex>);
  <checkRuleBacktrackFailure(>
>>

/** ids+=ID */
tokenRefAndListLabel(token,label,elementIndex,hetero) ::= <<
  <tokenRef(...>
  <listLabel(elem=label,...>

```

```
>>
```

```
listLabel(label,elem) ::= <<  
if (list_<label>==null) list_<label>=new ArrayList();  
list_<label>.Add(<elem>);<\n>  
>>
```

```
/** match a character */  
charRef(char,label) ::= <<  
<if(label)>  
<label> = input.LA(1);<\n>  
<endif>  
Match(<char>); <checkRuleBacktrackFailure()>  
>>
```

```
/** match a character range */  
charRangeRef(a,b,label) ::= <<  
<if(label)>  
<label> = input.LA(1);<\n>  
<endif>  
MatchRange(<a>,<b>); <checkRuleBacktrackFailure()>  
>>
```

```
/** For now, sets are interval tests and must be tested inline */  
matchSet(s,label,elementIndex,postmatchCode="") ::= <<  
<if(label)>  
<if(LEXER)>  
<label>= input.LA(1);<\n>  
<else>  
<label>=(<labelType>)input.LT(1);<\n>  
<endif>  
<endif>  
if (<s>)  
{  
input.Consume();  
<postmatchCode>  
<if(!LEXER)>  
state.errorRecovery=false;  
<endif>  
<if(backtracking)>state.failed=false;<endif>  
}  
else  
{  
<ruleBacktrackFailure()>  
MismatchedSetException mse = new MismatchedSetException(null,input);  
DebugRecognitionException(mse);  
<@mismatchedSetException()>  
<if(LEXER)>
```

```

Recover(mse);
throw mse;
<else>
throw mse;
<! use following code to make it recover inline; remove throw mse;
recoverFromMismatchedSet(input,mse,Follow._set_in_<ruleName><elementIndex>);
!>
<endif>
}<\n>
>>

```

```

matchSetUnchecked(s,label,elementIndex,postmatchCode="") ::= <<
<if(label)>
<if(LEXER)>
<label>= input.LA(1);<\n>
<else>
<label>=(<labelType>)input.LT(1);<\n>
<endif>
<endif>
input.Consume();
<postmatchCode>
<if(!LEXER)>
state.errorRecovery=false;
<endif>
<if(backtracking)>state.failed=false;<endif>
>>

```

```

matchRuleBlockSet ::= matchSet

```

```

matchSetAndListLabel(s,label,elementIndex,postmatchCode) ::= <<
<matchSet(...)>
<listLabel(elem=label,...)>
>>

```

```

/** Match a string literal */
lexerStringRef(string,label,elementIndex) ::= <<
<if(label)>
int <label>Start = CharIndex;
Match(<string>); <checkRuleBacktrackFailure()>
int <label>StartLine<elementIndex> = Line;
int <label>StartCharPos<elementIndex> = CharPositionInLine;
<label> = new <labelType>(input, TokenType.Invalid, TokenChannels.Default, <label>Start, CharIndex-1);
<label>.Line = <label>StartLine<elementIndex>;
<label>.CharPositionInLine = <label>StartCharPos<elementIndex>;
<else>
Match(<string>); <checkRuleBacktrackFailure()><\n>
<endif>
>>

```

```
wildcard(label,elementIndex) ::= <<
<if(label)>
<label>=(<labelType>)input.LT(1);<\n>
<endif>
MatchAny(input); <checkRuleBacktrackFailure()>
>>
```

```
wildcardAndListLabel(label,elementIndex) ::= <<
<wildcard(...)>
<listLabel(elem=label,...)>
>>
```

```
/** Match . wildcard in lexer */
wildcardChar(label, elementIndex) ::= <<
<if(label)>
<label> = input.LA(1);<\n>
<endif>
MatchAny(); <checkRuleBacktrackFailure()>
>>
```

```
wildcardCharListLabel(label, elementIndex) ::= <<
<wildcardChar(...)>
<listLabel(elem=label,...)>
>>
```

```
/** Match a rule reference by invoking it possibly with arguments
 * and a return value or values. The 'rule' argument was the
 * target rule name, but now is type Rule, whose toString is
 * same: the rule name. Now though you can access full rule
 * descriptor stuff.
 */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
PushFollow(Follow._<rule.name>_in_<ruleName><elementIndex>);
<if(label)><label>=<endif><if(scope)><scope.delegateName()>.<endif><rule.name>(<args; separator=", ">);
PopFollow();
<checkRuleBacktrackFailure()>
>>
```

```
/** ids+=r */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>
<listLabel(elem=label,...)>
>>
```

```
/** A lexer rule reference.
 *
 * The 'rule' argument was the target rule name, but now
```

```

* is type Rule, whose toString is same: the rule name.
* Now though you can access full rule descriptor stuff.
*/
lexerRuleRef(rule,label,args,elementIndex,scope) ::= <<
<if(label)>
int <label>Start<elementIndex> = CharIndex;
int <label>StartLine<elementIndex> = Line;
int <label>StartCharPos<elementIndex> = CharPositionInLine;
<if(scope)><scope:delegateName().<endif>m<rule.name><(args; separator=" ">);
<checkRuleBacktrackFailure()>
<label> = new <labelType>(input, TokenType.Invalid, TokenChannels.Default, <label>Start<elementIndex>,
CharIndex-1);
<label>.Line = <label>StartLine<elementIndex>;
<label>.CharPositionInLine = <label>StartCharPos<elementIndex>;
<else>
<if(scope)><scope:delegateName().<endif>m<rule.name><(args; separator=" ">);
<checkRuleBacktrackFailure()>
<endif>
>>

/** i+=INT in lexer */
lexerRuleRefAndListLabel(rule,label,args,elementIndex,scope) ::= <<
<lexerRuleRef(...)>
<listLabel(elem=label,...)>
>>

/** EOF in the lexer */
lexerMatchEOF(label,elementIndex) ::= <<
<if(label)>
int <label>Start<elementIndex> = CharIndex;
int <label>StartLine<elementIndex> = Line;
int <label>StartCharPos<elementIndex> = CharPositionInLine;
Match(EOF); <checkRuleBacktrackFailure()>
<labelType> <label> = new <labelType>(input, EOF, TokenChannels.Default, <label>Start<elementIndex>,
CharIndex-1);
<label>.Line = <label>StartLine<elementIndex>;
<label>.CharPositionInLine = <label>StartCharPos<elementIndex>;
<else>
Match(EOF); <checkRuleBacktrackFailure()>
<endif>
>>

/** match ^(root children) in tree parser */
tree(root, actionsAfterRoot, children, nullableChildList,
enclosingTreeLevel, treeLevel) ::= <<
<root:element()>
<actionsAfterRoot:element()>
<if(nullableChildList)>

```

```

if (input.LA(1) == TokenTypes.Down)
{
    Match(input, TokenTypes.Down, null); <checkRuleBacktrackFailure()>
    <children:element()>
    Match(input, TokenTypes.Up, null); <checkRuleBacktrackFailure()>
}
<else>
Match(input, TokenTypes.Down, null); <checkRuleBacktrackFailure()>
<children:element()>
Match(input, TokenTypes.Up, null); <checkRuleBacktrackFailure()>
<endif>
>>

/** Every predicate is used as a validating predicate (even when it is
 * also hoisted into a prediction expression).
 */
validateSemanticPredicate(pred,description) ::= <<
if (!(<evalPredicate(...)>))
{
    <ruleBacktrackFailure()>
    throw new FailedPredicateException(input, "<ruleName>", "<description>");
}
>>

// F i x e d D F A (if-then-else)

dfaState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
int LA<decisionNumber>_<stateNumber> = input.LA(<k>);<\n>
<edges; separator="\nelse ">
else
{
    <if(eotPredictsAlt)>
    alt<decisionNumber>=<eotPredictsAlt>;
    <else>
    <ruleBacktrackFailure()>
    NoViableAltException nvae = new NoViableAltException("<description>", <decisionNumber>, <stateNumber>,
input);<\n>
    DebugRecognitionException(nvae);
    <@noViableAltException()>
    throw nvae;<\n>
    <endif>
}
>>

/** Same as a normal DFA state except that we don't examine lookahead
 * for the bypass alternative. It delays error detection but this
 * is faster, smaller, and more what people expect. For (X)? people
 * expect "if ( LA(1)==X ) match(X);" and that's it.

```

```

*/
dfaOptionalBlockState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
int LA<decisionNumber>_<stateNumber> = input.LA(<k>);<\n>
<edges; separator="\nelse ">
>>

/** A DFA state that is actually the loopback decision of a closure
* loop. If end-of-token (EOT) predicts any of the targets then it
* should act like a default clause (i.e., no error can be generated).
* This is used only in the lexer so that for ('a'* on the end of a rule
* anything other than 'a' predicts exiting.
*/
*/
dfaLoopbackState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
int LA<decisionNumber>_<stateNumber> = input.LA(<k>);<\n>
<edges; separator="\nelse "><\n>
<if(eotPredictsAlt)>
<if(!edges)>
alt<decisionNumber>=<eotPredictsAlt>; <! if no edges, don't gen ELSE !>
<else>
else
{
alt<decisionNumber>=<eotPredictsAlt>;
}<\n>
<endif>
<endif>
>>

/** An accept state indicates a unique alternative has been predicted */
dfaAcceptState(alt) ::= "alt<decisionNumber>=<alt>";

/** A simple edge with an expression. If the expression is satisfied,
* enter to the target state. To handle gated productions, we may
* have to evaluate some predicates for this edge.
*/
*/
dfaEdge(labelExpr, targetState, predicates) ::= <<
if ((<labelExpr>)<if(predicates)> && (<predicates>)<endif>)
{
<targetState>
}
>>

// F i x e d D F A (switch case)

/** A DFA state where a SWITCH may be generated. The code generator
* decides if this is possible: CodeGenerator.canGenerateSwitch().
*/
*/
dfaStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch (input.LA(<k>))

```

```

{
<edges; separator="\n">
default:
<if(eotPredictsAlt)>
alt<decisionNumber>=<eotPredictsAlt>;
break;<\n>
<else>
{
<ruleBacktrackFailure()>
NoViableAltException nvae = new NoViableAltException("<description>", <decisionNumber>, <stateNumber>,
input);<\n>
DebugRecognitionException(nvae);
<@noViableAltException()>
throw nvae;
}<\n>
<endif>
}<\n>
>>

dfaOptionalBlockStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch (input.LA(<k>))
{
<edges; separator="\n">
}<\n>
>>

dfaLoopbackStateSwitch(k, edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch (input.LA(<k>))
{
<edges; separator="\n"><\n>
<if(eotPredictsAlt)>
default:
alt<decisionNumber>=<eotPredictsAlt>;
break;<\n>
<endif>
}<\n>
>>

dfaEdgeSwitch(labels, targetState) ::= <<
<labels: { case <it>: }; separator="\n">
{
<targetState>
}
break;
>>

// C y c l i c D F A

```



```

/** The code to initiate execution of a cyclic DFA; this is used
 * in the rule to predict an alt just like the fixed DFA case.
 * The <name> attribute is inherited via the parser, lexer, ...
 */
dfaDecision(decisionNumber,description) ::= <<
try
{
alt<decisionNumber> = dfa<decisionNumber>.Predict(input);
}
catch (NoViableAltException nvae)
{
DebugRecognitionException(nvae);
throw;
}
>>

/* Dump DFA tables as run-length-encoded Strings of octal values.
 * Can't use hex as compiler translates them before compilation.
 * These strings are split into multiple, concatenated strings.
 * Java puts them back together at compile time thankfully.
 * Java cannot handle large static arrays, so we're stuck with this
 * encode/decode approach. See analysis and runtime DFA for
 * the encoding methods.
 */
cyclicDFA(dfa) ::= <<
private class DFA<dfa.decisionNumber> : DFA
{
private const string DFA<dfa.decisionNumber>_eotS =
"<dfa.javaCompressedEOT; wrap="+\n\t\t\t"">";
private const string DFA<dfa.decisionNumber>_eofS =
"<dfa.javaCompressedEOF; wrap="+\n\t\t\t"">";
private const string DFA<dfa.decisionNumber>_minS =
"<dfa.javaCompressedMin; wrap="+\n\t\t\t"">";
private const string DFA<dfa.decisionNumber>_maxS =
"<dfa.javaCompressedMax; wrap="+\n\t\t\t"">";
private const string DFA<dfa.decisionNumber>_acceptS =
"<dfa.javaCompressedAccept; wrap="+\n\t\t\t"">";
private const string DFA<dfa.decisionNumber>_specialS =
"<dfa.javaCompressedSpecial; wrap="+\n\t\t\t"">}>";
private static readonly string[] DFA<dfa.decisionNumber>_transitionS =
{
<dfa.javaCompressedTransition:{s|"<s; wrap="+\n\t\t\t"">"; separator=",\n">
};

private static readonly short[] DFA<dfa.decisionNumber>_eot =
DFA.UnpackEncodedString(DFA<dfa.decisionNumber>_eotS);
private static readonly short[] DFA<dfa.decisionNumber>_eof =
DFA.UnpackEncodedString(DFA<dfa.decisionNumber>_eofS);

```

```

private static readonly char[] DFA<dfa.decisionNumber>_min =
DFA.UnpackEncodedStringToUnsignedChars(DFA<dfa.decisionNumber>_minS);
private static readonly char[] DFA<dfa.decisionNumber>_max =
DFA.UnpackEncodedStringToUnsignedChars(DFA<dfa.decisionNumber>_maxS);
private static readonly short[] DFA<dfa.decisionNumber>_accept =
DFA.UnpackEncodedString(DFA<dfa.decisionNumber>_acceptS);
private static readonly short[] DFA<dfa.decisionNumber>_special =
DFA.UnpackEncodedString(DFA<dfa.decisionNumber>_specialS);
private static readonly short[][] DFA<dfa.decisionNumber>_transition;

static DFA<dfa.decisionNumber>()
{
    int numStates = DFA<dfa.decisionNumber>_transitionS.Length;
    DFA<dfa.decisionNumber>_transition = new short[numStates][];
    for ( int i=0; i < numStates; i++ )
    {
        DFA<dfa.decisionNumber>_transition[i] =
DFA.UnpackEncodedString(DFA<dfa.decisionNumber>_transitionS[i]);
    }
}

public DFA<dfa.decisionNumber>( BaseRecognizer recognizer<if(dfa.specialStateSTs)>,
SpecialStateTransitionHandler specialStateTransition<endif> )
<if(dfa.specialStateSTs)>
    : base(specialStateTransition)<\n>
<endif>
{
    this.recognizer = recognizer;
    this.decisionNumber = <dfa.decisionNumber>;
    this.eot = DFA<dfa.decisionNumber>_eot;
    this.eof = DFA<dfa.decisionNumber>_eof;
    this.min = DFA<dfa.decisionNumber>_min;
    this.max = DFA<dfa.decisionNumber>_max;
    this.accept = DFA<dfa.decisionNumber>_accept;
    this.special = DFA<dfa.decisionNumber>_special;
    this.transition = DFA<dfa.decisionNumber>_transition;
}

public override string Description { get { return "<dfa.description>"; } }

public override void Error(NoViableAltException nvae)
{
    DebugRecognitionException(nvae);
}
}<\n>
<if(dfa.specialStateSTs)>
private int SpecialStateTransition<dfa.decisionNumber>(DFA dfa, int s, IIntStream _input)<! throws
NoViableAltException!>

```

```

{
<if(LEXER)>
  IIntStream input = _input;
<endif>
<if(PARSER)>
  ITokenStream input = (ITokenStream)_input;
<endif>
<if(TREE_PARSER)>
  ITreeNodeStream input = (ITreeNodeStream)_input;
<endif>
  int _s = s;
  switch (s)
  {
    <dfa.specialStateSTs:{state |
  case <i0>:<! compressed special state numbers 0..n-1 !>
    <state>}; separator="\n">
    }
    <if(backtracking)>
    if (state.backtracking > 0) {state.failed=true; return -1;}<\n>
    <endif>
    NoViableAltException nvae = new NoViableAltException(dfa.Description, <dfa.decisionNumber>, _s, input);
    dfa.Error(nvae);
    throw nvae;
  }<\n>
  <endif>
  >>

  /** A state in a cyclic DFA; it's a special state and part of a big switch on
  * state.
  */
  cyclicDFAState(decisionNumber,stateNumber,edges,needErrorClause,semPredState) ::= <<
  int LA<decisionNumber>_<stateNumber> = input.LA(1);<\n>
  <if(semPredState)><! get next lookahead symbol to test edges, then rewind !>
  int index<decisionNumber>_<stateNumber> = input.Index;
  input.Rewind();<\n>
  <endif>
  s = -1;
  <edges; separator="\nelse ">
  <if(semPredState)><! return input cursor to state before we rewound !>
  input.Seek(index<decisionNumber>_<stateNumber>);<\n>
  <endif>
  if ( s>=0 ) return s;
  break;
  >>

  /** Just like a fixed DFA edge, test the lookahead and indicate what
  * state to jump to next if successful.
  */

```

```

cyclicDFAEdge(labelExpr, targetStateNumber, edgeNumber, predicates) ::= <<
if ( (<labelExpr> <if(predicates)>&& (<predicates>)<endif>) {s = <targetStateNumber>;}<\n>
>>

/** An edge pointing at end-of-token; essentially matches any char;
 * always jump to the target.
 */
eotDFAEdge(targetStateNumber,edgeNumber, predicates) ::= <<
s = <targetStateNumber>;<\n>
>>

// D F A E X P R E S S I O N S

andPredicates(left,right) ::= "(<left>&&<right>)"

orPredicates(operands) ::= "(<first(operands)><rest(operands):{o | ||<o>}>)"

notPredicate(pred) ::= "!(<evalPredicate(...)>)"

evalPredicate(pred,description) ::= "(<pred>)"

evalSynPredicate(pred,description) ::= "EvaluatePredicate(<pred>_fragment)"

lookaheadTest(atom,k,atomAsInt) ::= "LA<decisionNumber>_<stateNumber>==<atom>"

/** Sometimes a lookahead test cannot assume that LA(k) is in a temp variable
 * somewhere. Must ask for the lookahead directly.
 */
isolatedLookaheadTest(atom,k,atomAsInt) ::= "input.LA(<k>)==<atom>"

lookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= <<
(LA<decisionNumber>_<stateNumber>)\>=<lower> && LA<decisionNumber>_<stateNumber>\<=<upper>)
>>

isolatedLookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= "(input.LA(<k>)\>=<lower>
&& input.LA(<k>)\<=<upper>)"

setTest(ranges) ::= "<ranges; separator=\\\"\\\">"

// A T T R I B U T E S

attributeScope(scope) ::= <<
<if(scope.attributes)>
protected class <scope.name>_scope
{
<scope.attributes:{public <it.decl>;}; separator="\n">
}

```

```

<if(scope.actions.scopeinit)>
protected void <scope.name>_scopeInit( <scope.name>_scope scope )
{
  <scope.actions.scopeinit>
}<\n>
<else>
void <scope.name>_scopeInit( <scope.name>_scope scope ) {}<\n>
<endif>
<if(scope.actions.scopeafter)>
protected void <scope.name>_scopeAfter( <scope.name>_scope scope )
{
  <scope.actions.scopeafter>
}<\n>
<else>
void <scope.name>_scopeAfter( <scope.name>_scope scope ) {}<\n>
<endif>
protected Stack<<<scope.name>_scope> <scope.name>_stack = new Stack<<<scope.name>_scope>();<\n>
<endif>
>>

globalAttributeScope(scope) ::= <<
<attributeScope(...)>
>>

ruleAttributeScope(scope) ::= <<
<attributeScope(...)>
>>

returnStructName() ::= "<it.name>_return"

returnType() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<ruleDescriptor.grammar.recognizerName>.<ruleDescriptor:returnStructName()>
<else>
<if(ruleDescriptor.hasSingleReturnValue)>
<ruleDescriptor.singleValueReturnType>
<else>
void
<endif>
<endif>
>>

/** Generate the C# type associated with a single or multiple return
 * values.
 */
ruleLabelType(referencedRule) ::= <<
<if(referencedRule.hasMultipleReturnValues)>
<referencedRule.grammar.recognizerName>.<referencedRule.name>_return

```

```

<else>
<if(referencedRule.hasSingleReturnValue)>
<referencedRule.singleValueReturnType>
<else>
void
<endif>
<endif>
>>

delegateName() ::= <<
<if(it.label)><it.label><else>g<it.name><endif>
>>

/** Using a type to init value map, try to init a type; if not in table
 * must be an object, default value is "null".
 */
initValue(typeName) ::= <<
default(<typeName>)
>>

/** Define a rule label including default value */
ruleLabelDef(label) ::= <<
<ruleLabelType(referencedRule=label.referencedRule)> <label.label.text> =
<initValue(typeName=ruleLabelType(referencedRule=label.referencedRule))>;
>>

/** Define a return struct for a rule if the code needs to access its
 * start/stop tokens, tree stuff, attributes, ... Leave a hole for
 * subgroups to stick in members.
 */
returnScope(scope) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
public class <ruleDescriptor:returnStructName()> :
<if(TREE_PARSER)>Tree<else>Parser<endif>RuleReturnScope\<<labelType>\<<@ruleReturnInterfaces()>
{
<scope.attributes:{ public <it.decl>;}; separator="\n">
<@ruleReturnMembers()>
}
<endif>
>>

parameterScope(scope) ::= <<
<scope.attributes:{<it.decl>;}; separator=", ">
>>

parameterAttributeRef(attr) ::= "<attr.name>"
parameterSetAttributeRef(attr,expr) ::= "<attr.name> =<expr>";"

```

```

scopeAttributeRef(scope,attr,index,negIndex) ::= <<
<if(negIndex)>
((<scope>_scope)<scope>_stack.elementAt(<scope>_stack.size()-<negIndex>-1)).<attr.name>
<else>
<if(index)>
((<scope>_scope)<scope>_stack.elementAt(<index>)).<attr.name>
<else>
((<scope>_scope)<scope>_stack.Peek()).<attr.name>
<endif>
<endif>
>>

scopeSetAttributeRef(scope,attr,expr,index,negIndex) ::= <<
<if(negIndex)>
((<scope>_scope)<scope>_stack.elementAt(<scope>_stack.size()-<negIndex>-1)).<attr.name> =<expr>;
<else>
<if(index)>
((<scope>_scope)<scope>_stack.elementAt(<index>)).<attr.name> =<expr>;
<else>
((<scope>_scope)<scope>_stack.Peek()).<attr.name> =<expr>;
<endif>
<endif>
>>

/** $x is either global scope or x is rule with dynamic scope; refers
 * to stack itself not top of stack. This is useful for predicates
 * like {$function.size()>0 && $function::name.equals("foo")}?
 */
isolatedDynamicScopeRef(scope) ::= "<scope>_stack"

/** reference an attribute of rule; might only have single return value */
ruleLabelRef(referencedRule,scope,attr) ::= <<
<if(referencedRule.hasMultipleReturnValues)>
(<scope>!=null?<scope>.<attr.name>:<initValue(attr.type)>)
<else>
<scope>
<endif>
>>

returnAttributeRef(ruleDescriptor,attr) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
retval.<attr.name>
<else>
<attr.name>
<endif>
>>

returnSetAttributeRef(ruleDescriptor,attr,expr) ::= <<

```

```

<if(ruleDescriptor.hasMultipleReturnValues)>
retval.<attr.name> =<expr>;
<else>
<attr.name> =<expr>;
<endif>
>>

/** How to translate $tokenLabel */
tokenLabelRef(label) ::= "<label>"

/** ids+=ID {$ids} or e+=expr {$e} */
listLabelRef(label) ::= "list_<label>"

// not sure the next are the right approach

tokenLabelPropertyRef_text(scope,attr) ::= "(<scope>!=null?<scope>.Text:null)"
tokenLabelPropertyRef_type(scope,attr) ::= "(<scope>!=null?<scope>.Type:0)"
tokenLabelPropertyRef_line(scope,attr) ::= "(<scope>!=null?<scope>.Line:0)"
tokenLabelPropertyRef_pos(scope,attr) ::= "(<scope>!=null?<scope>.CharPositionInLine:0)"
tokenLabelPropertyRef_channel(scope,attr) ::= "(<scope>!=null?<scope>.Channel:0)"
tokenLabelPropertyRef_index(scope,attr) ::= "(<scope>!=null?<scope>.TokenIndex:0)"
tokenLabelPropertyRef_tree(scope,attr) ::= "<scope>_tree"
tokenLabelPropertyRef_int(scope,attr) ::= "(<scope>!=null?int.Parse(<scope>.Text):0)"

ruleLabelPropertyRef_start(scope,attr) ::= "(<scope>!=null?((<labelType><scope>.Start):null)"
ruleLabelPropertyRef_stop(scope,attr) ::= "(<scope>!=null?((<labelType><scope>.Stop):null)"
ruleLabelPropertyRef_tree(scope,attr) ::= "(<scope>!=null?((<ASTLabelType><scope>.Tree):null)"
ruleLabelPropertyRef_text(scope,attr) ::= <<
<if(TREE_PARSER)>
(<scope>!=null?(input.TokenStream.ToString(
input.TreeAdaptor.GetTokenStartIndex(<scope>.Start),
input.TreeAdaptor.GetTokenStopIndex(<scope>.Start))):null)
<else>
(<scope>!=null?input.ToString(<scope>.Start,<scope>.Stop):null)
<endif>
>>

ruleLabelPropertyRef_st(scope,attr) ::= "(<scope>!=null?<scope>.ST:null)"

/** Isolated $RULE ref ok in lexer as it's a Token */
lexerRuleLabel(label) ::= "<label>"

lexerRuleLabelPropertyRef_type(scope,attr) ::=
"(<scope>!=null?<scope>.Type:0)"

lexerRuleLabelPropertyRef_line(scope,attr) ::=
"(<scope>!=null?<scope>.Line:0)"

```



```

lexerRuleLabelPropertyRef_pos(scope,attr) ::=
    "<scope>!=null?<scope>.CharPositionInLine:-1)"

lexerRuleLabelPropertyRef_channel(scope,attr) ::=
    "<scope>!=null?<scope>.Channel:0)"

lexerRuleLabelPropertyRef_index(scope,attr) ::=
    "<scope>!=null?<scope>.TokenIndex:0)"

lexerRuleLabelPropertyRef_text(scope,attr) ::=
    "<scope>!=null?<scope>.Text:null)"

lexerRuleLabelPropertyRef_int(scope,attr) ::=
    "<scope>!=null?int.Parse(<scope>.Text):0)"

// Somebody may ref $template or $tree or $stop within a rule:
rulePropertyRef_start(scope,attr) ::= "retval.Start"
rulePropertyRef_stop(scope,attr) ::= "retval.Stop"
rulePropertyRef_tree(scope,attr) ::= "retval.Tree"
rulePropertyRef_text(scope,attr) ::= <<
<if(TREE_PARSER)>
input.TokenStream.ToString(
    input.TreeAdaptor.GetTokenStartIndex(retval.Start),
    input.TreeAdaptor.GetTokenStopIndex(retval.Start))
<else>
input.ToString(retval.Start,input.LT(-1))
<endif>
>>
rulePropertyRef_st(scope,attr) ::= "retval.ST"

lexerRulePropertyRef_text(scope,attr) ::= "Text"
lexerRulePropertyRef_type(scope,attr) ::= "_type"
lexerRulePropertyRef_line(scope,attr) ::= "state.tokenStartLine"
lexerRulePropertyRef_pos(scope,attr) ::= "state.tokenStartCharPositionInLine"
lexerRulePropertyRef_index(scope,attr) ::= "-1" // undefined token index in lexer
lexerRulePropertyRef_channel(scope,attr) ::= "_channel"
lexerRulePropertyRef_start(scope,attr) ::= "state.tokenStartCharIndex"
lexerRulePropertyRef_stop(scope,attr) ::= "(CharIndex-1)"
lexerRulePropertyRef_int(scope,attr) ::= "int.Parse(<scope>.Text)"

// setting $st and $tree is allowed in local rule. everything else
// is flagged as error
ruleSetPropertyRef_tree(scope,attr,expr) ::= "retval.Tree = <expr>;"
ruleSetPropertyRef_st(scope,attr,expr) ::= "retval.ST =<expr>;"

/** How to execute an action (only when not backtracking) */
execAction(action) ::= <<

```

```

<if(backtracking)>
if ( <actions.(actionScope).synpredgate> )
{
<action>
}
<else>
<action>
<endif>
>>

/** How to always execute an action even when backtracking */
execForcedAction(action) ::= "<action>"

// M I S C (properties, etc...)

bitset(name, words64) ::= <<
public static readonly BitSet <name> = new BitSet(new ulong[] { <words64: { <it>UL }; separator=", "> }); <\n>
>>

codeFileExtension() ::= ".cs"

true() ::= "true"
false() ::= "false"

Found in path(s):
* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-
jar/org/antlr/codegen/templates/CSharp2/CSharp2.stg

```

1.73 d3-array 1.2.4

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1.74 d3-format 1.4.5

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1.75 aws-java-sdk-for-aws-kms 1.11.555

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sha@2.0.1

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(LGPL-2.0 or MIT)

xmldom@0.1.31

URL: <git://github.com/xmldom/xmldom.git>

VendorName: jindw

VendorUrl: <https://github.com/xmldom/xmldom>

(MIT AND JSON)

jshint@2.10.3

URL: <https://github.com/jshint/jshint.git>

VendorName: Anton Kovalyov

VendorUrl: <http://jshint.com/>

(MIT OR Apache-2.0)

ember-test-helpers@0.5.34

URL: <https://github.com/switchfly/ember-test-helpers.git>

(WTFPL OR MIT)

opener@1.4.3

URL: <https://github.com/domenic/opener.git>

VendorName: Domenic Denicola

VendorUrl: <https://domenic.me/>

path-is-inside@1.0.2

URL: <https://github.com/domenic/path-is-inside.git>

VendorName: Domenic Denicola

VendorUrl: <https://domenic.me>

Apache-2.0
aws-sign2@0.6.0
URL: <https://github.com/mikeal/aws-sign>
VendorName: Mikeal Rogers
VendorUrl: <http://www.futurealooof.com>

aws-sign2@0.7.0
URL: <https://github.com/mikeal/aws-sign>
VendorName: Mikeal Rogers
VendorUrl: <http://www.futurealooof.com>

bser@2.1.1
URL: <https://github.com/facebook/watchman>
VendorName: Wez Furlong
VendorUrl: <https://facebook.github.io/watchman/docs/bser.html>

caseless@0.11.0
URL: <https://github.com/mikeal/caseless>
VendorName: Mikeal Rogers

caseless@0.12.0
URL: <https://github.com/mikeal/caseless>
VendorName: Mikeal Rogers

fb-watchman@2.0.1
URL: <git@github.com:facebook/watchman.git>
VendorName: Wez Furlong
VendorUrl: <https://facebook.github.io/watchman/>

forever-agent@0.6.1
URL: <https://github.com/mikeal/forever-agent>
VendorName: Mikeal Rogers
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kew@0.7.0
URL: <https://github.com/Medium/kew.git>
VendorUrl: <https://github.com/Medium/kew>

less@2.7.3
URL: <https://github.com/less/less.js.git>
VendorName: Alexis Sellier
VendorUrl: <http://lesscss.org/>

oauth-sign@0.8.2
URL: <https://github.com/mikeal/oauth-sign>
VendorName: Mikeal Rogers
VendorUrl: <http://www.futurealooof.com>

oauth-sign@0.9.0
URL: <https://github.com/mikeal/oauth-sign>
VendorName: Mikeal Rogers
VendorUrl: <http://www.futurealooof.com>

phantomjs-prebuilt@2.1.13
URL: <git://github.com/Medium/phantomjs.git>
VendorName: Dan Pupius
VendorUrl: <https://github.com/Medium/phantomjs>

request@2.65.0
URL: <https://github.com/request/request.git>

VendorName: Mikeal Rogers
request@2.74.0
URL: <https://github.com/request/request.git>
VendorName: Mikeal Rogers
request@2.81.0
URL: <https://github.com/request/request.git>
VendorName: Mikeal Rogers
request@2.88.0
URL: <https://github.com/request/request.git>
VendorName: Mikeal Rogers
spdx-correct@3.1.0
URL: <https://github.com/jslicense/spdx-correct.js.git>
VendorName: Kyle E. Mitchell
VendorUrl: <https://kemitchell.com>
spdx@0.4.3
URL: <https://github.com/kemitchell/spdx.js.git>
VendorName: Kyle E. Mitchell
VendorUrl: <https://github.com/kemitchell/spdx.js>
true-case-path@1.0.3
URL: <git+https://github.com/barsh/true-case-path.git>
VendorName: barsh
VendorUrl: <https://github.com/barsh/true-case-path#readme>
tunnel-agent@0.4.3
URL: <https://github.com/mikeal/tunnel-agent>
VendorName: Mikeal Rogers
VendorUrl: <http://www.futurealooof.com>
tunnel-agent@0.6.0
URL: <https://github.com/mikeal/tunnel-agent>
VendorName: Mikeal Rogers
VendorUrl: <http://www.futurealooof.com>
validate-npm-package-license@3.0.4
URL: <https://github.com/kemitchell/validate-npm-package-license.js.git>
VendorName: Kyle E. Mitchell
VendorUrl: <https://kemitchell.com>
walker@1.0.7
URL: <https://github.com/daaku/nodejs-walker>
VendorName: Naitik Shah
VendorUrl: <https://github.com/daaku/nodejs-walker>
websocket-driver@0.7.3
URL: <git://github.com/faye/websocket-driver-node.git>
VendorName: James Coglan
VendorUrl: <https://github.com/faye/websocket-driver-node>
workerpool@2.3.3
URL: <git://github.com/josdejong/workerpool.git>
VendorName: Jos de Jong
VendorUrl: <https://github.com/josdejong/workerpool>
Apache*
watch@0.10.0

URL: [git://github.com/mikeal/watch.git](https://github.com/mikeal/watch.git)
VendorName: Mikeal Rogers
VendorUrl: <https://github.com/mikeal/watch>

Artistic-2.0
npm@2.14.10
URL: <https://github.com/npm/npm>
VendorName: Isaac Z. Schlueter
VendorUrl: <https://docs.npmjs.com/>

BSD
graceful-fs@2.0.3
URL: [git://github.com/isaacs/node-graceful-fs.git](https://github.com/isaacs/node-graceful-fs.git)
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me>

mute-stream@0.0.4
URL: [git://github.com/isaacs/mute-stream](https://github.com/isaacs/mute-stream)
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

osenv@0.0.3
URL: [git://github.com/isaacs/osenv](https://github.com/isaacs/osenv)
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

tar@1.0.3
URL: [git://github.com/isaacs/node-tar.git](https://github.com/isaacs/node-tar.git)
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

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cmd-shim@2.0.2
URL: <https://github.com/ForbesLindesay/cmd-shim.git>

configstore@1.2.1
URL: <https://github.com/yeoman/configstore.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

domelementtype@1.3.1
URL: [git://github.com/fb55/domelementtype.git](https://github.com/fb55/domelementtype.git)
VendorName: Felix Boehm

domelementtype@2.0.1
URL: [git://github.com/fb55/domelementtype.git](https://github.com/fb55/domelementtype.git)
VendorName: Felix Boehm

domhandler@2.3.0
URL: [git://github.com/fb55/DomHandler.git](https://github.com/fb55/DomHandler.git)
VendorName: Felix Boehm

domutils@1.5.1
URL: [git://github.com/FB55/domutils.git](https://github.com/FB55/domutils.git)
VendorName: Felix Boehm

entities@1.0.0
URL: [git://github.com/fb55/node-entities.git](https://github.com/fb55/node-entities.git)
VendorName: Felix Boehm

entities@1.1.2

URL: [git://github.com/fb55/entities.git](https://github.com/fb55/entities.git)
VendorName: Felix Boehm
entities@2.0.0
URL: [git://github.com/fb55/entities.git](https://github.com/fb55/entities.git)
VendorName: Felix Boehm
esprima@2.7.3
URL: <https://github.com/jquery/esprima.git>
VendorName: Ariya Hidayat
VendorUrl: <http://esprima.org/>
esprima@3.1.3
URL: <https://github.com/jquery/esprima.git>
VendorName: Ariya Hidayat
VendorUrl: <http://esprima.org/>
esprima@4.0.1
URL: <https://github.com/jquery/esprima.git>
VendorName: Ariya Hidayat
VendorUrl: <http://esprima.org/>
esutils@2.0.3
URL: <http://github.com/estools/esutils.git>
VendorUrl: <https://github.com/estools/esutils>
extract-zip@1.5.0
URL: <git+ssh://git@github.com/maxogden/extract-zip.git>
VendorName: max ogden
VendorUrl: <https://github.com/maxogden/extract-zip>
github-url-from-username-repo@1.0.2
URL: <git@github.com:robertkowalski/github-url-from-username-repo.git>
VendorName: Robert Kowalski
normalize-package-data@2.3.8
URL: [git://github.com/npm/normalize-package-data.git](https://github.com/npm/normalize-package-data.git)
VendorName: Meryn Stol
normalize-package-data@2.5.0
URL: [git://github.com/npm/normalize-package-data.git](https://github.com/npm/normalize-package-data.git)
VendorName: Meryn Stol
npm-install-checks@1.0.7
URL: [git://github.com/npm/npm-install-checks.git](https://github.com/npm/npm-install-checks.git)
VendorName: Robert Kowalski
VendorUrl: <https://github.com/npm/npm-install-checks>
npm-user-validate@0.1.5
URL: [git://github.com/npm/npm-user-validate.git](https://github.com/npm/npm-user-validate.git)
VendorName: Robert Kowalski
regenerator@0.8.40
URL: [git://github.com/facebook/regenerator.git](https://github.com/facebook/regenerator.git)
VendorName: Ben Newman
VendorUrl: <http://github.com/facebook/regenerator>
regjsparser@0.1.5
URL: [git@github.com:jviereck/regjsparser.git](https://github.com:jviereck/regjsparser.git)
VendorName: 'Julian Viereck'
VendorUrl: <https://github.com/jviereck/regjsparser>

uglify-js@2.8.29
URL: <https://github.com/mishoo/UglifyJS2.git>
VendorName: Mihai Bazon
VendorUrl: <http://lisperator.net/uglifyjs>

uri-js@4.2.2
URL: <http://github.com/garycourt/uri-js>
VendorName: Gary Court
VendorUrl: <https://github.com/garycourt/uri-js>

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bcrypt-pbkdf@1.0.2
URL: <git://github.com/joyent/node-bcrypt-pbkdf.git>

boom@2.10.1
URL: <git://github.com/hapijs/boom>

cpr@0.4.2
URL: <http://github.com/davglass/cpr.git>
VendorName: Dav Glass

cryptiles@2.0.5
URL: <git://github.com/hapijs/cryptiles>

hawk@3.1.3
URL: <git://github.com/hueniverse/hawk>
VendorName: Eran Hammer
VendorUrl: <http://hueniverse.com>

hoek@2.16.3
URL: <git://github.com/hapijs/hoek>

js-base64@2.5.1
URL: <git://github.com/dankogai/js-base64.git>
VendorName: Dan Kogai

makeerror@1.0.11
URL: <https://github.com/daaku/nodejs-makeerror>
VendorName: Naitik Shah

printf@0.2.5
URL: <https://github.com/wdavidw/node-printf.git>
VendorName: David Worms
VendorUrl: <http://www.adaltas.com/projects/node-printf>

qs@5.1.0
URL: <https://github.com/hapijs/qs.git>
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qs@5.2.0
URL: <https://github.com/hapijs/qs.git>
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qs@6.2.3
URL: <https://github.com/ljharb/qs.git>
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shelljs@0.3.0
URL: <git://github.com/arturadib/shelljs.git>
VendorName: Artur Adib
VendorUrl: <http://github.com/arturadib/shelljs>
source-map@0.1.32
URL: <http://github.com/mozilla/source-map.git>
VendorName: Nick Fitzgerald
VendorUrl: <https://github.com/mozilla/source-map>
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VendorUrl: <https://github.com/mozilla/source-map>
source-map@0.4.4
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VendorUrl: <https://github.com/mozilla/source-map>
source-map@0.5.7
URL: <http://github.com/mozilla/source-map.git>
VendorName: Nick Fitzgerald
VendorUrl: <https://github.com/mozilla/source-map>
sprintf-js@1.0.3
URL: <https://github.com/alexei/sprintf.js.git>
VendorName: Alexandru Marasteanu
VendorUrl: <http://alexei.ro/>
sprintf-js@1.1.2
URL: <https://github.com/alexei/sprintf.js.git>
VendorName: Alexandru Mrteanu
tmpl@1.0.4
URL: <https://github.com/daaku/nodejs-tmpl>
VendorName: Naitik Shah
VendorUrl: <https://github.com/nshah/nodejs-tmpl>
tough-cookie@2.2.2
URL: <git://github.com/SalesforceEng/tough-cookie.git>
VendorName: Jeremy Stashewsky
VendorUrl: <https://github.com/SalesforceEng/tough-cookie>
tough-cookie@2.3.4
URL: <git://github.com/salesforce/tough-cookie.git>
VendorName: Jeremy Stashewsky
VendorUrl: <https://github.com/salesforce/tough-cookie>
tough-cookie@2.4.3
URL: <git://github.com/salesforce/tough-cookie.git>

VendorName: Jeremy Stashewsky
VendorUrl: <https://github.com/salesforce/tough-cookie>
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amdefine@1.0.1
URL: <https://github.com/jrburke/amdefine.git>
VendorName: James Burke
VendorUrl: <http://github.com/jrburke/amdefine>
BSD*
diff@1.4.0
URL: <git://github.com/kpdecker/jsdiff.git>
esprima-fb@12001.1.0-dev-harmony-fb
URL: <http://github.com/facebook/esprima.git>
VendorName: Ariya Hidayat
VendorUrl: <https://github.com/facebook/esprima/tree/fb-harmony>
esprima-fb@15001.1001.0-dev-harmony-fb
URL: <http://github.com/facebook/esprima.git>
VendorName: Ariya Hidayat
VendorUrl: <https://github.com/facebook/esprima/tree/fb-harmony>
json-schema@0.2.3
URL: <http://github.com/kriszyp/json-schema>
VendorName: Kris Zyp
CC-BY-3.0
spdx-exceptions@2.2.0
URL: <https://github.com/kemitchell/spdx-exceptions.json.git>
VendorName: The Linux Foundation
CC0-1.0
spdx-license-ids@3.0.5
URL: <https://github.com/shinnn/spdx-license-ids.git>
VendorName: Shinnosuke Watanabe
VendorUrl: <https://github.com/shinnn>
ISC
abbrev@1.0.9
URL: <http://github.com/isaacs/abbrev-js>
VendorName: Isaac Z. Schlueter
abbrev@1.1.1
URL: <http://github.com/isaacs/abbrev-js>
VendorName: Isaac Z. Schlueter
anymatch@1.3.2
URL: <https://github.com/es128/anymatch>
VendorName: Elan Shanker
VendorUrl: <https://github.com/es128/anymatch>
aproba@1.2.0
URL: <https://github.com/iarna/aproba>
VendorName: Rebecca Turner
VendorUrl: <https://github.com/iarna/aproba>
are-we-there-yet@1.0.6
URL: <https://github.com/iarna/are-we-there-yet.git>
VendorName: Rebecca Turner

VendorUrl: <https://github.com/iarna/are-we-there-yet>
are-we-there-yet@1.1.5
URL: <https://github.com/iarna/are-we-there-yet.git>
VendorName: Rebecca Turner
VendorUrl: <https://github.com/iarna/are-we-there-yet>
async-some@1.0.2
URL: <https://github.com/othiym23/async-some.git>
VendorName: Forrest L Norvell
VendorUrl: <https://github.com/othiym23/async-some>
block-stream@0.0.8
URL: <git://github.com/isaacs/block-stream.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>
block-stream@0.0.9
URL: <git://github.com/isaacs/block-stream.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>
broccoli-viz@2.0.1
URL: <https://github.com/stefanpenner/broccoli-viz.git>
VendorName: Stefan Penner
VendorUrl: <https://github.com/stefanpenner/broccoli-viz>
char-spinner@1.0.1
URL: <git://github.com/isaacs/char-spinner>
VendorName: Isaac Z. Schlueter
VendorUrl: <https://github.com/isaacs/char-spinner>
chmodr@1.0.2
URL: <git://github.com/isaacs/chmodr.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>
chownr@1.0.1
URL: <git://github.com/isaacs/chownr.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>
chownr@1.1.3
URL: <git://github.com/isaacs/chownr.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>
clean-base-url@1.0.0
URL: <git+ssh://git@github.com/stefanpenner/clean-base-url.git>
VendorName: Stefan Penner
VendorUrl: <https://github.com/stefanpenner/clean-base-url#readme>
cliui@2.1.0
URL: <http://github.com/bcoe/cliui.git>
VendorName: Ben Coe
cliui@3.2.0
URL: <http://github.com/yargs/cliui.git>
VendorName: Ben Coe
console-control-strings@1.1.0

URL: <https://github.com/iarna/console-control-strings>
VendorName: Rebecca Turner
VendorUrl: <http://re-becca.org/>
d@1.0.1
URL: <git://github.com/medikoo/d.git>
VendorName: Mariusz Nowak
VendorUrl: <http://www.medikoo.com/>
dezalgo@1.0.3
URL: <https://github.com/npm/dezalgo>
VendorName: Isaac Z. Schlueter
VendorUrl: <https://github.com/npm/dezalgo>
ember-cli-get-dependency-depth@1.0.0
URL: <git+https://github.com/ember-cli/get-dependency-depth.git>
VendorName: ember-cli Contributors
VendorUrl: <https://github.com/ember-cli/get-dependency-depth#readme>
ember-cli-is-package-missing@1.0.0
URL: <git+https://github.com/ember-cli/ember-cli.git>
VendorName: ember-cli contributors
VendorUrl: <https://github.com/ember-cli/ember-cli#readme>
ember-cli-normalize-entity-name@1.0.0
URL: <git+https://github.com/ember-cli/ember-cli.git>
VendorName: ember-cli contributors
VendorUrl: <https://github.com/ember-cli/ember-cli#readme>
ember-cli-path-utils@1.0.0
URL: <git+https://github.com/ember-cli/ember-cli-path-utils.git>
VendorName: ember-cli contributors
VendorUrl: <https://github.com/ember-cli/ember-cli-path-utils#readme>
ember-cli-preprocess-registry@1.1.0
URL: <git+https://github.com/ember-cli/ember-cli-preprocessor-registry.git>
VendorName: ember-cli Contributors
VendorUrl: <https://github.com/ember-cli/ember-cli-preprocessor-registry#readme>
ember-cli-string-utils@1.1.0
URL: <git+https://github.com/ember-cli/ember-cli-string-utils.git>
VendorName: ember-cli contributors
VendorUrl: <https://github.com/ember-cli/ember-cli-string-utils#readme>
ember-cli-test-info@1.0.0
URL: <git+https://github.com/ember-cli/ember-cli-test-info.git>
VendorName: ember-cli contributors
VendorUrl: <https://github.com/ember-cli/ember-cli-test-info#readme>
ensure-posix-path@1.1.1
URL: <git+https://github.com/stefanpenner/ensure-posix-path.git>
VendorName: Stefan Penner
VendorUrl: <https://github.com/stefanpenner/ensure-posix-path#readme>
es5-ext@0.10.53
URL: <https://github.com/medikoo/es5-ext.git>
VendorName: Mariusz Nowak
VendorUrl: <http://www.medikoo.com/>
es6-symbol@3.1.3

URL: [git://github.com/medikoo/es6-symbol.git](https://github.com/medikoo/es6-symbol.git)
VendorName: Mariusz Nowak
VendorUrl: <http://www.medikoo.com/>

events-to-array@1.1.2
URL: <https://github.com/isaacs/events-to-array>
VendorName: Isaac Z. Schlueter
VendorUrl: <https://github.com/isaacs/events-to-array>

exists-sync@0.0.3
URL: [git+https://github.com/ember-cli/exists-sync.git](https://github.com/ember-cli/exists-sync.git)
VendorName: Jake Bixby
VendorUrl: <https://github.com/ember-cli/exists-sync#readme>

exists-sync@0.0.4
URL: [git+https://github.com/ember-cli/exists-sync.git](https://github.com/ember-cli/exists-sync.git)
VendorName: Jake Bixby
VendorUrl: <https://github.com/ember-cli/exists-sync#readme>

ext@1.4.0
URL: <https://github.com/medikoo/es5-ext/tree/ext>
VendorName: Mariusz Nowak
VendorUrl: <http://www.medikoo.com/>

fast-ordered-set@1.0.3

fs-monitor-stack@1.1.1
URL: [git+https://github.com/stefanpenner/fs-monitor-stack.git](https://github.com/stefanpenner/fs-monitor-stack.git)
VendorName: Stefan Penner
VendorUrl: <https://github.com/stefanpenner/fs-monitor-stack#readme>

fs-vacuum@1.2.10
URL: <https://github.com/npm/fs-vacuum.git>
VendorName: Forrest L Norvell
VendorUrl: <https://github.com/npm/fs-vacuum>

fs-write-stream-atomic@1.0.10
URL: <https://github.com/npm/fs-write-stream-atomic>
VendorName: Isaac Z. Schlueter
VendorUrl: <https://github.com/npm/fs-write-stream-atomic>

fs.realpath@1.0.0
URL: [git+https://github.com/isaacs/fs.realpath.git](https://github.com/isaacs/fs.realpath.git)
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

fstream-ignore@1.0.5
URL: [git://github.com/isaacs/fstream-ignore.git](https://github.com/isaacs/fstream-ignore.git)
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

fstream-npm@1.0.7
URL: <https://github.com/npm/fstream-npm.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

fstream@1.0.12
URL: <https://github.com/npm/fstream.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

gauge@1.2.7
URL: <https://github.com/iarna/gauge>
VendorName: Rebecca Turner
VendorUrl: <https://github.com/iarna/gauge>

gauge@2.7.4
URL: <https://github.com/iarna/gauge>
VendorName: Rebecca Turner
VendorUrl: <https://github.com/iarna/gauge>

get-caller-file@1.0.3
URL: <git+https://github.com/stefanpenner/get-caller-file.git>
VendorName: Stefan Penner
VendorUrl: <https://github.com/stefanpenner/get-caller-file#readme>

glob-parent@2.0.0
URL: <https://github.com/es128/glob-parent>
VendorName: Elan Shanker
VendorUrl: <https://github.com/es128/glob-parent>

glob@4.3.5
URL: <git://github.com/isaacs/node-glob.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

glob@4.5.3
URL: <git://github.com/isaacs/node-glob.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

glob@5.0.13
URL: <git://github.com/isaacs/node-glob.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

glob@5.0.15
URL: <git://github.com/isaacs/node-glob.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

glob@6.0.4
URL: <git://github.com/isaacs/node-glob.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

glob@7.1.6
URL: <git://github.com/isaacs/node-glob.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

graceful-fs@3.0.12
URL: <git://github.com/isaacs/node-graceful-fs.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me>

graceful-fs@4.1.15
URL: <https://github.com/isaacs/node-graceful-fs>

graceful-fs@4.2.3
URL: <https://github.com/isaacs/node-graceful-fs>

har-schema@1.0.5
URL: <https://github.com/ahmadnassri/har-schema.git>
VendorName: Ahmad Nassri
VendorUrl: <https://github.com/ahmadnassri/har-schema>

har-schema@2.0.0
URL: <https://github.com/ahmadnassri/har-schema.git>
VendorName: Ahmad Nassri
VendorUrl: <https://github.com/ahmadnassri/har-schema>

har-validator@2.0.6
URL: <https://github.com/ahmadnassri/har-validator.git>
VendorName: Ahmad Nassri
VendorUrl: <https://github.com/ahmadnassri/har-validator>

har-validator@4.2.1
URL: <https://github.com/ahmadnassri/har-validator.git>
VendorName: Ahmad Nassri
VendorUrl: <https://github.com/ahmadnassri/har-validator>

has-binary-data@0.1.3
VendorName: Kevin Roark

has-unicode@2.0.1
URL: <https://github.com/iarna/has-unicode>
VendorName: Rebecca Turner
VendorUrl: <https://github.com/iarna/has-unicode>

hash-for-dep@1.5.1
URL: <git+https://github.com/stefanpenner/hash-for-dep.git>
VendorName: Stefan Penner
VendorUrl: <https://github.com/stefanpenner/hash-for-dep#readme>

hosted-git-info@2.1.5
URL: <git+https://github.com/npm/hosted-git-info.git>
VendorName: Rebecca Turner
VendorUrl: <https://github.com/npm/hosted-git-info>

hosted-git-info@2.8.5
URL: <git+https://github.com/npm/hosted-git-info.git>
VendorName: Rebecca Turner
VendorUrl: <https://github.com/npm/hosted-git-info>

in-publish@2.0.0
URL: <https://github.com/iarna/in-publish>
VendorName: Rebecca Turner
VendorUrl: <https://github.com/iarna/in-publish>

inflight@1.0.6
URL: <https://github.com/npm/inflight.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <https://github.com/isaacs/inflight>

inherits@2.0.3
URL: <git://github.com/isaacs/inherits>

inherits@2.0.4
URL: <git://github.com/isaacs/inherits>

ini@1.3.5
URL: <git://github.com/isaacs/ini.git>

VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>
init-package-json@1.9.6
URL: <https://github.com/npm/init-package-json.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>
isexe@2.0.0
URL: <git+https://github.com/isaacs/isexe.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <https://github.com/isaacs/isexe#readme>
json-stringify-safe@5.0.1
URL: <git://github.com/isaacs/json-stringify-safe>
VendorName: Isaac Z. Schlueter
VendorUrl: <https://github.com/isaacs/json-stringify-safe>
lockfile@1.0.4
URL: <https://github.com/npm/lockfile.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>
lru-cache@2.7.3
URL: <git://github.com/isaacs/node-lru-cache.git>
VendorName: Isaac Z. Schlueter
lru-cache@4.1.5
URL: <git://github.com/isaacs/node-lru-cache.git>
VendorName: Isaac Z. Schlueter
matcher-collection@1.1.2
URL: <git+https://github.com/stefanpenner/matcher-collection.git>
VendorName: Stefan Penner
VendorUrl: <https://github.com/stefanpenner/matcher-collection#readme>
minimatch@2.0.10
URL: <git://github.com/isaacs/minimatch.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me>
minimatch@3.0.4
URL: <git://github.com/isaacs/minimatch.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me>
mute-stream@0.0.8
URL: <git://github.com/isaacs/mute-stream>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>
natives@1.1.6
URL: <git+https://github.com/addaleax/natives.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <https://github.com/addaleax/natives#readme>
node-modules-path@1.0.2
URL: <git+https://github.com/ember-cli/node-modules-path.git>
VendorName: Stefan Penner
VendorUrl: <https://github.com/ember-cli/node-modules-path#readme>

nopt@3.0.6
URL: <https://github.com/npm/nopt.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

normalize-git-url@3.0.2
URL: <https://github.com/npm/normalize-git-url.git>
VendorName: Forrest L Norvell
VendorUrl: <https://github.com/npm/normalize-git-url>

npm-cache-filename@1.0.2
URL: <git://github.com/npm/npm-cache-filename>
VendorName: Isaac Z. Schlueter
VendorUrl: <https://github.com/npm/npm-cache-filename>

npm-normalize-package-bin@1.0.1
URL: <git+https://github.com/npm/npm-normalize-package-bin>
VendorName: Isaac Z. Schlueter
VendorUrl: <https://izs.me>

npm-package-arg@4.0.2
URL: <https://github.com/npm/npm-package-arg>
VendorName: Isaac Z. Schlueter
VendorUrl: <https://github.com/npm/npm-package-arg>

npm-package-arg@4.2.1
URL: <https://github.com/npm/npm-package-arg>
VendorName: Isaac Z. Schlueter
VendorUrl: <https://github.com/npm/npm-package-arg>

npm-package-arg@5.1.2
URL: <https://github.com/npm/npm-package-arg>
VendorName: Isaac Z. Schlueter
VendorUrl: <https://github.com/npm/npm-package-arg>

npm-registry-client@7.0.9
URL: <https://github.com/npm/npm-registry-client.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

npmlog@1.2.1
URL: <git://github.com/isaacs/npmlog.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

npmlog@2.0.4
URL: <https://github.com/npm/npmlog.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

npmlog@4.1.2
URL: <https://github.com/npm/npmlog.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

once@1.3.3
URL: <git://github.com/isaacs/once>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

once@1.4.0
URL: [git://github.com/isaacs/once](https://github.com/isaacs/once)
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

osenv@0.1.5
URL: <https://github.com/npm/osenv>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

path-posix@1.0.0
URL: [git@github.com:jden/node-path-posix.git](https://github.com:jden/node-path-posix)
VendorName: jden

pleasant-progress@1.1.0
URL: [https://github.com/stefanpenner/pleasant-progress.git](https://github.com/stefanpenner/pleasant-progress)
VendorName: Stefan Penner
VendorUrl: <https://github.com/stefanpenner/pleasant-progress>

process-relative-require@1.0.0
URL: [git+https://github.com/ember-cli/process-relative-require.git](https://github.com/ember-cli/process-relative-require)
VendorName: Stefan Penner
VendorUrl: <https://github.com/ember-cli/process-relative-require#readme>

promzard@0.3.0
URL: [git://github.com/isaacs/promzard](https://github.com/isaacs/promzard)
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

proto-list@1.2.4
URL: <https://github.com/isaacs/proto-list>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

pseudomap@1.0.2
URL: [git+https://github.com/isaacs/pseudomap.git](https://github.com/isaacs/pseudomap)
VendorName: Isaac Z. Schlueter
VendorUrl: <https://github.com/isaacs/pseudomap#readme>

read-installed@4.0.3
URL: [git://github.com/isaacs/read-installed](https://github.com/isaacs/read-installed)
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

read-package-json@2.0.13
URL: [https://github.com/npm/read-package-json.git](https://github.com/npm/read-package-json)
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

read-package-json@2.1.1
URL: [https://github.com/npm/read-package-json.git](https://github.com/npm/read-package-json)
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

read@1.0.7
URL: [git://github.com/isaacs/read.git](https://github.com/isaacs/read)
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

readdir-scoped-modules@1.1.0

URL: <https://github.com/npm/readdir-scoped-modules>
VendorName: Isaac Z. Schlueter
VendorUrl: <https://github.com/npm/readdir-scoped-modules>
realize-package-specifier@3.0.3
URL: <https://github.com/npm/realize-package-specifier.git>
VendorName: Rebecca Turner
VendorUrl: <https://github.com/npm/realize-package-specifier>
remove-trailing-separator@1.1.0
URL: <git+https://github.com/darsain/remove-trailing-separator.git>
VendorName: darsain
VendorUrl: <https://github.com/darsain/remove-trailing-separator#readme>
require-main-filename@1.0.1
URL: <git+ssh://git@github.com/yargs/require-main-filename.git>
VendorName: Ben Coe
VendorUrl: <https://github.com/yargs/require-main-filename#readme>
rimraf@2.4.5
URL: <git://github.com/isaacs/rimraf.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>
rimraf@2.7.1
URL: <git://github.com/isaacs/rimraf.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>
semver@4.3.6
URL: <git://github.com/npm/node-semver.git>
semver@5.0.3
URL: <https://github.com/npm/node-semver>
semver@5.3.0
URL: <https://github.com/npm/node-semver>
semver@5.7.1
URL: <https://github.com/npm/node-semver>
set-blocking@2.0.0
URL: <git+https://github.com/yargs/set-blocking.git>
VendorName: Ben Coe
VendorUrl: <https://github.com/yargs/set-blocking#readme>
setprototypeof@1.1.1
URL: <https://github.com/wesleytodd/setprototypeof.git>
VendorName: Wes Todd
VendorUrl: <https://github.com/wesleytodd/setprototypeof>
sigmund@1.0.1
URL: <git://github.com/isaacs/sigmund>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>
signal-exit@3.0.2
URL: <https://github.com/tapjs/signal-exit.git>
VendorName: Ben Coe
VendorUrl: <https://github.com/tapjs/signal-exit>
silent-error@1.1.1

URL: git+https://github.com/stefanpenner/silent-error.git
VendorName: Stefan Penner
VendorUrl: https://github.com/stefanpenner/silent-error#readme
slide@1.1.6
URL: git://github.com/isaacs/slide-flow-control.git
VendorName: Isaac Z. Schlueter
VendorUrl: http://blog.izs.me/
tar@2.2.2
URL: git://github.com/isaacs/node-tar.git
VendorName: Isaac Z. Schlueter
VendorUrl: http://blog.izs.me/
timers-ext@0.1.7
URL: git://github.com/medikoo/timers-ext.git
VendorName: Mariusz Nowak
VendorUrl: http://www.medikoo.com/
tree-sync@1.4.0
URL: https://github.com/stefanpenner/tree-sync/
VendorName: Stefan Penner
type@1.2.0
URL: https://github.com/medikoo/type.git
VendorName: Mariusz Nowak
VendorUrl: https://www.medikoo.com/
type@2.0.0
URL: https://github.com/medikoo/type.git
VendorName: Mariusz Nowak
VendorUrl: https://www.medikoo.com/
uid-number@0.0.6
URL: git://github.com/isaacs/uid-number.git
VendorName: Isaac Z. Schlueter
VendorUrl: http://blog.izs.me/
validate-npm-package-name@2.2.2
URL: https://github.com/npm/validate-npm-package-name
VendorName: zeke
VendorUrl: https://github.com/npm/validate-npm-package-name
validate-npm-package-name@3.0.0
URL: https://github.com/npm/validate-npm-package-name
VendorName: zeke
VendorUrl: https://github.com/npm/validate-npm-package-name
which-module@1.0.0
URL: git+https://github.com/nexdrew/which-module.git
VendorName: nexdrew
VendorUrl: https://github.com/nexdrew/which-module#readme
which@1.2.14
URL: git://github.com/isaacs/node-which.git
VendorName: Isaac Z. Schlueter
VendorUrl: http://blog.izs.me
which@1.3.1
URL: git://github.com/isaacs/node-which.git

VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me>
wide-align@1.1.3
URL: <https://github.com/iarna/wide-align>
VendorName: Rebecca Turner
VendorUrl: <http://re-becca.org/>
wrappy@1.0.2
URL: <https://github.com/npm/wrappy>
VendorName: Isaac Z. Schlueter
VendorUrl: <https://github.com/npm/wrappy>
write-file-atomic@1.1.4
URL: <git@github.com:iarna/write-file-atomic.git>
VendorName: Rebecca Turner
VendorUrl: <https://github.com/iarna/write-file-atomic>
write-file-atomic@1.3.4
URL: <git@github.com:iarna/write-file-atomic.git>
VendorName: Rebecca Turner
VendorUrl: <https://github.com/iarna/write-file-atomic>
y18n@3.2.2
URL: <git@github.com:yargs/y18n.git>
VendorName: Ben Coe
VendorUrl: <https://github.com/yargs/y18n>
yallist@2.1.2
URL: <git+https://github.com/isaacs/yallist.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>
yargs-parser@5.0.0
URL: <git@github.com:yargs/yargs-parser.git>
VendorName: Ben Coe

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@sailshq/lodash@3.10.4
URL: <git://github.com/treelinehq/lodash.git>
VendorName: Mike McNeil

accepts@1.3.7
URL: <https://github.com/jshttp/accepts.git>

acorn@5.7.3
URL: <https://github.com/acornjs/acorn.git>
VendorUrl: <https://github.com/acornjs/acorn>

ajv@4.11.8
URL: <https://github.com/epoberezkin/ajv.git>
VendorName: Evgeny Poberezkin
VendorUrl: <https://github.com/epoberezkin/ajv>

ajv@6.10.2
URL: <https://github.com/epoberezkin/ajv.git>
VendorName: Evgeny Poberezkin
VendorUrl: <https://github.com/epoberezkin/ajv>

align-text@0.1.4
URL: <git://github.com/jonschlinkert/align-text.git>

VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/align-text>
alter@0.2.0
URL: <https://github.com/olov/alter.git>
VendorName: Olov Lassus
amd-name-resolver@0.0.2
VendorName: Ember CLI contributors
ansi-regex@0.2.1
URL: <https://github.com/sindresorhus/ansi-regex.git>
VendorName: Sindre Sorhus
VendorUrl: <http://sindresorhus.com>
ansi-regex@1.1.1
URL: <https://github.com/sindresorhus/ansi-regex.git>
VendorName: Sindre Sorhus
VendorUrl: <http://sindresorhus.com>
ansi-regex@2.1.1
URL: <https://github.com/chalk/ansi-regex.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
ansi-regex@3.0.0
URL: <https://github.com/chalk/ansi-regex.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
ansi-styles@1.0.0
URL: <git://github.com/sindresorhus/ansi-styles.git>
VendorName: Sindre Sorhus
VendorUrl: <https://github.com/sindresorhus/ansi-styles>
ansi-styles@1.1.0
URL: <https://github.com/sindresorhus/ansi-styles.git>
VendorName: Sindre Sorhus
VendorUrl: <http://sindresorhus.com>
ansi-styles@2.2.1
URL: <https://github.com/chalk/ansi-styles.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
ansi-styles@3.2.1
URL: <https://github.com/chalk/ansi-styles.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
ansi@0.3.1
URL: <git://github.com/TooTallNate/ansi.js.git>
VendorName: Nathan Rajlich
VendorUrl: <http://tootallnate.net>
ansicolors@0.2.1
URL: <git://github.com/thlorenz/ansicolors.git>
VendorName: Thorsten Lorenz
VendorUrl: thlorenz.com
ansicolors@0.3.2

URL: [git://github.com/thlorenz/ansicolors.git](https://github.com/thlorenz/ansicolors.git)
VendorName: Thorsten Lorenz
VendorUrl: thlorenz.com
ansistyles@0.1.3
URL: [git://github.com/thlorenz/ansistyles.git](https://github.com/thlorenz/ansistyles.git)
VendorName: Thorsten Lorenz
VendorUrl: thlorenz.com
archy@1.0.0
URL: <http://github.com/substack/node-archy.git>
VendorName: James Halliday
VendorUrl: <http://substack.net>
argparse@1.0.10
URL: <https://github.com/nodeca/argparse.git>
arr-diff@2.0.0
URL: <https://github.com/jonschlinkert/arr-diff.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/arr-diff>
arr-flatten@1.1.0
URL: <https://github.com/jonschlinkert/arr-flatten.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/arr-flatten>
array-equal@1.0.0
URL: <https://github.com/component/array-equal.git>
VendorName: Jonathan Ong
VendorUrl: <http://jongleberry.com>
array-find-index@1.0.2
URL: <https://github.com/sindresorhus/array-find-index.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
array-flatten@1.1.1
URL: [git://github.com/blakeembrey/array-flatten.git](https://github.com/blakeembrey/array-flatten.git)
VendorName: Blake Embrey
VendorUrl: <https://github.com/blakeembrey/array-flatten>
array-index@1.0.0
URL: [git://github.com/TooTallNate/array-index.git](https://github.com/TooTallNate/array-index.git)
VendorName: Nathan Rajlich
VendorUrl: <http://tootallnate.net>
array-unique@0.2.1
URL: [git://github.com/jonschlinkert/array-unique.git](https://github.com/jonschlinkert/array-unique.git)
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/array-unique>
arraybuffer.slice@0.0.6
URL: [git@github.com:rase-/arraybuffer.slice.git](https://github.com/rase-/arraybuffer.slice.git)
VendorUrl: <https://github.com/rase-/arraybuffer.slice>
asap@2.0.6
URL: <https://github.com/krisKowal/asap.git>
asn1@0.1.11
URL: [git://github.com/mcavage/node-asn1.git](https://github.com/mcavage/node-asn1.git)

VendorName: Mark Cavage
asn1@0.2.4
URL: [git://github.com/joyent/node-asn1.git](https://github.com/joyent/node-asn1.git)
VendorName: Joyent
VendorUrl: joyent.com

assert-plus@0.2.0
URL: <https://github.com/mcavage/node-assert-plus.git>
VendorName: Mark Cavage

assert-plus@1.0.0
URL: <https://github.com/mcavage/node-assert-plus.git>
VendorName: Mark Cavage

ast-traverse@0.1.1
URL: <https://github.com/olov/ast-traverse.git>
VendorName: Olov Lassus

ast-types@0.8.12
URL: [git://github.com/benjamn/ast-types.git](https://github.com/benjamn/ast-types.git)
VendorName: Ben Newman
VendorUrl: <http://github.com/benjamn/ast-types>

ast-types@0.8.15
URL: [git://github.com/benjamn/ast-types.git](https://github.com/benjamn/ast-types.git)
VendorName: Ben Newman
VendorUrl: <http://github.com/benjamn/ast-types>

ast-types@0.9.6
URL: [git://github.com/benjamn/ast-types.git](https://github.com/benjamn/ast-types.git)
VendorName: Ben Newman
VendorUrl: <http://github.com/benjamn/ast-types>

async-disk-cache@1.3.5
URL: <https://github.com/stefanpenner/async-disk-cache.git>
VendorName: Stefan Penner

async-promise-queue@1.0.5
URL: <https://github.com/stefanpenner/async-promise-queue>
VendorName: Stefan Penner

async@0.2.10
URL: <https://github.com/caolan/async.git>
VendorName: Caolan McMahon

async@0.8.0
URL: <https://github.com/caolan/async.git>
VendorName: Caolan McMahon

async@0.9.0
URL: <https://github.com/caolan/async.git>
VendorName: Caolan McMahon

async@1.5.2
URL: <https://github.com/caolan/async.git>
VendorName: Caolan McMahon

async@2.6.3
URL: <https://github.com/caolan/async.git>
VendorName: Caolan McMahon
VendorUrl: <https://caolan.github.io/async/>

asynckit@0.4.0
URL: [git+https://github.com/alexindigo/asynckit.git](https://github.com/alexindigo/asynckit.git)
VendorName: Alex Indigo
VendorUrl: <https://github.com/alexindigo/asynckit#readme>

aws4@1.9.0
URL: <https://github.com/mhart/aws4.git>
VendorName: Michael Hart
VendorUrl: <http://github.com/mhart>

babel-core@5.8.38
URL: <https://github.com/babel/babel.git>
VendorName: Sebastian McKenzie
VendorUrl: <https://babeljs.io/>

babel-plugin-constant-folding@1.0.1
URL: <https://github.com/babel-plugins/babel-plugin-constant-folding.git>

babel-plugin-dead-code-elimination@1.0.2
URL: <https://github.com/babel-plugins/babel-plugin-dead-code-elimination.git>

babel-plugin-eval@1.0.1
URL: <https://github.com/babel-plugins/babel-plugin-eval.git>

babel-plugin-htmlbars-inline-precompile@0.0.5
URL: <https://github.com/pangratz/babel-plugin-htmlbars-inline-precompile>
VendorName: Clemens Miller

babel-plugin-inline-environment-variables@1.0.1
URL: <https://github.com/babel-plugins/babel-plugin-inline-environment-variables.git>

babel-plugin-jscrypt@1.0.4
URL: <https://github.com/babel-plugins/babel-plugin-jscrypt.git>

babel-plugin-member-expression-literals@1.0.1
URL: <https://github.com/babel-plugins/babel-plugin-member-expression-literals.git>

babel-plugin-property-literals@1.0.1
URL: <https://github.com/babel-plugins/babel-plugin-property-literals.git>

babel-plugin-proto-to-assign@1.0.4
URL: <https://github.com/babel-plugins/babel-plugin-proto-to-assign.git>

babel-plugin-react-constant-elements@1.0.3
URL: <https://github.com/babel-plugins/babel-plugin-react-constant-elements.git>

babel-plugin-react-display-name@1.0.3
URL: <https://github.com/babel-plugins/babel-plugin-react-display-name.git>

babel-plugin-remove-console@1.0.1
URL: <https://github.com/babel-plugins/babel-plugin-remove-console.git>

babel-plugin-remove-debugger@1.0.1
URL: <https://github.com/babel-plugins/babel-plugin-remove-debugger.git>

babel-plugin-runtime@1.0.7
URL: <https://github.com/babel-plugins/babel-plugin-runtime.git>

babel-plugin-undeclared-variables-check@1.0.2
URL: <https://github.com/babel-plugins/babel-plugin-undeclared-variables-check.git>

babel-plugin-undefined-to-void@1.1.6
URL: <https://github.com/babel-plugins/babel-plugin-undefined-to-void.git>

babylon@5.8.38
URL: <https://github.com/babel/babel.git>
VendorName: Sebastian McKenzie

VendorUrl: <https://babeljs.io/>
backbone@1.4.0
URL: <https://github.com/jashkenas/backbone.git>
VendorName: Jeremy Ashkenas

backo2@1.0.2
URL: <https://github.com/mokesmokes/backo.git>

balanced-match@1.0.0
URL: <git://github.com/juliangruber/balanced-match.git>
VendorName: Julian Gruber
VendorUrl: <https://github.com/juliangruber/balanced-match>

base64-arraybuffer@0.1.2
URL: <https://github.com/niklasvh/base64-arraybuffer>
VendorName: Niklas von Herten
VendorUrl: <https://github.com/niklasvh/base64-arraybuffer>

basic-auth@2.0.1
URL: <https://github.com/jshhttp/basic-auth.git>

benchmark@1.0.0
URL: <https://github.com/bestiejs/benchmark.js.git>
VendorName: Mathias Bynens
VendorUrl: <http://benchmarkjs.com/>

better-assert@1.0.2
URL: <https://github.com/visionmedia/better-assert.git>
VendorName: TJ Holowaychuk

binaryextensions@2.2.0
URL: <https://github.com/bevry/binaryextensions.git>
VendorName: 2013+ Bevry Pty Ltd
VendorUrl: <https://github.com/bevry/binaryextensions>

bl@1.0.3
URL: <https://github.com/rvagg/bl.git>
VendorUrl: <https://github.com/rvagg/bl>

bl@1.1.2
URL: <https://github.com/rvagg/bl.git>
VendorUrl: <https://github.com/rvagg/bl>

blank-object@1.0.2
URL: <git+https://github.com/stefanpenner/blank-object.git>
VendorName: Stefan Penner
VendorUrl: <https://github.com/stefanpenner/blank-object#readme>

bluebird@2.11.0
URL: <git://github.com/petkaantonov/bluebird.git>
VendorName: Petka Antonov
VendorUrl: <https://github.com/petkaantonov/bluebird>

body-parser@1.14.2
URL: <https://github.com/expressjs/body-parser.git>

body-parser@1.19.0
URL: <https://github.com/expressjs/body-parser.git>

bower-config@0.6.1
URL: <git://github.com/bower/config.git>
VendorName: Twitter

VendorUrl: <http://bower.io/>
bower-endpoint-parser@0.2.2
URL: <git://github.com/bower/endpoint-parser.git>
VendorName: Twitter

bower-shrinkwrap-resolver-ext@0.1.0
URL: <https://github.com/sreenaths/bower-shrinkwrap-resolver-ext>
bower@1.8.8
URL: <https://github.com/bower/bower.git>
VendorName: Twitter
VendorUrl: <http://bower.io/>

brace-expansion@1.1.11
URL: <git://github.com/juliangruber/brace-expansion.git>
VendorName: Julian Gruber
VendorUrl: <https://github.com/juliangruber/brace-expansion>

braces@1.8.5
URL: <https://github.com/jonschlinkert/braces.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/braces>

breakable@1.0.0
URL: <https://github.com/olov/breakable.git>
VendorName: Olov Lassus

broccoli-asset-rev@2.4.2
URL: <git://github.com/rickharrison/broccoli-asset-rev>
VendorName: Rick Harrison
VendorUrl: <https://github.com/rickharrison/broccoli-asset-rev>

broccoli-asset-rewrite@1.1.0
URL: <git://github.com/rickharrison/broccoli-asset-rewrite>
VendorName: Rick Harrison
VendorUrl: <https://github.com/rickharrison/broccoli-asset-rewrite>

broccoli-babel-transpiler@5.7.4
URL: <https://github.com/babel/broccoli-babel-transpiler.git>
VendorName: nightire
VendorUrl: <https://github.com/babel/broccoli-babel-transpiler>

broccoli-caching-writer@2.3.1
URL: <https://github.com/ember-cli/broccoli-caching-writer.git>
VendorName: Robert Jackson

broccoli-caching-writer@3.0.3
URL: <https://github.com/ember-cli/broccoli-caching-writer.git>
VendorName: Robert Jackson

broccoli-clean-css@0.2.0
URL: <https://github.com/shinnn/broccoli-clean-css.git>
VendorName: Shinnosuke Watanabe
VendorUrl: <https://github.com/shinnn/broccoli-clean-css>

broccoli-config-loader@1.0.1
URL: <git+https://github.com/ember-cli/broccoli-config-loader.git>
VendorName: yaymukund
VendorUrl: <https://github.com/ember-cli/broccoli-config-loader#readme>

broccoli-config-replace@1.1.2

URL: <https://github.com/ember-cli/broccoli-config-replace>
VendorName: yaymukund
VendorUrl: <https://github.com/ember-cli/broccoli-config-replace#readme>

broccoli-debug@0.6.5
URL: <https://github.com/broccolijs/broccoli-debug.git>
VendorName: Robert Jackson
VendorUrl: [http:](http://)

broccoli-filter@0.1.14
URL: <https://github.com/broccolijs/broccoli-filter>
VendorName: Jo Liss

broccoli-filter@1.3.0
URL: <https://github.com/broccolijs/broccoli-filter>

broccoli-funnel@1.0.1
URL: <https://github.com/broccolijs/broccoli-funnel.git>
VendorName: Robert Jackson

broccoli-funnel@1.2.0
URL: <https://github.com/broccolijs/broccoli-funnel.git>
VendorName: Robert Jackson

broccoli-funnel@2.0.2
URL: <https://github.com/broccolijs/broccoli-funnel.git>
VendorName: Robert Jackson

broccoli-jshint@1.2.0
URL: <https://github.com/rwjblue/broccoli-jshint.git>
VendorName: Robert Jackson

broccoli-kitchen-sink-helpers@0.2.9
URL: <https://github.com/broccolijs/broccoli-kitchen-sink-helpers>
VendorName: Jo Liss

broccoli-kitchen-sink-helpers@0.3.1
URL: <https://github.com/broccolijs/broccoli-kitchen-sink-helpers>
VendorName: Jo Liss

broccoli-less-single@0.6.4
URL: <https://github.com/gabrielgrant/broccoli-less-single>
VendorName: Gabriel Grant
VendorUrl: <https://github.com/gabrielgrant/broccoli-less-single>

broccoli-merge-trees@1.1.1
URL: <https://github.com/broccolijs/broccoli-merge-trees>
VendorName: Jo Liss

broccoli-merge-trees@1.2.4
URL: <https://github.com/broccolijs/broccoli-merge-trees>
VendorName: Jo Liss

broccoli-merge-trees@2.0.1
URL: <https://github.com/broccolijs/broccoli-merge-trees>
VendorName: Jo Liss

broccoli-persistent-filter@1.4.6
URL: <git+https://github.com/stefanpenner/broccoli-persistent-filter.git>
VendorName: Stefan Penner
VendorUrl: <https://github.com/stefanpenner/broccoli-persistent-filter#readme>

broccoli-plugin@1.1.0

URL: <https://github.com/broccolijs/broccoli-plugin>
VendorName: Jo Liss
broccoli-plugin@1.3.1
URL: <https://github.com/broccolijs/broccoli-plugin>
VendorName: Jo Liss
broccoli-sane-watcher@1.1.5
URL: <https://github.com/broccolijs/broccoli-sane-watcher.git>
VendorName: Kris Selden
VendorUrl: <https://github.com/broccolijs/broccoli-sane-watcher>
broccoli-sass-source-maps@2.2.0
URL: <https://github.com/aexmachina/broccoli-sass-source-maps>
VendorName: Jo Liss
broccoli-slow-trees@1.1.0
URL: <https://github.com/rwjblue/broccoli-slow-trees.git>
VendorName: Robert Jackson
VendorUrl: <https://github.com/rwjblue/broccoli-slow-trees>
broccoli-source@1.1.0
URL: <https://github.com/broccolijs/broccoli-source>
VendorName: Jo Liss
broccoli-sourcemap-concat@1.1.6
URL: <https://github.com/ef4/broccoli-sourcemap-concat>
VendorName: Edward Faulkner
broccoli-sourcemap-concat@2.0.2
URL: <https://github.com/ef4/broccoli-sourcemap-concat>
VendorName: Edward Faulkner
broccoli-sri-hash@1.2.2
URL: <https://github.com/jonathanKingston/broccoli-sri-hash.git>
VendorName: Jonathan Kingston
broccoli-stew@1.6.0
URL: <https://github.com/stefanpenner/broccoli-stew.git>
VendorName: Stefan Penner & Robert Jackson
VendorUrl: <https://github.com/stefanpenner/broccoli-stew>
broccoli-uglify-sourcemap@1.5.2
URL: <git+https://github.com/ember-cli/broccoli-uglify-sourcemap.git>
VendorName: Edward Faulkner
VendorUrl: <https://github.com/ember-cli/broccoli-uglify-sourcemap#readme>
broccoli-unwatched-tree@0.1.3
URL: <https://github.com/rjackson/broccoli-unwatched-tree.git>
VendorName: Robert Jackson
broccoli-writer@0.1.1
URL: <https://github.com/joliss/broccoli-writer>
VendorName: Jo Liss
broccoli@0.16.8
URL: <https://github.com/broccolijs/broccoli>
VendorName: Jo Liss
VendorUrl: <https://github.com/broccolijs/broccoli>
buffer-from@1.1.1
URL: <https://github.com/LinusU/buffer-from.git>

builtin-modules@1.1.1
URL: <https://github.com/sindresorhus/builtin-modules.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

builtins@0.0.7
URL: <https://github.com/juliangruber/builtins.git>

builtins@1.0.3
URL: <https://github.com/juliangruber/builtins.git>

bytes@2.2.0
URL: <https://github.com/visionmedia/bytes.js.git>
VendorName: TJ Holowaychuk
VendorUrl: <http://tjholowaychuk.com>

bytes@2.4.0
URL: <https://github.com/visionmedia/bytes.js.git>
VendorName: TJ Holowaychuk
VendorUrl: <http://tjholowaychuk.com>

bytes@3.0.0
URL: <https://github.com/visionmedia/bytes.js.git>
VendorName: TJ Holowaychuk
VendorUrl: <http://tjholowaychuk.com>

bytes@3.1.0
URL: <https://github.com/visionmedia/bytes.js.git>
VendorName: TJ Holowaychuk
VendorUrl: <http://tjholowaychuk.com>

camelcase-keys@2.1.0
URL: <https://github.com/sindresorhus/camelcase-keys.git>
VendorName: Sindre Sorhus
VendorUrl: <http://sindresorhus.com>

camelcase@1.2.1
URL: <https://github.com/sindresorhus/camelcase.git>
VendorName: Sindre Sorhus
VendorUrl: <http://sindresorhus.com>

camelcase@2.1.1
URL: <https://github.com/sindresorhus/camelcase.git>
VendorName: Sindre Sorhus
VendorUrl: <http://sindresorhus.com>

camelcase@3.0.0
URL: <https://github.com/sindresorhus/camelcase.git>
VendorName: Sindre Sorhus
VendorUrl: <http://sindresorhus.com>

can-symlink@1.0.0
URL: <https://github.com/raytiley/can-symlink>
VendorName: raytiley

cardinal@0.5.0
URL: <git://github.com/thlorenz/cardinal.git>
VendorName: Thorsten Lorenz
VendorUrl: thlorenz.com

center-align@0.1.3

URL: <https://github.com/jonschlinkert/center-align.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/center-align>
chalk@0.4.0

URL: <https://github.com/sindresorhus/chalk.git>
VendorName: Sindre Sorhus
VendorUrl: <http://sindresorhus.com>
chalk@0.5.1

URL: <https://github.com/sindresorhus/chalk.git>
chalk@1.1.0

URL: <https://github.com/chalk/chalk.git>
chalk@1.1.3

URL: <https://github.com/chalk/chalk.git>
chalk@2.4.2

URL: <https://github.com/chalk/chalk.git>
charm@1.0.2

URL: <http://github.com/substack/node-charm.git>
VendorName: James Halliday
VendorUrl: <http://substack.net>

clean-css@2.2.23

URL: <https://github.com/GoalSmashers/clean-css.git>
VendorName: Jakub Pawlowicz
VendorUrl: <https://github.com/GoalSmashers/clean-css>

cli-color@0.3.3

URL: <git://github.com/medikoo/cli-color.git>
VendorName: Mariusz Nowak
VendorUrl: <http://www.medikoo.com/>

cli-table@0.3.1

URL: <https://github.com/Automattic/cli-table.git>
VendorName: Guillermo Rauch

cli@1.0.1

URL: <http://github.com/node-js-libs/cli.git>
VendorName: Chris O'Hara
VendorUrl: <http://github.com/node-js-libs/cli>

clone@0.2.0

URL: <git://github.com/pvorb/node-clone.git>
VendorName: Paul Vorbach
VendorUrl: <http://paul.vorba.ch/>

clone@1.0.4

URL: <git://github.com/pvorb/node-clone.git>
VendorName: Paul Vorbach
VendorUrl: <http://paul.vorba.ch/>

clone@2.1.2

URL: <git://github.com/pvorb/node-clone.git>
VendorName: Paul Vorbach
VendorUrl: <http://paul.vorba.ch/>

co@4.6.0

URL: <https://github.com/tj/co.git>

code-point-at@1.1.0
URL: <https://github.com/sindresorhus/code-point-at.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

color-convert@1.9.3
URL: <https://github.com/Qix-/color-convert.git>
VendorName: Heather Arthur

color-name@1.1.3
URL: [git@github.com:dfcreative/color-name.git](https://github.com/dfcreative/color-name.git)
VendorName: DY
VendorUrl: <https://github.com/dfcreative/color-name>

colors@1.0.3
URL: [http://github.com/Marak/colors.js.git](https://github.com/Marak/colors.js.git)
VendorName: Marak Squires
VendorUrl: <https://github.com/Marak/colors.js>

columnify@1.5.4
URL: [git://github.com/timoxley/columnify.git](https://github.com/timoxley/columnify.git)
VendorName: Tim Oxley
VendorUrl: <https://github.com/timoxley/columnify>

combined-stream@1.0.8
URL: [git://github.com/felixge/node-combined-stream.git](https://github.com/felixge/node-combined-stream.git)
VendorName: Felix Geisendrfer
VendorUrl: <https://github.com/felixge/node-combined-stream>

commander@2.1.0
URL: <https://github.com/visionmedia/commander.js.git>
VendorName: TJ Holowaychuk

commander@2.2.0
URL: <https://github.com/visionmedia/commander.js.git>
VendorName: TJ Holowaychuk

commander@2.20.3
URL: <https://github.com/tj/commander.js.git>
VendorName: TJ Holowaychuk

commoner@0.10.8
URL: [git://github.com/benjamn/commoner.git](https://github.com/benjamn/commoner.git)
VendorName: Ben Newman
VendorUrl: <http://github.com/benjamn/commoner>

compressible@2.0.17
URL: <https://github.com/jshttp/compressible.git>

compression@1.7.4
URL: <https://github.com/expressjs/compression.git>

concat-map@0.0.1
URL: [git://github.com/substack/node-concat-map.git](https://github.com/substack/node-concat-map.git)
VendorName: James Halliday
VendorUrl: <http://substack.net>

concat-stream@1.5.0
URL: [http://github.com/maxogden/concat-stream.git](https://github.com/maxogden/concat-stream.git)
VendorName: Max Ogden

concat-stream@1.6.2

URL: <http://github.com/maxogden/concat-stream.git>
VendorName: Max Ogden
config-chain@1.1.12
URL: <https://github.com/dominictarr/config-chain.git>
VendorName: Dominic Tarr
VendorUrl: <http://github.com/dominictarr/config-chain>
connect@3.7.0
URL: <https://github.com/senchalabs/connect.git>
VendorName: TJ Holowaychuk
VendorUrl: <http://tjholowaychuk.com>
console-browserify@1.1.0
URL: <git://github.com/Raynos/console-browserify.git>
VendorName: Raynos
VendorUrl: <https://github.com/Raynos/console-browserify>
consolidate@0.13.1
URL: <https://github.com/visionmedia/consolidate.js.git>
VendorName: TJ Holowaychuk
content-disposition@0.5.3
URL: <https://github.com/jshttp/content-disposition.git>
VendorName: Douglas Christopher Wilson
content-type@1.0.4
URL: <https://github.com/jshttp/content-type.git>
VendorName: Douglas Christopher Wilson
convert-source-map@1.7.0
URL: <git://github.com/thlorenz/convert-source-map.git>
VendorName: Thorsten Lorenz
VendorUrl: <https://github.com/thlorenz/convert-source-map>
cookie-signature@1.0.6
URL: <https://github.com/visionmedia/node-cookie-signature.git>
VendorName: TJ Holowaychuk
cookie@0.4.0
URL: <https://github.com/jshttp/cookie.git>
VendorName: Roman Shtylman
copy-dereference@1.0.0
URL: <https://github.com/broccolijs/node-copy-dereference>
VendorName: Jo Liss
core-js@1.2.7
URL: <https://github.com/zloirock/core-js.git>
core-object@0.0.2
URL: https://github.com/stefanpenner/core_object.git
VendorName: Ember core team and ember cli contributors
VendorUrl: https://github.com/stefanpenner/core_object
core-util-is@1.0.2
URL: <git://github.com/isaacs/core-util-is>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>
cross-spawn-async@2.2.5
URL: <git://github.com/IndigoUnited/node-cross-spawn-async.git>

VendorName: IndigoUnited
VendorUrl: <http://indigounited.com>
cross-spawn@3.0.1
URL: <git://github.com/IndigoUnited/node-cross-spawn.git>
VendorName: IndigoUnited
VendorUrl: <http://indigounited.com>
ctype@0.5.3
URL: <https://github.com/rmustacc/node-ctype.git>
VendorName: Robert Mustacchi
VendorUrl: <https://github.com/rmustacc/node-ctype>
currently-unhandled@0.4.1
URL: <https://github.com/jamestalmage/currently-unhandled.git>
VendorName: James Talmage
VendorUrl: github.com/jamestalmage
d@0.1.1
URL: <git://github.com/medikoo/d.git>
VendorName: Mariusz Nowak
VendorUrl: <http://www.medikoo.com/>
dashdash@1.14.1
URL: <git://github.com/trentm/node-dashdash.git>
VendorName: Trent Mick
VendorUrl: <http://trentm.com>
date-now@0.1.4
URL: <git://github.com/Colingo/date-now.git>
VendorName: Raynos
VendorUrl: <https://github.com/Colingo/date-now>
debug@0.7.4
URL: <git://github.com/visionmedia/debug.git>
VendorName: TJ Holowaychuk
debug@1.0.2
URL: <git://github.com/visionmedia/debug.git>
VendorName: TJ Holowaychuk
debug@1.0.3
URL: <git://github.com/visionmedia/debug.git>
VendorName: TJ Holowaychuk
debug@1.0.4
URL: <git://github.com/visionmedia/debug.git>
VendorName: TJ Holowaychuk
debug@2.1.0
URL: <git://github.com/visionmedia/debug.git>
VendorName: TJ Holowaychuk
debug@2.2.0
URL: <git://github.com/visionmedia/debug.git>
VendorName: TJ Holowaychuk
debug@2.6.9
URL: <git://github.com/visionmedia/debug.git>
VendorName: TJ Holowaychuk
debug@3.2.6

URL: [git://github.com/visionmedia/debug.git](https://github.com/visionmedia/debug.git)
VendorName: TJ Holowaychuk
debuglog@1.0.1
URL: <https://github.com/sam-github/node-debuglog.git>
VendorName: Sam Roberts
decamelize@1.2.0
URL: <https://github.com/sindresorhus/decamelize.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
defaults@1.0.3
URL: [git://github.com/tmpvar/defaults.git](https://github.com/tmpvar/defaults.git)
VendorName: Elijah Insua
defined@1.0.0
URL: [git://github.com/substack/defined.git](https://github.com/substack/defined.git)
VendorName: James Halliday
VendorUrl: <https://github.com/substack/defined>
defs@1.1.1
URL: <https://github.com/olov/defs.git>
VendorName: Olov Lassus
delayed-stream@1.0.0
URL: [git://github.com/felixge/node-delayed-stream.git](https://github.com/felixge/node-delayed-stream.git)
VendorName: Felix Geisendrfer
VendorUrl: <https://github.com/felixge/node-delayed-stream>
delegates@1.0.0
URL: <https://github.com/visionmedia/node-delegates.git>
depd@1.1.2
URL: <https://github.com/dougwilson/nodejs-depd.git>
VendorName: Douglas Christopher Wilson
destroy@1.0.4
URL: <https://github.com/stream-utils/destroy.git>
VendorName: Jonathan Ong
VendorUrl: <http://jongleberry.com>
detect-indent@3.0.1
URL: <https://github.com/sindresorhus/detect-indent.git>
VendorName: Sindre Sorhus
VendorUrl: <http://sindresorhus.com>
detective@4.7.1
URL: [git://github.com/browserify/detective.git](https://github.com/browserify/detective.git)
VendorName: James Halliday
VendorUrl: <http://substack.net>
did_it_work@0.0.6
VendorName: Toby Ho
dom-serializer@0.2.2
URL: [git://github.com/cheeriojs/dom-renderer.git](https://github.com/cheeriojs/dom-renderer.git)
VendorName: Felix Boehm
ecc-jsbn@0.1.2
URL: <https://github.com/quartzjer/ecc-jsbn.git>
VendorName: Jeremie Miller

VendorUrl: <https://github.com/quartzjer/ecc-jsbn>
editions@1.3.4
URL: <https://github.com/bevry/editions.git>
VendorName: 2016+ Bevry Pty Ltd
VendorUrl: <https://github.com/bevry/editions>
editor@1.0.0
URL: <git://github.com/substack/node-editor.git>
VendorName: James Halliday
VendorUrl: <https://github.com/substack/node-editor>
ee-first@1.1.1
URL: <https://github.com/jonathanong/ee-first.git>
VendorName: Jonathan Ong
VendorUrl: <http://jongleberry.com>
em-helpers@0.8.0
URL: <https://github.com/sreenaths/em-helpers.git>
VendorName: Sreenath Somarajapuram
em-table@0.12.0
URL: <https://github.com/sreenaths/em-table.git>
VendorName: Sreenath Somarajapuram
ember-array-contains-helper@1.0.2
URL: <https://github.com/bmeurant/ember-array-contains-helper>
VendorName: Baptiste Meurant
ember-bootstrap@0.5.1
URL: <https://github.com/kaliber5/ember-bootstrap>
VendorName: Simon Ihmig
VendorUrl: <http://kaliber5.github.io/ember-bootstrap/>
ember-cli-app-version@1.0.0
URL: <https://github.com/embersherpa/ember-cli-app-version.git>
VendorName: Taras Mankovski
ember-cli-babel@5.1.6
URL: <git://github.com/babel/ember-cli-babel.git>
VendorName: Gordon Kristan
VendorUrl: <https://github.com/babel/ember-cli-babel>
ember-cli-babel@5.2.8
URL: <git://github.com/babel/ember-cli-babel.git>
VendorName: Gordon Kristan
ember-cli-content-security-policy@0.4.0
URL: <https://github.com/rwjblue/ember-cli-content-security-policy>
ember-cli-copy-dereference@1.0.0
URL: <https://github.com/broccolijs/node-copy-dereference>
VendorName: Jo Liss
ember-cli-dependency-checker@1.2.0
URL: <https://github.com/quaertym/ember-cli-dependency-checker.git>
VendorName: Emre Unal
ember-cli-htmlbars-inline-precompile@0.3.1
URL: <https://github.com/pangratz/ember-cli-htmlbars-inline-precompile>
VendorName: Clemens Miller
ember-cli-htmlbars@0.7.6

URL: [git@github.com:ember-cli/ember-cli-htmlbars.git](https://github.com/ember-cli/ember-cli-htmlbars.git)
VendorName: Jonathan Jackson & Chase McCarthy
VendorUrl: <https://github.com/ember-cli/ember-cli-htmlbars>
ember-cli-htmlbars@1.0.2

URL: [git@github.com:ember-cli/ember-cli-htmlbars.git](https://github.com/ember-cli/ember-cli-htmlbars.git)
VendorName: Jonathan Jackson & Chase McCarthy
VendorUrl: <https://github.com/ember-cli/ember-cli-htmlbars>
ember-cli-htmlbars@1.3.5

URL: [git@github.com:ember-cli/ember-cli-htmlbars.git](https://github.com/ember-cli/ember-cli-htmlbars.git)
VendorName: Jonathan Jackson & Chase McCarthy
VendorUrl: <https://github.com/ember-cli/ember-cli-htmlbars>
ember-cli-ic-ajax@0.2.1

URL: <https://github.com/rjackson/ember-cli-ic-ajax>
VendorName: Robert Jackson
VendorUrl: <https://github.com/rjackson/ember-cli-ic-ajax>
ember-cli-inject-live-reload@1.4.0

URL: [git://github.com/rwjblue/ember-cli-inject-live-reload.git](https://github.com/rwjblue/ember-cli-inject-live-reload.git)
VendorName: Robert Jackson
VendorUrl: <https://github.com/rwjblue/ember-cli-inject-live-reload>
ember-cli-jquery-ui@0.0.20

URL: <https://github.com/gaurav0/ember-cli-jquery-ui>
VendorName: Gaurav Munjal
ember-cli-less@1.5.7

URL: <https://github.com/gdub22/ember-cli-less>
VendorName: Garth Poitras
ember-cli-moment-shim@0.7.3

URL: [git://github.com/jasonmit/ember-cli-moment-shim.git](https://github.com/jasonmit/ember-cli-moment-shim.git)
VendorName: Jason Mitchell
VendorUrl: <https://github.com/jasonmit/ember-cli-moment-shim>
ember-cli-node-assets@0.1.6

URL: <https://github.com/dfreeman/ember-cli-node-assets.git>
VendorName: Dan Freeman
ember-cli-numeral@0.2.0

URL: <http://github.com/josemarluedke/ember-cli-numeral>
VendorName: Jay Phelps
VendorUrl: <https://github.com/josemarluedke/ember-cli-numeral>
ember-cli-qunit@1.2.1

URL: <https://github.com/ember-cli/ember-cli-qunit.git>
VendorName: Jake Craige
VendorUrl: <https://github.com/ember-cli/ember-cli-qunit>
ember-cli-release@0.2.8

URL: <https://github.com/lytics/ember-cli-release.git>
VendorName: Steven Lindberg
ember-cli-sass@7.0.0

URL: [git://github.com/aexmachina/ember-cli-sass.git](https://github.com/aexmachina/ember-cli-sass.git)
VendorName: @aexmachina
VendorUrl: <https://github.com/aexmachina/ember-cli-sass>
ember-cli-sri@1.2.1

URL: <https://github.com/jonathanKingston/ember-cli-sri>
VendorName: Jonathan Kingston
ember-cli-uglify@1.2.0
URL: <https://github.com/ember-cli/ember-cli-uglify.git>
ember-cli-version-checker@1.3.1
URL: <https://github.com/rwjblue/ember-cli-version-checker.git>
VendorName: Robert Jackson
VendorUrl: <https://github.com/rwjblue/ember-cli-version-checker>
ember-cli@1.13.14
URL: <https://github.com/ember-cli/ember-cli.git>
VendorName: Stefan Penner, Robert Jackson and ember-cli contributors
ember-d3@0.1.0
URL: <https://github.com/brzpegasus/ember-d3>
VendorName: Estelle DeBlois
ember-data@2.1.0
URL: <git://github.com/emberjs/data.git>
ember-disable-proxy-controllers@1.0.1
URL: <https://github.com/cibernox/ember-disable-proxy-controllers>
VendorName: Miguel Camba
ember-export-application-global@1.0.5
URL: <https://github.com/ember-cli/ember-export-application-global.git>
VendorName: Robert Jackson
VendorUrl: <https://github.com/ember-cli/ember-export-application-global>
ember-lodash@0.0.10
URL: <https://github.com/levanto-financial/ember-lodash.git>
VendorName: Mike North
VendorUrl: <https://github.com/levanto-financial/ember-lodash>
ember-qunit@0.4.24
URL: <https://github.com/rwjblue/ember-qunit.git>
ember-resolver@2.0.3
URL: <git+https://github.com/ember-cli/ember-resolver.git>
VendorName: Robert Jackson
VendorUrl: <https://github.com/ember-cli/ember-resolver#readme>
ember-router-generator@1.2.3
URL: <https://github.com/ember-cli/ember-router-generator.git>
VendorName: Adolfo Builes
VendorUrl: <https://github.com/ember-cli/ember-router-generator>
ember-spin-spinner@0.2.3
URL: <https://github.com/rsschermer/ember-spin-spinner>
VendorName: Roland Schermer
VendorUrl: <https://github.com/rsschermer/ember-spin-spinner>
ember-truth-helpers@1.3.0
URL: <https://github.com/jmurphyau/ember-truth-helpers>
VendorName: James Murphy
ember-wormhole@0.3.6
URL: <https://github.com/yapplabs/ember-wormhole.git>
VendorName: Yapp Labs
encodeurl@1.0.2

URL: <https://github.com/pillarjs/encodeurl.git>
engine.io-parser@1.2.2
URL: [git@github.com:Automattic/engine.io-parser.git](https://github.com/Automattic/engine.io-parser.git)
VendorUrl: <https://github.com/Automattic/engine.io-parser>
engine.io-pure@1.5.9
URL: [git@github.com:Automattic/engine.io.git](https://github.com/Automattic/engine.io.git)
VendorName: Guillermo Rauch
VendorUrl: <https://github.com/LearnBoost/engine.io>
errno@0.1.7
URL: <https://github.com/rvagg/node-errno.git>
error-ex@1.3.2
URL: <https://github.com/qix-/node-error-ex.git>
es6-iterator@0.1.3
URL: [git://github.com/medikoo/es6-iterator.git](https://github.com/medikoo/es6-iterator.git)
VendorName: Mariusz Nowak
VendorUrl: <http://www.medikoo.com/>
es6-iterator@2.0.3
URL: [git://github.com/medikoo/es6-iterator.git](https://github.com/medikoo/es6-iterator.git)
VendorName: Mariusz Nowak
VendorUrl: <http://www.medikoo.com/>
es6-promise@4.0.5
URL: [git://github.com/stefanpenner/es6-promise.git](https://github.com/stefanpenner/es6-promise.git)
VendorName: Yehuda Katz, Tom Dale, Stefan Penner and contributors
VendorUrl: Conversion to ES6 API by Jake Archibald
es6-symbol@2.0.1
URL: [git://github.com/medikoo/es6-symbol.git](https://github.com/medikoo/es6-symbol.git)
VendorName: Mariusz Nowak
VendorUrl: <http://www.medikoo.com/>
es6-weak-map@0.1.4
URL: [git://github.com/medikoo/es6-weak-map.git](https://github.com/medikoo/es6-weak-map.git)
VendorName: Mariusz Nowak
VendorUrl: <http://www.medikoo.com/>
escape-html@1.0.3
URL: <https://github.com/component/escape-html.git>
escape-string-regexp@1.0.5
URL: <https://github.com/sindresorhus/escape-string-regexp.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
etag@1.8.1
URL: <https://github.com/jshttp/etag.git>
event-emitter@0.3.5
URL: [git://github.com/medikoo/event-emitter.git](https://github.com/medikoo/event-emitter.git)
VendorName: Mariusz Nowak
VendorUrl: <http://www.medikoo.com/>
eventemitter3@4.0.0
URL: [git://github.com/primus/eventemitter3.git](https://github.com/primus/eventemitter3.git)
VendorName: Arnout Kazemier
exec-sh@0.2.2

URL: [git@github.com:tsertkov/exec-sh.git](https://github.com/tsertkov/exec-sh.git)
VendorName: Aleksandr Tsertkov
exit@0.1.2
URL: [git://github.com/cowboy/node-exit.git](https://github.com/cowboy/node-exit.git)
VendorName: "Cowboy" Ben Alman
VendorUrl: <https://github.com/cowboy/node-exit>
expand-brackets@0.1.5
URL: <https://github.com/jonschlinkert/expand-brackets.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/expand-brackets>
expand-range@1.8.2
URL: <https://github.com/jonschlinkert/expand-range.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/expand-range>
express@4.17.1
URL: <https://github.com/expressjs/express.git>
VendorName: TJ Holowaychuk
VendorUrl: <http://expressjs.com/>
extend@3.0.2
URL: <https://github.com/justmoon/node-extend.git>
VendorName: Stefan Thomas
VendorUrl: <http://www.justmoon.net>
extglob@0.3.2
URL: [git://github.com/jonschlinkert/extglob.git](https://github.com/jonschlinkert/extglob.git)
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/extglob>
extsprintf@1.3.0
URL: [git://github.com/davepacheco/node-extsprintf.git](https://github.com/davepacheco/node-extsprintf.git)
extsprintf@1.4.0
URL: [git://github.com/davepacheco/node-extsprintf.git](https://github.com/davepacheco/node-extsprintf.git)
fast-deep-equal@2.0.1
URL: [git+https://github.com/epoberezkin/fast-deep-equal.git](https://github.com/epoberezkin/fast-deep-equal.git)
VendorName: Evgeny Poberezkin
VendorUrl: <https://github.com/epoberezkin/fast-deep-equal#readme>
fast-json-stable-stringify@2.1.0
URL: [git://github.com/epoberezkin/fast-json-stable-stringify.git](https://github.com/epoberezkin/fast-json-stable-stringify.git)
VendorName: James Halliday
VendorUrl: <https://github.com/epoberezkin/fast-json-stable-stringify>
fast-sourcemap-concat@0.2.7
URL: <https://github.com/ef4/fast-sourcemap-concat>
VendorName: Edward Faulkner
faye-websocket@0.10.0
URL: [git://github.com/faye/faye-websocket-node.git](https://github.com/faye/faye-websocket-node.git)
VendorName: James Coglán
VendorUrl: <http://github.com/faye/faye-websocket-node>
fd-slicer@1.0.1
URL: [git://github.com/andrewrk/node-fd-slicer.git](https://github.com/andrewrk/node-fd-slicer.git)
VendorName: Andrew Kelley

filename-regex@2.0.1

URL: <https://github.com/regexhq/filename-regex.git>

VendorName: Jon Schlinkert

VendorUrl: <https://github.com/regexhq/filename-regex>

fileset@0.2.1

URL: <git://github.com/mklabs/node-fileset.git>

VendorName: mklabs

VendorUrl: <https://github.com/mklabs/node-fileset>

fill-range@2.2.4

URL: <https://github.com/jonschlinkert/fill-range.git>

VendorName: Jon Schlinkert

VendorUrl: <https://github.com/jonschlinkert/fill-range>

finalhandler@1.1.2

URL: <https://github.com/pillarjs/finalhandler.git>

VendorName: Douglas Christopher Wilson

find-up@1.1.2

URL: <https://github.com/sindresorhus/find-up.git>

VendorName: Sindre Sorhus

VendorUrl: sindresorhus.com

findup-sync@0.2.1

URL: <git://github.com/cowboy/node-findup-sync.git>

VendorName: "Cowboy" Ben Alman

VendorUrl: <https://github.com/cowboy/node-findup-sync>

findup-sync@0.3.0

URL: <git://github.com/cowboy/node-findup-sync.git>

VendorName: "Cowboy" Ben Alman

VendorUrl: <https://github.com/cowboy/node-findup-sync>

findup@0.1.5

URL: <https://github.com/Filirom1/findup.git>

VendorName: Filirom1

fireworm@0.6.6

URL: <git@github.com:airportyh/fireworm.git>

VendorName: Toby Ho

follow-redirects@1.9.0

URL: <git@github.com:follow-redirects/follow-redirects.git>

VendorName: Ruben Verborgh

VendorUrl: <https://github.com/follow-redirects/follow-redirects>

for-in@1.0.2

URL: <https://github.com/jonschlinkert/for-in.git>

VendorName: Jon Schlinkert

VendorUrl: <https://github.com/jonschlinkert/for-in>

for-own@0.1.5

URL: <https://github.com/jonschlinkert/for-own.git>

VendorName: Jon Schlinkert

VendorUrl: <https://github.com/jonschlinkert/for-own>

form-data@1.0.1

URL: <git://github.com/form-data/form-data.git>

VendorName: Felix Geisendrfer

VendorUrl: <http://debuggable.com/>
form-data@2.1.4
URL: <git://github.com/form-data/form-data.git>
VendorName: Felix Geisendrfer
VendorUrl: <http://debuggable.com/>
form-data@2.3.3
URL: <git://github.com/form-data/form-data.git>
VendorName: Felix Geisendrfer
VendorUrl: <http://debuggable.com/>
forwarded@0.1.2
URL: <https://github.com/jshttp/forwarded.git>
fresh@0.5.2
URL: <https://github.com/jshttp/fresh.git>
VendorName: TJ Holowaychuk
VendorUrl: <http://tjholowaychuk.com>
fs-extra@0.16.5
URL: <https://github.com/jprichardson/node-fs-extra>
VendorName: JP Richardson
VendorUrl: <https://github.com/jprichardson/node-fs-extra>
fs-extra@0.22.1
URL: <https://github.com/jprichardson/node-fs-extra>
VendorName: JP Richardson
VendorUrl: <https://github.com/jprichardson/node-fs-extra>
fs-extra@0.24.0
URL: <https://github.com/jprichardson/node-fs-extra>
VendorName: JP Richardson
VendorUrl: <https://github.com/jprichardson/node-fs-extra>
fs-extra@0.30.0
URL: <https://github.com/jprichardson/node-fs-extra>
VendorName: JP Richardson
VendorUrl: <https://github.com/jprichardson/node-fs-extra>
fs-extra@5.0.0
URL: <https://github.com/jprichardson/node-fs-extra>
VendorName: JP Richardson
VendorUrl: <https://github.com/jprichardson/node-fs-extra>
fs-readdir-recursive@0.1.2
URL: <https://github.com/fs-utils/fs-readdir-recursive.git>
VendorName: Jonathan Ong
VendorUrl: <http://jongleberry.com>
fs-tree-diff@0.3.1
VendorName: Stefan Penner, David J. Hamilton, Chad Hietala
fs-tree-diff@0.4.4
VendorName: Stefan Penner, David J. Hamilton, Chad Hietala
fs-tree-diff@0.5.9
URL: <git://github.com/stefanpenner/fs-tree-diff.git>
VendorName: Stefan Penner, David J. Hamilton, Chad Hietala
gaze@1.1.3
URL: <https://github.com/shama/gaze.git>

VendorName: Kyle Robinson Young
VendorUrl: <https://github.com/shama/gaze>
generate-function@2.3.1
URL: <https://github.com/mafintosh/generate-function>
VendorName: Mathias Buus
VendorUrl: <https://github.com/mafintosh/generate-function>
generate-object-property@1.2.0
URL: <https://github.com/mafintosh/generate-object-property>
VendorName: Mathias Buus
VendorUrl: <https://github.com/mafintosh/generate-object-property>
get-stdin@4.0.1
URL: <https://github.com/sindresorhus/get-stdin.git>
VendorName: Sindre Sorhus
VendorUrl: <http://sindresorhus.com>
getpass@0.1.7
URL: <https://github.com/arekinath/node-getpass.git>
VendorName: Alex Wilson
git-repo-info@1.4.1
URL: <https://github.com/rwjblue/git-repo-info.git>
VendorName: Robert Jackson
VendorUrl: <https://github.com/rwjblue/git-repo-info>
git-repo-version@0.3.0
URL: <https://github.com/cibernox/git-repo-version>
VendorName: Miguel Camba
github-url-from-git@1.4.0
URL: <https://github.com/visionmedia/node-github-url-from-git.git>
VendorName: TJ Holowaychuk
glob-base@0.3.0
URL: <git://github.com/jonschlinkert/glob-base.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/glob-base>
globals@6.4.1
URL: <https://github.com/sindresorhus/globals.git>
VendorName: Sindre Sorhus
VendorUrl: <http://sindresorhus.com>
globule@1.3.0
URL: <git://github.com/cowboy/node-globule.git>
VendorName: "Cowboy" Ben Alman
VendorUrl: <https://github.com/cowboy/node-globule>
growl@1.10.5
URL: <git://github.com/tj/node-growl.git>
VendorName: TJ Holowaychuk
handlebars@3.0.7
URL: <https://github.com/wycats/handlebars.js.git>
VendorName: Yehuda Katz
VendorUrl: <http://www.handlebarsjs.com/>
har-validator@5.1.3
URL: <https://github.com/ahmadnassri/node-har-validator.git>

VendorName: Ahmad Nassri
VendorUrl: <https://github.com/ahmadnassri/node-har-validator>
has-ansi@0.1.0
URL: <https://github.com/sindresorhus/has-ansi.git>
VendorName: Sindre Sorhus
VendorUrl: <http://sindresorhus.com>
has-ansi@2.0.0
URL: <https://github.com/sindresorhus/has-ansi.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
has-binary@0.1.6
VendorName: Kevin Roark
has-color@0.1.7
URL: <https://github.com/sindresorhus/has-color.git>
VendorName: Sindre Sorhus
VendorUrl: <http://sindresorhus.com>
has-cors@1.1.0
URL: <git://github.com/component/has-cors.git>
VendorName: Nathan Rajlich
VendorUrl: <http://n8.io/>
has-flag@3.0.0
URL: <https://github.com/sindresorhus/has-flag.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
hasha@2.2.0
URL: <https://github.com/sindresorhus/hasha.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
heimdalljs-logger@0.1.10
URL: <git+https://github.com/heimdalljs/heimdalljs-logger.git>
VendorName: David J. Hamilton
VendorUrl: <https://github.com/heimdalljs/heimdalljs-logger#README.md>
heimdalljs@0.2.6
URL: <git+https://github.com/heimdalljs/heimdalljs-lib.git>
VendorUrl: <https://github.com/hjdivad/heimdalljs-lib#readme>
home-or-tmp@1.0.0
URL: <https://github.com/sindresorhus/home-or-tmp.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
htmlparser2@3.8.3
URL: <git://github.com/fb55/htmlparser2.git>
VendorName: Felix Boehm
http-errors@1.3.1
URL: <https://github.com/jshttp/http-errors.git>
VendorName: Jonathan Ong
VendorUrl: <http://jongleberry.com>
http-errors@1.7.2
URL: <https://github.com/jshttp/http-errors.git>

VendorName: Jonathan Ong
VendorUrl: <http://jongleberry.com>
http-errors@1.7.3
URL: <https://github.com/jshttp/http-errors.git>
VendorName: Jonathan Ong
VendorUrl: <http://jongleberry.com>
http-parser-js@0.4.10
URL: <git://github.com/creationix/http-parser-js.git>
VendorName: Tim Caswell
VendorUrl: <https://github.com/creationix>
http-proxy@1.18.0
URL: <https://github.com/http-party/node-http-proxy.git>
VendorName: Charlie Robbins
http-signature@0.11.0
URL: <git://github.com/joyent/node-http-signature.git>
VendorName: Joyent, Inc
VendorUrl: <https://github.com/joyent/node-http-signature/>
http-signature@1.1.1
URL: <git://github.com/joyent/node-http-signature.git>
VendorName: Joyent, Inc
VendorUrl: <https://github.com/joyent/node-http-signature/>
http-signature@1.2.0
URL: <git://github.com/joyent/node-http-signature.git>
VendorName: Joyent, Inc
VendorUrl: <https://github.com/joyent/node-http-signature/>
ic-ajax@2.0.2
URL: <https://github.com/instructure/ic-ajax.git>
VendorName: Ryan Florence
VendorUrl: <https://github.com/instructure/ic-ajax>
iconv-lite@0.4.13
URL: <git://github.com/ashtuchkin/iconv-lite.git>
VendorName: Alexander Shtuchkin
VendorUrl: <https://github.com/ashtuchkin/iconv-lite>
iconv-lite@0.4.24
URL: <git://github.com/ashtuchkin/iconv-lite.git>
VendorName: Alexander Shtuchkin
VendorUrl: <https://github.com/ashtuchkin/iconv-lite>
iferr@0.1.5
URL: <https://github.com/shesek/iferr>
VendorName: Nadav Ivgi
VendorUrl: <https://github.com/shesek/iferr>
image-size@0.5.5
URL: <https://github.com/image-size/image-size.git>
VendorName: netroy
VendorUrl: <http://netroy.in/>
imurmurhash@0.1.4
URL: <https://github.com/jensyt/imurmurhash-js>
VendorName: Jens Taylor

VendorUrl: <https://github.com/jensyt/imurmurhash-js>
include-path-searcher@0.1.0
URL: <https://github.com/joliss/include-path-searcher>
VendorName: Jo Liss

indent-string@2.1.0
URL: <https://github.com/sindresorhus/indent-string.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

inflection@1.12.0
URL: <https://github.com/dreamerslab/node.inflection.git>
VendorName: dreamerslab

inquirer@0.5.1
URL: <git://github.com/SBoudrias/Inquirer.js.git>
VendorName: Simon Boudrias

invert-kv@1.0.0
URL: <https://github.com/sindresorhus/invert-kv.git>
VendorName: Sindre Sorhus
VendorUrl: <http://sindresorhus.com>

ipaddr.js@1.9.0
URL: <git://github.com/whitequark/ipaddr.js>
VendorName: whitequark

is-arrayish@0.2.1
URL: <https://github.com/qix-/node-is-arrayish.git>
VendorName: Qix
VendorUrl: <http://github.com/qix->

is-buffer@1.1.6
URL: <git://github.com/feross/is-buffer.git>
VendorName: Feross Aboukhadijeh
VendorUrl: <http://feross.org/>

is-builtin-module@1.0.0
URL: <https://github.com/sindresorhus/is-builtin-module.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

is-dotfile@1.0.3
URL: <https://github.com/jonschlinkert/is-dotfile.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/is-dotfile>

is-equal-shallow@0.1.3
URL: <git://github.com/jonschlinkert/is-equal-shallow.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/is-equal-shallow>

is-extendable@0.1.1
URL: <https://github.com/jonschlinkert/is-extendable.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/is-extendable>

is-extglob@1.0.0
URL: <https://github.com/jonschlinkert/is-extglob.git>
VendorName: Jon Schlinkert

VendorUrl: <https://github.com/jonschlinkert/is-extglob>
is-finite@1.0.2
URL: <https://github.com/sindresorhus/is-finite.git>
VendorName: Sindre Sorhus
VendorUrl: [sindresorhus.com](https://github.com/sindresorhus)

is-fullwidth-code-point@1.0.0
URL: <https://github.com/sindresorhus/is-fullwidth-code-point.git>
VendorName: Sindre Sorhus
VendorUrl: [sindresorhus.com](https://github.com/sindresorhus)

is-fullwidth-code-point@2.0.0
URL: <https://github.com/sindresorhus/is-fullwidth-code-point.git>
VendorName: Sindre Sorhus
VendorUrl: [sindresorhus.com](https://github.com/sindresorhus)

is-git-url@0.2.0
URL: [git://github.com/jonschlinkert/is-git-url.git](https://github.com/jonschlinkert/is-git-url.git)
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/is-git-url>

is-git-url@0.2.3
URL: <https://github.com/jonschlinkert/is-git-url.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/is-git-url>

is-glob@2.0.1
URL: <https://github.com/jonschlinkert/is-glob.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/is-glob>

is-my-ip-valid@1.0.0
URL: <https://github.com/LinusU/is-my-ip-valid.git>

is-my-json-valid@2.20.0
URL: <https://github.com/mafintosh/is-my-json-valid.git>

is-number@2.1.0
URL: <https://github.com/jonschlinkert/is-number.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/is-number>

is-number@4.0.0
URL: <https://github.com/jonschlinkert/is-number.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/is-number>

is-posix-bracket@0.1.1
URL: <https://github.com/jonschlinkert/is-posix-bracket.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/is-posix-bracket>

is-primitive@2.0.0
URL: [git://github.com/jonschlinkert/is-primitive.git](https://github.com/jonschlinkert/is-primitive.git)
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/is-primitive>

is-property@1.0.2
URL: [git://github.com/mikolajsenko/is-property.git](https://github.com/mikolajsenko/is-property.git)
VendorName: Mikola Lysenko

is-stream@1.1.0
URL: <https://github.com/sindresorhus/is-stream.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

is-type@0.0.1
URL: [git://github.com/juliangruber/is-type.git](https://github.com/juliangruber/is-type.git)
VendorName: Julian Gruber
VendorUrl: <https://github.com/juliangruber/is-type>

is-typedarray@1.0.0
URL: [git://github.com/hughsk/is-typedarray.git](https://github.com/hughsk/is-typedarray.git)
VendorName: Hugh Kennedy
VendorUrl: <https://github.com/hughsk/is-typedarray>

is-utf8@0.2.1
URL: <https://github.com/wayfind/is-utf8.git>
VendorName: wayfind

isarray@0.0.1
URL: [git://github.com/juliangruber/isarray.git](https://github.com/juliangruber/isarray.git)
VendorName: Julian Gruber
VendorUrl: <https://github.com/juliangruber/isarray>

isarray@1.0.0
URL: [git://github.com/juliangruber/isarray.git](https://github.com/juliangruber/isarray.git)
VendorName: Julian Gruber
VendorUrl: <https://github.com/juliangruber/isarray>

isbinaryfile@2.0.4
URL: <https://github.com/gjtorikian/isBinaryFile>

isobject@2.1.0
URL: <https://github.com/jonschlinkert/isobject.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/isobject>

isstream@0.1.2
URL: <https://github.com/rvagg/isstream.git>
VendorName: Rod Vagg
VendorUrl: <https://github.com/rvagg/isstream>

istextorbinary@2.1.0
URL: <http://github.com/bevry/istextorbinary.git>
VendorName: 2012+ Bevry Pty Ltd
VendorUrl: <https://github.com/bevry/istextorbinary>

js-tokens@1.0.1
URL: <https://github.com/lydell/js-tokens.git>
VendorName: Simon Lydell

js-yaml@3.13.1
URL: <https://github.com/nodeca/js-yaml.git>
VendorName: Vladimir Zapparov
VendorUrl: <https://github.com/nodeca/js-yaml>

jsbn@0.1.1
URL: <https://github.com/andyperlitch/jsbn.git>
VendorName: Tom Wu

jsesc@0.5.0

URL: <https://github.com/mathiasbynens/jsesc.git>
VendorName: Mathias Bynens
VendorUrl: <http://mths.be/jsesc>

json-parse-better-errors@1.0.2
URL: <https://github.com/zkat/json-parse-better-errors>
VendorName: Kat Marchn

json-schema-traverse@0.4.1
URL: <git+https://github.com/epoberezkin/json-schema-traverse.git>
VendorName: Evgeny Poberezkin
VendorUrl: <https://github.com/epoberezkin/json-schema-traverse#readme>

json-stable-stringify@1.0.1
URL: <git://github.com/substack/json-stable-stringify.git>
VendorName: James Halliday
VendorUrl: <https://github.com/substack/json-stable-stringify>

json3@3.2.6
URL: <git://github.com/bestiejs/json3.git>
VendorName: Kit Cambridge
VendorUrl: <http://bestiejs.github.io/json3>

json5@0.4.0
URL: <https://github.com/aseemk/json5.git>
VendorName: Aseem Kishore
VendorUrl: <http://json5.org/>

jsonfile@2.4.0
URL: <git@github.com:jprichardson/node-jsonfile.git>
VendorName: JP Richardson

jsonfile@4.0.0
URL: <git@github.com:jprichardson/node-jsonfile.git>
VendorName: JP Richardson

jsonpointer@4.0.1
URL: <http://github.com/janl/node-jsonpointer.git>
VendorName: Jan Lehnardt

jsprim@1.4.1
URL: <git://github.com/joyent/node-jsprim.git>

kind-of@3.2.2
URL: <https://github.com/jonschlinkert/kind-of.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/kind-of>

kind-of@6.0.2
URL: <https://github.com/jonschlinkert/kind-of.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/kind-of>

klassy@0.1.3
URL: <https://github.com/cerebris/klassy.js.git>

klaw@1.3.1
URL: <git+https://github.com/jprichardson/node-klaw.git>
VendorName: JP Richardson
VendorUrl: <https://github.com/jprichardson/node-klaw#readme>

lazy-cache@1.0.4

URL: <https://github.com/jonschlinkert/lazy-cache.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/lazy-cache>
lcid@1.0.0

URL: <https://github.com/sindresorhus/lcid.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
leek@0.0.18

URL: <https://github.com/twokul/leek>
VendorName: Alex Navasardyan
VendorUrl: <http://twokul.io>
leven@1.0.2

URL: <https://github.com/sindresorhus/leven.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
linkify-it@1.2.4

URL: <https://github.com/markdown-it/linkify-it.git>
livereload-js@2.4.0

URL: [git://github.com/livereload/livereload-js.git](https://github.com/livereload/livereload-js.git)
VendorUrl: <https://github.com/livereload/livereload-js>
load-json-file@1.1.0

URL: <https://github.com/sindresorhus/load-json-file.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
loader.js@4.2.3

URL: <https://github.com/ember-cli/loader.js.git>
VendorUrl: <https://github.com/ember-cli/loader.js>
lodash-es@3.10.1

URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/custom-builds>
lodash-node@2.4.1

URL: <https://github.com/lodash/lodash-node.git>
VendorName: John-David Dalton
VendorUrl: <http://lodash.com/custom-builds>
lodash-node@3.10.2

URL: <https://github.com/lodash/lodash-node.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>
lodash._arraycopy@3.0.0

URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>
lodash._arrayeach@3.0.0

URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>
lodash._baseassign@3.2.0

URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>
lodash._basecallback@3.3.1
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>
lodash._basecopy@3.0.1
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>
lodash._basefor@3.0.3
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>
lodash._baseindexOf@3.1.0
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>
lodash._baseisequal@3.0.7
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>
lodash._baseuniq@3.0.3
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>
lodash._bindcallback@3.0.1
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>
lodash._cacheindexof@3.0.2
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>
lodash._createassigner@3.1.1
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>
lodash._createcache@3.1.2
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>
lodash._getnative@3.9.1
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>
lodash._isiterateecall@3.0.9

URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>
lodash.assign@3.2.0
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>
lodash.defaults@3.1.2
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>
lodash.isarguments@3.1.0
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>
lodash.isarray@3.0.4
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>
lodash.isplainobject@3.2.0
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>
lodash.istypedarray@3.0.6
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>
lodash.keys@3.1.2
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>
lodash.keysin@3.0.8
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>
lodash.merge@3.3.2
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>
lodash.merge@4.6.2
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>
lodash.pad@4.5.1
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>
lodash.padend@4.6.1

URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>
lodash.padstart@4.6.1
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>
lodash.pairs@3.0.1
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>
lodash.restparam@3.6.1
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>
lodash.toplainobject@3.0.0
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>
lodash.uniq@3.2.2
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>
lodash@2.3.0
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <http://lodash.com/>
lodash@2.4.2
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <http://lodash.com/>
lodash@3.10.1
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>
lodash@4.17.15
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>
longest@1.0.1
URL: <https://github.com/jonschlinkert/longest.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/longest>
loud-rejection@1.6.0
URL: <https://github.com/sindresorhus/loud-rejection.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
lru-queue@0.1.0

URL: [git://github.com/medikoo/lru-queue.git](https://github.com/medikoo/lru-queue.git)
VendorName: Mariusz Nowak
VendorUrl: <http://www.medikoo.com/>
make-array@0.1.2
URL: [git://github.com/kaelzhang/make-array.git](https://github.com/kaelzhang/make-array.git)
VendorName: kael
map-obj@1.0.1
URL: <https://github.com/sindresorhus/map-obj.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
markdown-it-terminal@0.0.2
URL: [http://github.com/trabus/markdown-it-terminal](https://github.com/trabus/markdown-it-terminal)
VendorName: Jake Bixby
VendorUrl: <https://github.com/trabus/markdown-it-terminal>
markdown-it@4.3.0
URL: <https://github.com/markdown-it/markdown-it.git>
VendorUrl: <https://github.com/markdown-it/markdown-it>
markdown-it@4.4.0
URL: <https://github.com/markdown-it/markdown-it.git>
VendorUrl: <https://github.com/markdown-it/markdown-it>
math-random@1.0.4
URL: <https://github.com/michaelrhodes/math-random.git>
VendorName: Michael Rhodes
mdurl@1.0.1
URL: <https://github.com/markdown-it/mdurl.git>
media-typer@0.3.0
URL: <https://github.com/jshttp/media-typer.git>
VendorName: Douglas Christopher Wilson
memoizee@0.3.10
URL: [git://github.com/medikoo/memoizee.git](https://github.com/medikoo/memoizee.git)
VendorName: Mariusz Nowak
VendorUrl: <http://www.medikoo.com/>
meow@3.7.0
URL: <https://github.com/sindresorhus/meow.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
merge-defaults@0.2.2
URL: [git://github.com/mikermcneil/merge-defaults.git](https://github.com/mikermcneil/merge-defaults.git)
VendorName: Mike McNeil
VendorUrl: <https://github.com/mikermcneil/merge-defaults>
merge-descriptors@1.0.1
URL: <https://github.com/component/merge-descriptors.git>
VendorName: Jonathan Ong
VendorUrl: <http://jongleberry.com>
merge-trees@1.0.1
URL: <https://github.com/broccolijs/node-merge-trees>
VendorName: Jo Liss
merge@1.2.1

URL: <https://github.com/yeikos/js.merge.git>
VendorName: yeikos
VendorUrl: <https://github.com/yeikos/js.merge.methods@1.1.2>

URL: <https://github.com/jshttp/methods.git>
micromatch@2.3.11

URL: <https://github.com/jonschlinkert/micromatch.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/micromatch.mime-db@1.42.0>

URL: <https://github.com/jshttp/mime-db.git>
mime-types@2.1.25

URL: <https://github.com/jshttp/mime-types.git>
mime@1.6.0

URL: <https://github.com/broofa/node-mime>
VendorName: Robert Kieffer
VendorUrl: <http://github.com/broofa.minimatch@0.2.14>

URL: <git://github.com/isaacs/minimatch.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me>

minimatch@1.0.0

URL: <git://github.com/isaacs/minimatch.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me>

minimist@0.0.10

URL: <git://github.com/substack/minimist.git>
VendorName: James Halliday
VendorUrl: <https://github.com/substack/minimist.minimist@0.0.8>

URL: <git://github.com/substack/minimist.git>
VendorName: James Halliday
VendorUrl: <https://github.com/substack/minimist.minimist@1.2.0>

URL: <git://github.com/substack/minimist.git>
VendorName: James Halliday
VendorUrl: <https://github.com/substack/minimist.mkdirp@0.3.5>

URL: <http://github.com/substack/node-mkdirp.git>
VendorName: James Halliday
VendorUrl: <http://substack.net>

mkdirp@0.4.2

URL: <https://github.com/substack/node-mkdirp.git>
VendorName: James Halliday
VendorUrl: <http://substack.net>

mkdirp@0.5.0

URL: <https://github.com/substack/node-mkdirp.git>
VendorName: James Halliday

VendorUrl: <http://substack.net>
mkdirp@0.5.1
URL: <https://github.com/substack/node-mkdirp.git>
VendorName: James Halliday
VendorUrl: <http://substack.net>
mktemp@0.3.5
URL: <git://github.com/sasaplus1/mktemp.git>
VendorName: sasa+1
mktemp@0.4.0
URL: <git://github.com/sasaplus1/mktemp.git>
VendorName: sasa+1
moment-timezone@0.3.1
URL: <https://github.com/moment/moment-timezone.git>
VendorName: Tim Wood
VendorUrl: <http://momentjs.com/timezone/>
moment@2.24.0
URL: <https://github.com/moment/moment.git>
VendorName: Iskren Ivov Chernev
VendorUrl: <http://momentjs.com/>
morgan@1.9.1
URL: <https://github.com/expressjs/morgan.git>
mout@0.9.1
URL: <git://github.com/mout/mout.git>
VendorUrl: <http://moutjs.com/>
ms@0.7.1
URL: <git://github.com/guille/ms.js.git>
ms@2.0.0
URL: <https://github.com/zeit/ms.git>
ms@2.1.1
URL: <https://github.com/zeit/ms.git>
ms@2.1.2
URL: <https://github.com/zeit/ms.git>
mustache@2.3.2
URL: <https://github.com/janl/mustache.js.git>
VendorName: mustache.js Authors
VendorUrl: <https://github.com/janl/mustache.js>
nan@2.14.0
URL: <git://github.com/nodejs/nan.git>
negotiator@0.6.2
URL: <https://github.com/jshttp/negotiator.git>
next-tick@0.2.2
URL: <git://github.com/medikoo/next-tick.git>
VendorName: Mariusz Nowak
VendorUrl: <http://www.medikoo.com/>
next-tick@1.0.0
URL: <git://github.com/medikoo/next-tick.git>
VendorName: Mariusz Nowak
VendorUrl: <http://www.medikoo.com/>

node-gyp@3.0.3
URL: [git://github.com/nodejs/node-gyp.git](https://github.com/nodejs/node-gyp.git)
VendorName: Nathan Rajlich
VendorUrl: <http://tootallnate.net>

node-gyp@3.8.0
URL: [git://github.com/nodejs/node-gyp.git](https://github.com/nodejs/node-gyp.git)
VendorName: Nathan Rajlich
VendorUrl: <http://tootallnate.net>

node-int64@0.4.0
URL: <https://github.com/broofa/node-int64>
VendorName: Robert Kieffer

node-sass@4.13.0
URL: <https://github.com/sass/node-sass>
VendorName: Andrew Nesbitt
VendorUrl: <https://github.com/sass/node-sass>

node-uuid@1.4.8
URL: <https://github.com/broofa/node-uuid.git>
VendorName: Robert Kieffer
VendorUrl: <https://github.com/broofa/node-uuid>

normalize-path@2.1.1
URL: <https://github.com/jonschlinkert/normalize-path.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/normalize-path>

number-is-nan@1.0.1
URL: <https://github.com/sindresorhus/number-is-nan.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

numeral@1.5.6
URL: <https://github.com/adamwdraper/Numeral-js>
VendorName: Adam Draper
VendorUrl: <http://numeraljs.com/>

object-assign@2.1.1
URL: <https://github.com/sindresorhus/object-assign.git>
VendorName: Sindre Sorhus
VendorUrl: <http://sindresorhus.com>

object-assign@3.0.0
URL: <https://github.com/sindresorhus/object-assign.git>
VendorName: Sindre Sorhus
VendorUrl: <http://sindresorhus.com>

object-assign@4.1.1
URL: <https://github.com/sindresorhus/object-assign.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

object-keys@1.0.1
URL: [git://github.com/ljharb/object-keys.git](https://github.com/ljharb/object-keys.git)
VendorName: Jordan Harband

object.omit@2.0.1
URL: <https://github.com/jonschlinkert/object.omit.git>

VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/object.omit>
on-finished@2.3.0
URL: <https://github.com/jshttp/on-finished.git>
on-headers@1.0.2
URL: <https://github.com/jshttp/on-headers.git>
VendorName: Douglas Christopher Wilson
optimist@0.6.1
URL: <http://github.com/substack/node-optimist.git>
VendorName: James Halliday
VendorUrl: <http://substack.net>
options@0.0.6
URL: <git://github.com/einaros/options.js.git>
VendorName: Einar Otto Stangvik
VendorUrl: <http://2x.io>
os-homedir@1.0.2
URL: <https://github.com/sindresorhus/os-homedir.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
os-locale@1.4.0
URL: <https://github.com/sindresorhus/os-locale.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
os-tmpdir@1.0.2
URL: <https://github.com/sindresorhus/os-tmpdir.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
output-file-sync@1.1.2
URL: <https://github.com/shinnn/output-file-sync.git>
VendorName: Shinnosuke Watanabe
VendorUrl: <https://github.com/shinnn>
parse-glob@3.0.4
URL: <https://github.com/jonschlinkert/parse-glob.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/parse-glob>
parse-json@2.2.0
URL: <https://github.com/sindresorhus/parse-json.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
parsejson@0.0.1
parseqs@0.0.2
parseuri@0.0.2
parseuri@0.0.4
URL: <https://github.com/get/parseuri.git>
VendorUrl: <https://github.com/get/parseuri>
parseurl@1.3.3
URL: <https://github.com/pillarjs/parseurl.git>
path-array@1.0.1

URL: [git://github.com/TooTallNate/node-path-array.git](https://github.com/TooTallNate/node-path-array.git)
VendorName: Nathan Rajlich
VendorUrl: <https://github.com/TooTallNate/node-path-array>

path-exists@1.0.0
URL: <https://github.com/sindresorhus/path-exists.git>
VendorName: Sindre Sorhus
VendorUrl: [sindresorhus.com](https://github.com/sindresorhus.com)

path-exists@2.1.0
URL: <https://github.com/sindresorhus/path-exists.git>
VendorName: Sindre Sorhus
VendorUrl: [sindresorhus.com](https://github.com/sindresorhus.com)

path-is-absolute@1.0.1
URL: <https://github.com/sindresorhus/path-is-absolute.git>
VendorName: Sindre Sorhus
VendorUrl: [sindresorhus.com](https://github.com/sindresorhus.com)

path-parse@1.0.6
URL: <https://github.com/jbgutierrez/path-parse.git>
VendorName: Javier Blanco
VendorUrl: <https://github.com/jbgutierrez/path-parse#readme>

path-root-regex@0.1.2
URL: <https://github.com/regexhq/path-root-regex.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/regexhq/path-root-regex>

path-root@0.1.1
URL: <https://github.com/jonschlinkert/path-root.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/path-root>

path-to-regexp@0.1.7
URL: <https://github.com/component/path-to-regexp.git>

path-type@1.1.0
URL: <https://github.com/sindresorhus/path-type.git>
VendorName: Sindre Sorhus
VendorUrl: [sindresorhus.com](https://github.com/sindresorhus.com)

pend@1.2.0
URL: [git://github.com/andrewrk/node-pend.git](https://github.com/andrewrk/node-pend.git)
VendorName: Andrew Kelley

performance-now@0.2.0
URL: [git://github.com/meryn/performance-now.git](https://github.com/meryn/performance-now.git)
VendorName: Meryn Stol
VendorUrl: <https://github.com/meryn/performance-now>

performance-now@2.1.0
URL: [git://github.com/braveg1rl/performance-now.git](https://github.com/braveg1rl/performance-now.git)
VendorName: Braveg1rl
VendorUrl: <https://github.com/braveg1rl/performance-now>

pify@2.3.0
URL: <https://github.com/sindresorhus/pify.git>
VendorName: Sindre Sorhus
VendorUrl: [sindresorhus.com](https://github.com/sindresorhus.com)

pinkie-promise@2.0.1
URL: <https://github.com/floatdrop/pinkie-promise.git>
VendorName: Vsevolod Strukchinsky
VendorUrl: github.com/floatdrop

pinkie@2.0.4
URL: <https://github.com/floatdrop/pinkie.git>
VendorName: Vsevolod Strukchinsky
VendorUrl: github.com/floatdrop

portfinder@0.4.0
URL: [git@github.com:indexzero/node-portfinder.git](https://github.com/indexzero/node-portfinder.git)
VendorName: Charlie Robbins

preserve@0.2.0
URL: [git://github.com/jonschlinkert/preserve.git](https://github.com/jonschlinkert/preserve.git)
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/preserve>

private@0.1.8
URL: [git://github.com/benjamn/private.git](https://github.com/benjamn/private.git)
VendorName: Ben Newman
VendorUrl: <http://github.com/benjamn/private>

process-nextick-args@1.0.7
URL: <https://github.com/calvinmetcalf/process-nextick-args.git>
VendorUrl: <https://github.com/calvinmetcalf/process-nextick-args>

process-nextick-args@2.0.1
URL: <https://github.com/calvinmetcalf/process-nextick-args.git>
VendorUrl: <https://github.com/calvinmetcalf/process-nextick-args>

progress@1.1.8
URL: [git://github.com/visionmedia/node-progress](https://github.com/visionmedia/node-progress)
VendorName: TJ Holowaychuk

promise-map-series@0.2.3
URL: <https://github.com/joliss/promise-map-series>
VendorName: Jo Liss

promise@7.3.1
URL: <https://github.com/then/promise.git>
VendorName: ForbesLindesay

proxy-addr@2.0.5
URL: <https://github.com/jshttp/proxy-addr.git>
VendorName: Douglas Christopher Wilson

pr@1.0.1
URL: <https://github.com/rvagg/pr.git>
VendorName: Rod Vagg
VendorUrl: <https://github.com/rvagg/pr>

psl@1.6.0
URL: [git@github.com:lupomontero/psl.git](https://github.com/lupomontero/psl.git)
VendorName: Lupo Montero
VendorUrl: <https://lupomontero.com/>

punycode@1.4.1
URL: <https://github.com/bestiejs/punycode.js.git>
VendorName: Mathias Bynens

VendorUrl: <https://mths.be/punycode>
punycode@2.1.1
URL: <https://github.com/bestiejs/punycode.js.git>
VendorName: Mathias Bynens
VendorUrl: <https://mths.be/punycode>
q@1.5.1
URL: <git://github.com/kriskowal/q.git>
VendorName: Kris Kowal
VendorUrl: <https://github.com/kriskowal/q>
quick-temp@0.1.3
URL: <https://github.com/joliss/node-quick-temp>
VendorName: Jo Liss
quick-temp@0.1.8
URL: <https://github.com/joliss/node-quick-temp>
VendorName: Jo Liss
qunitjs@1.23.1
URL: <git://github.com/jquery/qunit.git>
VendorName: jQuery Foundation and other contributors
VendorUrl: <https://qunitjs.com/>
randomatic@3.1.1
URL: <https://github.com/jonschlinkert/randomatic.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/randomatic>
range-parser@1.2.1
URL: <https://github.com/jshttp/range-parser.git>
VendorName: TJ Holowaychuk
VendorUrl: <http://tjholowaychuk.com>
raw-body@2.1.7
URL: <https://github.com/stream-utils/raw-body.git>
VendorName: Jonathan Ong
VendorUrl: <http://jongleberry.com>
raw-body@2.4.0
URL: <https://github.com/stream-utils/raw-body.git>
VendorName: Jonathan Ong
VendorUrl: <http://jongleberry.com>
read-pkg-up@1.0.1
URL: <https://github.com/sindresorhus/read-pkg-up.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
read-pkg@1.1.0
URL: <https://github.com/sindresorhus/read-pkg.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
readable-stream@1.1.13
URL: <git://github.com/isaacs/readable-stream>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>
readable-stream@1.1.14

URL: [git://github.com/isaacs/readable-stream](https://github.com/isaacs/readable-stream)
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>
readable-stream@2.0.6
URL: [git://github.com/nodejs/readable-stream](https://github.com/nodejs/readable-stream)
readable-stream@2.3.6
URL: [git://github.com/nodejs/readable-stream](https://github.com/nodejs/readable-stream)
readline2@0.1.1
URL: <https://github.com/SBoudrias/readline2.git>
VendorName: Simon Boudrias
recast@0.10.33
URL: [git://github.com/benjamn/recast.git](https://github.com/benjamn/recast.git)
VendorName: Ben Newman
VendorUrl: <http://github.com/benjamn/recast>
recast@0.10.43
URL: [git://github.com/benjamn/recast.git](https://github.com/benjamn/recast.git)
VendorName: Ben Newman
VendorUrl: <http://github.com/benjamn/recast>
recast@0.11.23
URL: [git://github.com/benjamn/recast.git](https://github.com/benjamn/recast.git)
VendorName: Ben Newman
VendorUrl: <http://github.com/benjamn/recast>
redent@1.0.0
URL: <https://github.com/sindresorhus/redent.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
redeyed@0.5.0
URL: [git://github.com/thlorenz/redeyed.git](https://github.com/thlorenz/redeyed.git)
VendorName: Thorsten Lorenz
VendorUrl: thlorenz.com
regenerate@1.4.0
URL: <https://github.com/mathiasbynens/regenerate.git>
VendorName: Mathias Bynens
VendorUrl: <https://mths.be/regenerate>
regex-cache@0.4.4
URL: <https://github.com/jonschlinkert/regex-cache.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/regex-cache>
regexpu@1.3.0
URL: <https://github.com/mathiasbynens/regexpu.git>
VendorName: Mathias Bynens
VendorUrl: <https://mths.be/regexpu>
regjsgen@0.2.0
URL: <https://github.com/d10/regjsgen.git>
VendorName: Benjamin Tan
VendorUrl: <https://github.com/d10/regjsgen>
repeat-element@1.1.3
URL: <https://github.com/jonschlinkert/repeat-element.git>

VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/repeat-element>
repeat-string@1.6.1
URL: <https://github.com/jonschlinkert/repeat-string.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/repeat-string>
repeating@1.1.3
URL: <https://github.com/sindresorhus/repeating.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
repeating@2.0.1
URL: <https://github.com/sindresorhus/repeating.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
request-progress@2.0.1
URL: <git://github.com/IndigoUnited/node-request-progress>
VendorName: IndigoUnited
VendorUrl: <http://indigounited.com>
require-directory@2.1.1
URL: <git://github.com/troygoode/node-require-directory.git>
VendorName: Troy Goode
VendorUrl: <https://github.com/troygoode/node-require-directory/>
requires-port@1.0.0
URL: <https://github.com/unshiftio/requires-port>
VendorName: Arnout Kazemier
VendorUrl: <https://github.com/unshiftio/requires-port>
resolve-package-path@1.2.7
resolve@1.14.1
URL: <git://github.com/browserify/resolve.git>
VendorName: James Halliday
VendorUrl: <http://substack.net>
retry@0.8.0
URL: <git://github.com/tim-kos/node-retry.git>
VendorName: Tim Koschitzki
VendorUrl: <https://github.com/tim-kos/node-retry>
right-align@0.1.3
URL: <git://github.com/jonschlinkert/right-align.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/right-align>
rimraf@2.2.8
URL: <git://github.com/isaacs/rimraf.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>
rsvp@3.0.21
URL: <https://github.com/tildeio/rsvp.js.git>
VendorName: Tilde, Inc. & Stefan Penner
rsvp@3.2.1
URL: <https://github.com/tildeio/rsvp.js.git>

VendorName: Tilde, Inc. & Stefan Penner
rsvp@3.6.2
URL: <https://github.com/tildeio/rsvp.js.git>
VendorName: Tilde, Inc. & Stefan Penner
rsvp@4.8.5
URL: <https://github.com/tildeio/rsvp.js.git>
VendorName: Tilde, Inc. & Stefan Penner
VendorUrl: <https://github.com/tildeio/rsvp.js>
safe-buffer@5.1.2
URL: <git://github.com/feross/safe-buffer.git>
VendorName: Feross Aboukhadijeh
VendorUrl: <https://github.com/feross/safe-buffer>
safe-buffer@5.2.0
URL: <git://github.com/feross/safe-buffer.git>
VendorName: Feross Aboukhadijeh
VendorUrl: <https://github.com/feross/safe-buffer>
safer-buffer@2.1.2
URL: <git+https://github.com/ChALkeR/safer-buffer.git>
VendorName: Nikita Skovoroda
VendorUrl: <https://github.com/ChALkeR>
sane@1.7.0
URL: <https://github.com/amasad/sane>
VendorName: amasad
VendorUrl: <https://github.com/amasad/sane>
sass-graph@2.2.4
URL: <https://github.com/xzyfer/sass-graph.git>
VendorName: xzyfer
scss-tokenizer@0.2.3
URL: <https://github.com/sasstools/scss-tokenizer.git>
VendorName: xzyfer
VendorUrl: <https://github.com/sasstools/scss-tokenizer>
select2@4.0.0
URL: <git://github.com/select2/select2.git>
VendorName: Kevin Brown
VendorUrl: <https://select2.github.io/>
send@0.17.1
URL: <https://github.com/pillarjs/send.git>
VendorName: TJ Holowaychuk
serve-static@1.14.1
URL: <https://github.com/expressjs/serve-static.git>
VendorName: Douglas Christopher Wilson
shebang-regex@1.0.0
URL: <https://github.com/sindresorhus/shebang-regex.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
simple-fmt@0.1.0
URL: <https://github.com/olov/simple-fmt.git>
VendorName: Olov Lassus

simple-is@0.2.0
URL: <https://github.com/olov/simple-is.git>
VendorName: Olov Lassus

slash@1.0.0
URL: <https://github.com/sindresorhus/slash.git>
VendorName: Sindre Sorhus
VendorUrl: <http://sindresorhus.com>

socket.io-client-pure@1.3.12
URL: <https://github.com/Automattic/socket.io-client.git>

socket.io-parser@2.2.2
URL: <https://github.com/Automattic/socket.io-parser.git>

socket.io-parser@2.2.4
URL: <https://github.com/Automattic/socket.io-parser.git>

socket.io-pure@1.3.12
URL: <git://github.com/Automattic/socket.io>

source-map-support@0.2.10
URL: <https://github.com/evanw/node-source-map-support>

source-map-url@0.3.0
URL: <https://github.com/lydell/source-map-url.git>
VendorName: Simon Lydell

spawnback@1.0.0
URL: <git://github.com/scottgonzalez/spawnback.git>
VendorName: Scott Gonzlez
VendorUrl: <https://github.com/scottgonzalez/spawnback>

spdx-expression-parse@3.0.0
URL: <https://github.com/jslicense/spdx-expression-parse.js.git>
VendorName: Kyle E. Mitchell
VendorUrl: <http://kemitchell.com>

sri-toolbox@0.2.0
URL: <https://github.com/neftaly/npm-sri-toolbox.git>
VendorName: Neftaly Hernandez

sshpk@1.16.1
URL: <git+https://github.com/joyent/node-sshpk.git>
VendorName: Joyent, Inc
VendorUrl: <https://github.com/arekinath/node-sshpk#readme>

stable@0.1.8
URL: <https://github.com/Two-Screen/stable.git>
VendorName: Angry Bytes

statuses@1.5.0
URL: <https://github.com/jshttp/statuses.git>

stdout-stream@1.4.1
URL: <https://github.com/mafintosh/stdout-stream.git>

string_decoder@0.10.31
URL: git://github.com/rvagg/string_decoder.git
VendorUrl: https://github.com/rvagg/string_decoder

string_decoder@1.1.1
URL: git://github.com/nodejs/string_decoder.git
VendorUrl: https://github.com/nodejs/string_decoder

string-width@1.0.2
URL: <https://github.com/sindresorhus/string-width.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

string-width@2.1.1
URL: <https://github.com/sindresorhus/string-width.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

string.prototype.endsWith@0.2.0
URL: <https://github.com/mathiasbynens/String.prototype.endsWith.git>
VendorName: Mathias Bynens
VendorUrl: <http://mths.be/endsWith>

stringmap@0.2.2
URL: <https://github.com/olov/stringmap.git>
VendorName: Olov Lassus

stringset@0.2.1
URL: <https://github.com/olov/stringset.git>
VendorName: Olov Lassus

stringstream@0.0.6
URL: <https://github.com/mhart/StringStream.git>
VendorName: Michael Hart
VendorUrl: <http://github.com/mhart>

strip-ansi@0.1.1
URL: <https://github.com/sindresorhus/strip-ansi.git>
VendorName: Sindre Sorhus
VendorUrl: <http://sindresorhus.com>

strip-ansi@0.3.0
URL: <https://github.com/sindresorhus/strip-ansi.git>
VendorName: Sindre Sorhus
VendorUrl: <http://sindresorhus.com>

strip-ansi@2.0.1
URL: <https://github.com/sindresorhus/strip-ansi.git>
VendorName: Sindre Sorhus
VendorUrl: <http://sindresorhus.com>

strip-ansi@3.0.1
URL: <https://github.com/chalk/strip-ansi.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

strip-ansi@4.0.0
URL: <https://github.com/chalk/strip-ansi.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

strip-bom@2.0.0
URL: <https://github.com/sindresorhus/strip-bom.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

strip-indent@1.0.1
URL: <https://github.com/sindresorhus/strip-indent.git>

VendorName: Sindre Sorhus
VendorUrl: <http://sindresorhus.com>
strip-json-comments@1.0.4
URL: <https://github.com/sindresorhus/strip-json-comments.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
styled_string@0.0.1
VendorName: Toby Ho
supports-color@0.2.0
URL: <https://github.com/sindresorhus/supports-color.git>
VendorName: Sindre Sorhus
VendorUrl: <http://sindresorhus.com>
supports-color@2.0.0
URL: <https://github.com/chalk/supports-color.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
supports-color@5.5.0
URL: <https://github.com/chalk/supports-color.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
symlink-or-copy@1.3.1
URL: <https://github.com/broccolijs/node-symlink-or-copy>
VendorName: Jo Liss
tap-parser@1.3.2
URL: <git://github.com/substack/tap-parser.git>
VendorName: James Halliday
VendorUrl: <https://github.com/substack/tap-parser>
temp@0.8.1
URL: <git://github.com/bruce/node-temp.git>
VendorName: Bruce Williams
testem@0.9.11
URL: <git://github.com/airportyh/testem.git>
VendorName: Toby Ho
text-table@0.2.0
URL: <git://github.com/substack/text-table.git>
VendorName: James Halliday
VendorUrl: <https://github.com/substack/text-table>
textextensions@2.6.0
URL: <https://github.com/bevry/textextensions.git>
VendorName: 2013+ Bevry Pty Ltd
VendorUrl: <https://github.com/bevry/textextensions>
throttleit@1.0.0
URL: <git://github.com/component/throttle.git>
through@2.3.8
URL: <https://github.com/dominictarr/through.git>
VendorName: Dominic Tarr
VendorUrl: <https://github.com/dominictarr/through>
tiny-lr@0.2.0

URL: [git://github.com/mklabs/tiny-lr.git](https://github.com/mklabs/tiny-lr.git)
VendorName: mklabs
VendorUrl: <https://github.com/mklabs/tiny-lr>
tmp@0.0.28

URL: [git://github.com/raszi/node-tmp.git](https://github.com/raszi/node-tmp.git)
VendorName: KARASZI Istvn
VendorUrl: <http://github.com/raszi/node-tmp>
to-array@0.1.3

URL: [git://github.com/Raynos/to-array.git](https://github.com/Raynos/to-array.git)
VendorName: Raynos
VendorUrl: <https://github.com/Raynos/to-array>
to-fast-properties@1.0.3

URL: <https://github.com/sindresorhus/to-fast-properties.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
toidentifier@1.0.0

URL: <https://github.com/component/toidentifier.git>
VendorName: Douglas Christopher Wilson
trim-newlines@1.0.0

URL: <https://github.com/sindresorhus/trim-newlines.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
trim-right@1.0.1

URL: <https://github.com/sindresorhus/trim-right.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
try-resolve@1.0.1

URL: <https://github.com/sebmck/try-resolve.git>
VendorName: Sebastian McKenzie
tryor@0.1.2

URL: <https://github.com/olov/tryor.git>
VendorName: Olov Lassus
type-is@1.6.18

URL: <https://github.com/jshttp/type-is.git>
typedarray@0.0.6

URL: [git://github.com/substack/typedarray.git](https://github.com/substack/typedarray.git)
VendorName: James Halliday
VendorUrl: <https://github.com/substack/typedarray>
uc.micro@1.0.6

URL: <https://github.com/markdown-it/uc.micro.git>
uglify-to-browserify@1.0.2

URL: <https://github.com/ForbesLindesay/uglify-to-browserify.git>
VendorName: ForbesLindesay
ultron@1.0.2

URL: <https://github.com/unshiftio/ultron>
VendorName: Arnout Kazemier
VendorUrl: <https://github.com/unshiftio/ultron>
umask@1.1.0

URL: <https://github.com/smikes/umask.git>
VendorName: Sam Mikes
VendorUrl: <https://github.com/smikes/umask>
underscore.string@2.3.3
URL: <https://github.com/epeli/underscore.string.git>
VendorUrl: <http://epeli.github.com/underscore.string/>
underscore.string@3.3.5
URL: <https://github.com/epeli/underscore.string.git>
VendorUrl: <http://epeli.github.com/underscore.string/>
underscore@1.9.1
URL: <git://github.com/jashkenas/underscore.git>
VendorName: Jeremy Ashkenas
VendorUrl: <http://underscorejs.org/>
universalify@0.1.2
URL: <git+https://github.com/RyanZim/universalify.git>
VendorName: Ryan Zimmerman
VendorUrl: <https://github.com/RyanZim/universalify#readme>
unpipe@1.0.0
URL: <https://github.com/stream-utils/unpipe.git>
VendorName: Douglas Christopher Wilson
user-home@1.1.1
URL: <https://github.com/sindresorhus/user-home.git>
VendorName: Sindre Sorhus
VendorUrl: <http://sindresorhus.com>
username-sync@1.0.2
URL: <git@github.com:stefanpenner/username-sync>
VendorName: Stefan Penner
utf8@2.1.0
URL: <https://github.com/mathiasbynens/utf8.js.git>
VendorName: Mathias Bynens
VendorUrl: <https://mths.be/utf8js>
util-deprecate@1.0.2
URL: <git://github.com/TooTallNate/util-deprecate.git>
VendorName: Nathan Rajlich
VendorUrl: <https://github.com/TooTallNate/util-deprecate>
util-extend@1.0.3
URL: <git://github.com/isaacs/util-extend>
utils-merge@1.0.1
URL: <git://github.com/jaredhanson/utils-merge.git>
VendorName: Jared Hanson
VendorUrl: <http://www.jaredhanson.net/>
uuid@2.0.3
URL: <https://github.com/defunctzombie/node-uuid.git>
VendorName: Robert Kieffer
uuid@3.3.3
URL: <https://github.com/kelektiv/node-uuid.git>
vary@1.1.2
URL: <https://github.com/jshttp/vary.git>

VendorName: Douglas Christopher Wilson
verror@1.10.0
URL: [git://github.com/davepacheco/node-verror.git](https://github.com/davepacheco/node-verror.git)

walk-sync@0.1.3
URL: <https://github.com/joliss/node-walk-sync>
VendorName: Jo Liss

walk-sync@0.2.7
URL: <https://github.com/joliss/node-walk-sync>
VendorName: Jo Liss

walk-sync@0.3.4
URL: <https://github.com/joliss/node-walk-sync>
VendorName: Jo Liss

wcwidth@1.0.1
URL: [git+https://github.com/timoxley/wcwidth.git](https://github.com/timoxley/wcwidth.git)
VendorName: Tim Oxley
VendorUrl: <https://github.com/timoxley/wcwidth#readme>

websocket-extensions@0.1.3
URL: [git://github.com/faye/websocket-extensions-node.git](https://github.com/faye/websocket-extensions-node.git)
VendorName: James Coglan
VendorUrl: <http://github.com/faye/websocket-extensions-node>

window-size@0.1.0
URL: <https://github.com/jonschlinkert/window-size.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/window-size>

window-size@0.1.4
URL: <https://github.com/jonschlinkert/window-size.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/window-size>

wordwrap@0.0.2
URL: [git://github.com/substack/node-wordwrap.git](https://github.com/substack/node-wordwrap.git)
VendorName: James Halliday
VendorUrl: <http://substack.net>

wordwrap@0.0.3
URL: [git://github.com/substack/node-wordwrap.git](https://github.com/substack/node-wordwrap.git)
VendorName: James Halliday
VendorUrl: <http://substack.net>

wrap-ansi@2.1.0
URL: <https://github.com/chalk/wrap-ansi.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

ws-pure@0.8.0
URL: [git://github.com/patocallaghan/ws.git](https://github.com/patocallaghan/ws.git)
VendorName: Pat O'Callaghan

xdg-basedir@2.0.0
URL: <https://github.com/sindresorhus/xdg-basedir.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

xmlhttprequest-ssl@1.5.1

URL: [git://github.com/mjwwit/node-XMLHttpRequest.git](https://github.com/mjwwit/node-XMLHttpRequest.git)
VendorName: Michael de Wit
xtend@4.0.2
URL: [git://github.com/Raynos/xtend.git](https://github.com/Raynos/xtend.git)
VendorName: Raynos
VendorUrl: <https://github.com/Raynos/xtend>
yam@0.0.18
URL: <https://github.com/twokul/yam>
VendorName: Alex Navasardyan
VendorUrl: <http://twokul.io>
yargs@3.10.0
URL: <http://github.com/bcoe/yargs.git>
VendorName: Alex Ford
VendorUrl: <http://CodeTunnel.com>
yargs@3.27.0
URL: <http://github.com/bcoe/yargs.git>
VendorName: Alex Ford
VendorUrl: <http://CodeTunnel.com>
yargs@7.1.0
URL: <http://github.com/yargs/yargs.git>
VendorUrl: <http://yargs.js.org/>
yauzl@2.4.1
URL: <https://github.com/thejoshwolfe/yauzl.git>
VendorName: Josh Wolfe
VendorUrl: <https://github.com/thejoshwolfe/yauzl>
MIT*
after@0.8.1
URL: [git://github.com/Raynos/after.git](https://github.com/Raynos/after.git)
VendorName: Raynos
assert-plus@0.1.5
URL: <https://github.com/mcavage/node-assert-plus.git>
VendorName: Mark Cavage
async-foreach@0.1.3
URL: [git://github.com/cowboy/javascript-sync-async-foreach.git](https://github.com/cowboy/javascript-sync-async-foreach.git)
VendorName: "Cowboy" Ben Alman
VendorUrl: <http://github.com/cowboy/javascript-sync-async-foreach>
blob@0.0.4
URL: [git@github.com:rase-/blob.git](https://github.com/rase-/blob.git)
VendorUrl: <https://github.com/rase-/blob>
callsite@1.0.0
VendorName: TJ Holowaychuk
component-bind@1.0.0
URL: <https://github.com/component/bind.git>
component-emitter@1.1.2
URL: <https://github.com/component/emitter.git>
component-inherit@0.0.3
URL: <https://github.com/component/inherit.git>
engine.io-client-pure@1.5.9

URL: <https://github.com/Automattic/engine.io-client.git>
VendorUrl: <http://socket.io/>
git-tools@0.1.4
URL: <git://github.com/scottgonzalez/node-git-tools.git>
VendorName: Scott Gonzlez
VendorUrl: <https://github.com/scottgonzalez/node-git-tools>
indexof@0.0.1
ms@0.6.2
URL: <git://github.com/guille/ms.js.git>
object-component@0.0.3
socket.io-adapter@0.3.1
URL: <git://github.com/Automattic/socket.io-adapter.git>

Public Domain

jsonify@0.0.0
URL: <http://github.com/substack/jsonify.git>
VendorName: Douglas Crockford
VendorUrl: <http://crockford.com/>

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sntp@1.0.9
URL: <git://github.com/hueniverse/sntp>
VendorName: Eran Hammer
VendorUrl: <http://hueniverse.com>

UNKNOWN

base64id@0.1.0
URL: <https://github.com/faeldt/base64id.git>
VendorName: Kristian Faeldt
colors@0.6.2
URL: <http://github.com/Marak/colors.js.git>
VendorName: Marak Squires
VendorUrl: <https://github.com/Marak/colors.js>

Unlicense

spdx-license-ids@1.2.2
URL: <https://github.com/shinnn/spdx-license-ids.git>
VendorName: Shinnosuke Watanabe
VendorUrl: <https://github.com/shinnn>

tweetnacl@0.14.5
URL: <https://github.com/dchest/tweetnacl-js.git>
VendorName: TweetNaCl-js contributors
VendorUrl: <https://tweetnacl.js.org/>

WTFPL

sorted-object@1.0.0
URL: <git://github.com/domenic/sorted-object.git>
VendorName: Domenic Denicola
VendorUrl: <http://domenic.me/>

WTFPL OR ISC

is-integer@1.0.7
URL: <git://github.com:parshap/js-is-integer>
VendorName: Parsha Pourkhomami

Done in 0.84s.

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JUnit

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src/test/resources/CSVFileParser/test_rfc4180_trim.txt

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== Contributors ==

* Tatu Saloranta

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* Performance and memory usage improvement

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jaxb-api

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Zstd-jni: JNI bindings to Zstd Library

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LZ4 - Fast LZ compression algorithm

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uriparser - RFC 3986 URI parsing library

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hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/datanode/checker/AbstractFuture.java
hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/datanode/checker/TimeoutFuture.java

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hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-client-native/src/main/native/lz4/lz4.{c|h}
hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/native/container-executor/impl/compat/{fstatat|openat|unlinkat}.h

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hadoop-common-project/hadoop-common/src/main/java/org/apache/hadoop/util/bloom/*
hadoop-common-project/hadoop-common/src/main/native/gtest/gtest-all.cc
hadoop-common-project/hadoop-common/src/main/native/gtest/include/gtest/gtest.h
hadoop-common-project/hadoop-common/src/main/native/src/org/apache/hadoop/util/bulk_crc32_x86.c
hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/libhdfspp/third_party/protobuf/cpp_helpers.h
hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/libhdfspp/third_party/gmock-1.7.0/*/*.{cc|h}
hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/d3.v3.js
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/d3-v4.1.1.min.js

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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dataTables.bootstrap.js
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dust-full-2.0.0.min.js
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dust-helpers-1.1.1.min.js
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/jquery-3.5.1.min.js
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hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/bootstrap.min.js

hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/jquery.js
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hadoop-tools/hadoop-sls/src/main/html/css/bootstrap-responsive.min.css
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-applications/hadoop-yarn-applications-catalog/hadoop-yarn-applications-catalog-webapp/node_modules/.bin/r.js
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/dt-1.10.18/*
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/jquery
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/jt/jquery.jstree.js
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/resources/TERMINAL

uriparser2 (hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/libhdfspp/third_party/uriparser2)
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/native/container-executor/impl/utls/cJSON.[ch]

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asio-1.10.2 (hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/libhdfspp/third_party/asio-1.10.2)
rapidxml-1.13 (hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/libhdfspp/third_party/rapidxml-1.13)
tr2 (hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/libhdfspp/third_party/tr2)

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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/json-bignum.js

Apache Hadoop

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Hadoop Yarn Server Web Proxy uses the BouncyCastle Java cryptography APIs written by the Legion of the Bouncy Castle Inc. For portions of the native implementation of slicing-by-8 CRC calculation in src/main/native/src/org/apache/hadoop/util:

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*
* Abstract: The main routine
*
--*/

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roboto-fontface@0.10.0

URL: <https://github.com/choffmeister/roboto-fontface-bower.git>

VendorName: Christian Hoffmeister

VendorUrl: <https://github.com/choffmeister/roboto-fontface-bower>

BSD-2-Clause

entities@1.1.2

URL: [git://github.com/fb55/entities.git](https://github.com/fb55/entities.git)

VendorName: Felix Boehm

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shelljs@0.2.6

URL: [git://github.com/arturadib/shelljs.git](https://github.com/arturadib/shelljs.git)

VendorName: Artur Adib

VendorUrl: <http://github.com/arturadib/shelljs>

sprintf-js@1.0.3

URL: <https://github.com/alexei/sprintf.js.git>

VendorName: Alexandru Marasteanu

VendorUrl: <http://alexei.ro/>

ISC

fs.realpath@1.0.0

URL: [git+https://github.com/isaacs/fs.realpath.git](https://github.com/isaacs/fs.realpath.git)

VendorName: Isaac Z. Schlueter

VendorUrl: <http://blog.izs.me/>

glob@7.1.6

URL: [git://github.com/isaacs/node-glob.git](https://github.com/isaacs/node-glob.git)

VendorName: Isaac Z. Schlueter

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graceful-fs@4.2.4

URL: <https://github.com/isaacs/node-graceful-fs>

inflight@1.0.6

URL: <https://github.com/npm/inflight.git>

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inherits@2.0.4

URL: [git://github.com/isaacs/inherits](https://github.com/isaacs/inherits)

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once@1.4.0

URL: [git://github.com/isaacs/once](https://github.com/isaacs/once)

VendorName: Isaac Z. Schlueter

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semver@5.3.0

URL: <https://github.com/npm/node-semver>

wrappy@1.0.2

URL: <https://github.com/npm/wrappy>

VendorName: Isaac Z. Schlueter

VendorUrl: <https://github.com/npm/wrappy>

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angular-loader@1.6.10

URL: <https://github.com/angular/angular.js.git>

VendorName: Angular Core Team

VendorUrl: <http://angularjs.org/>
angular-mocks@1.6.10
URL: <https://github.com/angular/angular.js.git>
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VendorUrl: <https://github.com/apidoc/apidoc-core>
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VendorName: Caolan McMahon
VendorUrl: <https://caolan.github.io/async/>
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URL: <git://github.com/juliangruber/balanced-match.git>
VendorName: Julian Gruber
VendorUrl: <https://github.com/juliangruber/balanced-match>
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URL: <git://github.com/juliangruber/brace-expansion.git>
VendorName: Julian Gruber
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URL: <https://github.com/Qix-/color-convert.git>
VendorName: Heather Arthur
color-name@1.1.3
URL: <git@github.com:dfcreative/color-name.git>
VendorName: DY
VendorUrl: <https://github.com/dfcreative/color-name>
color-name@1.1.4
URL: <git@github.com:colorjs/color-name.git>

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color-string@1.5.3
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VendorName: Heather Arthur
color@3.0.0
URL: <https://github.com/Qix-/color.git>
colornames@1.1.1
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VendorName: Tim Oxley
VendorUrl: <https://github.com/timoxley/colornames#readme>
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VendorName: Marak Squires
VendorUrl: <https://github.com/Marak/colors.js>
colorspace@1.1.2
URL: <https://github.com/3rd-Eden/colorspace>
VendorName: Arnout Kazemier
VendorUrl: <https://github.com/3rd-Eden/colorspace>
commander@2.20.3
URL: <https://github.com/tj/commander.js.git>
VendorName: TJ Holowaychuk
concat-map@0.0.1
URL: <git://github.com/substack/node-concat-map.git>
VendorName: James Halliday
VendorUrl: <http://substack.net>
core-util-is@1.0.2
URL: <git://github.com/isaacs/core-util-is>
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diagnostics@1.1.1
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VendorUrl: <https://github.com/bigpipe/diagnostics>
enabled@1.0.2
URL: <git://github.com/bigpipe/enabled.git>
VendorName: Arnout Kazemier
env-variable@0.0.6
URL: <https://github.com/3rd-Eden/env-variable>
VendorName: Arnout Kazemier
VendorUrl: <https://github.com/3rd-Eden/env-variable>
fast-safe-stringify@2.0.7
URL: <git+https://github.com/davidmarkclements/fast-safe-stringify.git>
VendorName: David Mark Clements
VendorUrl: <https://github.com/davidmarkclements/fast-safe-stringify#readme>
fecha@2.3.3
URL: <https://taylorhakes@github.com/taylorhakes/fecha.git>
VendorName: Taylor Hakes

VendorUrl: <https://github.com/taylorhakes/fecha>
fs-extra@3.0.1
URL: <https://github.com/jprichardson/node-fs-extra>
VendorName: JP Richardson
VendorUrl: <https://github.com/jprichardson/node-fs-extra>
fs-extra@7.0.1
URL: <https://github.com/jprichardson/node-fs-extra>
VendorName: JP Richardson
VendorUrl: <https://github.com/jprichardson/node-fs-extra>
iconv-lite@0.4.24
URL: <git://github.com/ashtuchkin/iconv-lite.git>
VendorName: Alexander Shtuchkin
VendorUrl: <https://github.com/ashtuchkin/iconv-lite>
is-arrayish@0.3.2
URL: <https://github.com/qix-/node-is-arrayish.git>
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is-stream@1.1.0
URL: <https://github.com/sindresorhus/is-stream.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
isarray@1.0.0
URL: <git://github.com/juliangruber/isarray.git>
VendorName: Julian Gruber
VendorUrl: <https://github.com/juliangruber/isarray>
jquery@3.3.1
URL: <https://github.com/jquery/jquery.git>
VendorName: JS Foundation and other contributors
VendorUrl: <https://jquery.com/>
jsonfile@3.0.1
URL: <git@github.com:jprichardson/node-jsonfile.git>
VendorName: JP Richardson
jsonfile@4.0.0
URL: <git@github.com:jprichardson/node-jsonfile.git>
VendorName: JP Richardson
klaw-sync@2.1.0
URL: <git+https://github.com/manidlou/node-klaw-sync.git>
VendorName: Mani Maghsoudlou
VendorUrl: <https://github.com/manidlou/node-klaw-sync#readme>
kuler@1.0.1
URL: <https://github.com/3rd-Eden/kuler>
VendorName: Arnout Kazemier
VendorUrl: <https://github.com/3rd-Eden/kuler>
linkify-it@2.2.0
URL: <https://github.com/markdown-it/linkify-it.git>
lodash@4.17.15
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton

VendorUrl: <https://lodash.com/>
logform@2.1.2
URL: [git+https://github.com/winstonjs/logform.git](https://github.com/winstonjs/logform.git)
VendorName: Charlie Robbins
VendorUrl: <https://github.com/winstonjs/logform#readme>
markdown-it@8.4.2
URL: <https://github.com/markdown-it/markdown-it.git>
mdurl@1.0.1
URL: <https://github.com/markdown-it/mdurl.git>
ms@2.1.2
URL: <https://github.com/zeit/ms.git>
one-time@0.0.4
URL: <https://github.com/unshiftio/one-time>
VendorName: Arnout Kazemier
path-is-absolute@1.0.1
URL: <https://github.com/sindresorhus/path-is-absolute.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
process-nextick-args@2.0.1
URL: <https://github.com/calvinmetcalf/process-nextick-args.git>
VendorUrl: <https://github.com/calvinmetcalf/process-nextick-args>
readable-stream@2.3.7
URL: [git://github.com/nodejs/readable-stream](https://github.com/nodejs/readable-stream)
readable-stream@3.6.0
URL: [git://github.com/nodejs/readable-stream](https://github.com/nodejs/readable-stream)
requirejs@2.3.6
URL: <https://github.com/jrburke/r.js.git>
VendorName: James Burke
VendorUrl: [http://github.com/jrburke/r.js](https://github.com/jrburke/r.js)
safe-buffer@5.1.2
URL: [git://github.com/feross/safe-buffer.git](https://github.com/feross/safe-buffer.git)
VendorName: Feross Aboukhadijeh
VendorUrl: <https://github.com/feross/safe-buffer>
safe-buffer@5.2.0
URL: [git://github.com/feross/safe-buffer.git](https://github.com/feross/safe-buffer.git)
VendorName: Feross Aboukhadijeh
VendorUrl: <https://github.com/feross/safe-buffer>
safer-buffer@2.1.2
URL: [git+https://github.com/ChALkeR/safer-buffer.git](https://github.com/ChALkeR/safer-buffer.git)
VendorName: Nikita Skovoroda
VendorUrl: <https://github.com/ChALkeR>
simple-swizzle@0.2.2
URL: <https://github.com/qix-/node-simple-swizzle.git>
VendorName: Qix
VendorUrl: [http://github.com/qix-](https://github.com/qix-)
stack-trace@0.0.10
URL: [git://github.com/felixge/node-stack-trace.git](https://github.com/felixge/node-stack-trace.git)
VendorName: Felix Geisendrfer

VendorUrl: <https://github.com/felixge/node-stack-trace>
string_decoder@1.1.1
URL: git://github.com/nodejs/string_decoder.git
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text-hex@1.0.0
URL: <https://github.com/3rd-Eden/text-hex>
VendorName: Arnout Kazemier
VendorUrl: <https://github.com/3rd-Eden/text-hex>
triple-beam@1.3.0
URL: <git+https://github.com/winstonjs/triple-beam.git>
VendorName: Charlie Robbins
VendorUrl: <https://github.com/winstonjs/triple-beam#readme>
uc.micro@1.0.6
URL: <https://github.com/markdown-it/uc.micro.git>
universalify@0.1.2
URL: <git+https://github.com/RyanZim/universalify.git>
VendorName: Ryan Zimmerman
VendorUrl: <https://github.com/RyanZim/universalify#readme>
util-deprecate@1.0.2
URL: <git://github.com/TooTallNate/util-deprecate.git>
VendorName: Nathan Rajlich
VendorUrl: <https://github.com/TooTallNate/util-deprecate>
winston-transport@4.3.0
URL: <git@github.com:winstonjs/winston-transport.git>
VendorName: Charlie Robbins
VendorUrl: <https://github.com/winstonjs/winston-transport#readme>
winston@3.2.1
URL: <https://github.com/winstonjs/winston.git>
VendorName: Charlie Robbins

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ASM: a very small and fast Java bytecode manipulation framework

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hdfs/src/main/java/org/apache/hadoop/hdfs/server/datanode/checker/AbstractFuture.java
hadoop-hdfs-project/hadoop-
hdfs/src/main/java/org/apache/hadoop/hdfs/server/datanode/checker/TimeoutFuture.java

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com.aliyun:aliyun-java-sdk-ecs:4.2.0
com.aliyun:aliyun-java-sdk-ram:3.0.0
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com.fasterxml.jackson.core:jackson-databind:2.10.5.1
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com.fasterxml.jackson.module:jackson-module-jaxb-annotations:2.10.5
com.fasterxml.uuid:java-uuid-generator:3.1.4
com.fasterxml.woodstox:woodstox-core:5.3.0
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com.google.android:annotations:jar:4.1.1.4
com.google.api.grpc:proto-google-common-protos:1.12.0
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commons-cli:commons-cli:1.2
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io.swagger:swagger-annotations:1.5.4
javax.inject:javax.inject:1
log4j:log4j:1.2.17
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org.ehcache:ehcache:3.3.1
org.lz4:lz4-java:1.7.1
org.objenesis:objenesis:2.6
org.xerial.snappy:snappy-java:1.1.8.2
org.yaml:snakeyaml:1.26
org.wildfly.openssl:wildfly-openssl:1.0.7.Final

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hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-client-nativetask/src/main/native/lz4/lz4.{c|h}
hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/native/container-executor/impl/compat/{fstatat|openat|unlinkat}.h

com.github.luben:zstd-jni:1.4.3-1
dnsjava:dnsjava:2.1.7
org.codehaus.woodstox:stax2-api:4.2.1

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hadoop-common-project/hadoop-common/src/main/java/org/apache/hadoop/util/bloom/*
hadoop-common-project/hadoop-common/src/main/native/gtest/gtest-all.cc
hadoop-common-project/hadoop-common/src/main/native/gtest/include/gtest/gtest.h
hadoop-common-project/hadoop-common/src/main/native/src/org/apache/hadoop/util/bulk_crc32_x86.c
hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/libhdfspp/third_party/protobuf/protobuf/cpp_helpers.h
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leveldb v1.13

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com.jcraft:jsch:0.1.55
com.thoughtworks.paranamer:paranamer:2.3
jakarta.activation:jakarta.activation-api:1.2.1
org.fusesource.leveldbjni:leveldbjni-all:1.8
org.jline:jline:3.9.0
org.hamcrest:hamcrest-core:1.3
org.ow2.asm:asm:5.0.4
org.ow2.asm:asm-analysis:9.0
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org.ow2.asm:asm-tree:9.0

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hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/bootstrap.min.js
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hadoop-tools/hadoop-sls/src/main/html/css/bootstrap-responsive.min.css
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hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/jt/jquery.jstree.js
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/resources/TERMINAL

uriparser2 (hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/libhdfspp/third_party/uriparser2)

com.microsoft.azure:azure-cosmosdb:2.4.5
com.microsoft.azure:azure-cosmosdb-commons:2.4.5
com.microsoft.azure:azure-cosmosdb-direct:2.4.5
com.microsoft.azure:azure-cosmosdb-gateway:2.4.5
com.microsoft.azure:azure-data-lake-store-sdk:2.3.9
com.microsoft.azure:azure-keyvault-core:1.0.0
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org.bouncycastle:bcprov-jdk15on:1.60
org.checkerframework:checker-qual:2.5.2
org.checkerframework:checker-qual:3.8.0
org.codehaus.mojo:animal-sniffer-annotations:1.17
org.jruby.jcodings:jcodings:1.0.13
org.jruby.joni:joni:2.1.2
org.ojalgo:ojalgo:43.0
org.slf4j:jul-to-slf4j:1.7.30
org.slf4j:slf4j-api:1.7.30
org.slf4j:slf4j-log4j12:1.7.30

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com.sun.jersey:jersey-server:1.19
com.sun.jersey:jersey-servlet:1.19
com.sun.xml.bind:jaxb-impl:2.2.3-1
javax.annotation:javax.annotation-api:1.3.2
javax.servlet:javax.servlet-api:3.1.0
javax.servlet.jsp:jsp-api:2.1
javax.websocket:javax.websocket-api:1.0
javax.websocket:javax.websocket-client-api:1.0
javax.ws.rs:jsr311-api:1.1.1
javax.xml.bind:jaxb-api:2.2.11

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rapidxml-1.13 (hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/libhdfspp/third_party/rapidxml-1.13)
tr2 (hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/libhdfspp/third_party/tr2)

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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/json-bignum.js

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1.78 kerby-util 1.0.1

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1.80 jfreechart 1.0.14

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1.82 j2objc-annotations 1.3

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* /opt/cola/permits/1131003150_1612875443.99/0/j2objc-annotations-1-3-sources-3-jar/com/google/j2objc/annotations/WeakOuter.java

1.83 jsch 0.1.55

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* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/Signature.java

* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/IdentityRepository.java

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* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/ConfigRepository.java
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jar/com/jcraft/jsch/jce/TripleDESCTR.java  
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* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/jce/AES256CTR.java
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* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/jce/AES256CBC.java
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* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/jce/AES192CBC.java
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*/

Found in path(s):

* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/Compression.java
* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/DHGEX256.java
* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/Channel.java
* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/CipherNone.java
* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/Session.java
* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/Util.java
* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/DHGEX.java
* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/PortWatcher.java
* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/jce/SignatureRSA.java
* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/RequestX11.java
* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/Identity.java
* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/ChannelShell.java
* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/RequestPtyReq.java
* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/HostKey.java
* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/ServerSocketFactory.java

* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/SocketFactory.java
* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/ChannelExec.java
* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/UserAuthKeyboardInteractive.java
* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/IdentityFile.java
* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/ProxyHTTP.java
* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/JSch.java
* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/UIKeyboardInteractive.java
* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/Proxy.java
* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/jce/KeyPairGenRSA.java
* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/RequestShell.java
* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/DH.java
* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/jce/HMACSHA196.java
* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/SignatureRSA.java
* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/KeyPairRSA.java
* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/ForwardedTCPIPDaemon.java
* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/ChannelSession.java
* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/Cipher.java
* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/Request.java
* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/MAC.java
* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/HASH.java
* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/UserAuth.java
* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/jce/MD5.java
* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/SftpStatVFS.java
* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/UserAuthPassword.java
* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/jcraft/Compression.java
* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/SftpProgressMonitor.java
* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/JSchAuthCancelException.java
* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/SignatureDSA.java
* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/Buffer.java
* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/DHG14.java
* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/JSchException.java
* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/ChannelForwardedTCPIP.java
* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/jce/KeyPairGenDSA.java
* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/RequestExec.java
* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/jce/TripleDESCBC.java
* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/KeyPairDSA.java

* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/ChannelSftp.java
* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/jce/BlowfishCBC.java
* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/KeyPair.java
* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/RequestSignal.java
* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/KnownHosts.java
* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/RequestEnv.java
* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/Packet.java
* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/IO.java
* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/ChannelDirectTCPIP.java
* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/jce/SignatureDSA.java
* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/JSchPartialAuthException.java
* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/jce/SHA1.java
* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/ProxySOCKS5.java
* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/RequestSftp.java
* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/jce/HMACCMD596.java
* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/KeyPairGenRSA.java
* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/UserInfo.java
* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/KeyPairGenDSA.java
* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/jce/SHA256.java
* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/jce/HMACSHA1.java
* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/jce/Random.java
* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/SftpException.java
* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/KeyExchange.java
* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/Random.java
* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/ChannelX11.java
* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/UserAuthNone.java
* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/RequestWindowChange.java
* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/jce/HMACCMD5.java
* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/SftpATTRS.java
* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/jce/DH.java
* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/UserAuthPublicKey.java
* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/DHG1.java

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Found in path(s):

* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/DHEC256.java
* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/jce/SignatureECDSA384.java
* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/DHECN.java
* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/ECDH.java
* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/jce/ECDH384.java
* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/jce/ECDHN.java
* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/jce/ECDH256.java
* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/jce/SignatureECDSA256.java
* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/jce/ECDH521.java
* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/DHEC521.java
* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/DHEC384.java
* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/KeyPairECDSA.java
* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/jce/SHA384.java
* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/jce/KeyPairGenECDSA.java
* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/jce/SHA512.java
* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/jce/SignatureECDSAN.java
* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/KeyPairGenECDSA.java
* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/jce/SignatureECDSA521.java
* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/SignatureECDSA.java

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Found in path(s):

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* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/Logger.java
* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/jcraft/HMAC.java
* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/jcraft/HMACSHA1.java
* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/jcraft/HMACMD5.java
* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/jcraft/HMACMD596.java
* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/jgss/GSSContextKrb5.java
* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/jcraft/HMACSHA196.java
* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/RequestAgentForwarding.java
* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/ChannelAgentForwarding.java
* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/ProxySOCKS4.java
```

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* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/HostKeyRepository.java

* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/GSSContext.java

1.84 jna 5.4.0

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```
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Found in path(s):

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- * /opt/cola/permits/1239450694_1639077007.04/0/jna-5-4-0-sources-jar/com/sun/jna/Function.java
- * /opt/cola/permits/1239450694_1639077007.04/0/jna-5-4-0-sources-jar/com/sun/jna/Pointer.java
- * /opt/cola/permits/1239450694_1639077007.04/0/jna-5-4-0-sources-jar/com/sun/jna/InvocationMapper.java
- * /opt/cola/permits/1239450694_1639077007.04/0/jna-5-4-0-sources-jar/com/sun/jna/CallbackResultContext.java
- * /opt/cola/permits/1239450694_1639077007.04/0/jna-5-4-0-sources-jar/com/sun/jna/VarArgsChecker.java
- * /opt/cola/permits/1239450694_1639077007.04/0/jna-5-4-0-sources-jar/com/sun/jna/Platform.java
- * /opt/cola/permits/1239450694_1639077007.04/0/jna-5-4-0-sources-jar/com/sun/jna/NativeString.java
- * /opt/cola/permits/1239450694_1639077007.04/0/jna-5-4-0-sources-jar/com/sun/jna/JNIEnv.java
- * /opt/cola/permits/1239450694_1639077007.04/0/jna-5-4-0-sources-jar/com/sun/jna/WeakMemoryHolder.java
- * /opt/cola/permits/1239450694_1639077007.04/0/jna-5-4-0-sources-jar/com/sun/jna/Library.java
- * /opt/cola/permits/1239450694_1639077007.04/0/jna-5-4-0-sources-jar/com/sun/jna/win32/W32APIOptions.java

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Type mapping behavior may be customized by providing a `{@link com.sun.jna.TypeMapper}` for the `{@link com.sun.jna.Library#OPTION_TYPE_MAPPER}` option when initializing a library interface. See `{@link com.sun.jna.win32.W32APITypeMapper}` for an example which provides custom conversion of boolean and String types. You are free to use whatever types are convenient in your defined interfaces, but all custom types **must** provide a mapping to one of the basic or derived types listed above.

Found in path(s):

- * /opt/cola/permits/1239450694_1639077007.04/0/jna-5-4-0-sources-jar/com/sun/jna/overview.html

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 * /opt/cola/permits/1239450694_1639077007.04/0/jna-5-4-0-sources-jar/com/sun/jna/win32/W32APIFunctionMapper.java
 * /opt/cola/permits/1239450694_1639077007.04/0/jna-5-4-0-sources-jar/com/sun/jna/ptr/DoubleByReference.java
 * /opt/cola/permits/1239450694_1639077007.04/0/jna-5-4-0-sources-jar/com/sun/jna/AltCallingConvention.java
 * /opt/cola/permits/1239450694_1639077007.04/0/jna-5-4-0-sources-jar/com/sun/jna/StructureReadContext.java
 * /opt/cola/permits/1239450694_1639077007.04/0/jna-5-4-0-sources-jar/com/sun/jna/FunctionResultContext.java
 * /opt/cola/permits/1239450694_1639077007.04/0/jna-5-4-0-sources-jar/com/sun/jna/ptr/ShortByReference.java
 * /opt/cola/permits/1239450694_1639077007.04/0/jna-5-4-0-sources-jar/com/sun/jna/TypeConverter.java
 * /opt/cola/permits/1239450694_1639077007.04/0/jna-5-4-0-sources-jar/com/sun/jna/ptr/PointerByReference.java
 * /opt/cola/permits/1239450694_1639077007.04/0/jna-5-4-0-sources-jar/com/sun/jna/ptr/NativeLongByReference.java
 * /opt/cola/permits/1239450694_1639077007.04/0/jna-5-4-0-sources-jar/com/sun/jna/win32/StdCallFunctionMapper.java
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 * /opt/cola/permits/1239450694_1639077007.04/0/jna-5-4-0-sources-jar/com/sun/jna/PointerType.java
 * /opt/cola/permits/1239450694_1639077007.04/0/jna-5-4-0-sources-jar/com/sun/jna/ptr/FloatByReference.java
 * /opt/cola/permits/1239450694_1639077007.04/0/jna-5-4-0-sources-jar/com/sun/jna/TypeMapper.java
 * /opt/cola/permits/1239450694_1639077007.04/0/jna-5-4-0-sources-jar/com/sun/jna/CallbackParameterContext.java
 * /opt/cola/permits/1239450694_1639077007.04/0/jna-5-4-0-sources-jar/com/sun/jna/NativeMappedConverter.java
 * /opt/cola/permits/1239450694_1639077007.04/0/jna-5-4-0-sources-jar/com/sun/jna/win32/StdCall.java
 * /opt/cola/permits/1239450694_1639077007.04/0/jna-5-4-0-sources-jar/com/sun/jna/ptr/LongByReference.java
 * /opt/cola/permits/1239450694_1639077007.04/0/jna-5-4-0-sources-jar/com/sun/jna/WString.java
 * /opt/cola/permits/1239450694_1639077007.04/0/jna-5-4-0-sources-jar/com/sun/jna/FunctionMapper.java
 * /opt/cola/permits/1239450694_1639077007.04/0/jna-5-4-0-sources-

jar/com/sun/jna/win32/W32APITypeMapper.java

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* /opt/cola/permits/1239450694_1639077007.04/0/jna-5-4-0-sources-
jar/com/sun/jna/FunctionParameterContext.java
* /opt/cola/permits/1239450694_1639077007.04/0/jna-5-4-0-sources-jar/com/sun/jna/NativeMapped.java
* /opt/cola/permits/1239450694_1639077007.04/0/jna-5-4-0-sources-jar/com/sun/jna/DefaultTypeMapper.java
* /opt/cola/permits/1239450694_1639077007.04/0/jna-5-4-0-sources-jar/com/sun/jna/StructureWriteContext.java
* /opt/cola/permits/1239450694_1639077007.04/0/jna-5-4-0-sources-jar/com/sun/jna/IntegerType.java
* /opt/cola/permits/1239450694_1639077007.04/0/jna-5-4-0-sources-jar/com/sun/jna/CallbackProxy.java
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* /opt/cola/permits/1239450694_1639077007.04/0/jna-5-4-0-sources-jar/com/sun/jna/FromNativeConverter.java
* /opt/cola/permits/1239450694_1639077007.04/0/jna-5-4-0-sources-jar/com/sun/jna/NativeLong.java
* /opt/cola/permits/1239450694_1639077007.04/0/jna-5-4-0-sources-jar/com/sun/jna/MethodParameterContext.java
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ASM: a very small and fast Java bytecode manipulation framework

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1.95 java-object-layout:-core 0.2

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1.98 brace-expansion 1.1.11

1.98.1 Available under license :

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1.99 apache-xml-rpc-common-library 3.1.3

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1.100 listenercount 1.0.1

1.100.1 Available under license :

ISC

1.101 font-awesome 4.7.0

1.101.1 Available under license :

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

\$fa-var-drivers-license: "\f2c2";

Found in path(s):

* /opt/ws_local/PERMITS_SQL/1067734584_1594844909.27/0/font-awesome-4-7-0-3-tgz/package/scss/_variables.scss

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

/*!

* Font Awesome 4.7.0 by @davegandy - <http://fontawesome.io> - @fontawesome
* License - <http://fontawesome.io/license> (Font: SIL OFL 1.1, CSS: MIT License)
*/

Found in path(s):

* /opt/ws_local/PERMITS_SQL/1067734584_1594844909.27/0/font-awesome-4-7-0-3-tgz/package/css/font-awesome.css
* /opt/ws_local/PERMITS_SQL/1067734584_1594844909.27/0/font-awesome-4-7-0-3-tgz/package/css/font-awesome.min.css
* /opt/ws_local/PERMITS_SQL/1067734584_1594844909.27/0/font-awesome-4-7-0-3-tgz/package/less/font-awesome.less
* /opt/ws_local/PERMITS_SQL/1067734584_1594844909.27/0/font-awesome-4-7-0-3-tgz/package/scss/font-awesome.scss

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

[Font Awesome v4.7.0](<http://fontawesome.io>)
The iconic font and CSS framework

Font Awesome is a full suite of 675 pictographic icons for easy scalable vector graphics on websites, created and maintained by [Dave Gandy](<https://twitter.com/davegandy>). Stay up to date with the latest release and announcements on Twitter: [@fontawesome](<http://twitter.com/fontawesome>).

Get started at <http://fontawesome.io>!

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Changelog

- [v4.7.0 GitHub pull request](<https://github.com/FortAwesome/Font-Awesome/pull/10012>)
- [v4.6.3 GitHub pull request](<https://github.com/FortAwesome/Font-Awesome/pull/9189>)
- [v4.6.3 GitHub pull request](<https://github.com/FortAwesome/Font-Awesome/pull/9189>)
- [v4.6.2 GitHub pull request](<https://github.com/FortAwesome/Font-Awesome/pull/9117>)
- [v4.6.1 GitHub pull request](<https://github.com/FortAwesome/Font-Awesome/pull/8962>)
- [v4.6.0 GitHub milestones](<https://github.com/FortAwesome/Font-Awesome/issues?q=milestone%3A4.6.0+is%3Aclosed>)
- [v4.5.0 GitHub milestones](<https://github.com/FortAwesome/Font-Awesome/issues?q=milestone%3A4.5.0+is%3Aclosed>)
- [v4.4.0 GitHub milestones](<https://github.com/FortAwesome/Font-Awesome/issues?q=milestone%3A4.4.0+is%3Aclosed>)

- Awesome/issues?q=milestone%3A4.4.0+is%3Aclosed)
- [v4.3.0 GitHub milestones](https://github.com/FortAwesome/Font-Awesome/issues?q=milestone%3A4.3.0+is%3Aclosed)
- [v4.2.0 GitHub milestones](https://github.com/FortAwesome/Font-Awesome/issues?milestone=12&page=1&state=closed)
- [v4.1.0 GitHub milestones](https://github.com/FortAwesome/Font-Awesome/issues?milestone=6&page=1&state=closed)
- [v4.0.3 GitHub milestones](https://github.com/FortAwesome/Font-Awesome/issues?milestone=9&page=1&state=closed)
- [v4.0.2 GitHub milestones](https://github.com/FortAwesome/Font-Awesome/issues?milestone=8&page=1&state=closed)
- [v4.0.1 GitHub milestones](https://github.com/FortAwesome/Font-Awesome/issues?milestone=7&page=1&state=closed)
- [v4.0.0 GitHub milestones](https://github.com/FortAwesome/Font-Awesome/issues?milestone=2&page=1&state=closed)
- [v3.2.1 GitHub milestones](https://github.com/FortAwesome/Font-Awesome/issues?milestone=5&page=1&state=closed)
- [v3.2.0 GitHub milestones](https://github.com/FortAwesome/Font-Awesome/issues?milestone=3&page=1&state=closed)
- [v3.1.1 GitHub milestones](https://github.com/FortAwesome/Font-Awesome/issues?milestone=4&page=1&state=closed)
- v3.1.0 - Added 54 icons, icon stacking styles, flipping and rotating icons, removed Sass support
- v3.0.2 - much improved rendering and alignment in IE7
- v3.0.1 - much improved rendering in webkit, various bug fixes
- v3.0.0 - all icons redesigned from scratch, optimized for Bootstrap's 14px default

Contributing

Please read through our [contributing guidelines](https://github.com/FortAwesome/Font-Awesome/blob/master/CONTRIBUTING.md).

Included are directions for opening issues, coding standards, and notes on development.

Versioning

Font Awesome will be maintained under the Semantic Versioning guidelines as much as possible. Releases will be numbered

with the following format:

`<major>.<minor>.<patch>`

And constructed with the following guidelines:

- * Breaking backward compatibility bumps the major (and resets the minor and patch)
- * New additions, including new icons, without breaking backward compatibility bumps the minor (and resets the patch)
- * Bug fixes, changes to brand logos, and misc changes bumps the patch

For more information on SemVer, please visit <http://semver.org>.

Author

- Email: dave@fontawesome.io
- Twitter: <http://twitter.com/davegandy>
- GitHub: <https://github.com/davegandy>

Component

To include as a [component](<https://github.com/componentjs/component>), just run

```
$ component install FortAwesome/Font-Awesome
```

Or add

```
"FortAwesome/Font-Awesome": "*"
```

to the `dependencies` in your `component.json`.

Hacking on Font Awesome

****Before you can build the project**, you must first have the following installed:**

- [Ruby](<https://www.ruby-lang.org/en/>)
- Ruby Development Headers
- ****Ubuntu:**** `sudo apt-get install ruby-dev` *(Only if you're NOT using `rbenv` or `rvm`)*
- ****Windows:**** [DevKit](<http://rubyinstaller.org/>)
- [Bundler](<http://bundler.io/>) (Run `gem install bundler` to install).
- [Node Package Manager (AKA NPM)](<https://docs.npmjs.com/getting-started/installing-node>)
- [Less](<http://lesscss.org/>) (Run `npm install -g less` to install).
- [Less Plugin: Clean CSS](<https://github.com/less/less-plugin-clean-css>) (Run `npm install -g less-plugin-clean-css` to install).

From the root of the repository, install the tools used to develop.

```
$ bundle install
```

```
$ npm install
```

Build the project and documentation:

```
$ bundle exec jekyll build
```

Or serve it on a local server on <http://localhost:7998/Font-Awesome/>:

```
$ bundle exec jekyll -w serve
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1067734584_1594844909.27/0/font-awesome-4-7-0-3-tgz/package/README.md
```

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

#{ \$fa-css-prefix }-drivers-license:before,

Found in path(s):

* /opt/ws_local/PERMITS_SQL/1067734584_1594844909.27/0/font-awesome-4-7-0-3-tgz/package/scss/_icons.scss

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// Variables

// -----

@fa-font-path: "../fonts";

@fa-font-size-base: 14px;

@fa-line-height-base: 1;

//@fa-font-path: "//netdna.bootstrapcdn.com/font-awesome/4.7.0/fonts"; // for referencing Bootstrap CDN font files directly

@fa-css-prefix: fa;

@fa-version: "4.7.0";

@fa-border-color: #eee;

@fa-inverse: #fff;

@fa-li-width: (30em / 14);

@fa-var-500px: "\f26e";

@fa-var-address-book: "\f2b9";

@fa-var-address-book-o: "\f2ba";

@fa-var-address-card: "\f2bb";

@fa-var-address-card-o: "\f2bc";

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@fa-var-adn: "\f170";

@fa-var-align-center: "\f037";

@fa-var-align-justify: "\f039";

@fa-var-align-left: "\f036";

@fa-var-align-right: "\f038";

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@fa-var-ambulance: "\f0f9";

@fa-var-american-sign-language-interpreting: "\f2a3";

@fa-var-anchor: "\f13d";

@fa-var-android: "\f17b";

@fa-var-angellist: "\f209";

@fa-var-angle-double-down: "\f103";

@fa-var-angle-double-left: "\f100";

@fa-var-angle-double-right: "\f101";

@fa-var-angle-double-up: "\f102";

@fa-var-angle-down: "\f107";

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@fa-var-angle-up: "\f106";

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@fa-var-asterisk: "\f069";
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@fa-var-bell-o: "\f0a2";
@fa-var-bell-slash: "\f1f6";
@fa-var-bell-slash-o: "\f1f7";
@fa-var-bicycle: "\f206";
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@fa-var-birthday-cake: "\f1fd";
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@fa-var-bitbucket-square: "\f172";
@fa-var-bitcoin: "\f15a";
@fa-var-black-tie: "\f27e";
@fa-var-blind: "\f29d";
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@fa-var-bullseye: "\f140";
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1.102 Iodash-union 4.6.0

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1.103 jersey-server 1.19

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1.104 d3-timer 1.0.7

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DOM4J library (dom4j-1.6.1.jar)

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JUnit test library (junit-3.8.1.jar)

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1.113 jackson-databind 2.12.3

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1.114 normalize-path 3.0.0

1.115 org.apache.commons.fileupload 1.1.1

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1.116 jsch 0.1.41

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1.117 cloudwatch-metrics-for-aws-java-sdk

1.11.555

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1.118 jersey-json 1.19

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1.119 sax 1.2.4

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1.120 decode-uri-component 0.2.0

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1.121 fs.realpath 1.0.0

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1.122 zip-stream 2.1.3

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1.123 javax-inject 1

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1.124 j2objc-annotations 1.1

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* /opt/cola/permits/1130988593_1612871608.58/0/j2objc-annotations-1-1-sources-4-jar/com/google/j2objc/annotations/Weak.java

* /opt/cola/permits/1130988593_1612871608.58/0/j2objc-annotations-1-1-sources-4-jar/com/google/j2objc/annotations/AutoreleasePool.java

* /opt/cola/permits/1130988593_1612871608.58/0/j2objc-annotations-1-1-sources-4-jar/com/google/j2objc/annotations/WeakOuter.java

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* /opt/cola/permits/1130988593_1612871608.58/0/j2objc-annotations-1-1-sources-4-jar/com/google/j2objc/annotations/ObjectiveCName.java

* /opt/cola/permits/1130988593_1612871608.58/0/j2objc-annotations-1-1-sources-4-jar/com/google/j2objc/annotations/RetainedLocalRef.java

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* /opt/cola/permits/1130988593_1612871608.58/0/j2objc-annotations-1-1-sources-4-jar/com/google/j2objc/annotations/ReflectionSupport.java

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* /opt/cola/permits/1130988593_1612871608.58/0/j2objc-annotations-1-1-sources-4-jar/com/google/j2objc/annotations/J2ObjCIncompatible.java

1.125 extended 0.0.6

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1.126 Lucene-queries 8.9.0

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jar/com/google/protobuf/DescriptorProtos.ServiceOptions.Builder.html
* /opt/cola/permits/1023261121_1609963156.48/0/protobuf-java-2-5-0-javadoc-jar/com/google/protobuf/class-
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Jdom-contrib version 1.1.3

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[1] <https://github.com/hunterhacker/jdom/blob/master/LICENSE.txt>

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analysis/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt,
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core/src/java/org/apache/lucene/util/compress/LZ4.java is a Java implementation of the LZ4 (<https://github.com/lz4/lz4/tree/dev/lib>) compression format for Lucene's DataInput/DataOutput abstractions.

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A

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```
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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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1.130 jackson-core 2.6.6

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1.131 bouncy-castle 1.46

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1.132 error_prone_annotations 2.3.2

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* /opt/cola/permits/1210671314_1633442987.29/0/error-prone-annotations-2-3-2-sources-9-jar/com/google/errorprone/annotations/DoNotCall.java

* /opt/cola/permits/1210671314_1633442987.29/0/error-prone-annotations-2-3-2-sources-9-jar/com/google/errorprone/annotations/concurrent/GuardedBy.java

* /opt/cola/permits/1210671314_1633442987.29/0/error-prone-annotations-2-3-2-sources-9-jar/com/google/errorprone/annotations/CheckReturnValue.java

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* /opt/cola/permits/1210671314_1633442987.29/0/error-prone-annotations-2-3-2-sources-9-jar/com/google/errorprone/annotations/FormatMethod.java
* /opt/cola/permits/1210671314_1633442987.29/0/error-prone-annotations-2-3-2-sources-9-jar/com/google/errorprone/annotations/CompatibleWith.java
* /opt/cola/permits/1210671314_1633442987.29/0/error-prone-annotations-2-3-2-sources-9-jar/com/google/errorprone/annotations/FormatString.java
* /opt/cola/permits/1210671314_1633442987.29/0/error-prone-annotations-2-3-2-sources-9-jar/com/google/errorprone/annotations/MustBeClosed.java

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* /opt/cola/permits/1210671314_1633442987.29/0/error-prone-annotations-2-3-2-sources-9-jar/com/google/errorprone/annotations/concurrent/LockMethod.java
* /opt/cola/permits/1210671314_1633442987.29/0/error-prone-annotations-2-3-2-sources-9-

jar/com/google/errorprone/annotations/concurrent/UnlockMethod.java

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* /opt/cola/permits/1210671314_1633442987.29/0/error-prone-annotations-2-3-2-sources-9-jar/com/google/errorprone/annotations/ForOverride.java

* /opt/cola/permits/1210671314_1633442987.29/0/error-prone-annotations-2-3-2-sources-9-jar/com/google/errorprone/annotations/IncompatibleModifiers.java

* /opt/cola/permits/1210671314_1633442987.29/0/error-prone-annotations-2-3-2-sources-9-jar/com/google/errorprone/annotations/CanIgnoreReturnValue.java

* /opt/cola/permits/1210671314_1633442987.29/0/error-prone-annotations-2-3-2-sources-9-jar/com/google/errorprone/annotations/RequiredModifiers.java

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* /opt/cola/permits/1210671314_1633442987.29/0/error-prone-annotations-2-3-2-sources-9-jar/com/google/errorprone/annotations/Immutable.java

1.133 jackson-datatype-jsr310 2.10.0

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1.134 jetty-websocket-common

9.4.40.v20210413

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Full name: Jesse C. McConnell
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C/W/GuQFfCJJykkL2jd9/Ag=
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* org.eclipse.jetty.orbit:javafx.security.auth.message

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* org.eclipse.jetty.orbit:javafx.mail.glassfish

Oracle

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

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* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

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org.ow2.asm:asm-commons

org.ow2.asm:asm

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org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper

org.apache.tomcat:tomcat-juli

org.apache.tomcat:tomcat-jsp-api

org.apache.tomcat:tomcat-el-api

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan

org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
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org.apache.tomcat:tomcat-el-api

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org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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The following dependencies are EPL and ASL2.

* org.eclipse.jetty.orbit:javac.security.auth.message

The following dependencies are EPL and CDDL 1.0.

* org.eclipse.jetty.orbit:javac.mail.glassfish

The following dependencies are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

If ALPN is used to negotiate HTTP/2 connections, then the following distribution may be included in the distribution or downloaded when ALPN module is selected. These artifacts replace/modify OpenJDK classes.

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<http://openjdk.java.net/legal/gplv2+ce.html>

* java.sun.security.ssl

The following dependencies are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

* org.ow2.asm:asm-commons
* org.ow2.asm:asm

The following dependencies are ASL2 licensed.

* org.apache.taglibs:taglibs-standard-spec
* org.apache.taglibs:taglibs-standard-impl

The following dependencies are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

* org.mortbay.jasper:apache-jsp
* org.apache.tomcat:tomcat-jasper
* org.apache.tomcat:tomcat-juli
* org.apache.tomcat:tomcat-jsp-api

- * org.apache.tomcat:tomcat-el-api
- * org.apache.tomcat:tomcat-jasper-el
- * org.apache.tomcat:tomcat-api
- * org.apache.tomcat:tomcat-util-scan
- * org.apache.tomcat:tomcat-util
- * org.mortbay.jasper:apache-el
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- * org.apache.tomcat:tomcat-el-api

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- * org.eclipse.jetty.toolchain:jetty-schemas

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Zokttk0bTHfwaa5TtxQbScw=

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Full name: Simone Bordet

E-Mail: `simone.bordet@gmail.com`

Mailing Address:

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Version: GnuPG v1.4.3 (GNU/Linux)

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LBDVaad1bJ1v1EHY901kPcg=

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Full name: James Strachan

E-Mail: jstrachan@apache.org

Mailing Address: 1A Leigh Road, London, UK, N5 1ST

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Date: January 30th 2006

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Version: GnuPG v1.4.1 (Darwin)

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8sfMxEDZquIqhVbfZU2c76U=
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Version: GnuPG v1.4.4 (MingW32)

iD8DBQFEt1ZxHR/ESK2w6H8RApbOAJ9c1eooNr2oN59WZVtJExGJjUvKgCfaKji
6etDJ6AUj0jTuS159hUsWMQ=
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Corporation name: Simula Labs, Inc.
Mailing Address: 4676 Admiralty Way, Suite 520
Marina Del Rey, CA 90292

Point of Contact:
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E-Mail: gordon.king@simulalabs.com
Fax: +1 800 822 0471

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Date:

Signature:

Name: Gordon King

Positions: Chief Operational Officer

Schedule A

Name	Date added
Simone Bordet	12 September 2006

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Full name: Julian Anthony Fox Gosnell

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Mailing Address: 2, Tannery Cottages, Tannery Lane, Bramley, Surrey, GU5 0AB, UK.

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1.136 woodstox 6.0.1

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1.137 bean-validation-api 1.1.0

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1.138 esapi-java-legacy 2.0.1

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1.140 backport-jsr-166 3.1

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1.2.1

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(LGPL-2.0 or MIT)

xmldom@0.1.31

URL: <git://github.com/xmldom/xmldom.git>

VendorName: jindw

VendorUrl: <https://github.com/xmldom/xmldom>

(MIT AND JSON)

jshint@2.10.3

URL: <https://github.com/jshint/jshint.git>

VendorName: Anton Kovalyov

VendorUrl: <http://jshint.com/>

(MIT OR Apache-2.0)
ember-test-helpers@0.5.34
URL: <https://github.com/switchfly/ember-test-helpers.git>

(WTFPL OR MIT)
opener@1.4.3
URL: <https://github.com/domenic/opener.git>
VendorName: Domenic Denicola
VendorUrl: <https://domenic.me/>

path-is-inside@1.0.2
URL: <https://github.com/domenic/path-is-inside.git>
VendorName: Domenic Denicola
VendorUrl: <https://domenic.me>

Apache-2.0
aws-sign2@0.6.0
URL: <https://github.com/mikeal/aws-sign>
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VendorUrl: <http://www.futurealooof.com>

aws-sign2@0.7.0
URL: <https://github.com/mikeal/aws-sign>
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bser@2.1.1
URL: <https://github.com/facebook/watchman>
VendorName: Wez Furlong
VendorUrl: <https://facebook.github.io/watchman/docs/bser.html>

caseless@0.11.0
URL: <https://github.com/mikeal/caseless>
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caseless@0.12.0
URL: <https://github.com/mikeal/caseless>
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fb-watchman@2.0.1
URL: <git@github.com:facebook/watchman.git>
VendorName: Wez Furlong
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forever-agent@0.6.1
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kew@0.7.0
URL: <https://github.com/Medium/kew.git>
VendorUrl: <https://github.com/Medium/kew>

less@2.7.3
URL: <https://github.com/less/less.js.git>
VendorName: Alexis Sellier
VendorUrl: <http://lesscss.org/>

oauth-sign@0.8.2
URL: <https://github.com/mikeal/oauth-sign>

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oauth-sign@0.9.0
URL: <https://github.com/mikeal/oauth-sign>
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phantomjs-prebuilt@2.1.13
URL: <git://github.com/Medium/phantomjs.git>
VendorName: Dan Papius
VendorUrl: <https://github.com/Medium/phantomjs>
request@2.65.0
URL: <https://github.com/request/request.git>
VendorName: Mikeal Rogers
request@2.74.0
URL: <https://github.com/request/request.git>
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request@2.81.0
URL: <https://github.com/request/request.git>
VendorName: Mikeal Rogers
request@2.88.0
URL: <https://github.com/request/request.git>
VendorName: Mikeal Rogers
spdx-correct@3.1.0
URL: <https://github.com/jslicense/spdx-correct.js.git>
VendorName: Kyle E. Mitchell
VendorUrl: <https://kemitchell.com>
spdx@0.4.3
URL: <https://github.com/kemitchell/spdx.js.git>
VendorName: Kyle E. Mitchell
VendorUrl: <https://github.com/kemitchell/spdx.js>
true-case-path@1.0.3
URL: <git+https://github.com/barsh/true-case-path.git>
VendorName: barsh
VendorUrl: <https://github.com/barsh/true-case-path#readme>
tunnel-agent@0.4.3
URL: <https://github.com/mikeal/tunnel-agent>
VendorName: Mikeal Rogers
VendorUrl: <http://www.futurealooof.com>
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URL: <https://github.com/mikeal/tunnel-agent>
VendorName: Mikeal Rogers
VendorUrl: <http://www.futurealooof.com>
validate-npm-package-license@3.0.4
URL: <https://github.com/kemitchell/validate-npm-package-license.js.git>
VendorName: Kyle E. Mitchell
VendorUrl: <https://kemitchell.com>
walker@1.0.7
URL: <https://github.com/daaku/nodejs-walker>

VendorName: Naitik Shah
VendorUrl: <https://github.com/daaku/nodejs-walker-socket-driver>@0.7.3
URL: <git://github.com/faye/websocket-driver-node>.git
VendorName: James Coglan
VendorUrl: <https://github.com/faye/websocket-driver-node-workerpool>@2.3.3
URL: <git://github.com/josdejong/workerpool>.git
VendorName: Jos de Jong
VendorUrl: <https://github.com/josdejong/workerpool>

Apache*

watch@0.10.0
URL: <git://github.com/mikeal/watch>.git
VendorName: Mikeal Rogers
VendorUrl: <https://github.com/mikeal/watch>

Artistic-2.0

npm@2.14.10
URL: <https://github.com/npm/npm>
VendorName: Isaac Z. Schlueter
VendorUrl: <https://docs.npmjs.com/>

BSD

graceful-fs@2.0.3
URL: <git://github.com/isaacs/node-graceful-fs>.git
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me>

mute-stream@0.0.4
URL: <git://github.com/isaacs/mute-stream>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

osenv@0.0.3
URL: <git://github.com/isaacs/osenv>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

tar@1.0.3
URL: <git://github.com/isaacs/node-tar>.git
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

BSD-2-Clause

cmd-shim@2.0.2
URL: <https://github.com/ForbesLindesay/cmd-shim>.git

configstore@1.2.1
URL: <https://github.com/yeoman/configstore>.git
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

domelementtype@1.3.1
URL: <git://github.com/fb55/domelementtype>.git
VendorName: Felix Boehm
domelementtype@2.0.1

URL: [git://github.com/fb55/domelementtype.git](https://github.com/fb55/domelementtype.git)
VendorName: Felix Boehm
domhandler@2.3.0
URL: [git://github.com/fb55/DomHandler.git](https://github.com/fb55/DomHandler.git)
VendorName: Felix Boehm
domutils@1.5.1
URL: [git://github.com/FB55/domutils.git](https://github.com/FB55/domutils.git)
VendorName: Felix Boehm
entities@1.0.0
URL: [git://github.com/fb55/node-entities.git](https://github.com/fb55/node-entities.git)
VendorName: Felix Boehm
entities@1.1.2
URL: [git://github.com/fb55/entities.git](https://github.com/fb55/entities.git)
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entities@2.0.0
URL: [git://github.com/fb55/entities.git](https://github.com/fb55/entities.git)
VendorName: Felix Boehm
esprima@2.7.3
URL: <https://github.com/jquery/esprima.git>
VendorName: Ariya Hidayat
VendorUrl: <http://esprima.org/>
esprima@3.1.3
URL: <https://github.com/jquery/esprima.git>
VendorName: Ariya Hidayat
VendorUrl: <http://esprima.org/>
esprima@4.0.1
URL: <https://github.com/jquery/esprima.git>
VendorName: Ariya Hidayat
VendorUrl: <http://esprima.org/>
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URL: <http://github.com/estools/esutils.git>
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URL: [git+ssh://git@github.com/maxogden/extract-zip.git](https://github.com/maxogden/extract-zip.git)
VendorName: max ogden
VendorUrl: <https://github.com/maxogden/extract-zip>
github-url-from-username-repo@1.0.2
URL: [git@github.com:robertkowalski/github-url-from-username-repo.git](https://github.com/robertkowalski/github-url-from-username-repo.git)
VendorName: Robert Kowalski
normalize-package-data@2.3.8
URL: [git://github.com/npm/normalize-package-data.git](https://github.com/npm/normalize-package-data.git)
VendorName: Meryn Stol
normalize-package-data@2.5.0
URL: [git://github.com/npm/normalize-package-data.git](https://github.com/npm/normalize-package-data.git)
VendorName: Meryn Stol
npm-install-checks@1.0.7
URL: [git://github.com/npm/npm-install-checks.git](https://github.com/npm/npm-install-checks.git)
VendorName: Robert Kowalski

VendorUrl: <https://github.com/npm/npm-install-checks>
npm-user-validate@0.1.5
URL: <git://github.com/npm/npm-user-validate.git>
VendorName: Robert Kowalski
regenerator@0.8.40
URL: <git://github.com/facebook/regenerator.git>
VendorName: Ben Newman
VendorUrl: <http://github.com/facebook/regenerator>
regjsparser@0.1.5
URL: <git://github.com:jviereck/regjsparser.git>
VendorName: 'Julian Viereck'
VendorUrl: <https://github.com/jviereck/regjsparser>
uglify-js@2.8.29
URL: <https://github.com/mishoo/UglifyJS2.git>
VendorName: Mihai Bazon
VendorUrl: <http://lisperator.net/uglifyjs>
uri-js@4.2.2
URL: <http://github.com/garycourt/uri-js>
VendorName: Gary Court
VendorUrl: <https://github.com/garycourt/uri-js>
BSD-3-Clause
bcrypt-pbkdf@1.0.2
URL: <git://github.com/joyent/node-bcrypt-pbkdf.git>
boom@2.10.1
URL: <git://github.com/hapijs/boom>
cpr@0.4.2
URL: <http://github.com/davglass/cpr.git>
VendorName: Dav Glass
cryptiles@2.0.5
URL: <git://github.com/hapijs/cryptiles>
hawk@3.1.3
URL: <git://github.com/hueniverse/hawk>
VendorName: Eran Hammer
VendorUrl: <http://hueniverse.com>
hoek@2.16.3
URL: <git://github.com/hapijs/hoek>
js-base64@2.5.1
URL: <git://github.com/dankogai/js-base64.git>
VendorName: Dan Kogai
makeerror@1.0.11
URL: <https://github.com/daaku/nodejs-makeerror>
VendorName: Naitik Shah
printf@0.2.5
URL: <https://github.com/wdavidw/node-printf.git>
VendorName: David Worms
VendorUrl: <http://www.adaltas.com/projects/node-printf>
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URL: <git://github.com/arturadib/shelljs.git>
VendorName: Artur Adib
VendorUrl: <http://github.com/arturadib/shelljs>
source-map@0.1.32
URL: <http://github.com/mozilla/source-map.git>
VendorName: Nick Fitzgerald
VendorUrl: <https://github.com/mozilla/source-map>
source-map@0.1.43
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VendorUrl: <https://github.com/mozilla/source-map>
source-map@0.4.4
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source-map@0.5.7
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VendorName: Nick Fitzgerald
VendorUrl: <https://github.com/mozilla/source-map>
sprintf-js@1.0.3
URL: <https://github.com/alexei/sprintf.js.git>
VendorName: Alexandru Marasteanu
VendorUrl: <http://alexei.ro/>
sprintf-js@1.1.2
URL: <https://github.com/alexei/sprintf.js.git>
VendorName: Alexandru Mrteanu
tmpl@1.0.4
URL: <https://github.com/daaku/nodejs-tmpl>

VendorName: Naitik Shah
VendorUrl: <https://github.com/nshah/nodejs-tmpl>
tough-cookie@2.2.2
URL: <git://github.com/SalesforceEng/tough-cookie.git>
VendorName: Jeremy Stashewsky
VendorUrl: <https://github.com/SalesforceEng/tough-cookie>
tough-cookie@2.3.4
URL: <git://github.com/salesforce/tough-cookie.git>
VendorName: Jeremy Stashewsky
VendorUrl: <https://github.com/salesforce/tough-cookie>
tough-cookie@2.4.3
URL: <git://github.com/salesforce/tough-cookie.git>
VendorName: Jeremy Stashewsky
VendorUrl: <https://github.com/salesforce/tough-cookie>

BSD-3-Clause OR MIT
amdefine@1.0.1
URL: <https://github.com/jrburke/amdefine.git>
VendorName: James Burke
VendorUrl: <http://github.com/jrburke/amdefine>

BSD*
diff@1.4.0
URL: <git://github.com/kpdecker/jsdiff.git>
esprima-fb@12001.1.0-dev-harmony-fb
URL: <http://github.com/facebook/esprima.git>
VendorName: Ariya Hidayat
VendorUrl: <https://github.com/facebook/esprima/tree/fb-harmony>
esprima-fb@15001.1001.0-dev-harmony-fb
URL: <http://github.com/facebook/esprima.git>
VendorName: Ariya Hidayat
VendorUrl: <https://github.com/facebook/esprima/tree/fb-harmony>

json-schema@0.2.3
URL: <http://github.com/kriszyp/json-schema>
VendorName: Kris Zyp

CC-BY-3.0
spdx-exceptions@2.2.0
URL: <https://github.com/kemitchell/spdx-exceptions.json.git>
VendorName: The Linux Foundation

CC0-1.0
spdx-license-ids@3.0.5
URL: <https://github.com/shinnn/spdx-license-ids.git>
VendorName: Shinnosuke Watanabe
VendorUrl: <https://github.com/shinnn>

ISC
abbrev@1.0.9
URL: <http://github.com/isaacs/abbrev-js>
VendorName: Isaac Z. Schlueter
abbrev@1.1.1
URL: <http://github.com/isaacs/abbrev-js>

VendorName: Isaac Z. Schlueter
anymatch@1.3.2
URL: <https://github.com/es128/anymatch>
VendorName: Elan Shanker
VendorUrl: <https://github.com/es128/anymatch>
aproba@1.2.0
URL: <https://github.com/iarna/aproba>
VendorName: Rebecca Turner
VendorUrl: <https://github.com/iarna/aproba>
are-we-there-yet@1.0.6
URL: <https://github.com/iarna/are-we-there-yet.git>
VendorName: Rebecca Turner
VendorUrl: <https://github.com/iarna/are-we-there-yet>
are-we-there-yet@1.1.5
URL: <https://github.com/iarna/are-we-there-yet.git>
VendorName: Rebecca Turner
VendorUrl: <https://github.com/iarna/are-we-there-yet>
async-some@1.0.2
URL: <https://github.com/othiym23/async-some.git>
VendorName: Forrest L Norvell
VendorUrl: <https://github.com/othiym23/async-some>
block-stream@0.0.8
URL: <git://github.com/isaacs/block-stream.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>
block-stream@0.0.9
URL: <git://github.com/isaacs/block-stream.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>
broccoli-viz@2.0.1
URL: <https://github.com/stefanpenner/broccoli-viz.git>
VendorName: Stefan Penner
VendorUrl: <https://github.com/stefanpenner/broccoli-viz>
char-spinner@1.0.1
URL: <git://github.com/isaacs/char-spinner>
VendorName: Isaac Z. Schlueter
VendorUrl: <https://github.com/isaacs/char-spinner>
chmodr@1.0.2
URL: <git://github.com/isaacs/chmodr.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>
chownr@1.0.1
URL: <git://github.com/isaacs/chownr.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>
chownr@1.1.3
URL: <git://github.com/isaacs/chownr.git>
VendorName: Isaac Z. Schlueter

VendorUrl: <http://blog.izs.me/>
clean-base-url@1.0.0
URL: <git+ssh://git@github.com/stefanpenner/clean-base-url.git>
VendorName: Stefan Penner
VendorUrl: <https://github.com/stefanpenner/clean-base-url#readme>
cliui@2.1.0
URL: <http://github.com/bcoe/cliui.git>
VendorName: Ben Coe
cliui@3.2.0
URL: <http://github.com/yargs/cliui.git>
VendorName: Ben Coe
console-control-strings@1.1.0
URL: <https://github.com/iarna/console-control-strings>
VendorName: Rebecca Turner
VendorUrl: <http://re-becca.org/>
d@1.0.1
URL: <git://github.com/medikoo/d.git>
VendorName: Mariusz Nowak
VendorUrl: <http://www.medikoo.com/>
dezalgo@1.0.3
URL: <https://github.com/npm/dezalgo>
VendorName: Isaac Z. Schlueter
VendorUrl: <https://github.com/npm/dezalgo>
ember-cli-get-dependency-depth@1.0.0
URL: <git+https://github.com/ember-cli/get-dependency-depth.git>
VendorName: ember-cli Contributors
VendorUrl: <https://github.com/ember-cli/get-dependency-depth#readme>
ember-cli-is-package-missing@1.0.0
URL: <git+https://github.com/ember-cli/ember-cli.git>
VendorName: ember-cli contributors
VendorUrl: <https://github.com/ember-cli/ember-cli#readme>
ember-cli-normalize-entity-name@1.0.0
URL: <git+https://github.com/ember-cli/ember-cli.git>
VendorName: ember-cli contributors
VendorUrl: <https://github.com/ember-cli/ember-cli#readme>
ember-cli-path-utils@1.0.0
URL: <git+https://github.com/ember-cli/ember-cli-path-utils.git>
VendorName: ember-cli contributors
VendorUrl: <https://github.com/ember-cli/ember-cli-path-utils#readme>
ember-cli-preprocess-registry@1.1.0
URL: <git+https://github.com/ember-cli/ember-cli-preprocessor-registry.git>
VendorName: ember-cli Contributors
VendorUrl: <https://github.com/ember-cli/ember-cli-preprocessor-registry#readme>
ember-cli-string-utils@1.1.0
URL: <git+https://github.com/ember-cli/ember-cli-string-utils.git>
VendorName: ember-cli contributors
VendorUrl: <https://github.com/ember-cli/ember-cli-string-utils#readme>
ember-cli-test-info@1.0.0

URL: [git+https://github.com/ember-cli/ember-cli-test-info.git](https://github.com/ember-cli/ember-cli-test-info.git)
VendorName: ember-cli contributors
VendorUrl: <https://github.com/ember-cli/ember-cli-test-info#readme>

ensure-posix-path@1.1.1
URL: [git+https://github.com/stefanpenner/ensure-posix-path.git](https://github.com/stefanpenner/ensure-posix-path.git)
VendorName: Stefan Penner
VendorUrl: <https://github.com/stefanpenner/ensure-posix-path#readme>

es5-ext@0.10.53
URL: <https://github.com/medikoo/es5-ext.git>
VendorName: Mariusz Nowak
VendorUrl: <http://www.medikoo.com/>

es6-symbol@3.1.3
URL: [git://github.com/medikoo/es6-symbol.git](https://github.com/medikoo/es6-symbol.git)
VendorName: Mariusz Nowak
VendorUrl: <http://www.medikoo.com/>

events-to-array@1.1.2
URL: <https://github.com/isaacs/events-to-array>
VendorName: Isaac Z. Schlueter
VendorUrl: <https://github.com/isaacs/events-to-array>

exists-sync@0.0.3
URL: [git+https://github.com/ember-cli/exists-sync.git](https://github.com/ember-cli/exists-sync.git)
VendorName: Jake Bixby
VendorUrl: <https://github.com/ember-cli/exists-sync#readme>

exists-sync@0.0.4
URL: [git+https://github.com/ember-cli/exists-sync.git](https://github.com/ember-cli/exists-sync.git)
VendorName: Jake Bixby
VendorUrl: <https://github.com/ember-cli/exists-sync#readme>

ext@1.4.0
URL: <https://github.com/medikoo/es5-ext/tree/ext>
VendorName: Mariusz Nowak
VendorUrl: <http://www.medikoo.com/>

fast-ordered-set@1.0.3

fs-monitor-stack@1.1.1
URL: [git+https://github.com/stefanpenner/fs-monitor-stack.git](https://github.com/stefanpenner/fs-monitor-stack.git)
VendorName: Stefan Penner
VendorUrl: <https://github.com/stefanpenner/fs-monitor-stack#readme>

fs-vacuum@1.2.10
URL: <https://github.com/npm/fs-vacuum.git>
VendorName: Forrest L Norvell
VendorUrl: <https://github.com/npm/fs-vacuum>

fs-write-stream-atomic@1.0.10
URL: <https://github.com/npm/fs-write-stream-atomic>
VendorName: Isaac Z. Schlueter
VendorUrl: <https://github.com/npm/fs-write-stream-atomic>

fs.realpath@1.0.0
URL: [git+https://github.com/isaacs/fs.realpath.git](https://github.com/isaacs/fs.realpath.git)
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

fstream-ignore@1.0.5
URL: [git://github.com/isaacs/fstream-ignore.git](https://github.com/isaacs/fstream-ignore.git)
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

fstream-npm@1.0.7
URL: <https://github.com/npm/fstream-npm.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

fstream@1.0.12
URL: <https://github.com/npm/fstream.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

gauge@1.2.7
URL: <https://github.com/iarna/gauge>
VendorName: Rebecca Turner
VendorUrl: <https://github.com/iarna/gauge>

gauge@2.7.4
URL: <https://github.com/iarna/gauge>
VendorName: Rebecca Turner
VendorUrl: <https://github.com/iarna/gauge>

get-caller-file@1.0.3
URL: [git+https://github.com/stefanpenner/get-caller-file.git](https://github.com/stefanpenner/get-caller-file.git)
VendorName: Stefan Penner
VendorUrl: <https://github.com/stefanpenner/get-caller-file#readme>

glob-parent@2.0.0
URL: <https://github.com/es128/glob-parent>
VendorName: Elan Shanker
VendorUrl: <https://github.com/es128/glob-parent>

glob@4.3.5
URL: [git://github.com/isaacs/node-glob.git](https://github.com/isaacs/node-glob.git)
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

glob@4.5.3
URL: [git://github.com/isaacs/node-glob.git](https://github.com/isaacs/node-glob.git)
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

glob@5.0.13
URL: [git://github.com/isaacs/node-glob.git](https://github.com/isaacs/node-glob.git)
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

glob@5.0.15
URL: [git://github.com/isaacs/node-glob.git](https://github.com/isaacs/node-glob.git)
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

glob@6.0.4
URL: [git://github.com/isaacs/node-glob.git](https://github.com/isaacs/node-glob.git)
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

glob@7.1.6
URL: [git://github.com/isaacs/node-glob.git](https://github.com/isaacs/node-glob.git)
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

graceful-fs@3.0.12
URL: [git://github.com/isaacs/node-graceful-fs.git](https://github.com/isaacs/node-graceful-fs.git)
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me>

graceful-fs@4.1.15
URL: <https://github.com/isaacs/node-graceful-fs>

graceful-fs@4.2.3
URL: <https://github.com/isaacs/node-graceful-fs>

har-schema@1.0.5
URL: <https://github.com/ahmadnassri/har-schema.git>
VendorName: Ahmad Nassri
VendorUrl: <https://github.com/ahmadnassri/har-schema>

har-schema@2.0.0
URL: <https://github.com/ahmadnassri/har-schema.git>
VendorName: Ahmad Nassri
VendorUrl: <https://github.com/ahmadnassri/har-schema>

har-validator@2.0.6
URL: <https://github.com/ahmadnassri/har-validator.git>
VendorName: Ahmad Nassri
VendorUrl: <https://github.com/ahmadnassri/har-validator>

har-validator@4.2.1
URL: <https://github.com/ahmadnassri/har-validator.git>
VendorName: Ahmad Nassri
VendorUrl: <https://github.com/ahmadnassri/har-validator>

has-binary-data@0.1.3
VendorName: Kevin Roark

has-unicode@2.0.1
URL: <https://github.com/iarna/has-unicode>
VendorName: Rebecca Turner
VendorUrl: <https://github.com/iarna/has-unicode>

hash-for-dep@1.5.1
URL: [git+https://github.com/stefanpenner/hash-for-dep.git](https://github.com/stefanpenner/hash-for-dep.git)
VendorName: Stefan Penner
VendorUrl: <https://github.com/stefanpenner/hash-for-dep#readme>

hosted-git-info@2.1.5
URL: [git+https://github.com/npm/hosted-git-info.git](https://github.com/npm/hosted-git-info.git)
VendorName: Rebecca Turner
VendorUrl: <https://github.com/npm/hosted-git-info>

hosted-git-info@2.8.5
URL: [git+https://github.com/npm/hosted-git-info.git](https://github.com/npm/hosted-git-info.git)
VendorName: Rebecca Turner
VendorUrl: <https://github.com/npm/hosted-git-info>

in-publish@2.0.0
URL: <https://github.com/iarna/in-publish>

VendorName: Rebecca Turner
VendorUrl: <https://github.com/iarna/in-publish>
inflight@1.0.6
URL: <https://github.com/npm/inflight.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <https://github.com/isaacs/inflight>
inherits@2.0.3
URL: <git://github.com/isaacs/inherits>
inherits@2.0.4
URL: <git://github.com/isaacs/inherits>
ini@1.3.5
URL: <git://github.com/isaacs/ini.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>
init-package-json@1.9.6
URL: <https://github.com/npm/init-package-json.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>
isexe@2.0.0
URL: <git+https://github.com/isaacs/isexe.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <https://github.com/isaacs/isexe#readme>
json-stringify-safe@5.0.1
URL: <git://github.com/isaacs/json-stringify-safe>
VendorName: Isaac Z. Schlueter
VendorUrl: <https://github.com/isaacs/json-stringify-safe>
lockfile@1.0.4
URL: <https://github.com/npm/lockfile.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>
lru-cache@2.7.3
URL: <git://github.com/isaacs/node-lru-cache.git>
VendorName: Isaac Z. Schlueter
lru-cache@4.1.5
URL: <git://github.com/isaacs/node-lru-cache.git>
VendorName: Isaac Z. Schlueter
matcher-collection@1.1.2
URL: <git+https://github.com/stefanpenner/matcher-collection.git>
VendorName: Stefan Penner
VendorUrl: <https://github.com/stefanpenner/matcher-collection#readme>
minimatch@2.0.10
URL: <git://github.com/isaacs/minimatch.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me>
minimatch@3.0.4
URL: <git://github.com/isaacs/minimatch.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me>

mute-stream@0.0.8
URL: [git://github.com/isaacs/mute-stream](https://github.com/isaacs/mute-stream)
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

natives@1.1.6
URL: [git+https://github.com/addaleax/natives.git](https://github.com/addaleax/natives.git)
VendorName: Isaac Z. Schlueter
VendorUrl: <https://github.com/addaleax/natives#readme>

node-modules-path@1.0.2
URL: [git+https://github.com/ember-cli/node-modules-path.git](https://github.com/ember-cli/node-modules-path.git)
VendorName: Stefan Penner
VendorUrl: <https://github.com/ember-cli/node-modules-path#readme>

nopt@3.0.6
URL: <https://github.com/npm/nopt.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

normalize-git-url@3.0.2
URL: <https://github.com/npm/normalize-git-url.git>
VendorName: Forrest L Norvell
VendorUrl: <https://github.com/npm/normalize-git-url>

npm-cache-filename@1.0.2
URL: [git://github.com/npm/npm-cache-filename](https://github.com/npm/npm-cache-filename)
VendorName: Isaac Z. Schlueter
VendorUrl: <https://github.com/npm/npm-cache-filename>

npm-normalize-package-bin@1.0.1
URL: [git+https://github.com/npm/npm-normalize-package-bin](https://github.com/npm/npm-normalize-package-bin)
VendorName: Isaac Z. Schlueter
VendorUrl: <https://izs.me>

npm-package-arg@4.0.2
URL: <https://github.com/npm/npm-package-arg>
VendorName: Isaac Z. Schlueter
VendorUrl: <https://github.com/npm/npm-package-arg>

npm-package-arg@4.2.1
URL: <https://github.com/npm/npm-package-arg>
VendorName: Isaac Z. Schlueter
VendorUrl: <https://github.com/npm/npm-package-arg>

npm-package-arg@5.1.2
URL: <https://github.com/npm/npm-package-arg>
VendorName: Isaac Z. Schlueter
VendorUrl: <https://github.com/npm/npm-package-arg>

npm-registry-client@7.0.9
URL: <https://github.com/npm/npm-registry-client.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

npmlog@1.2.1
URL: [git://github.com/isaacs/npmlog.git](https://github.com/isaacs/npmlog.git)
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

npmlog@2.0.4
URL: <https://github.com/npm/npmlog.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

npmlog@4.1.2
URL: <https://github.com/npm/npmlog.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

once@1.3.3
URL: <git://github.com/isaacs/once>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

once@1.4.0
URL: <git://github.com/isaacs/once>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

osenv@0.1.5
URL: <https://github.com/npm/osenv>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

path-posix@1.0.0
URL: <git@github.com:jden/node-path-posix.git>
VendorName: jden

pleasant-progress@1.1.0
URL: <https://github.com/stefanpenner/pleasant-progress.git>
VendorName: Stefan Penner
VendorUrl: <https://github.com/stefanpenner/pleasant-progress>

process-relative-require@1.0.0
URL: <git+https://github.com/ember-cli/process-relative-require.git>
VendorName: Stefan Penner
VendorUrl: <https://github.com/ember-cli/process-relative-require#readme>

promzard@0.3.0
URL: <git://github.com/isaacs/promzard>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

proto-list@1.2.4
URL: <https://github.com/isaacs/proto-list>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

pseudomap@1.0.2
URL: <git+https://github.com/isaacs/pseudomap.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <https://github.com/isaacs/pseudomap#readme>

read-installed@4.0.3
URL: <git://github.com/isaacs/read-installed>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

read-package-json@2.0.13

URL: <https://github.com/npm/read-package-json.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>
read-package-json@2.1.1
URL: <https://github.com/npm/read-package-json.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>
read@1.0.7
URL: <git://github.com/isaacs/read.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>
readdir-scoped-modules@1.1.0
URL: <https://github.com/npm/readdir-scoped-modules>
VendorName: Isaac Z. Schlueter
VendorUrl: <https://github.com/npm/readdir-scoped-modules>
realize-package-specifier@3.0.3
URL: <https://github.com/npm/realize-package-specifier.git>
VendorName: Rebecca Turner
VendorUrl: <https://github.com/npm/realize-package-specifier>
remove-trailing-separator@1.1.0
URL: <git+https://github.com/darsain/remove-trailing-separator.git>
VendorName: darsain
VendorUrl: <https://github.com/darsain/remove-trailing-separator#readme>
require-main-filename@1.0.1
URL: <git+ssh://git@github.com/yargs/require-main-filename.git>
VendorName: Ben Coe
VendorUrl: <https://github.com/yargs/require-main-filename#readme>
rimraf@2.4.5
URL: <git://github.com/isaacs/rimraf.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>
rimraf@2.7.1
URL: <git://github.com/isaacs/rimraf.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>
semver@4.3.6
URL: <git://github.com/npm/node-semver.git>
semver@5.0.3
URL: <https://github.com/npm/node-semver>
semver@5.3.0
URL: <https://github.com/npm/node-semver>
semver@5.7.1
URL: <https://github.com/npm/node-semver>
set-blocking@2.0.0
URL: <git+https://github.com/yargs/set-blocking.git>
VendorName: Ben Coe
VendorUrl: <https://github.com/yargs/set-blocking#readme>
setprototypeof@1.1.1

URL: <https://github.com/wesleytodd/setprototypeof.git>
VendorName: Wes Todd
VendorUrl: <https://github.com/wesleytodd/setprototypeof>
sigmund@1.0.1
URL: <git://github.com/isaacs/sigmund>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>
signal-exit@3.0.2
URL: <https://github.com/tapjs/signal-exit.git>
VendorName: Ben Coe
VendorUrl: <https://github.com/tapjs/signal-exit>
silent-error@1.1.1
URL: <git+https://github.com/stefanpenner/silent-error.git>
VendorName: Stefan Penner
VendorUrl: <https://github.com/stefanpenner/silent-error#readme>
slide@1.1.6
URL: <git://github.com/isaacs/slide-flow-control.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>
tar@2.2.2
URL: <git://github.com/isaacs/node-tar.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>
timers-ext@0.1.7
URL: <git://github.com/medikoo/timers-ext.git>
VendorName: Mariusz Nowak
VendorUrl: <http://www.medikoo.com/>
tree-sync@1.4.0
URL: <https://github.com/stefanpenner/tree-sync/>
VendorName: Stefan Penner
type@1.2.0
URL: <https://github.com/medikoo/type.git>
VendorName: Mariusz Nowak
VendorUrl: <https://www.medikoo.com/>
type@2.0.0
URL: <https://github.com/medikoo/type.git>
VendorName: Mariusz Nowak
VendorUrl: <https://www.medikoo.com/>
uid-number@0.0.6
URL: <git://github.com/isaacs/uid-number.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>
validate-npm-package-name@2.2.2
URL: <https://github.com/npm/validate-npm-package-name>
VendorName: zeke
VendorUrl: <https://github.com/npm/validate-npm-package-name>
validate-npm-package-name@3.0.0
URL: <https://github.com/npm/validate-npm-package-name>

VendorName: zeke
VendorUrl: <https://github.com/npm/validate-npm-package-name>
which-module@1.0.0
URL: <git+https://github.com/nexdrew/which-module.git>
VendorName: nexdrew
VendorUrl: <https://github.com/nexdrew/which-module#readme>
which@1.2.14
URL: <git://github.com/isaacs/node-which.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me>
which@1.3.1
URL: <git://github.com/isaacs/node-which.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me>
wide-align@1.1.3
URL: <https://github.com/iarna/wide-align>
VendorName: Rebecca Turner
VendorUrl: <http://re-becca.org/>
wrappy@1.0.2
URL: <https://github.com/npm/wrappy>
VendorName: Isaac Z. Schlueter
VendorUrl: <https://github.com/npm/wrappy>
write-file-atomic@1.1.4
URL: <git@github.com:iarna/write-file-atomic.git>
VendorName: Rebecca Turner
VendorUrl: <https://github.com/iarna/write-file-atomic>
write-file-atomic@1.3.4
URL: <git@github.com:iarna/write-file-atomic.git>
VendorName: Rebecca Turner
VendorUrl: <https://github.com/iarna/write-file-atomic>
y18n@3.2.2
URL: <git@github.com:yargs/y18n.git>
VendorName: Ben Coe
VendorUrl: <https://github.com/yargs/y18n>
yallist@2.1.2
URL: <git+https://github.com/isaacs/yallist.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>
yargs-parser@5.0.0
URL: <git@github.com:yargs/yargs-parser.git>
VendorName: Ben Coe

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@sailshq/lodash@3.10.4
URL: <git://github.com/treelinehq/lodash.git>
VendorName: Mike McNeil
accepts@1.3.7
URL: <https://github.com/jshttp/accepts.git>
acorn@5.7.3

URL: <https://github.com/acornjs/acorn.git>
VendorUrl: <https://github.com/acornjs/acorn>
ajv@4.11.8
URL: <https://github.com/epoberezkin/ajv.git>
VendorName: Evgeny Poberezkin
VendorUrl: <https://github.com/epoberezkin/ajv>
ajv@6.10.2
URL: <https://github.com/epoberezkin/ajv.git>
VendorName: Evgeny Poberezkin
VendorUrl: <https://github.com/epoberezkin/ajv>
align-text@0.1.4
URL: <git://github.com/jonschlinkert/align-text.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/align-text>
alter@0.2.0
URL: <https://github.com/olov/alter.git>
VendorName: Olov Lassus
amd-name-resolver@0.0.2
VendorName: Ember CLI contributors
ansi-regex@0.2.1
URL: <https://github.com/sindresorhus/ansi-regex.git>
VendorName: Sindre Sorhus
VendorUrl: <http://sindresorhus.com>
ansi-regex@1.1.1
URL: <https://github.com/sindresorhus/ansi-regex.git>
VendorName: Sindre Sorhus
VendorUrl: <http://sindresorhus.com>
ansi-regex@2.1.1
URL: <https://github.com/chalk/ansi-regex.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
ansi-regex@3.0.0
URL: <https://github.com/chalk/ansi-regex.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
ansi-styles@1.0.0
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VendorUrl: <https://github.com/sindresorhus/ansi-styles>
ansi-styles@1.1.0
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VendorName: Sindre Sorhus
VendorUrl: <http://sindresorhus.com>
ansi-styles@2.2.1
URL: <https://github.com/chalk/ansi-styles.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
ansi-styles@3.2.1

URL: <https://github.com/chalk/ansi-styles.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
ansi@0.3.1
URL: [git://github.com/TooTallNate/ansi.js.git](https://github.com/TooTallNate/ansi.js.git)
VendorName: Nathan Rajlich
VendorUrl: <http://tootallnate.net>
ansicolors@0.2.1
URL: [git://github.com/thlorenz/ansicolors.git](https://github.com/thlorenz/ansicolors.git)
VendorName: Thorsten Lorenz
VendorUrl: thlorenz.com
ansicolors@0.3.2
URL: [git://github.com/thlorenz/ansicolors.git](https://github.com/thlorenz/ansicolors.git)
VendorName: Thorsten Lorenz
VendorUrl: thlorenz.com
ansistyles@0.1.3
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VendorName: Thorsten Lorenz
VendorUrl: thlorenz.com
archy@1.0.0
URL: [http://github.com/substack/node-archy.git](https://github.com/substack/node-archy.git)
VendorName: James Halliday
VendorUrl: <http://substack.net>
argparse@1.0.10
URL: <https://github.com/nodeca/argparse.git>
arr-diff@2.0.0
URL: <https://github.com/jonschlinkert/arr-diff.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/arr-diff>
arr-flatten@1.1.0
URL: <https://github.com/jonschlinkert/arr-flatten.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/arr-flatten>
array-equal@1.0.0
URL: <https://github.com/component/array-equal.git>
VendorName: Jonathan Ong
VendorUrl: <http://jongleberry.com>
array-find-index@1.0.2
URL: <https://github.com/sindresorhus/array-find-index.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
array-flatten@1.1.1
URL: [git://github.com/blakeembrey/array-flatten.git](https://github.com/blakeembrey/array-flatten.git)
VendorName: Blake Embrey
VendorUrl: <https://github.com/blakeembrey/array-flatten>
array-index@1.0.0
URL: [git://github.com/TooTallNate/array-index.git](https://github.com/TooTallNate/array-index.git)
VendorName: Nathan Rajlich

VendorUrl: <http://tootallnate.net>
array-unique@0.2.1
URL: <git://github.com/jonschlinkert/array-unique.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/array-unique>
arraybuffer.slice@0.0.6
URL: <git@github.com:rase-/arraybuffer.slice.git>
VendorUrl: <https://github.com/rase-/arraybuffer.slice>
asap@2.0.6
URL: <https://github.com/krisKowal/asap.git>
asn1@0.1.11
URL: <git://github.com/mcavage/node-asn1.git>
VendorName: Mark Cavage
asn1@0.2.4
URL: <git://github.com/joyent/node-asn1.git>
VendorName: Joyent
VendorUrl: joyent.com
assert-plus@0.2.0
URL: <https://github.com/mcavage/node-assert-plus.git>
VendorName: Mark Cavage
assert-plus@1.0.0
URL: <https://github.com/mcavage/node-assert-plus.git>
VendorName: Mark Cavage
ast-traverse@0.1.1
URL: <https://github.com/olov/ast-traverse.git>
VendorName: Olov Lassus
ast-types@0.8.12
URL: <git://github.com/benjamn/ast-types.git>
VendorName: Ben Newman
VendorUrl: <http://github.com/benjamn/ast-types>
ast-types@0.8.15
URL: <git://github.com/benjamn/ast-types.git>
VendorName: Ben Newman
VendorUrl: <http://github.com/benjamn/ast-types>
ast-types@0.9.6
URL: <git://github.com/benjamn/ast-types.git>
VendorName: Ben Newman
VendorUrl: <http://github.com/benjamn/ast-types>
async-disk-cache@1.3.5
URL: <https://github.com/stefanpenner/async-disk-cache.git>
VendorName: Stefan Penner
async-promise-queue@1.0.5
URL: <https://github.com/stefanpenner/async-promise-queue>
VendorName: Stefan Penner
async@0.2.10
URL: <https://github.com/caolan/async.git>
VendorName: Caolan McMahon
async@0.8.0

URL: <https://github.com/caolan/async.git>
VendorName: Caolan McMahon
async@0.9.0
URL: <https://github.com/caolan/async.git>
VendorName: Caolan McMahon
async@1.5.2
URL: <https://github.com/caolan/async.git>
VendorName: Caolan McMahon
async@2.6.3
URL: <https://github.com/caolan/async.git>
VendorName: Caolan McMahon
VendorUrl: <https://caolan.github.io/async/>
asynckit@0.4.0
URL: <git+https://github.com/alexindigo/asynckit.git>
VendorName: Alex Indigo
VendorUrl: <https://github.com/alexindigo/asynckit#readme>
aws4@1.9.0
URL: <https://github.com/mhart/aws4.git>
VendorName: Michael Hart
VendorUrl: <http://github.com/mhart>
babel-core@5.8.38
URL: <https://github.com/babel/babel.git>
VendorName: Sebastian McKenzie
VendorUrl: <https://babeljs.io/>
babel-plugin-constant-folding@1.0.1
URL: <https://github.com/babel-plugins/babel-plugin-constant-folding.git>
babel-plugin-dead-code-elimination@1.0.2
URL: <https://github.com/babel-plugins/babel-plugin-dead-code-elimination.git>
babel-plugin-eval@1.0.1
URL: <https://github.com/babel-plugins/babel-plugin-eval.git>
babel-plugin-htmlbars-inline-precompile@0.0.5
URL: <https://github.com/pangratz/babel-plugin-htmlbars-inline-precompile>
VendorName: Clemens Miller
babel-plugin-inline-environment-variables@1.0.1
URL: <https://github.com/babel-plugins/babel-plugin-inline-environment-variables.git>
babel-plugin-jscrypt@1.0.4
URL: <https://github.com/babel-plugins/babel-plugin-jscrypt.git>
babel-plugin-member-expression-literals@1.0.1
URL: <https://github.com/babel-plugins/babel-plugin-member-expression-literals.git>
babel-plugin-property-literals@1.0.1
URL: <https://github.com/babel-plugins/babel-plugin-property-literals.git>
babel-plugin-proto-to-assign@1.0.4
URL: <https://github.com/babel-plugins/babel-plugin-proto-to-assign.git>
babel-plugin-react-constant-elements@1.0.3
URL: <https://github.com/babel-plugins/babel-plugin-react-constant-elements.git>
babel-plugin-react-display-name@1.0.3
URL: <https://github.com/babel-plugins/babel-plugin-react-display-name.git>
babel-plugin-remove-console@1.0.1

URL: <https://github.com/babel-plugins/babel-plugin-remove-console.git>
babel-plugin-remove-debugger@1.0.1
URL: <https://github.com/babel-plugins/babel-plugin-remove-debugger.git>
babel-plugin-runtime@1.0.7
URL: <https://github.com/babel-plugins/babel-plugin-runtime.git>
babel-plugin-undeclared-variables-check@1.0.2
URL: <https://github.com/babel-plugins/babel-plugin-undeclared-variables-check.git>
babel-plugin-undefined-to-void@1.1.6
URL: <https://github.com/babel-plugins/babel-plugin-undefined-to-void.git>
babylon@5.8.38
URL: <https://github.com/babel/babel.git>
VendorName: Sebastian McKenzie
VendorUrl: <https://babeljs.io/>
backbone@1.4.0
URL: <https://github.com/jashkenas/backbone.git>
VendorName: Jeremy Ashkenas
backo2@1.0.2
URL: <https://github.com/mokesmokes/backo.git>
balanced-match@1.0.0
URL: <git://github.com/juliangruber/balanced-match.git>
VendorName: Julian Gruber
VendorUrl: <https://github.com/juliangruber/balanced-match>
base64-arraybuffer@0.1.2
URL: <https://github.com/niklasvh/base64-arraybuffer>
VendorName: Niklas von Herten
VendorUrl: <https://github.com/niklasvh/base64-arraybuffer>
basic-auth@2.0.1
URL: <https://github.com/jshttp/basic-auth.git>
benchmark@1.0.0
URL: <https://github.com/bestiejs/benchmark.js.git>
VendorName: Mathias Bynens
VendorUrl: <http://benchmarkjs.com/>
better-assert@1.0.2
URL: <https://github.com/visionmedia/better-assert.git>
VendorName: TJ Holowaychuk
binaryextensions@2.2.0
URL: <https://github.com/bevry/binaryextensions.git>
VendorName: 2013+ Bevry Pty Ltd
VendorUrl: <https://github.com/bevry/binaryextensions>
bl@1.0.3
URL: <https://github.com/rvagg/bl.git>
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bl@1.1.2
URL: <https://github.com/rvagg/bl.git>
VendorUrl: <https://github.com/rvagg/bl>
blank-object@1.0.2
URL: <git+https://github.com/stefanpenner/blank-object.git>
VendorName: Stefan Penner

VendorUrl: <https://github.com/stefanpenner/blank-object#readme>
bluebird@2.11.0
URL: <git://github.com/petkaantonov/bluebird.git>
VendorName: Petka Antonov
VendorUrl: <https://github.com/petkaantonov/bluebird>
body-parser@1.14.2
URL: <https://github.com/expressjs/body-parser.git>
body-parser@1.19.0
URL: <https://github.com/expressjs/body-parser.git>
bower-config@0.6.1
URL: <git://github.com/bower/config.git>
VendorName: Twitter
VendorUrl: <http://bower.io/>
bower-endpoint-parser@0.2.2
URL: <git://github.com/bower/endpoint-parser.git>
VendorName: Twitter
bower-shrinkwrap-resolver-ext@0.1.0
URL: <https://github.com/sreenaths/bower-shrinkwrap-resolver-ext>
bower@1.8.8
URL: <https://github.com/bower/bower.git>
VendorName: Twitter
VendorUrl: <http://bower.io/>
brace-expansion@1.1.11
URL: <git://github.com/juliangruber/brace-expansion.git>
VendorName: Julian Gruber
VendorUrl: <https://github.com/juliangruber/brace-expansion>
braces@1.8.5
URL: <https://github.com/jonschlinkert/braces.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/braces>
breakable@1.0.0
URL: <https://github.com/olov/breakable.git>
VendorName: Olov Lassus
broccoli-asset-rev@2.4.2
URL: <git://github.com/rickharrison/broccoli-asset-rev>
VendorName: Rick Harrison
VendorUrl: <https://github.com/rickharrison/broccoli-asset-rev>
broccoli-asset-rewrite@1.1.0
URL: <git://github.com/rickharrison/broccoli-asset-rewrite>
VendorName: Rick Harrison
VendorUrl: <https://github.com/rickharrison/broccoli-asset-rewrite>
broccoli-babel-transpiler@5.7.4
URL: <https://github.com/babel/broccoli-babel-transpiler.git>
VendorName: nightire
VendorUrl: <https://github.com/babel/broccoli-babel-transpiler>
broccoli-caching-writer@2.3.1
URL: <https://github.com/ember-cli/broccoli-caching-writer.git>
VendorName: Robert Jackson

broccoli-caching-writer@3.0.3
URL: <https://github.com/ember-cli/broccoli-caching-writer.git>
VendorName: Robert Jackson

broccoli-clean-css@0.2.0
URL: <https://github.com/shinnn/broccoli-clean-css>
VendorName: Shinnosuke Watanabe
VendorUrl: <https://github.com/shinnn/broccoli-clean-css>

broccoli-config-loader@1.0.1
URL: <git+https://github.com/ember-cli/broccoli-config-loader.git>
VendorName: yaymukund
VendorUrl: <https://github.com/ember-cli/broccoli-config-loader#readme>

broccoli-config-replace@1.1.2
URL: <https://github.com/ember-cli/broccoli-config-replace>
VendorName: yaymukund
VendorUrl: <https://github.com/ember-cli/broccoli-config-replace#readme>

broccoli-debug@0.6.5
URL: <https://github.com/broccolijs/broccoli-debug.git>
VendorName: Robert Jackson
VendorUrl: [http:](http://)

broccoli-filter@0.1.14
URL: <https://github.com/broccolijs/broccoli-filter>
VendorName: Jo Liss

broccoli-filter@1.3.0
URL: <https://github.com/broccolijs/broccoli-filter>

broccoli-funnel@1.0.1
URL: <https://github.com/broccolijs/broccoli-funnel.git>
VendorName: Robert Jackson

broccoli-funnel@1.2.0
URL: <https://github.com/broccolijs/broccoli-funnel.git>
VendorName: Robert Jackson

broccoli-funnel@2.0.2
URL: <https://github.com/broccolijs/broccoli-funnel.git>
VendorName: Robert Jackson

broccoli-jshint@1.2.0
URL: <https://github.com/rwjblue/broccoli-jshint.git>
VendorName: Robert Jackson

broccoli-kitchen-sink-helpers@0.2.9
URL: <https://github.com/broccolijs/broccoli-kitchen-sink-helpers>
VendorName: Jo Liss

broccoli-kitchen-sink-helpers@0.3.1
URL: <https://github.com/broccolijs/broccoli-kitchen-sink-helpers>
VendorName: Jo Liss

broccoli-less-single@0.6.4
URL: <https://github.com/gabrielgrant/broccoli-less-single>
VendorName: Gabriel Grant
VendorUrl: <https://github.com/gabrielgrant/broccoli-less-single>

broccoli-merge-trees@1.1.1
URL: <https://github.com/broccolijs/broccoli-merge-trees>

VendorName: Jo Liss
broccoli-merge-trees@1.2.4
URL: <https://github.com/broccolijs/broccoli-merge-trees>
VendorName: Jo Liss
broccoli-merge-trees@2.0.1
URL: <https://github.com/broccolijs/broccoli-merge-trees>
VendorName: Jo Liss
broccoli-persistent-filter@1.4.6
URL: [git+https://github.com/stefanpenner/broccoli-persistent-filter.git](https://github.com/stefanpenner/broccoli-persistent-filter.git)
VendorName: Stefan Penner
VendorUrl: <https://github.com/stefanpenner/broccoli-persistent-filter#readme>
broccoli-plugin@1.1.0
URL: <https://github.com/broccolijs/broccoli-plugin>
VendorName: Jo Liss
broccoli-plugin@1.3.1
URL: <https://github.com/broccolijs/broccoli-plugin>
VendorName: Jo Liss
broccoli-sane-watcher@1.1.5
URL: <https://github.com/broccolijs/broccoli-sane-watcher.git>
VendorName: Kris Selden
VendorUrl: <https://github.com/broccolijs/broccoli-sane-watcher>
broccoli-sass-source-maps@2.2.0
URL: <https://github.com/aexmachina/broccoli-sass-source-maps>
VendorName: Jo Liss
broccoli-slow-trees@1.1.0
URL: <https://github.com/rwjblue/broccoli-slow-trees.git>
VendorName: Robert Jackson
VendorUrl: <https://github.com/rwjblue/broccoli-slow-trees>
broccoli-source@1.1.0
URL: <https://github.com/broccolijs/broccoli-source>
VendorName: Jo Liss
broccoli-sourcemap-concat@1.1.6
URL: <https://github.com/ef4/broccoli-sourcemap-concat>
VendorName: Edward Faulkner
broccoli-sourcemap-concat@2.0.2
URL: <https://github.com/ef4/broccoli-sourcemap-concat>
VendorName: Edward Faulkner
broccoli-sri-hash@1.2.2
URL: <https://github.com/jonathanKingston/broccoli-sri-hash.git>
VendorName: Jonathan Kingston
broccoli-stew@1.6.0
URL: <https://github.com/stefanpenner/broccoli-stew.git>
VendorName: Stefan Penner & Robert Jackson
VendorUrl: <https://github.com/stefanpenner/broccoli-stew>
broccoli-uglify-sourcemap@1.5.2
URL: [git+https://github.com/ember-cli/broccoli-uglify-sourcemap.git](https://github.com/ember-cli/broccoli-uglify-sourcemap.git)
VendorName: Edward Faulkner
VendorUrl: <https://github.com/ember-cli/broccoli-uglify-sourcemap#readme>

broccoli-unwatched-tree@0.1.3
URL: <https://github.com/rjackson/broccoli-unwatched-tree.git>
VendorName: Robert Jackson

broccoli-writer@0.1.1
URL: <https://github.com/joliss/broccoli-writer>
VendorName: Jo Liss

broccoli@0.16.8
URL: <https://github.com/broccolijs/broccoli>
VendorName: Jo Liss
VendorUrl: <https://github.com/broccolijs/broccoli>

buffer-from@1.1.1
URL: <https://github.com/LinusU/buffer-from.git>

builtin-modules@1.1.1
URL: <https://github.com/sindresorhus/builtin-modules.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

builtins@0.0.7
URL: <https://github.com/juliangruber/builtins.git>

builtins@1.0.3
URL: <https://github.com/juliangruber/builtins.git>

bytes@2.2.0
URL: <https://github.com/visionmedia/bytes.js.git>
VendorName: TJ Holowaychuk
VendorUrl: <http://tjholowaychuk.com>

bytes@2.4.0
URL: <https://github.com/visionmedia/bytes.js.git>
VendorName: TJ Holowaychuk
VendorUrl: <http://tjholowaychuk.com>

bytes@3.0.0
URL: <https://github.com/visionmedia/bytes.js.git>
VendorName: TJ Holowaychuk
VendorUrl: <http://tjholowaychuk.com>

bytes@3.1.0
URL: <https://github.com/visionmedia/bytes.js.git>
VendorName: TJ Holowaychuk
VendorUrl: <http://tjholowaychuk.com>

camelcase-keys@2.1.0
URL: <https://github.com/sindresorhus/camelcase-keys.git>
VendorName: Sindre Sorhus
VendorUrl: <http://sindresorhus.com>

camelcase@1.2.1
URL: <https://github.com/sindresorhus/camelcase.git>
VendorName: Sindre Sorhus
VendorUrl: <http://sindresorhus.com>

camelcase@2.1.1
URL: <https://github.com/sindresorhus/camelcase.git>
VendorName: Sindre Sorhus
VendorUrl: <http://sindresorhus.com>

camelcase@3.0.0
URL: <https://github.com/sindresorhus/camelcase.git>
VendorName: Sindre Sorhus
VendorUrl: <http://sindresorhus.com>

can-symlink@1.0.0
URL: <https://github.com/raytiley/can-symlink>
VendorName: raytiley

cardinal@0.5.0
URL: <git://github.com/thlorenz/cardinal.git>
VendorName: Thorsten Lorenz
VendorUrl: thlorenz.com

center-align@0.1.3
URL: <https://github.com/jonschlinkert/center-align.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/center-align>

chalk@0.4.0
URL: <https://github.com/sindresorhus/chalk.git>
VendorName: Sindre Sorhus
VendorUrl: <http://sindresorhus.com>

chalk@0.5.1
URL: <https://github.com/sindresorhus/chalk.git>

chalk@1.1.0
URL: <https://github.com/chalk/chalk.git>

chalk@1.1.3
URL: <https://github.com/chalk/chalk.git>

chalk@2.4.2
URL: <https://github.com/chalk/chalk.git>

charm@1.0.2
URL: <http://github.com/substack/node-charm.git>
VendorName: James Halliday
VendorUrl: <http://substack.net>

clean-css@2.2.23
URL: <https://github.com/GoalSmashers/clean-css.git>
VendorName: Jakub Pawlowicz
VendorUrl: <https://github.com/GoalSmashers/clean-css>

cli-color@0.3.3
URL: <git://github.com/medikoo/cli-color.git>
VendorName: Mariusz Nowak
VendorUrl: <http://www.medikoo.com/>

cli-table@0.3.1
URL: <https://github.com/Automattic/cli-table.git>
VendorName: Guillermo Rauch

cli@1.0.1
URL: <http://github.com/node-js-libs/cli.git>
VendorName: Chris O'Hara
VendorUrl: <http://github.com/node-js-libs/cli>

clone@0.2.0
URL: <git://github.com/pvorb/node-clone.git>

VendorName: Paul Vorbach
VendorUrl: <http://paul.vorba.ch/>
clone@1.0.4
URL: <git://github.com/pvorb/node-clone.git>
VendorName: Paul Vorbach
VendorUrl: <http://paul.vorba.ch/>
clone@2.1.2
URL: <git://github.com/pvorb/node-clone.git>
VendorName: Paul Vorbach
VendorUrl: <http://paul.vorba.ch/>
co@4.6.0
URL: <https://github.com/tj/co.git>
code-point-at@1.1.0
URL: <https://github.com/sindresorhus/code-point-at.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
color-convert@1.9.3
URL: <https://github.com/Qix-/color-convert.git>
VendorName: Heather Arthur
color-name@1.1.3
URL: <git@github.com:dfcreative/color-name.git>
VendorName: DY
VendorUrl: <https://github.com/dfcreative/color-name>
colors@1.0.3
URL: <http://github.com/Marak/colors.js.git>
VendorName: Marak Squires
VendorUrl: <https://github.com/Marak/colors.js>
columnify@1.5.4
URL: <git://github.com/timoxley/columnify.git>
VendorName: Tim Oxley
VendorUrl: <https://github.com/timoxley/columnify>
combined-stream@1.0.8
URL: <git://github.com/felixge/node-combined-stream.git>
VendorName: Felix Geisendrfer
VendorUrl: <https://github.com/felixge/node-combined-stream>
commander@2.1.0
URL: <https://github.com/visionmedia/commander.js.git>
VendorName: TJ Holowaychuk
commander@2.2.0
URL: <https://github.com/visionmedia/commander.js.git>
VendorName: TJ Holowaychuk
commander@2.20.3
URL: <https://github.com/tj/commander.js.git>
VendorName: TJ Holowaychuk
commoner@0.10.8
URL: <git://github.com/benjamn/commoner.git>
VendorName: Ben Newman
VendorUrl: <http://github.com/benjamn/commoner>

compressible@2.0.17
URL: <https://github.com/jshttp/compressible.git>

compression@1.7.4
URL: <https://github.com/expressjs/compression.git>

concat-map@0.0.1
URL: <git://github.com/substack/node-concat-map.git>
VendorName: James Halliday
VendorUrl: <http://substack.net>

concat-stream@1.5.0
URL: <http://github.com/maxogden/concat-stream.git>
VendorName: Max Ogden

concat-stream@1.6.2
URL: <http://github.com/maxogden/concat-stream.git>
VendorName: Max Ogden

config-chain@1.1.12
URL: <https://github.com/dominictarr/config-chain.git>
VendorName: Dominic Tarr
VendorUrl: <http://github.com/dominictarr/config-chain>

connect@3.7.0
URL: <https://github.com/senchalabs/connect.git>
VendorName: TJ Holowaychuk
VendorUrl: <http://tjholowaychuk.com>

console-browserify@1.1.0
URL: <git://github.com/Raynos/console-browserify.git>
VendorName: Raynos
VendorUrl: <https://github.com/Raynos/console-browserify>

consolidate@0.13.1
URL: <https://github.com/visionmedia/consolidate.js.git>
VendorName: TJ Holowaychuk

content-disposition@0.5.3
URL: <https://github.com/jshttp/content-disposition.git>
VendorName: Douglas Christopher Wilson

content-type@1.0.4
URL: <https://github.com/jshttp/content-type.git>
VendorName: Douglas Christopher Wilson

convert-source-map@1.7.0
URL: <git://github.com/thlorenz/convert-source-map.git>
VendorName: Thorsten Lorenz
VendorUrl: <https://github.com/thlorenz/convert-source-map>

cookie-signature@1.0.6
URL: <https://github.com/visionmedia/node-cookie-signature.git>
VendorName: TJ Holowaychuk

cookie@0.4.0
URL: <https://github.com/jshttp/cookie.git>
VendorName: Roman Shtylman

copy-dereference@1.0.0
URL: <https://github.com/broccolijs/node-copy-dereference>
VendorName: Jo Liss

core-js@1.2.7
URL: <https://github.com/zloirock/core-js.git>

core-object@0.0.2
URL: https://github.com/stefanpenner/core_object.git
VendorName: Ember core team and ember cli contributors
VendorUrl: https://github.com/stefanpenner/core_object

core-util-is@1.0.2
URL: <git://github.com/isaacs/core-util-is>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

cross-spawn-async@2.2.5
URL: <git://github.com/IndigoUnited/node-cross-spawn-async.git>
VendorName: IndigoUnited
VendorUrl: <http://indigounited.com>

cross-spawn@3.0.1
URL: <git://github.com/IndigoUnited/node-cross-spawn.git>
VendorName: IndigoUnited
VendorUrl: <http://indigounited.com>

ctype@0.5.3
URL: <https://github.com/rmustacc/node-ctype.git>
VendorName: Robert Mustacchi
VendorUrl: <https://github.com/rmustacc/node-ctype>

currently-unhandled@0.4.1
URL: <https://github.com/jamestalmage/currently-unhandled.git>
VendorName: James Talmage
VendorUrl: github.com/jamestalmage

d@0.1.1
URL: <git://github.com/medikoo/d.git>
VendorName: Mariusz Nowak
VendorUrl: <http://www.medikoo.com/>

dashdash@1.14.1
URL: <git://github.com/trentm/node-dashdash.git>
VendorName: Trent Mick
VendorUrl: <http://trentm.com>

date-now@0.1.4
URL: <git://github.com/Colingo/date-now.git>
VendorName: Raynos
VendorUrl: <https://github.com/Colingo/date-now>

debug@0.7.4
URL: <git://github.com/visionmedia/debug.git>
VendorName: TJ Holowaychuk

debug@1.0.2
URL: <git://github.com/visionmedia/debug.git>
VendorName: TJ Holowaychuk

debug@1.0.3
URL: <git://github.com/visionmedia/debug.git>
VendorName: TJ Holowaychuk

debug@1.0.4

URL: [git://github.com/visionmedia/debug.git](https://github.com/visionmedia/debug.git)
VendorName: TJ Holowaychuk
debug@2.1.0
URL: [git://github.com/visionmedia/debug.git](https://github.com/visionmedia/debug.git)
VendorName: TJ Holowaychuk
debug@2.2.0
URL: [git://github.com/visionmedia/debug.git](https://github.com/visionmedia/debug.git)
VendorName: TJ Holowaychuk
debug@2.6.9
URL: [git://github.com/visionmedia/debug.git](https://github.com/visionmedia/debug.git)
VendorName: TJ Holowaychuk
debug@3.2.6
URL: [git://github.com/visionmedia/debug.git](https://github.com/visionmedia/debug.git)
VendorName: TJ Holowaychuk
debuglog@1.0.1
URL: <https://github.com/sam-github/node-debuglog.git>
VendorName: Sam Roberts
decamelize@1.2.0
URL: <https://github.com/sindresorhus/decamelize.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
defaults@1.0.3
URL: [git://github.com/tmpvar/defaults.git](https://github.com/tmpvar/defaults.git)
VendorName: Elijah Insua
defined@1.0.0
URL: [git://github.com/substack/defined.git](https://github.com/substack/defined.git)
VendorName: James Halliday
VendorUrl: <https://github.com/substack/defined>
defs@1.1.1
URL: <https://github.com/olov/defs.git>
VendorName: Olov Lassus
delayed-stream@1.0.0
URL: [git://github.com/felixge/node-delayed-stream.git](https://github.com/felixge/node-delayed-stream.git)
VendorName: Felix Geisendrfer
VendorUrl: <https://github.com/felixge/node-delayed-stream>
delegates@1.0.0
URL: <https://github.com/visionmedia/node-delegates.git>
depd@1.1.2
URL: <https://github.com/dougwilson/nodejs-depd.git>
VendorName: Douglas Christopher Wilson
destroy@1.0.4
URL: <https://github.com/stream-utils/destroy.git>
VendorName: Jonathan Ong
VendorUrl: <http://jongleberry.com>
detect-indent@3.0.1
URL: <https://github.com/sindresorhus/detect-indent.git>
VendorName: Sindre Sorhus
VendorUrl: <http://sindresorhus.com>

detective@4.7.1
URL: [git://github.com/browserify/detective.git](https://github.com/browserify/detective.git)
VendorName: James Halliday
VendorUrl: <http://substack.net>

did_it_work@0.0.6
VendorName: Toby Ho

dom-serializer@0.2.2
URL: [git://github.com/cheeriojs/dom-renderer.git](https://github.com/cheeriojs/dom-renderer.git)
VendorName: Felix Boehm

ecc-jsbn@0.1.2
URL: <https://github.com/quartzjer/ecc-jsbn.git>
VendorName: Jeremie Miller
VendorUrl: <https://github.com/quartzjer/ecc-jsbn>

editions@1.3.4
URL: <https://github.com/bevry/editions.git>
VendorName: 2016+ Bevry Pty Ltd
VendorUrl: <https://github.com/bevry/editions>

editor@1.0.0
URL: [git://github.com/substack/node-editor.git](https://github.com/substack/node-editor.git)
VendorName: James Halliday
VendorUrl: <https://github.com/substack/node-editor>

ee-first@1.1.1
URL: <https://github.com/jonathanong/ee-first.git>
VendorName: Jonathan Ong
VendorUrl: <http://jongleberry.com>

em-helpers@0.8.0
URL: <https://github.com/sreenaths/em-helpers.git>
VendorName: Sreenath Somarajapuram

em-table@0.12.0
URL: <https://github.com/sreenaths/em-table.git>
VendorName: Sreenath Somarajapuram

ember-array-contains-helper@1.0.2
URL: <https://github.com/bmeurant/ember-array-contains-helper>
VendorName: Baptiste Meurant

ember-bootstrap@0.5.1
URL: <https://github.com/kaliber5/ember-bootstrap>
VendorName: Simon Ihmig
VendorUrl: <http://kaliber5.github.io/ember-bootstrap/>

ember-cli-app-version@1.0.0
URL: <https://github.com/embersherpa/ember-cli-app-version.git>
VendorName: Taras Mankovski

ember-cli-babel@5.1.6
URL: [git://github.com/babel/ember-cli-babel.git](https://github.com/babel/ember-cli-babel.git)
VendorName: Gordon Kristan
VendorUrl: <https://github.com/babel/ember-cli-babel>

ember-cli-babel@5.2.8
URL: [git://github.com/babel/ember-cli-babel.git](https://github.com/babel/ember-cli-babel.git)
VendorName: Gordon Kristan

ember-cli-content-security-policy@0.4.0
URL: <https://github.com/rwjblue/ember-cli-content-security-policy>

ember-cli-copy-dereference@1.0.0
URL: <https://github.com/broccolijns/node-copy-dereference>
VendorName: Jo Liss

ember-cli-dependency-checker@1.2.0
URL: <https://github.com/quaertym/ember-cli-dependency-checker.git>
VendorName: Emre Unal

ember-cli-htmlbars-inline-precompile@0.3.1
URL: <https://github.com/pangratz/ember-cli-htmlbars-inline-precompile>
VendorName: Clemens Miller

ember-cli-htmlbars@0.7.6
URL: <git@github.com:ember-cli/ember-cli-htmlbars.git>
VendorName: Jonathan Jackson & Chase McCarthy
VendorUrl: <https://github.com/ember-cli/ember-cli-htmlbars>

ember-cli-htmlbars@1.0.2
URL: <git@github.com:ember-cli/ember-cli-htmlbars.git>
VendorName: Jonathan Jackson & Chase McCarthy
VendorUrl: <https://github.com/ember-cli/ember-cli-htmlbars>

ember-cli-htmlbars@1.3.5
URL: <git@github.com:ember-cli/ember-cli-htmlbars.git>
VendorName: Jonathan Jackson & Chase McCarthy
VendorUrl: <https://github.com/ember-cli/ember-cli-htmlbars>

ember-cli-ic-ajax@0.2.1
URL: <https://github.com/rjackson/ember-cli-ic-ajax>
VendorName: Robert Jackson
VendorUrl: <https://github.com/rjackson/ember-cli-ic-ajax>

ember-cli-inject-live-reload@1.4.0
URL: <git://github.com/rwjblue/ember-cli-inject-live-reload.git>
VendorName: Robert Jackson
VendorUrl: <https://github.com/rwjblue/ember-cli-inject-live-reload>

ember-cli-jquery-ui@0.0.20
URL: <https://github.com/gaurav0/ember-cli-jquery-ui>
VendorName: Gaurav Munjal

ember-cli-less@1.5.7
URL: <https://github.com/gdub22/ember-cli-less>
VendorName: Garth Poitras

ember-cli-moment-shim@0.7.3
URL: <git://github.com/jasonmit/ember-cli-moment-shim.git>
VendorName: Jason Mitchell
VendorUrl: <https://github.com/jasonmit/ember-cli-moment-shim>

ember-cli-node-assets@0.1.6
URL: <https://github.com/dfreeman/ember-cli-node-assets.git>
VendorName: Dan Freeman

ember-cli-numeral@0.2.0
URL: <http://github.com/josemarluedke/ember-cli-numeral>
VendorName: Jay Phelps
VendorUrl: <https://github.com/josemarluedke/ember-cli-numeral>

ember-cli-qunit@1.2.1
URL: <https://github.com/ember-cli/ember-cli-qunit.git>
VendorName: Jake Craige
VendorUrl: <https://github.com/ember-cli/ember-cli-qunit>

ember-cli-release@0.2.8
URL: <https://github.com/lytics/ember-cli-release.git>
VendorName: Steven Lindberg

ember-cli-sass@7.0.0
URL: <git://github.com/aexmachina/ember-cli-sass.git>
VendorName: @aexmachina
VendorUrl: <https://github.com/aexmachina/ember-cli-sass>

ember-cli-sri@1.2.1
URL: <https://github.com/jonathanKingston/ember-cli-sri>
VendorName: Jonathan Kingston

ember-cli-uglify@1.2.0
URL: <https://github.com/ember-cli/ember-cli-uglify.git>

ember-cli-version-checker@1.3.1
URL: <https://github.com/rwjblue/ember-cli-version-checker.git>
VendorName: Robert Jackson
VendorUrl: <https://github.com/rwjblue/ember-cli-version-checker>

ember-cli@1.13.14
URL: <https://github.com/ember-cli/ember-cli.git>
VendorName: Stefan Penner, Robert Jackson and ember-cli contributors

ember-d3@0.1.0
URL: <https://github.com/brzpegasus/ember-d3>
VendorName: Estelle DeBlois

ember-data@2.1.0
URL: <git://github.com/emberjs/data.git>

ember-disable-proxy-controllers@1.0.1
URL: <https://github.com/cibernox/ember-disable-proxy-controllers>
VendorName: Miguel Camba

ember-export-application-global@1.0.5
URL: <https://github.com/ember-cli/ember-export-application-global.git>
VendorName: Robert Jackson
VendorUrl: <https://github.com/ember-cli/ember-export-application-global>

ember-lodash@0.0.10
URL: <https://github.com/levanto-financial/ember-lodash.git>
VendorName: Mike North
VendorUrl: <https://github.com/levanto-financial/ember-lodash>

ember-qunit@0.4.24
URL: <https://github.com/rwjblue/ember-qunit.git>

ember-resolver@2.0.3
URL: <git+https://github.com/ember-cli/ember-resolver.git>
VendorName: Robert Jackson
VendorUrl: <https://github.com/ember-cli/ember-resolver#readme>

ember-router-generator@1.2.3
URL: <https://github.com/ember-cli/ember-router-generator.git>
VendorName: Adolfo Builes

VendorUrl: <https://github.com/ember-cli/ember-router-generator>
ember-spin-spinner@0.2.3
URL: <https://github.com/rsschermer/ember-spin-spinner>
VendorName: Roland Schermer
VendorUrl: <https://github.com/rsschermer/ember-spin-spinner>
ember-truth-helpers@1.3.0
URL: <https://github.com/jmurphyau/ember-truth-helpers>
VendorName: James Murphy
ember-wormhole@0.3.6
URL: <https://github.com/yapplabs/ember-wormhole.git>
VendorName: Yapp Labs
encodeurl@1.0.2
URL: <https://github.com/pillarjs/encodeurl.git>
engine.io-parser@1.2.2
URL: <git@github.com:Automattic/engine.io-parser.git>
VendorUrl: <https://github.com/Automattic/engine.io-parser>
engine.io-pure@1.5.9
URL: <git@github.com:Automattic/engine.io.git>
VendorName: Guillermo Rauch
VendorUrl: <https://github.com/LearnBoost/engine.io>
errno@0.1.7
URL: <https://github.com/rvagg/node-errno.git>
error-ex@1.3.2
URL: <https://github.com/qix-/node-error-ex.git>
es6-iterator@0.1.3
URL: <git://github.com/medikoo/es6-iterator.git>
VendorName: Mariusz Nowak
VendorUrl: <http://www.medikoo.com/>
es6-iterator@2.0.3
URL: <git://github.com/medikoo/es6-iterator.git>
VendorName: Mariusz Nowak
VendorUrl: <http://www.medikoo.com/>
es6-promise@4.0.5
URL: <git://github.com/stefanpenner/es6-promise.git>
VendorName: Yehuda Katz, Tom Dale, Stefan Penner and contributors
VendorUrl: Conversion to ES6 API by Jake Archibald
es6-symbol@2.0.1
URL: <git://github.com/medikoo/es6-symbol.git>
VendorName: Mariusz Nowak
VendorUrl: <http://www.medikoo.com/>
es6-weak-map@0.1.4
URL: <git://github.com/medikoo/es6-weak-map.git>
VendorName: Mariusz Nowak
VendorUrl: <http://www.medikoo.com/>
escape-html@1.0.3
URL: <https://github.com/component/escape-html.git>
escape-string-regexp@1.0.5
URL: <https://github.com/sindresorhus/escape-string-regexp.git>

VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
etag@1.8.1
URL: <https://github.com/jshttp/etag.git>

event-emitter@0.3.5
URL: [git://github.com/medikoo/event-emitter.git](https://github.com/medikoo/event-emitter.git)
VendorName: Mariusz Nowak
VendorUrl: <http://www.medikoo.com/>

eventemitter3@4.0.0
URL: [git://github.com/primus/eventemitter3.git](https://github.com/primus/eventemitter3.git)
VendorName: Arnout Kazemier

exec-sh@0.2.2
URL: [git@github.com:tsertkov/exec-sh.git](https://github.com:tsertkov/exec-sh.git)
VendorName: Aleksandr Tsertkov

exit@0.1.2
URL: [git://github.com/cowboy/node-exit.git](https://github.com/cowboy/node-exit.git)
VendorName: "Cowboy" Ben Alman
VendorUrl: <https://github.com/cowboy/node-exit>

expand-brackets@0.1.5
URL: <https://github.com/jonschlinkert/expand-brackets.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/expand-brackets>

expand-range@1.8.2
URL: <https://github.com/jonschlinkert/expand-range.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/expand-range>

express@4.17.1
URL: <https://github.com/expressjs/express.git>
VendorName: TJ Holowaychuk
VendorUrl: <http://expressjs.com/>

extend@3.0.2
URL: <https://github.com/justmoon/node-extend.git>
VendorName: Stefan Thomas
VendorUrl: <http://www.justmoon.net>

extglob@0.3.2
URL: [git://github.com/jonschlinkert/extglob.git](https://github.com/jonschlinkert/extglob.git)
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/extglob>

extsprintf@1.3.0
URL: [git://github.com/davepacheco/node-extsprintf.git](https://github.com/davepacheco/node-extsprintf.git)

extsprintf@1.4.0
URL: [git://github.com/davepacheco/node-extsprintf.git](https://github.com/davepacheco/node-extsprintf.git)

fast-deep-equal@2.0.1
URL: [git+https://github.com/epoberezkin/fast-deep-equal.git](https://github.com/epoberezkin/fast-deep-equal.git)
VendorName: Evgeny Poberezkin
VendorUrl: <https://github.com/epoberezkin/fast-deep-equal#readme>

fast-json-stable-stringify@2.1.0
URL: [git://github.com/epoberezkin/fast-json-stable-stringify.git](https://github.com/epoberezkin/fast-json-stable-stringify.git)

VendorName: James Halliday
VendorUrl: <https://github.com/epoberezkin/fast-json-stable-stringify>
fast-sourcemap-concat@0.2.7
URL: <https://github.com/ef4/fast-sourcemap-concat>
VendorName: Edward Faulkner
faye-websocket@0.10.0
URL: <git://github.com/faye/faye-websocket-node.git>
VendorName: James Coglan
VendorUrl: <http://github.com/faye/faye-websocket-node>
fd-slicer@1.0.1
URL: <git://github.com/andrewrk/node-fd-slicer.git>
VendorName: Andrew Kelley
filename-regex@2.0.1
URL: <https://github.com/regexhq/filename-regex.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/regexhq/filename-regex>
fileset@0.2.1
URL: <git://github.com/mklabs/node-fileset.git>
VendorName: mklabs
VendorUrl: <https://github.com/mklabs/node-fileset>
fill-range@2.2.4
URL: <https://github.com/jonschlinkert/fill-range.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/fill-range>
finalhandler@1.1.2
URL: <https://github.com/pillarjs/finalhandler.git>
VendorName: Douglas Christopher Wilson
find-up@1.1.2
URL: <https://github.com/sindresorhus/find-up.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
findup-sync@0.2.1
URL: <git://github.com/cowboy/node-findup-sync.git>
VendorName: "Cowboy" Ben Alman
VendorUrl: <https://github.com/cowboy/node-findup-sync>
findup-sync@0.3.0
URL: <git://github.com/cowboy/node-findup-sync.git>
VendorName: "Cowboy" Ben Alman
VendorUrl: <https://github.com/cowboy/node-findup-sync>
findup@0.1.5
URL: <https://github.com/Filirom1/findup.git>
VendorName: Filirom1
fireworm@0.6.6
URL: <git@github.com:airportyh/fireworm.git>
VendorName: Toby Ho
follow-redirects@1.9.0
URL: <git@github.com:follow-redirects/follow-redirects.git>
VendorName: Ruben Verborgh

VendorUrl: <https://github.com/follow-redirects/follow-redirects>
for-in@1.0.2
URL: <https://github.com/jonschlinkert/for-in.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/for-in>
for-own@0.1.5
URL: <https://github.com/jonschlinkert/for-own.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/for-own>
form-data@1.0.1
URL: <git://github.com/form-data/form-data.git>
VendorName: Felix Geisendrfer
VendorUrl: <http://debuggable.com/>
form-data@2.1.4
URL: <git://github.com/form-data/form-data.git>
VendorName: Felix Geisendrfer
VendorUrl: <http://debuggable.com/>
form-data@2.3.3
URL: <git://github.com/form-data/form-data.git>
VendorName: Felix Geisendrfer
VendorUrl: <http://debuggable.com/>
forwarded@0.1.2
URL: <https://github.com/jshttp/forwarded.git>
fresh@0.5.2
URL: <https://github.com/jshttp/fresh.git>
VendorName: TJ Holowaychuk
VendorUrl: <http://tjholowaychuk.com>
fs-extra@0.16.5
URL: <https://github.com/jprichardson/node-fs-extra>
VendorName: JP Richardson
VendorUrl: <https://github.com/jprichardson/node-fs-extra>
fs-extra@0.22.1
URL: <https://github.com/jprichardson/node-fs-extra>
VendorName: JP Richardson
VendorUrl: <https://github.com/jprichardson/node-fs-extra>
fs-extra@0.24.0
URL: <https://github.com/jprichardson/node-fs-extra>
VendorName: JP Richardson
VendorUrl: <https://github.com/jprichardson/node-fs-extra>
fs-extra@0.30.0
URL: <https://github.com/jprichardson/node-fs-extra>
VendorName: JP Richardson
VendorUrl: <https://github.com/jprichardson/node-fs-extra>
fs-extra@5.0.0
URL: <https://github.com/jprichardson/node-fs-extra>
VendorName: JP Richardson
VendorUrl: <https://github.com/jprichardson/node-fs-extra>
fs-readdir-recursive@0.1.2

URL: <https://github.com/fs-utils/fs-readdir-recursive.git>
VendorName: Jonathan Ong
VendorUrl: <http://jongleberry.com>
fs-tree-diff@0.3.1
VendorName: Stefan Penner, David J. Hamilton, Chad Hietala
fs-tree-diff@0.4.4
VendorName: Stefan Penner, David J. Hamilton, Chad Hietala
fs-tree-diff@0.5.9
URL: <git://github.com/stefanpenner/fs-tree-diff.git>
VendorName: Stefan Penner, David J. Hamilton, Chad Hietala
gaze@1.1.3
URL: <https://github.com/shama/gaze.git>
VendorName: Kyle Robinson Young
VendorUrl: <https://github.com/shama/gaze>
generate-function@2.3.1
URL: <https://github.com/mafintosh/generate-function>
VendorName: Mathias Buus
VendorUrl: <https://github.com/mafintosh/generate-function>
generate-object-property@1.2.0
URL: <https://github.com/mafintosh/generate-object-property>
VendorName: Mathias Buus
VendorUrl: <https://github.com/mafintosh/generate-object-property>
get-stdin@4.0.1
URL: <https://github.com/sindresorhus/get-stdin.git>
VendorName: Sindre Sorhus
VendorUrl: <http://sindresorhus.com>
getpass@0.1.7
URL: <https://github.com/arekinath/node-getpass.git>
VendorName: Alex Wilson
git-repo-info@1.4.1
URL: <https://github.com/rwjblue/git-repo-info.git>
VendorName: Robert Jackson
VendorUrl: <https://github.com/rwjblue/git-repo-info>
git-repo-version@0.3.0
URL: <https://github.com/cibernox/git-repo-version>
VendorName: Miguel Camba
github-url-from-git@1.4.0
URL: <https://github.com/visionmedia/node-github-url-from-git.git>
VendorName: TJ Holowaychuk
glob-base@0.3.0
URL: <git://github.com/jonschlinkert/glob-base.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/glob-base>
globals@6.4.1
URL: <https://github.com/sindresorhus/globals.git>
VendorName: Sindre Sorhus
VendorUrl: <http://sindresorhus.com>
globule@1.3.0

URL: [git://github.com/cowboy/node-globule.git](https://github.com/cowboy/node-globule.git)
VendorName: "Cowboy" Ben Alman
VendorUrl: <https://github.com/cowboy/node-globule>
growl@1.10.5
URL: [git://github.com/tj/node-growl.git](https://github.com/tj/node-growl.git)
VendorName: TJ Holowaychuk
handlebars@3.0.7
URL: <https://github.com/wycats/handlebars.js.git>
VendorName: Yehuda Katz
VendorUrl: <http://www.handlebarsjs.com/>
har-validator@5.1.3
URL: <https://github.com/ahmadnassri/node-har-validator.git>
VendorName: Ahmad Nassri
VendorUrl: <https://github.com/ahmadnassri/node-har-validator>
has-ansi@0.1.0
URL: <https://github.com/sindresorhus/has-ansi.git>
VendorName: Sindre Sorhus
VendorUrl: <http://sindresorhus.com>
has-ansi@2.0.0
URL: <https://github.com/sindresorhus/has-ansi.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
has-binary@0.1.6
VendorName: Kevin Roark
has-color@0.1.7
URL: <https://github.com/sindresorhus/has-color.git>
VendorName: Sindre Sorhus
VendorUrl: <http://sindresorhus.com>
has-cors@1.1.0
URL: [git://github.com/component/has-cors.git](https://github.com/component/has-cors.git)
VendorName: Nathan Rajlich
VendorUrl: <http://n8.io/>
has-flag@3.0.0
URL: <https://github.com/sindresorhus/has-flag.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
hasha@2.2.0
URL: <https://github.com/sindresorhus/hasha.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
heimdalljs-logger@0.1.10
URL: [git+https://github.com/heimdalljs/heimdalljs-logger.git](https://github.com/heimdalljs/heimdalljs-logger.git)
VendorName: David J. Hamilton
VendorUrl: <https://github.com/heimdalljs/heimdalljs-logger#README.md>
heimdalljs@0.2.6
URL: [git+https://github.com/heimdalljs/heimdalljs-lib.git](https://github.com/heimdalljs/heimdalljs-lib.git)
VendorUrl: <https://github.com/hjdivad/heimdalljs-lib#readme>
home-or-tmp@1.0.0

URL: <https://github.com/sindresorhus/home-or-tmp.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

htmlparser2@3.8.3
URL: [git://github.com/fb55/htmlparser2.git](https://github.com/fb55/htmlparser2.git)
VendorName: Felix Boehm

http-errors@1.3.1
URL: <https://github.com/jshttp/http-errors.git>
VendorName: Jonathan Ong
VendorUrl: <http://jongleberry.com>

http-errors@1.7.2
URL: <https://github.com/jshttp/http-errors.git>
VendorName: Jonathan Ong
VendorUrl: <http://jongleberry.com>

http-errors@1.7.3
URL: <https://github.com/jshttp/http-errors.git>
VendorName: Jonathan Ong
VendorUrl: <http://jongleberry.com>

http-parser-js@0.4.10
URL: [git://github.com/creationix/http-parser-js.git](https://github.com/creationix/http-parser-js.git)
VendorName: Tim Caswell
VendorUrl: <https://github.com/creationix>

http-proxy@1.18.0
URL: <https://github.com/http-party/node-http-proxy.git>
VendorName: Charlie Robbins

http-signature@0.11.0
URL: [git://github.com/joyent/node-http-signature.git](https://github.com/joyent/node-http-signature.git)
VendorName: Joyent, Inc
VendorUrl: <https://github.com/joyent/node-http-signature/>

http-signature@1.1.1
URL: [git://github.com/joyent/node-http-signature.git](https://github.com/joyent/node-http-signature.git)
VendorName: Joyent, Inc
VendorUrl: <https://github.com/joyent/node-http-signature/>

http-signature@1.2.0
URL: [git://github.com/joyent/node-http-signature.git](https://github.com/joyent/node-http-signature.git)
VendorName: Joyent, Inc
VendorUrl: <https://github.com/joyent/node-http-signature/>

ic-ajax@2.0.2
URL: <https://github.com/instructure/ic-ajax.git>
VendorName: Ryan Florence
VendorUrl: <https://github.com/instructure/ic-ajax>

iconv-lite@0.4.13
URL: [git://github.com/ashtuchkin/iconv-lite.git](https://github.com/ashtuchkin/iconv-lite.git)
VendorName: Alexander Shtuchkin
VendorUrl: <https://github.com/ashtuchkin/iconv-lite>

iconv-lite@0.4.24
URL: [git://github.com/ashtuchkin/iconv-lite.git](https://github.com/ashtuchkin/iconv-lite.git)
VendorName: Alexander Shtuchkin

VendorUrl: <https://github.com/ashtuchkin/iconv-lite>
iferr@0.1.5
URL: <https://github.com/shesek/iferr>
VendorName: Nadav Ivgi
VendorUrl: <https://github.com/shesek/iferr>
image-size@0.5.5
URL: <https://github.com/image-size/image-size.git>
VendorName: netroy
VendorUrl: <http://netroy.in/>
imurmurhash@0.1.4
URL: <https://github.com/jensyt/imurmurhash-js>
VendorName: Jens Taylor
VendorUrl: <https://github.com/jensyt/imurmurhash-js>
include-path-searcher@0.1.0
URL: <https://github.com/joliss/include-path-searcher>
VendorName: Jo Liss
indent-string@2.1.0
URL: <https://github.com/sindresorhus/indent-string.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
inflection@1.12.0
URL: <https://github.com/dreamerslab/node.inflection.git>
VendorName: dreamerslab
inquirer@0.5.1
URL: <git://github.com/SBoudrias/Inquirer.js.git>
VendorName: Simon Boudrias
invert-kv@1.0.0
URL: <https://github.com/sindresorhus/invert-kv.git>
VendorName: Sindre Sorhus
VendorUrl: <http://sindresorhus.com>
ipaddr.js@1.9.0
URL: <git://github.com/whitequark/ipaddr.js>
VendorName: whitequark
is-arrayish@0.2.1
URL: <https://github.com/qix-/node-is-arrayish.git>
VendorName: Qix
VendorUrl: <http://github.com/qix->
is-buffer@1.1.6
URL: <git://github.com/feross/is-buffer.git>
VendorName: Feross Aboukhadijeh
VendorUrl: <http://feross.org/>
is-builtin-module@1.0.0
URL: <https://github.com/sindresorhus/is-builtin-module.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
is-dotfile@1.0.3
URL: <https://github.com/jonschlinkert/is-dotfile.git>
VendorName: Jon Schlinkert

VendorUrl: <https://github.com/jonschlinkert/is-dotfile>
is-equal-shallow@0.1.3
URL: [git://github.com/jonschlinkert/is-equal-shallow.git](https://github.com/jonschlinkert/is-equal-shallow.git)
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/is-equal-shallow>
is-extendable@0.1.1
URL: <https://github.com/jonschlinkert/is-extendable.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/is-extendable>
is-extglob@1.0.0
URL: <https://github.com/jonschlinkert/is-extglob.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/is-extglob>
is-finite@1.0.2
URL: <https://github.com/sindresorhus/is-finite.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
is-fullwidth-code-point@1.0.0
URL: <https://github.com/sindresorhus/is-fullwidth-code-point.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
is-fullwidth-code-point@2.0.0
URL: <https://github.com/sindresorhus/is-fullwidth-code-point.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
is-git-url@0.2.0
URL: [git://github.com/jonschlinkert/is-git-url.git](https://github.com/jonschlinkert/is-git-url.git)
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/is-git-url>
is-git-url@0.2.3
URL: <https://github.com/jonschlinkert/is-git-url.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/is-git-url>
is-glob@2.0.1
URL: <https://github.com/jonschlinkert/is-glob.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/is-glob>
is-my-ip-valid@1.0.0
URL: <https://github.com/LinusU/is-my-ip-valid.git>
is-my-json-valid@2.20.0
URL: <https://github.com/mafintosh/is-my-json-valid.git>
is-number@2.1.0
URL: <https://github.com/jonschlinkert/is-number.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/is-number>
is-number@4.0.0
URL: <https://github.com/jonschlinkert/is-number.git>
VendorName: Jon Schlinkert

VendorUrl: <https://github.com/jonschlinkert/is-number>
is-posix-bracket@0.1.1
URL: <https://github.com/jonschlinkert/is-posix-bracket.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/is-posix-bracket>
is-primitive@2.0.0
URL: <git://github.com/jonschlinkert/is-primitive.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/is-primitive>
is-property@1.0.2
URL: <git://github.com/mikolalysenko/is-property.git>
VendorName: Mikola Lysenko
is-stream@1.1.0
URL: <https://github.com/sindresorhus/is-stream.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
is-type@0.0.1
URL: <git://github.com/juliangruber/is-type.git>
VendorName: Julian Gruber
VendorUrl: <https://github.com/juliangruber/is-type>
is-typedarray@1.0.0
URL: <git://github.com/hughsk/is-typedarray.git>
VendorName: Hugh Kennedy
VendorUrl: <https://github.com/hughsk/is-typedarray>
is-utf8@0.2.1
URL: <https://github.com/wayfind/is-utf8.git>
VendorName: wayfind
isarray@0.0.1
URL: <git://github.com/juliangruber/isarray.git>
VendorName: Julian Gruber
VendorUrl: <https://github.com/juliangruber/isarray>
isarray@1.0.0
URL: <git://github.com/juliangruber/isarray.git>
VendorName: Julian Gruber
VendorUrl: <https://github.com/juliangruber/isarray>
isbinaryfile@2.0.4
URL: <https://github.com/gjtorikian/isBinaryFile>
isobject@2.1.0
URL: <https://github.com/jonschlinkert/isobject.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/isobject>
isstream@0.1.2
URL: <https://github.com/rvagg/isstream.git>
VendorName: Rod Vagg
VendorUrl: <https://github.com/rvagg/isstream>
istextorbinary@2.1.0
URL: <http://github.com/bevry/istextorbinary.git>
VendorName: 2012+ Bevry Pty Ltd

VendorUrl: <https://github.com/bevry/istextorbinary>
js-tokens@1.0.1
URL: <https://github.com/lydell/js-tokens.git>
VendorName: Simon Lydell

js-yaml@3.13.1
URL: <https://github.com/nodeca/js-yaml.git>
VendorName: Vladimir Zapparov
VendorUrl: <https://github.com/nodeca/js-yaml>

jsbn@0.1.1
URL: <https://github.com/andyperlitch/jsbn.git>
VendorName: Tom Wu

jsesc@0.5.0
URL: <https://github.com/mathiasbynens/jsesc.git>
VendorName: Mathias Bynens
VendorUrl: <http://mths.be/jsesc>

json-parse-better-errors@1.0.2
URL: <https://github.com/zkat/json-parse-better-errors>
VendorName: Kat Marchn

json-schema-traverse@0.4.1
URL: <git+https://github.com/epoberezkin/json-schema-traverse.git>
VendorName: Evgeny Poberezkin
VendorUrl: <https://github.com/epoberezkin/json-schema-traverse#readme>

json-stable-stringify@1.0.1
URL: <git://github.com/substack/json-stable-stringify.git>
VendorName: James Halliday
VendorUrl: <https://github.com/substack/json-stable-stringify>

json3@3.2.6
URL: <git://github.com/bestiejs/json3.git>
VendorName: Kit Cambridge
VendorUrl: <http://bestiejs.github.io/json3>

json5@0.4.0
URL: <https://github.com/aseemk/json5.git>
VendorName: Aseem Kishore
VendorUrl: <http://json5.org/>

jsonfile@2.4.0
URL: <git@github.com:jprichardson/node-jsonfile.git>
VendorName: JP Richardson

jsonfile@4.0.0
URL: <git@github.com:jprichardson/node-jsonfile.git>
VendorName: JP Richardson

jsonpointer@4.0.1
URL: <http://github.com/janl/node-jsonpointer.git>
VendorName: Jan Lehnardt

jsprim@1.4.1
URL: <git://github.com/joyent/node-jsprim.git>

kind-of@3.2.2
URL: <https://github.com/jonschlinkert/kind-of.git>
VendorName: Jon Schlinkert

VendorUrl: <https://github.com/jonschlinkert/kind-of>
kind-of@6.0.2
URL: <https://github.com/jonschlinkert/kind-of.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/kind-of>
klassy@0.1.3
URL: <https://github.com/cerebris/klassy.js.git>
klaw@1.3.1
URL: <git+https://github.com/jprichardson/node-klaw.git>
VendorName: JP Richardson
VendorUrl: <https://github.com/jprichardson/node-klaw#readme>
lazy-cache@1.0.4
URL: <https://github.com/jonschlinkert/lazy-cache.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/lazy-cache>
lcid@1.0.0
URL: <https://github.com/sindresorhus/lcid.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
leek@0.0.18
URL: <https://github.com/twokul/leek>
VendorName: Alex Navasardyan
VendorUrl: <http://twokul.io>
leven@1.0.2
URL: <https://github.com/sindresorhus/leven.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
linkify-it@1.2.4
URL: <https://github.com/markdown-it/linkify-it.git>
livereload-js@2.4.0
URL: <git://github.com/livereload/livereload-js.git>
VendorUrl: <https://github.com/livereload/livereload-js>
load-json-file@1.1.0
URL: <https://github.com/sindresorhus/load-json-file.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
loader.js@4.2.3
URL: <https://github.com/ember-cli/loader.js.git>
VendorUrl: <https://github.com/ember-cli/loader.js>
lodash-es@3.10.1
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/custom-builds>
lodash-node@2.4.1
URL: <https://github.com/lodash/lodash-node.git>
VendorName: John-David Dalton
VendorUrl: <http://lodash.com/custom-builds>
lodash-node@3.10.2

URL: <https://github.com/lodash/lodash-node.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>

lodash._arraycopy@3.0.0
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>

lodash._arrayeach@3.0.0
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>

lodash._baseassign@3.2.0
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>

lodash._basecallback@3.3.1
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>

lodash._basecopy@3.0.1
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>

lodash._basefor@3.0.3
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>

lodash._baseindexof@3.1.0
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>

lodash._baseisequal@3.0.7
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>

lodash._baseuniq@3.0.3
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>

lodash._bindcallback@3.0.1
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>

lodash._cacheindexof@3.0.2
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>

lodash._createassigner@3.1.1

URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>
lodash._createcache@3.1.2
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>
lodash._getnative@3.9.1
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>
lodash._isiterateecall@3.0.9
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>
lodash.assign@3.2.0
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>
lodash.defaults@3.1.2
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>
lodash.isarguments@3.1.0
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>
lodash.isarray@3.0.4
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>
lodash.isplainobject@3.2.0
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>
lodash.istypedarray@3.0.6
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>
lodash.keys@3.1.2
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>
lodash.keysin@3.0.8
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>
lodash.merge@3.3.2

URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>
lodash.merge@4.6.2
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>
lodash.pad@4.5.1
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>
lodash.padend@4.6.1
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>
lodash.padstart@4.6.1
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>
lodash.pairs@3.0.1
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>
lodash.restparam@3.6.1
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>
lodash.toplainobject@3.0.0
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>
lodash.uniq@3.2.2
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>
lodash@2.3.0
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <http://lodash.com/>
lodash@2.4.2
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <http://lodash.com/>
lodash@3.10.1
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>
lodash@4.17.15

URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>
longest@1.0.1
URL: <https://github.com/jonschlinkert/longest.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/longest>
loud-rejection@1.6.0
URL: <https://github.com/sindresorhus/loud-rejection.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
lru-queue@0.1.0
URL: <git://github.com/medikoo/lru-queue.git>
VendorName: Mariusz Nowak
VendorUrl: <http://www.medikoo.com/>
make-array@0.1.2
URL: <git://github.com/kaelzhang/make-array.git>
VendorName: kael
map-obj@1.0.1
URL: <https://github.com/sindresorhus/map-obj.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
markdown-it-terminal@0.0.2
URL: <http://github.com/trabus/markdown-it-terminal>
VendorName: Jake Bixby
VendorUrl: <https://github.com/trabus/markdown-it-terminal>
markdown-it@4.3.0
URL: <https://github.com/markdown-it/markdown-it.git>
VendorUrl: <https://github.com/markdown-it/markdown-it>
markdown-it@4.4.0
URL: <https://github.com/markdown-it/markdown-it.git>
VendorUrl: <https://github.com/markdown-it/markdown-it>
math-random@1.0.4
URL: <https://github.com/michaelrhodes/math-random.git>
VendorName: Michael Rhodes
mdurl@1.0.1
URL: <https://github.com/markdown-it/mdurl.git>
media-typer@0.3.0
URL: <https://github.com/jshttp/media-typer.git>
VendorName: Douglas Christopher Wilson
memoizee@0.3.10
URL: <git://github.com/medikoo/memoizee.git>
VendorName: Mariusz Nowak
VendorUrl: <http://www.medikoo.com/>
meow@3.7.0
URL: <https://github.com/sindresorhus/meow.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

merge-defaults@0.2.2
URL: [git://github.com/mikermcneil/merge-defaults.git](https://github.com/mikermcneil/merge-defaults.git)
VendorName: Mike McNeil
VendorUrl: <https://github.com/mikermcneil/merge-defaults>

merge-descriptors@1.0.1
URL: <https://github.com/component/merge-descriptors.git>
VendorName: Jonathan Ong
VendorUrl: <http://jongleberry.com>

merge-trees@1.0.1
URL: <https://github.com/broccolijs/node-merge-trees>
VendorName: Jo Liss

merge@1.2.1
URL: <https://github.com/yeikos/js.merge.git>
VendorName: yeikos
VendorUrl: <https://github.com/yeikos/js.merge>

methods@1.1.2
URL: <https://github.com/jshttp/methods.git>

micromatch@2.3.11
URL: <https://github.com/jonschlinkert/micromatch.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/micromatch>

mime-db@1.42.0
URL: <https://github.com/jshttp/mime-db.git>

mime-types@2.1.25
URL: <https://github.com/jshttp/mime-types.git>

mime@1.6.0
URL: <https://github.com/broofa/node-mime>
VendorName: Robert Kieffer
VendorUrl: <http://github.com/broofa>

minimatch@0.2.14
URL: [git://github.com/isaacs/minimatch.git](https://github.com/isaacs/minimatch.git)
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me>

minimatch@1.0.0
URL: [git://github.com/isaacs/minimatch.git](https://github.com/isaacs/minimatch.git)
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me>

minimist@0.0.10
URL: [git://github.com/substack/minimist.git](https://github.com/substack/minimist.git)
VendorName: James Halliday
VendorUrl: <https://github.com/substack/minimist>

minimist@0.0.8
URL: [git://github.com/substack/minimist.git](https://github.com/substack/minimist.git)
VendorName: James Halliday
VendorUrl: <https://github.com/substack/minimist>

minimist@1.2.0
URL: [git://github.com/substack/minimist.git](https://github.com/substack/minimist.git)
VendorName: James Halliday

VendorUrl: <https://github.com/substack/minimist>
mkdirp@0.3.5
URL: <http://github.com/substack/node-mkdirp.git>
VendorName: James Halliday
VendorUrl: <http://substack.net>
mkdirp@0.4.2
URL: <https://github.com/substack/node-mkdirp.git>
VendorName: James Halliday
VendorUrl: <http://substack.net>
mkdirp@0.5.0
URL: <https://github.com/substack/node-mkdirp.git>
VendorName: James Halliday
VendorUrl: <http://substack.net>
mkdirp@0.5.1
URL: <https://github.com/substack/node-mkdirp.git>
VendorName: James Halliday
VendorUrl: <http://substack.net>
mktemp@0.3.5
URL: <git://github.com/sasaplus1/mktemp.git>
VendorName: sasa+1
mktemp@0.4.0
URL: <git://github.com/sasaplus1/mktemp.git>
VendorName: sasa+1
moment-timezone@0.3.1
URL: <https://github.com/moment/moment-timezone.git>
VendorName: Tim Wood
VendorUrl: <http://momentjs.com/timezone/>
moment@2.24.0
URL: <https://github.com/moment/moment.git>
VendorName: Iskren Ivov Chernev
VendorUrl: <http://momentjs.com/>
morgan@1.9.1
URL: <https://github.com/expressjs/morgan.git>
mout@0.9.1
URL: <git://github.com/mout/mout.git>
VendorUrl: <http://moutjs.com/>
ms@0.7.1
URL: <git://github.com/guille/ms.js.git>
ms@2.0.0
URL: <https://github.com/zeit/ms.git>
ms@2.1.1
URL: <https://github.com/zeit/ms.git>
ms@2.1.2
URL: <https://github.com/zeit/ms.git>
mustache@2.3.2
URL: <https://github.com/janl/mustache.js.git>
VendorName: mustache.js Authors
VendorUrl: <https://github.com/janl/mustache.js>

nan@2.14.0
URL: git://github.com/nodejs/nan.git

negotiator@0.6.2
URL: https://github.com/jshttp/negotiator.git

next-tick@0.2.2
URL: git://github.com/medikoo/next-tick.git
VendorName: Mariusz Nowak
VendorUrl: http://www.medikoo.com/

next-tick@1.0.0
URL: git://github.com/medikoo/next-tick.git
VendorName: Mariusz Nowak
VendorUrl: http://www.medikoo.com/

node-gyp@3.0.3
URL: git://github.com/nodejs/node-gyp.git
VendorName: Nathan Rajlich
VendorUrl: http://tootallnate.net

node-gyp@3.8.0
URL: git://github.com/nodejs/node-gyp.git
VendorName: Nathan Rajlich
VendorUrl: http://tootallnate.net

node-int64@0.4.0
URL: https://github.com/broofa/node-int64
VendorName: Robert Kieffer

node-sass@4.13.0
URL: https://github.com/sass/node-sass
VendorName: Andrew Nesbitt
VendorUrl: https://github.com/sass/node-sass

node-uuid@1.4.8
URL: https://github.com/broofa/node-uuid.git
VendorName: Robert Kieffer
VendorUrl: https://github.com/broofa/node-uuid

normalize-path@2.1.1
URL: https://github.com/jonschlinkert/normalize-path.git
VendorName: Jon Schlinkert
VendorUrl: https://github.com/jonschlinkert/normalize-path

number-is-nan@1.0.1
URL: https://github.com/sindresorhus/number-is-nan.git
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

numeral@1.5.6
URL: https://github.com/adamwdraper/Numeral-js
VendorName: Adam Draper
VendorUrl: http://numeraljs.com/

object-assign@2.1.1
URL: https://github.com/sindresorhus/object-assign.git
VendorName: Sindre Sorhus
VendorUrl: http://sindresorhus.com

object-assign@3.0.0

URL: <https://github.com/sindresorhus/object-assign.git>
VendorName: Sindre Sorhus
VendorUrl: <http://sindresorhus.com>
object-assign@4.1.1
URL: <https://github.com/sindresorhus/object-assign.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
object-keys@1.0.1
URL: <git://github.com/ljharb/object-keys.git>
VendorName: Jordan Harband
object.omit@2.0.1
URL: <https://github.com/jonschlinkert/object.omit.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/object.omit>
on-finished@2.3.0
URL: <https://github.com/jshttp/on-finished.git>
on-headers@1.0.2
URL: <https://github.com/jshttp/on-headers.git>
VendorName: Douglas Christopher Wilson
optimist@0.6.1
URL: <http://github.com/substack/node-optimist.git>
VendorName: James Halliday
VendorUrl: <http://substack.net>
options@0.0.6
URL: <git://github.com/einaros/options.js.git>
VendorName: Einar Otto Stangvik
VendorUrl: <http://2x.io>
os-homedir@1.0.2
URL: <https://github.com/sindresorhus/os-homedir.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
os-locale@1.4.0
URL: <https://github.com/sindresorhus/os-locale.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
os-tmpdir@1.0.2
URL: <https://github.com/sindresorhus/os-tmpdir.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
output-file-sync@1.1.2
URL: <https://github.com/shinnn/output-file-sync.git>
VendorName: Shinnosuke Watanabe
VendorUrl: <https://github.com/shinnn>
parse-glob@3.0.4
URL: <https://github.com/jonschlinkert/parse-glob.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/parse-glob>
parse-json@2.2.0

URL: <https://github.com/sindresorhus/parse-json.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
parsejson@0.0.1
parseqs@0.0.2
parseuri@0.0.2
parseuri@0.0.4
URL: <https://github.com/get/parseuri.git>
VendorUrl: <https://github.com/get/parseuri>
parseurl@1.3.3
URL: <https://github.com/pillarjs/parseurl.git>
path-array@1.0.1
URL: <git://github.com/TooTallNate/node-path-array.git>
VendorName: Nathan Rajlich
VendorUrl: <https://github.com/TooTallNate/node-path-array>
path-exists@1.0.0
URL: <https://github.com/sindresorhus/path-exists.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
path-exists@2.1.0
URL: <https://github.com/sindresorhus/path-exists.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
path-is-absolute@1.0.1
URL: <https://github.com/sindresorhus/path-is-absolute.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
path-parse@1.0.6
URL: <https://github.com/jbgutierrez/path-parse.git>
VendorName: Javier Blanco
VendorUrl: <https://github.com/jbgutierrez/path-parse#readme>
path-root-regex@0.1.2
URL: <https://github.com/regexhq/path-root-regex.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/regexhq/path-root-regex>
path-root@0.1.1
URL: <https://github.com/jonschlinkert/path-root.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/path-root>
path-to-regexp@0.1.7
URL: <https://github.com/component/path-to-regexp.git>
path-type@1.1.0
URL: <https://github.com/sindresorhus/path-type.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
pend@1.2.0
URL: <git://github.com/andrewrk/node-pend.git>
VendorName: Andrew Kelley

performance-now@0.2.0
URL: [git://github.com/meryn/performance-now.git](https://github.com/meryn/performance-now.git)
VendorName: Meryn Stol
VendorUrl: <https://github.com/meryn/performance-now>

performance-now@2.1.0
URL: [git://github.com/braveg1rl/performance-now.git](https://github.com/braveg1rl/performance-now.git)
VendorName: Braveg1rl
VendorUrl: <https://github.com/braveg1rl/performance-now>

pify@2.3.0
URL: <https://github.com/sindresorhus/pify.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

pinkie-promise@2.0.1
URL: <https://github.com/floatdrop/pinkie-promise.git>
VendorName: Vsevolod Strukchinsky
VendorUrl: github.com/floatdrop

pinkie@2.0.4
URL: <https://github.com/floatdrop/pinkie.git>
VendorName: Vsevolod Strukchinsky
VendorUrl: github.com/floatdrop

portfinder@0.4.0
URL: [git@github.com:indexzero/node-portfinder.git](https://github.com/indexzero/node-portfinder.git)
VendorName: Charlie Robbins

preserve@0.2.0
URL: [git://github.com/jonschlinkert/preserve.git](https://github.com/jonschlinkert/preserve.git)
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/preserve>

private@0.1.8
URL: [git://github.com/benjamn/private.git](https://github.com/benjamn/private.git)
VendorName: Ben Newman
VendorUrl: <http://github.com/benjamn/private>

process-nextick-args@1.0.7
URL: <https://github.com/calvinmetcalf/process-nextick-args.git>
VendorUrl: <https://github.com/calvinmetcalf/process-nextick-args>

process-nextick-args@2.0.1
URL: <https://github.com/calvinmetcalf/process-nextick-args.git>
VendorUrl: <https://github.com/calvinmetcalf/process-nextick-args>

progress@1.1.8
URL: [git://github.com/visionmedia/node-progress](https://github.com/visionmedia/node-progress)
VendorName: TJ Holowaychuk

promise-map-series@0.2.3
URL: <https://github.com/joliss/promise-map-series>
VendorName: Jo Liss

promise@7.3.1
URL: <https://github.com/then/promise.git>
VendorName: ForbesLindesay

proxy-addr@2.0.5
URL: <https://github.com/jshttp/proxy-addr.git>

VendorName: Douglas Christopher Wilson
pr@1.0.1
URL: <https://github.com/rvagg/pr.git>
VendorName: Rod Vagg
VendorUrl: <https://github.com/rvagg/pr>

psl@1.6.0
URL: <git@github.com:lupomontero/psl.git>
VendorName: Lupo Montero
VendorUrl: <https://lupomontero.com/>

punycode@1.4.1
URL: <https://github.com/bestiejs/punycode.js.git>
VendorName: Mathias Bynens
VendorUrl: <https://mths.be/punycode>

punycode@2.1.1
URL: <https://github.com/bestiejs/punycode.js.git>
VendorName: Mathias Bynens
VendorUrl: <https://mths.be/punycode>

q@1.5.1
URL: <git://github.com/kriskowal/q.git>
VendorName: Kris Kowal
VendorUrl: <https://github.com/kriskowal/q>

quick-temp@0.1.3
URL: <https://github.com/joliss/node-quick-temp>
VendorName: Jo Liss

quick-temp@0.1.8
URL: <https://github.com/joliss/node-quick-temp>
VendorName: Jo Liss

qunitjs@1.23.1
URL: <git://github.com/jquery/qunit.git>
VendorName: jQuery Foundation and other contributors
VendorUrl: <https://qunitjs.com/>

randomatic@3.1.1
URL: <https://github.com/jonschlinkert/randomatic.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/randomatic>

range-parser@1.2.1
URL: <https://github.com/jshttp/range-parser.git>
VendorName: TJ Holowaychuk
VendorUrl: <http://tjholowaychuk.com>

raw-body@2.1.7
URL: <https://github.com/stream-utils/raw-body.git>
VendorName: Jonathan Ong
VendorUrl: <http://jongleberry.com>

raw-body@2.4.0
URL: <https://github.com/stream-utils/raw-body.git>
VendorName: Jonathan Ong
VendorUrl: <http://jongleberry.com>

read-pkg-up@1.0.1

URL: <https://github.com/sindresorhus/read-pkg-up.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
read-pkg@1.1.0
URL: <https://github.com/sindresorhus/read-pkg.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
readable-stream@1.1.13
URL: [git://github.com/isaacs/readable-stream](https://github.com/isaacs/readable-stream)
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>
readable-stream@1.1.14
URL: [git://github.com/isaacs/readable-stream](https://github.com/isaacs/readable-stream)
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>
readable-stream@2.0.6
URL: [git://github.com/nodejs/readable-stream](https://github.com/nodejs/readable-stream)
readable-stream@2.3.6
URL: [git://github.com/nodejs/readable-stream](https://github.com/nodejs/readable-stream)
readline2@0.1.1
URL: <https://github.com/SBoudrias/readline2.git>
VendorName: Simon Boudrias
recast@0.10.33
URL: [git://github.com/benjamn/recast.git](https://github.com/benjamn/recast.git)
VendorName: Ben Newman
VendorUrl: [http://github.com/benjamn/recast](https://github.com/benjamn/recast)
recast@0.10.43
URL: [git://github.com/benjamn/recast.git](https://github.com/benjamn/recast.git)
VendorName: Ben Newman
VendorUrl: [http://github.com/benjamn/recast](https://github.com/benjamn/recast)
recast@0.11.23
URL: [git://github.com/benjamn/recast.git](https://github.com/benjamn/recast.git)
VendorName: Ben Newman
VendorUrl: [http://github.com/benjamn/recast](https://github.com/benjamn/recast)
redent@1.0.0
URL: <https://github.com/sindresorhus/redent.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
redeyed@0.5.0
URL: [git://github.com/thlorenz/redeyed.git](https://github.com/thlorenz/redeyed.git)
VendorName: Thorsten Lorenz
VendorUrl: thlorenz.com
regenerate@1.4.0
URL: <https://github.com/mathiasbynens/regenerate.git>
VendorName: Mathias Bynens
VendorUrl: <https://mths.be/regenerate>
regex-cache@0.4.4
URL: <https://github.com/jonschlinkert/regex-cache.git>

VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/regex-cache>
regexpu@1.3.0
URL: <https://github.com/mathiasbynens/regexpu.git>
VendorName: Mathias Bynens
VendorUrl: <https://mths.be/regexpu>
regjsngen@0.2.0
URL: <https://github.com/d10/regjsngen.git>
VendorName: Benjamin Tan
VendorUrl: <https://github.com/d10/regjsngen>
repeat-element@1.1.3
URL: <https://github.com/jonschlinkert/repeat-element.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/repeat-element>
repeat-string@1.6.1
URL: <https://github.com/jonschlinkert/repeat-string.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/repeat-string>
repeating@1.1.3
URL: <https://github.com/sindresorhus/repeating.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
repeating@2.0.1
URL: <https://github.com/sindresorhus/repeating.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
request-progress@2.0.1
URL: <git://github.com/IndigoUnited/node-request-progress>
VendorName: IndigoUnited
VendorUrl: <http://indigounited.com>
require-directory@2.1.1
URL: <git://github.com/troygoode/node-require-directory.git>
VendorName: Troy Goode
VendorUrl: <https://github.com/troygoode/node-require-directory/>
requires-port@1.0.0
URL: <https://github.com/unshiftio/requires-port>
VendorName: Arnout Kazemier
VendorUrl: <https://github.com/unshiftio/requires-port>
resolve-package-path@1.2.7
resolve@1.14.1
URL: <git://github.com/browserify/resolve.git>
VendorName: James Halliday
VendorUrl: <http://substack.net>
retry@0.8.0
URL: <git://github.com/tim-kos/node-retry.git>
VendorName: Tim Koschitzki
VendorUrl: <https://github.com/tim-kos/node-retry>
right-align@0.1.3

URL: [git://github.com/jonschlinkert/right-align.git](https://github.com/jonschlinkert/right-align.git)
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/right-align>
rimraf@2.2.8
URL: [git://github.com/isaacs/rimraf.git](https://github.com/isaacs/rimraf.git)
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>
rsvp@3.0.21
URL: <https://github.com/tildeio/rsvp.js.git>
VendorName: Tilde, Inc. & Stefan Penner
rsvp@3.2.1
URL: <https://github.com/tildeio/rsvp.js.git>
VendorName: Tilde, Inc. & Stefan Penner
rsvp@3.6.2
URL: <https://github.com/tildeio/rsvp.js.git>
VendorName: Tilde, Inc. & Stefan Penner
rsvp@4.8.5
URL: <https://github.com/tildeio/rsvp.js.git>
VendorName: Tilde, Inc. & Stefan Penner
VendorUrl: <https://github.com/tildeio/rsvp.js>
safe-buffer@5.1.2
URL: [git://github.com/feross/safe-buffer.git](https://github.com/feross/safe-buffer.git)
VendorName: Feross Aboukhadijeh
VendorUrl: <https://github.com/feross/safe-buffer>
safe-buffer@5.2.0
URL: [git://github.com/feross/safe-buffer.git](https://github.com/feross/safe-buffer.git)
VendorName: Feross Aboukhadijeh
VendorUrl: <https://github.com/feross/safe-buffer>
safer-buffer@2.1.2
URL: [git+https://github.com/ChALkeR/safer-buffer.git](https://github.com/ChALkeR/safer-buffer.git)
VendorName: Nikita Skovoroda
VendorUrl: <https://github.com/ChALkeR>
sane@1.7.0
URL: <https://github.com/amasad/sane>
VendorName: amasad
VendorUrl: <https://github.com/amasad/sane>
sass-graph@2.2.4
URL: <https://github.com/xzyfer/sass-graph.git>
VendorName: xzyfer
scss-tokenizer@0.2.3
URL: <https://github.com/sasstools/scss-tokenizer.git>
VendorName: xzyfer
VendorUrl: <https://github.com/sasstools/scss-tokenizer>
select2@4.0.0
URL: [git://github.com/select2/select2.git](https://github.com/select2/select2.git)
VendorName: Kevin Brown
VendorUrl: <https://select2.github.io/>
send@0.17.1

URL: <https://github.com/pillarjs/send.git>
VendorName: TJ Holowaychuk
serve-static@1.14.1
URL: <https://github.com/expressjs/serve-static.git>
VendorName: Douglas Christopher Wilson
shebang-regex@1.0.0
URL: <https://github.com/sindresorhus/shebang-regex.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
simple-fmt@0.1.0
URL: <https://github.com/olov/simple-fmt.git>
VendorName: Olov Lassus
simple-is@0.2.0
URL: <https://github.com/olov/simple-is.git>
VendorName: Olov Lassus
slash@1.0.0
URL: <https://github.com/sindresorhus/slash.git>
VendorName: Sindre Sorhus
VendorUrl: <http://sindresorhus.com>
socket.io-client-pure@1.3.12
URL: <https://github.com/Automattic/socket.io-client.git>
socket.io-parser@2.2.2
URL: <https://github.com/Automattic/socket.io-parser.git>
socket.io-parser@2.2.4
URL: <https://github.com/Automattic/socket.io-parser.git>
socket.io-pure@1.3.12
URL: <https://github.com/Automattic/socket.io>
source-map-support@0.2.10
URL: <https://github.com/evanw/node-source-map-support>
source-map-url@0.3.0
URL: <https://github.com/lydell/source-map-url.git>
VendorName: Simon Lydell
spawnback@1.0.0
URL: [git://github.com/scottgonzalez/spawnback.git](https://github.com/scottgonzalez/spawnback.git)
VendorName: Scott Gonzlez
VendorUrl: <https://github.com/scottgonzalez/spawnback>
spdx-expression-parse@3.0.0
URL: <https://github.com/jslicense/spdx-expression-parse.js.git>
VendorName: Kyle E. Mitchell
VendorUrl: <http://kemitchell.com>
sri-toolbox@0.2.0
URL: <https://github.com/neftaly/npm-sri-toolbox.git>
VendorName: Neftaly Hernandez
sshp@1.16.1
URL: [git+https://github.com/joyent/node-sshp.git](https://github.com/joyent/node-sshp.git)
VendorName: Joyent, Inc
VendorUrl: <https://github.com/arekinath/node-sshp#readme>
stable@0.1.8

URL: <https://github.com/Two-Screen/stable.git>
VendorName: Angry Bytes
statuses@1.5.0
URL: <https://github.com/jshttp/statuses.git>
stdout-stream@1.4.1
URL: <https://github.com/mafintosh/stdout-stream.git>
string_decoder@0.10.31
URL: [git://github.com/rvagg/string_decoder.git](https://github.com/rvagg/string_decoder.git)
VendorUrl: https://github.com/rvagg/string_decoder
string_decoder@1.1.1
URL: [git://github.com/nodejs/string_decoder.git](https://github.com/nodejs/string_decoder.git)
VendorUrl: https://github.com/nodejs/string_decoder
string-width@1.0.2
URL: <https://github.com/sindresorhus/string-width.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
string-width@2.1.1
URL: <https://github.com/sindresorhus/string-width.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
string.prototype.endsWith@0.2.0
URL: <https://github.com/mathiasbynens/String.prototype.endsWith.git>
VendorName: Mathias Bynens
VendorUrl: <http://mths.be/endsWith>
stringmap@0.2.2
URL: <https://github.com/olov/stringmap.git>
VendorName: Olov Lassus
stringset@0.2.1
URL: <https://github.com/olov/stringset.git>
VendorName: Olov Lassus
stringstream@0.0.6
URL: <https://github.com/mhart/StringStream.git>
VendorName: Michael Hart
VendorUrl: <http://github.com/mhart>
strip-ansi@0.1.1
URL: <https://github.com/sindresorhus/strip-ansi.git>
VendorName: Sindre Sorhus
VendorUrl: <http://sindresorhus.com>
strip-ansi@0.3.0
URL: <https://github.com/sindresorhus/strip-ansi.git>
VendorName: Sindre Sorhus
VendorUrl: <http://sindresorhus.com>
strip-ansi@2.0.1
URL: <https://github.com/sindresorhus/strip-ansi.git>
VendorName: Sindre Sorhus
VendorUrl: <http://sindresorhus.com>
strip-ansi@3.0.1
URL: <https://github.com/chalk/strip-ansi.git>

VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
strip-ansi@4.0.0
URL: <https://github.com/chalk/strip-ansi.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
strip-bom@2.0.0
URL: <https://github.com/sindresorhus/strip-bom.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
strip-indent@1.0.1
URL: <https://github.com/sindresorhus/strip-indent.git>
VendorName: Sindre Sorhus
VendorUrl: <http://sindresorhus.com>
strip-json-comments@1.0.4
URL: <https://github.com/sindresorhus/strip-json-comments.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
styled_string@0.0.1
VendorName: Toby Ho
supports-color@0.2.0
URL: <https://github.com/sindresorhus/supports-color.git>
VendorName: Sindre Sorhus
VendorUrl: <http://sindresorhus.com>
supports-color@2.0.0
URL: <https://github.com/chalk/supports-color.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
supports-color@5.5.0
URL: <https://github.com/chalk/supports-color.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
symlink-or-copy@1.3.1
URL: <https://github.com/broccolijs/node-symlink-or-copy>
VendorName: Jo Liss
tap-parser@1.3.2
URL: <git://github.com/substack/tap-parser.git>
VendorName: James Halliday
VendorUrl: <https://github.com/substack/tap-parser>
temp@0.8.1
URL: <git://github.com/bruce/node-temp.git>
VendorName: Bruce Williams
testem@0.9.11
URL: <git://github.com/airportyh/testem.git>
VendorName: Toby Ho
text-table@0.2.0
URL: <git://github.com/substack/text-table.git>
VendorName: James Halliday

VendorUrl: <https://github.com/substack/text-table>
textextensions@2.6.0
URL: <https://github.com/bevry/textextensions.git>
VendorName: 2013+ Bevry Pty Ltd
VendorUrl: <https://github.com/bevry/textextensions>
throttleit@1.0.0
URL: <git://github.com/component/throttle.git>
through@2.3.8
URL: <https://github.com/dominictarr/through.git>
VendorName: Dominic Tarr
VendorUrl: <https://github.com/dominictarr/through>
tiny-lr@0.2.0
URL: <git://github.com/mkllabs/tiny-lr.git>
VendorName: mkllabs
VendorUrl: <https://github.com/mkllabs/tiny-lr>
tmp@0.0.28
URL: <git://github.com/raszi/node-tmp.git>
VendorName: KARASZI Istvn
VendorUrl: <http://github.com/raszi/node-tmp>
to-array@0.1.3
URL: <git://github.com/Raynos/to-array.git>
VendorName: Raynos
VendorUrl: <https://github.com/Raynos/to-array>
to-fast-properties@1.0.3
URL: <https://github.com/sindresorhus/to-fast-properties.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
toidentifier@1.0.0
URL: <https://github.com/component/toidentifier.git>
VendorName: Douglas Christopher Wilson
trim-newlines@1.0.0
URL: <https://github.com/sindresorhus/trim-newlines.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
trim-right@1.0.1
URL: <https://github.com/sindresorhus/trim-right.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
try-resolve@1.0.1
URL: <https://github.com/sebmck/try-resolve.git>
VendorName: Sebastian McKenzie
tryor@0.1.2
URL: <https://github.com/olov/tryor.git>
VendorName: Olov Lassus
type-is@1.6.18
URL: <https://github.com/jshttp/type-is.git>
typedarray@0.0.6
URL: <git://github.com/substack/typedarray.git>

VendorName: James Halliday
VendorUrl: <https://github.com/substack/typedarray>
uc.micro@1.0.6
URL: <https://github.com/markdown-it/uc.micro.git>
uglify-to-browserify@1.0.2
URL: <https://github.com/ForbesLindesay/uglify-to-browserify.git>
VendorName: ForbesLindesay
ultron@1.0.2
URL: <https://github.com/unshiftio/ultron>
VendorName: Arnout Kazemier
VendorUrl: <https://github.com/unshiftio/ultron>
umask@1.1.0
URL: <https://github.com/smikes/umask.git>
VendorName: Sam Mikes
VendorUrl: <https://github.com/smikes/umask>
underscore.string@2.3.3
URL: <https://github.com/epeli/underscore.string.git>
VendorUrl: <http://epeli.github.com/underscore.string/>
underscore.string@3.3.5
URL: <https://github.com/epeli/underscore.string.git>
VendorUrl: <http://epeli.github.com/underscore.string/>
underscore@1.9.1
URL: <git://github.com/jashkenas/underscore.git>
VendorName: Jeremy Ashkenas
VendorUrl: <http://underscorejs.org/>
universalify@0.1.2
URL: <git+https://github.com/RyanZim/universalify.git>
VendorName: Ryan Zimmerman
VendorUrl: <https://github.com/RyanZim/universalify#readme>
unpipe@1.0.0
URL: <https://github.com/stream-utils/unpipe.git>
VendorName: Douglas Christopher Wilson
user-home@1.1.1
URL: <https://github.com/sindresorhus/user-home.git>
VendorName: Sindre Sorhus
VendorUrl: <http://sindresorhus.com>
username-sync@1.0.2
URL: <git@github.com:stefanpenner/username-sync>
VendorName: Stefan Penner
utf8@2.1.0
URL: <https://github.com/mathiasbynens/utf8.js.git>
VendorName: Mathias Bynens
VendorUrl: <https://mths.be/utf8js>
util-deprecate@1.0.2
URL: <git://github.com/TooTallNate/util-deprecate.git>
VendorName: Nathan Rajlich
VendorUrl: <https://github.com/TooTallNate/util-deprecate>
util-extend@1.0.3

URL: [git://github.com/isaacs/util-extend](https://github.com/isaacs/util-extend)
utils-merge@1.0.1
URL: [git://github.com/jaredhanson/utis-merge.git](https://github.com/jaredhanson/utis-merge.git)
VendorName: Jared Hanson
VendorUrl: <http://www.jaredhanson.net/>
uuid@2.0.3
URL: <https://github.com/defunctzombie/node-uuid.git>
VendorName: Robert Kieffer
uuid@3.3.3
URL: <https://github.com/kelektiv/node-uuid.git>
vary@1.1.2
URL: <https://github.com/jshttp/vary.git>
VendorName: Douglas Christopher Wilson
verror@1.10.0
URL: [git://github.com/davepacheco/node-verror.git](https://github.com/davepacheco/node-verror.git)
walk-sync@0.1.3
URL: <https://github.com/joliss/node-walk-sync>
VendorName: Jo Liss
walk-sync@0.2.7
URL: <https://github.com/joliss/node-walk-sync>
VendorName: Jo Liss
walk-sync@0.3.4
URL: <https://github.com/joliss/node-walk-sync>
VendorName: Jo Liss
wewidth@1.0.1
URL: [git+https://github.com/timoxley/wewidth.git](https://github.com/timoxley/wewidth.git)
VendorName: Tim Oxley
VendorUrl: <https://github.com/timoxley/wewidth#readme>
websocket-extensions@0.1.3
URL: [git://github.com/faye/websocket-extensions-node.git](https://github.com/faye/websocket-extensions-node.git)
VendorName: James Coglan
VendorUrl: <http://github.com/faye/websocket-extensions-node>
window-size@0.1.0
URL: <https://github.com/jonschlinkert/window-size.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/window-size>
window-size@0.1.4
URL: <https://github.com/jonschlinkert/window-size.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/window-size>
wordwrap@0.0.2
URL: [git://github.com/substack/node-wordwrap.git](https://github.com/substack/node-wordwrap.git)
VendorName: James Halliday
VendorUrl: <http://substack.net>
wordwrap@0.0.3
URL: [git://github.com/substack/node-wordwrap.git](https://github.com/substack/node-wordwrap.git)
VendorName: James Halliday
VendorUrl: <http://substack.net>

wrap-ansi@2.1.0
URL: <https://github.com/chalk/wrap-ansi.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

ws-pure@0.8.0
URL: <git://github.com/patocallaghan/ws.git>
VendorName: Pat O'Callaghan

xdg-basedir@2.0.0
URL: <https://github.com/sindresorhus/xdg-basedir.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

xmlhttprequest-ssl@1.5.1
URL: <git://github.com/mjwwit/node-XMLHttpRequest.git>
VendorName: Michael de Wit

xtend@4.0.2
URL: <git://github.com/Raynos/xtend.git>
VendorName: Raynos
VendorUrl: <https://github.com/Raynos/xtend>

yam@0.0.18
URL: <https://github.com/twokul/yam>
VendorName: Alex Navasardyan
VendorUrl: <http://twokul.io>

yargs@3.10.0
URL: <http://github.com/bcoe/yargs.git>
VendorName: Alex Ford
VendorUrl: <http://CodeTunnel.com>

yargs@3.27.0
URL: <http://github.com/bcoe/yargs.git>
VendorName: Alex Ford
VendorUrl: <http://CodeTunnel.com>

yargs@7.1.0
URL: <http://github.com/yargs/yargs.git>
VendorUrl: <http://yargs.js.org/>

yauzl@2.4.1
URL: <https://github.com/thejoshwolfe/yauzl.git>
VendorName: Josh Wolfe
VendorUrl: <https://github.com/thejoshwolfe/yauzl>

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after@0.8.1
URL: <git://github.com/Raynos/after.git>
VendorName: Raynos

assert-plus@0.1.5
URL: <https://github.com/mcavage/node-assert-plus.git>
VendorName: Mark Cavage

async-foreach@0.1.3
URL: <git://github.com/cowboy/javascript-sync-async-foreach.git>
VendorName: "Cowboy" Ben Alman
VendorUrl: <http://github.com/cowboy/javascript-sync-async-foreach>

blob@0.0.4

URL: [git@github.com:rase-/blob.git](https://github.com/rase-/blob.git)

VendorUrl: <https://github.com/rase-/blob>

callsite@1.0.0

VendorName: TJ Holowaychuk

component-bind@1.0.0

URL: <https://github.com/component/bind.git>

component-emitter@1.1.2

URL: <https://github.com/component/emitter.git>

component-inherit@0.0.3

URL: <https://github.com/component/inherit.git>

engine.io-client-pure@1.5.9

URL: <https://github.com/Automattic/engine.io-client.git>

VendorUrl: <http://socket.io/>

git-tools@0.1.4

URL: [git://github.com/scottgonzalez/node-git-tools.git](https://github.com/scottgonzalez/node-git-tools.git)

VendorName: Scott Gonzalez

VendorUrl: <https://github.com/scottgonzalez/node-git-tools>

indexOf@0.0.1

ms@0.6.2

URL: [git://github.com/guille/ms.js.git](https://github.com/guille/ms.js.git)

object-component@0.0.3

socket.io-adapter@0.3.1

URL: [git://github.com/Automattic/socket.io-adapter.git](https://github.com/Automattic/socket.io-adapter.git)

Public Domain

jsonify@0.0.0

URL: [http://github.com/substack/jsonify.git](https://github.com/substack/jsonify.git)

VendorName: Douglas Crockford

VendorUrl: <http://crockford.com/>

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sntp@1.0.9

URL: [git://github.com/hueniverse/sntp](https://github.com/hueniverse/sntp)

VendorName: Eran Hammer

VendorUrl: <http://hueniverse.com>

UNKNOWN

base64id@0.1.0

URL: <https://github.com/faeldt/base64id.git>

VendorName: Kristian Faeldt

colors@0.6.2

URL: [http://github.com/Marak/colors.js.git](https://github.com/Marak/colors.js.git)

VendorName: Marak Squires

VendorUrl: <https://github.com/Marak/colors.js>

Unlicense

spdx-license-ids@1.2.2

URL: <https://github.com/shinnn/spdx-license-ids.git>

VendorName: Shinnosuke Watanabe

VendorUrl: <https://github.com/shinnn>

tweetnacl@0.14.5

URL: <https://github.com/dchest/tweetnacl-js.git>

VendorName: TweetNaCl-js contributors

VendorUrl: <https://tweetnacl.js.org/>

WTFPL

sorted-object@1.0.0

URL: <git://github.com/domenic/sorted-object.git>

VendorName: Domenic Denicola

VendorUrl: <http://domenic.me/>

WTFPL OR ISC

is-integer@1.0.7

URL: <git://github.com:parshap/js-is-integer>

VendorName: Parsha Pourkhomami

Done in 0.84s.

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src/test/resources/CSVFileParser/test_rfc4180.txt

src/test/resources/CSVFileParser/test_rfc4180_trim.txt

src/test/resources/CSVFileParser/testCSV85.csv

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

* javax.servlet:javax.servlet-api

* javax.annotation:javax.annotation-api

* javax.transaction:javax.transaction-api

* javax.websocket:javax.websocket-api

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* java.sun.security.ssl

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org.ow2.asm:asm-commons

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org.apache.tomcat:tomcat-jasper
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org.apache.tomcat:tomcat-jsp-api
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org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
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org.eclipse.jetty.toolchain:jetty-schemas

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 - * Providing benchmark suite
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jaxb-api

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LZ4 - Fast LZ compression algorithm

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uriparser - RFC 3986 URI parsing library

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hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/datanode/checker/AbstractFuture.java
hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/datanode/checker/TimeoutFuture.java

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hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-client-nativetask/src/main/native/lz4/lz4.{c|h}
hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/native/container-executor/impl/compat/{fstatat|openat|unlinkat}.h

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hadoop-common-project/hadoop-common/src/main/java/org/apache/hadoop/util/bloom/*
hadoop-common-project/hadoop-common/src/main/native/gtest/gtest-all.cc
hadoop-common-project/hadoop-common/src/main/native/gtest/include/gtest/gtest.h
hadoop-common-project/hadoop-common/src/main/native/src/org/apache/hadoop/util/bulk_crc32_x86.c
hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/libhdfspp/third_party/protobuf/cpp_helpers.h
hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/libhdfspp/third_party/gmock-1.7.0/*/*.{cc|h}
hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/d3.v3.js
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/d3-v4.1.1.min.js

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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dust-helpers-1.1.1.min.js
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hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/bootstrap.min.js
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hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/jquery
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/jt/jquery.jstree.js
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/resources/TERMINAL

uriparser2 (hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/libhdfspp/third_party/uriparser2)
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/native/container-executor/impl/utis/cJSON.[ch]

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asio-1.10.2 (hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/libhdfspp/third_party/asio-1.10.2)
rapidxml-1.13 (hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/libhdfspp/third_party/rapidxml-1.13)
tr2 (hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/libhdfspp/third_party/tr2)

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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/json-bignum.js

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*

* Abstract: The main routine

*

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URL: <https://github.com/choffmeister/roboto-fontface-bower.git>

VendorName: Christian Hoffmeister

VendorUrl: <https://github.com/choffmeister/roboto-fontface-bower>

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entities@1.1.2

URL: <git://github.com/fb55/entities.git>

VendorName: Felix Boehm

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shelljs@0.2.6

URL: <git://github.com/arturadib/shelljs.git>

VendorName: Artur Adib

VendorUrl: <http://github.com/arturadib/shelljs>

sprintf-js@1.0.3

URL: <https://github.com/alexei/sprintf.js.git>

VendorName: Alexandru Marasteanu

VendorUrl: <http://alexei.ro/>

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fs.realpath@1.0.0

URL: <git+https://github.com/isaacs/fs.realpath.git>

VendorName: Isaac Z. Schlueter

VendorUrl: <http://blog.izs.me/>

glob@7.1.6

URL: <git://github.com/isaacs/node-glob.git>

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graceful-fs@4.2.4

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inherits@2.0.4

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URL: [git://github.com/isaacs/once](https://github.com/isaacs/once)

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semver@5.3.0

URL: <https://github.com/npm/node-semver>

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URL: <https://github.com/npm/wrappy>

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angular-loader@1.6.10

URL: <https://github.com/angular/angular.js.git>

VendorName: Angular Core Team

VendorUrl: <http://angularjs.org/>

angular-mocks@1.6.10

URL: <https://github.com/angular/angular.js.git>

VendorName: Angular Core Team

VendorUrl: <http://angularjs.org/>

angular-route@1.6.10

URL: <https://github.com/angular/angular.js.git>

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VendorName: Angular Core Team

VendorUrl: <http://angularjs.org/>

apidoc-core@0.8.3

URL: <https://github.com/apidoc/apidoc-core.git>

VendorName: Peter Rottmann

VendorUrl: <https://github.com/apidoc/apidoc-core>

apidoc@0.17.7

URL: <https://github.com/apidoc/apidoc.git>

VendorName: Peter Rottmann

VendorUrl: <http://apidocjs.com/>

argparse@1.0.10

URL: <https://github.com/nodeca/argparse.git>

async@2.6.3

URL: <https://github.com/caolan/async.git>

VendorName: Caolan McMahon

VendorUrl: <https://caolan.github.io/async/>

balanced-match@1.0.0

URL: [git://github.com/juliangruber/balanced-match.git](https://github.com/juliangruber/balanced-match.git)

VendorName: Julian Gruber

VendorUrl: <https://github.com/juliangruber/balanced-match>

bootstrap@3.3.7

URL: <https://github.com/twbs/bootstrap.git>

VendorName: Twitter, Inc.

VendorUrl: <http://getbootstrap.com/>
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URL: <git://github.com/juliangruber/brace-expansion.git>
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VendorUrl: <https://github.com/dfcreative/color-name>
color-name@1.1.4
URL: <git@github.com:colorjs/color-name.git>
VendorName: DY
VendorUrl: <https://github.com/colorjs/color-name>
color-string@1.5.3
URL: <https://github.com/Qix-/color-string.git>
VendorName: Heather Arthur
color@3.0.0
URL: <https://github.com/Qix-/color.git>
colornames@1.1.1
URL: <git://github.com/timoxley/colornames.git>
VendorName: Tim Oxley
VendorUrl: <https://github.com/timoxley/colornames#readme>
colors@1.4.0
URL: <http://github.com/Marak/colors.js.git>
VendorName: Marak Squires
VendorUrl: <https://github.com/Marak/colors.js>
colorspace@1.1.2
URL: <https://github.com/3rd-Eden/colorspace>
VendorName: Arnout Kazemier
VendorUrl: <https://github.com/3rd-Eden/colorspace>
commander@2.20.3
URL: <https://github.com/tj/commander.js.git>
VendorName: TJ Holowaychuk
concat-map@0.0.1
URL: <git://github.com/substack/node-concat-map.git>
VendorName: James Halliday
VendorUrl: <http://substack.net>
core-util-is@1.0.2
URL: <git://github.com/isaacs/core-util-is>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>
diagnostics@1.1.1
URL: <git://github.com/bigpipe/diagnostics.git>
VendorName: Arnout Kazemier
VendorUrl: <https://github.com/bigpipe/diagnostics>

enabled@1.0.2

URL: [git://github.com/bigpipe/enabled.git](https://github.com/bigpipe/enabled.git)

VendorName: Arnout Kazemier

env-variable@0.0.6

URL: <https://github.com/3rd-Eden/env-variable>

VendorName: Arnout Kazemier

VendorUrl: <https://github.com/3rd-Eden/env-variable>

fast-safe-stringify@2.0.7

URL: [git+https://github.com/davidmarkclements/fast-safe-stringify.git](https://github.com/davidmarkclements/fast-safe-stringify.git)

VendorName: David Mark Clements

VendorUrl: <https://github.com/davidmarkclements/fast-safe-stringify#readme>

fecha@2.3.3

URL: <https://github.com/taylorhakes/fecha.git>

VendorName: Taylor Hakes

VendorUrl: <https://github.com/taylorhakes/fecha>

fs-extra@3.0.1

URL: <https://github.com/jprichardson/node-fs-extra>

VendorName: JP Richardson

VendorUrl: <https://github.com/jprichardson/node-fs-extra>

fs-extra@7.0.1

URL: <https://github.com/jprichardson/node-fs-extra>

VendorName: JP Richardson

VendorUrl: <https://github.com/jprichardson/node-fs-extra>

iconv-lite@0.4.24

URL: [git://github.com/ashtuchkin/iconv-lite.git](https://github.com/ashtuchkin/iconv-lite.git)

VendorName: Alexander Shtuchkin

VendorUrl: <https://github.com/ashtuchkin/iconv-lite>

is-arrayish@0.3.2

URL: <https://github.com/qix-/node-is-arrayish.git>

VendorName: Qix

VendorUrl: <http://github.com/qix->

is-stream@1.1.0

URL: <https://github.com/sindresorhus/is-stream.git>

VendorName: Sindre Sorhus

VendorUrl: sindresorhus.com

isarray@1.0.0

URL: [git://github.com/juliangruber/isarray.git](https://github.com/juliangruber/isarray.git)

VendorName: Julian Gruber

VendorUrl: <https://github.com/juliangruber/isarray>

jquery@3.3.1

URL: <https://github.com/jquery/jquery.git>

VendorName: JS Foundation and other contributors

VendorUrl: <https://jquery.com/>

jsonfile@3.0.1

URL: [git@github.com:jprichardson/node-jsonfile.git](https://github.com/jprichardson/node-jsonfile.git)

VendorName: JP Richardson

jsonfile@4.0.0

URL: [git@github.com:jprichardson/node-jsonfile.git](https://github.com/jprichardson/node-jsonfile.git)

VendorName: JP Richardson
klaw-sync@2.1.0
URL: git+https://github.com/manidlou/node-klaw-sync.git
VendorName: Mani Maghsoudlou
VendorUrl: https://github.com/manidlou/node-klaw-sync#readme
kuler@1.0.1
URL: https://github.com/3rd-Eden/kuler
VendorName: Arnout Kazemier
VendorUrl: https://github.com/3rd-Eden/kuler
linkify-it@2.2.0
URL: https://github.com/markdown-it/linkify-it.git
lodash@4.17.15
URL: https://github.com/lodash/lodash.git
VendorName: John-David Dalton
VendorUrl: https://lodash.com/
logform@2.1.2
URL: git+https://github.com/winstonjs/logform.git
VendorName: Charlie Robbins
VendorUrl: https://github.com/winstonjs/logform#readme
markdown-it@8.4.2
URL: https://github.com/markdown-it/markdown-it.git
mdurl@1.0.1
URL: https://github.com/markdown-it/mdurl.git
ms@2.1.2
URL: https://github.com/zeit/ms.git
one-time@0.0.4
URL: https://github.com/unshiftio/one-time
VendorName: Arnout Kazemier
path-is-absolute@1.0.1
URL: https://github.com/sindresorhus/path-is-absolute.git
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
process-nextick-args@2.0.1
URL: https://github.com/calvinmetcalf/process-nextick-args.git
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readable-stream@2.3.7
URL: git://github.com/nodejs/readable-stream
readable-stream@3.6.0
URL: git://github.com/nodejs/readable-stream
requirejs@2.3.6
URL: https://github.com/jrburke/r.js.git
VendorName: James Burke
VendorUrl: http://github.com/jrburke/r.js
safe-buffer@5.1.2
URL: git://github.com/feross/safe-buffer.git
VendorName: Feross Aboukhadijeh
VendorUrl: https://github.com/feross/safe-buffer
safe-buffer@5.2.0

URL: [git://github.com/feross/safe-buffer.git](https://github.com/feross/safe-buffer.git)
VendorName: Feross Aboukhadijeh
VendorUrl: <https://github.com/feross/safe-buffer>
safer-buffer@2.1.2
URL: [git+https://github.com/ChALkeR/safer-buffer.git](https://github.com/ChALkeR/safer-buffer.git)
VendorName: Nikita Skovoroda
VendorUrl: <https://github.com/ChALkeR>
simple-swizzle@0.2.2
URL: <https://github.com/qix-/node-simple-swizzle.git>
VendorName: Qix
VendorUrl: <http://github.com/qix->
stack-trace@0.0.10
URL: [git://github.com/felixge/node-stack-trace.git](https://github.com/felixge/node-stack-trace.git)
VendorName: Felix Geisendrfer
VendorUrl: <https://github.com/felixge/node-stack-trace>
string_decoder@1.1.1
URL: [git://github.com/nodejs/string_decoder.git](https://github.com/nodejs/string_decoder.git)
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string_decoder@1.3.0
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VendorUrl: https://github.com/nodejs/string_decoder
text-hex@1.0.0
URL: <https://github.com/3rd-Eden/text-hex>
VendorName: Arnout Kazemier
VendorUrl: <https://github.com/3rd-Eden/text-hex>
triple-beam@1.3.0
URL: [git+https://github.com/winstonjs/triple-beam.git](https://github.com/winstonjs/triple-beam.git)
VendorName: Charlie Robbins
VendorUrl: <https://github.com/winstonjs/triple-beam#readme>
uc.micro@1.0.6
URL: <https://github.com/markdown-it/uc.micro.git>
universalify@0.1.2
URL: [git+https://github.com/RyanZim/universalify.git](https://github.com/RyanZim/universalify.git)
VendorName: Ryan Zimmerman
VendorUrl: <https://github.com/RyanZim/universalify#readme>
util-deprecate@1.0.2
URL: [git://github.com/TooTallNate/util-deprecate.git](https://github.com/TooTallNate/util-deprecate.git)
VendorName: Nathan Rajlich
VendorUrl: <https://github.com/TooTallNate/util-deprecate>
winston-transport@4.3.0
URL: [git@github.com:winstonjs/winston-transport.git](https://github.com/winstonjs/winston-transport.git)
VendorName: Charlie Robbins
VendorUrl: <https://github.com/winstonjs/winston-transport#readme>
winston@3.2.1
URL: <https://github.com/winstonjs/winston.git>
VendorName: Charlie Robbins

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ASM: a very small and fast Java bytecode manipulation framework

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hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/datanode/checker/TimeoutFuture.java

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log4j:log4j:1.2.17
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org.eclipse.jetty:jetty-server:9.4.40.v20210413
org.eclipse.jetty:jetty-servlet:9.4.40.v20210413
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org.eclipse.jetty.websocket:javax-websocket-client-impl:9.4.40.v20210413
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org.eclipse.jetty.websocket:websocket-common:9.4.40.v20210413
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org.ehcache:ehcache:3.3.1
org.lz4:lz4-java:1.7.1
org.objenesis:objenesis:2.6
org.xerial.snappy:snappy-java:1.1.8.2
org.yaml:snakeyaml:1.26
org.wildfly.openssl:wildfly-openssl:1.0.7.Final

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hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-client-nativetask/src/main/native/lz4/lz4.{c|h}
hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/native/container-executor/impl/compat/{fstata|openat|unlinkat}.h

com.github.luben:zstd-jni:1.4.3-1
dnsjava:dnsjava:2.1.7
org.codehaus.woodstox:stax2-api:4.2.1

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hadoop-common-project/hadoop-common/src/main/java/org/apache/hadoop/util/bloom/*
hadoop-common-project/hadoop-common/src/main/native/gtest/gtest-all.cc
hadoop-common-project/hadoop-common/src/main/native/gtest/include/gtest/gtest.h
hadoop-common-project/hadoop-common/src/main/native/src/org/apache/hadoop/util/bulk_crc32_x86.c
hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/libhdfspp/third_party/protobuf/protobuf/cpp_helpers.h
hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/libhdfspp/third_party/gmock-1.7.0/*/*.{cc|h}
hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/d3.v3.js
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/d3-v4.1.1.min.js
leveldb v1.13

com.google.protobuf:protobuf-java:2.5.0
com.google.protobuf:protobuf-java:3.6.1
com.google.protobuf:protobuf-java:3.7.1
com.google.re2j:re2j:1.1
com.jcraft:jsch:0.1.55
com.thoughtworks.paranamer:paranamer:2.3
jakarta.activation:jakarta.activation-api:1.2.1
org.fusesource.leveldbjni:leveldbjni-all:1.8
org.jline:jline:3.9.0
org.hamcrest:hamcrest-core:1.3
org.ow2.asm:asm:5.0.4
org.ow2.asm:asm-analysis:9.0
org.ow2.asm:asm-commons:9.0
org.ow2.asm:asm-tree:9.0

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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/bootstrap-3.4.1
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hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/resources/TERMINAL

uriparser2 (hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/libhdfspp/third_party/uriparser2)

com.microsoft.azure:azure-cosmosdb:2.4.5
com.microsoft.azure:azure-cosmosdb-commons:2.4.5
com.microsoft.azure:azure-cosmosdb-direct:2.4.5
com.microsoft.azure:azure-cosmosdb-gateway:2.4.5
com.microsoft.azure:azure-data-lake-store-sdk:2.3.9
com.microsoft.azure:azure-keyvault-core:1.0.0

com.microsoft.sqlserver:mssql-jdbc:6.2.1.jre7
org.bouncycastle:bcpkix-jdk15on:1.60
org.bouncycastle:bcprov-jdk15on:1.60
org.checkerframework:checker-qual:2.5.2
org.checkerframework:checker-qual:3.8.0
org.codehaus.mojo:animal-sniffer-annotations:1.17
org.jruby.jcodings:jcodings:1.0.13
org.jruby.joni:joni:2.1.2
org.ojalgo:ojalgo:43.0
org.slf4j:jul-to-slf4j:1.7.30
org.slf4j:slf4j-api:1.7.30
org.slf4j:slf4j-log4j12:1.7.30

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com.sun.jersey:jersey-client:1.19
com.sun.jersey:jersey-core:1.19
com.sun.jersey:jersey-guice:1.19
com.sun.jersey:jersey-json:1.19
com.sun.jersey:jersey-server:1.19
com.sun.jersey:jersey-servlet:1.19
com.sun.xml.bind:jaxb-impl:2.2.3-1
javax.annotation:javax.annotation-api:1.3.2
javax.servlet:javax.servlet-api:3.1.0
javax.servlet.jsp:jsp-api:2.1
javax.websocket:javax.websocket-api:1.0
javax.websocket:javax.websocket-client-api:1.0
javax.ws.rs:jsr311-api:1.1.1
javax.xml.bind:jaxb-api:2.2.11

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junit:junit:4.13.1

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jakarta.xml.bind:jakarta.xml.bind-api:2.3.2

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asio-1.10.2 (hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/libhdfspp/third_party/asio-1.10.2)
rapidxml-1.13 (hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/libhdfspp/third_party/rapidxml-1.13)
tr2 (hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/libhdfspp/third_party/tr2)

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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/json-bignum.js

aopalliance:aopalliance:1.0

See LICENSE-binary-yarn-ui for yarn-managed packages at hadoop-yarn-project/hadoop-yarn/hadoop-yarn-ui/src/main/webapp

See LICENSE-binary-hadoop-yarn-applications-catalog-webapp for yarn-managed packages at hadoop-yarn-project/hadoop-yarn/hadoop-yarn-applications/hadoop-yarn-applications-catalog/hadoop-yarn-applications-catalog-webapp/yarn.lock

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1.143 eclipselink-moxy 2.5.0

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1.144 jackson-dataformat-csv 2.12.3

1.144.1 Available under license :

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1.145 reactive-object-pool 0.1.0.RELEASE

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Jdom-contrib version 1.1.3

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Typical users of this library will not need to depend on this module.

[1] <https://github.com/hunterhacker/jdom/blob/master/LICENSE.txt>

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[2] <https://www.osgeo.org/sites/osgeo.org/files/Page/osgeo-bsd-license.txt>

[3] <https://github.com/geotools/geotools/wiki/JTS-ORA-Contribution>

[4] <https://github.com/geotools/geotools/wiki/JTS-Shapefile-Contribution>

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NekoHTML is a simple HTML scanner and tag balancer that enables
application programmers to parse HTML documents and access the
information using standard XML interfaces. The parser can scan HTML
files and "fix up" many common mistakes that human (and computer)
authors make in writing HTML documents. NekoHTML adds missing parent
elements; automatically closes elements with optional end tags; and can
handle mismatched inline element tags.

NekoHTML is written using the Xerces Native Interface (XNI) that is the

foundation of the Xerces2 implementation. This enables you to use the NekoHTML parser with existing XNI tools without modification or rewriting code.

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jar/javax/servlet/resources/j2ee_web_services_client_1_1.xsd

* /opt/cola/permits/1018922737_1609888333.2/0/servlet-api-2-5-jar/javax/servlet/resources/jsp_2_0.xsd

* /opt/cola/permits/1018922737_1609888333.2/0/servlet-api-2-5-jar/javax/servlet/resources/j2ee_1_4.xsd

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<xsd:enumeration value="CONFIDENTIAL"/>

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Used in: user

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1.148 woodstox 5.3.0

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1.149 btoa 1.2.1

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(1)

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(2)

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1.153 hadoop-mapreduce-client-core 3.3.1

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hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/datanode/checker/AbstractFuture.java
hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/datanode/checker/TimeoutFuture.java

BSD 2-Clause

hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-client-nativetask/src/main/native/lz4/lz4.{c|h}
hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/native/container-executor/impl/compat/{fstatat|openat|unlinkat}.h

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hadoop-common-project/hadoop-common/src/main/java/org/apache/hadoop/util/bloom/*
hadoop-common-project/hadoop-common/src/main/native/gtest/gtest-all.cc
hadoop-common-project/hadoop-common/src/main/native/gtest/include/gtest/gtest.h
hadoop-common-project/hadoop-common/src/main/native/src/org/apache/hadoop/util/bulk_crc32_x86.c
hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/libhdfspp/third_party/protobuf/cpp_helpers.h
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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/d3-v4.1.1.min.js

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hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/dt-1.10.18/*
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/jquery
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/jt/jquery.jstree.js
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/resources/TERMINAL

uriparser2 (hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/libhdfspp/third_party/uriparser2)
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/native/container-executor/impl/utills/cJSON.[ch]

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asio-1.10.2 (hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/libhdfspp/third_party/asio-1.10.2)
rapidxml-1.13 (hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/libhdfspp/third_party/rapidxml-1.13)
tr2 (hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/libhdfspp/third_party/tr2)

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1.154 oauth-2.0-sdk-with-openid-connect-extensions 9.9.1

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1.155 google-gson 2.2.1

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* /opt/cola/permits/1108371885_1639076412.95/0/gson-2-2-1-sources-jar/com/google/gson/LongSerializationPolicy.java
* /opt/cola/permits/1108371885_1639076412.95/0/gson-2-2-1-sources-jar/com/google/gson/JsonStreamParser.java
* /opt/cola/permits/1108371885_1639076412.95/0/gson-2-2-1-sources-jar/com/google/gson/FieldAttributes.java
* /opt/cola/permits/1108371885_1639076412.95/0/gson-2-2-1-sources-jar/com/google/gson/JsonParser.java
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jar/com/google/gson/JsonParseException.java

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* /opt/cola/permits/1108371885_1639076412.95/0/gson-2-2-1-sources-jar/com/google/gson/JsonElement.java

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jar/com/google/gson/FieldNamingStrategy.java
* /opt/cola/permits/1108371885_1639076412.95/0/gson-2-2-1-sources-jar/com/google/gson/annotations/Until.java
* /opt/cola/permits/1108371885_1639076412.95/0/gson-2-2-1-sources-jar/com/google/gson/InstanceCreator.java
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* /opt/cola/permits/1108371885_1639076412.95/0/gson-2-2-1-sources-
jar/com/google/gson/internal/\$Gson\$Types.java
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jar/com/google/gson/JsonSyntaxException.java

* /opt/cola/permits/1108371885_1639076412.95/0/gson-2-2-1-sources-jar/com/google/gson/internal/Streams.java

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* /opt/cola/permits/1108371885_1639076412.95/0/gson-2-2-1-sources-

jar/com/google/gson/internal/bind/TypeAdapters.java

* /opt/cola/permits/1108371885_1639076412.95/0/gson-2-2-1-sources-

jar/com/google/gson/internal/bind/CollectionTypeAdapterFactory.java
* /opt/cola/permits/1108371885_1639076412.95/0/gson-2-2-1-sources-
jar/com/google/gson/internal/bind/ArrayTypeAdapter.java
* /opt/cola/permits/1108371885_1639076412.95/0/gson-2-2-1-sources-
jar/com/google/gson/internal/bind/ObjectTypeAdapter.java
* /opt/cola/permits/1108371885_1639076412.95/0/gson-2-2-1-sources-jar/com/google/gson/TypeAdapter.java
* /opt/cola/permits/1108371885_1639076412.95/0/gson-2-2-1-sources-
jar/com/google/gson/internal/bind/JsonTreeWriter.java
* /opt/cola/permits/1108371885_1639076412.95/0/gson-2-2-1-sources-
jar/com/google/gson/internal/bind/TypeAdapterRuntimeTypeWrapper.java
* /opt/cola/permits/1108371885_1639076412.95/0/gson-2-2-1-sources-
jar/com/google/gson/internal/bind/MapTypeAdapterFactory.java
* /opt/cola/permits/1108371885_1639076412.95/0/gson-2-2-1-sources-
jar/com/google/gson/internal/bind/JsonTreeReader.java
* /opt/cola/permits/1108371885_1639076412.95/0/gson-2-2-1-sources-
jar/com/google/gson/internal/JsonReaderInternalAccess.java
* /opt/cola/permits/1108371885_1639076412.95/0/gson-2-2-1-sources-
jar/com/google/gson/internal/bind/ReflectiveTypeAdapterFactory.java
* /opt/cola/permits/1108371885_1639076412.95/0/gson-2-2-1-sources-
jar/com/google/gson/TypeAdapterFactory.java

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* /opt/cola/permits/1108371885_1639076412.95/0/gson-2-2-1-sources-jar/com/google/gson/stream/JsonScope.java
* /opt/cola/permits/1108371885_1639076412.95/0/gson-2-2-1-sources-
jar/com/google/gson/stream/MalformedJsonException.java
* /opt/cola/permits/1108371885_1639076412.95/0/gson-2-2-1-sources-jar/com/google/gson/stream/JsonReader.java
* /opt/cola/permits/1108371885_1639076412.95/0/gson-2-2-1-sources-jar/com/google/gson/stream/JsonWriter.java

1.156 jackson-databind 2.6.7.2

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1.157 apache-poi 3.10-FINAL

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1.158 jackson-xc 1.9.2

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1.159 java-classmate classmate-1.5.1

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Java ClassMate library was originally written by Tatu Saloranta (tatu.saloranta@iki.fi)

Other developers who have contributed code are:

* Brian Langel

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1.160 apache-httpcomponents-core 4.4.11

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- * /opt/cola/permits/1241104371_1639440521.51/0/jsonassert-1-5-0-sources-jar/org/skyscreamer/jsonassert/comparator/JSONComparator.java
- * /opt/cola/permits/1241104371_1639440521.51/0/jsonassert-1-5-0-sources-jar/org/skyscreamer/jsonassert/ArrayValueMatcher.java
- * /opt/cola/permits/1241104371_1639440521.51/0/jsonassert-1-5-0-sources-jar/org/skyscreamer/jsonassert/comparator/AbstractComparator.java

1.162 d3-dispatch 1.0.6

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1.163 commons-codec 1.3

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Found in path(s):

* /opt/cola/permits/1239609118_1639077028.77/0/commons-codec-1-3-sources-jar/org/apache/commons/codecs/net/package.html

* /opt/cola/permits/1239609118_1639077028.77/0/commons-codec-1-3-sources-jar/org/apache/commons/codec/language/package.html
* /opt/cola/permits/1239609118_1639077028.77/0/commons-codec-1-3-sources-jar/org/apache/commons/codec/binary/package.html
* /opt/cola/permits/1239609118_1639077028.77/0/commons-codec-1-3-sources-jar/org/apache/commons/codec/digest/package.html
* /opt/cola/permits/1239609118_1639077028.77/0/commons-codec-1-3-sources-jar/org/apache/commons/codec/overview.html
* /opt/cola/permits/1239609118_1639077028.77/0/commons-codec-1-3-sources-jar/org/apache/commons/codec/package.html

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* /opt/cola/permits/1239609118_1639077028.77/0/commons-codec-1-3-sources-jar/org/apache/commons/codec/net/RFC1522Codec.java

* /opt/cola/permits/1239609118_1639077028.77/0/commons-codec-1-3-sources-jar/org/apache/commons/codec/StringEncoderComparator.java

* /opt/cola/permits/1239609118_1639077028.77/0/commons-codec-1-3-sources-jar/org/apache/commons/codec/StringEncoder.java

* /opt/cola/permits/1239609118_1639077028.77/0/commons-codec-1-3-sources-jar/org/apache/commons/codec/language/Metaphone.java

* /opt/cola/permits/1239609118_1639077028.77/0/commons-codec-1-3-sources-jar/org/apache/commons/codec/BinaryEncoder.java

* /opt/cola/permits/1239609118_1639077028.77/0/commons-codec-1-3-sources-jar/org/apache/commons/codec/binary/BinaryCodec.java

* /opt/cola/permits/1239609118_1639077028.77/0/commons-codec-1-3-sources-jar/org/apache/commons/codec/net/StringEncodings.java

* /opt/cola/permits/1239609118_1639077028.77/0/commons-codec-1-3-sources-jar/org/apache/commons/codec/Encoder.java

* /opt/cola/permits/1239609118_1639077028.77/0/commons-codec-1-3-sources-

```
jar/org/apache/commons/codec/StringDecoder.java
* /opt/cola/permits/1239609118_1639077028.77/0/commons-codec-1-3-sources-
jar/org/apache/commons/codec/language/RefinedSoundex.java
* /opt/cola/permits/1239609118_1639077028.77/0/commons-codec-1-3-sources-
jar/org/apache/commons/codec/Decoder.java
* /opt/cola/permits/1239609118_1639077028.77/0/commons-codec-1-3-sources-
jar/org/apache/commons/codec/net/QuotedPrintableCodec.java
* /opt/cola/permits/1239609118_1639077028.77/0/commons-codec-1-3-sources-
jar/org/apache/commons/codec/EncoderException.java
* /opt/cola/permits/1239609118_1639077028.77/0/commons-codec-1-3-sources-
jar/org/apache/commons/codec/net/BCodec.java
* /opt/cola/permits/1239609118_1639077028.77/0/commons-codec-1-3-sources-
jar/org/apache/commons/codec/binary/Base64.java
* /opt/cola/permits/1239609118_1639077028.77/0/commons-codec-1-3-sources-
jar/org/apache/commons/codec/language/SoundexUtils.java
* /opt/cola/permits/1239609118_1639077028.77/0/commons-codec-1-3-sources-
jar/org/apache/commons/codec/DecoderException.java
* /opt/cola/permits/1239609118_1639077028.77/0/commons-codec-1-3-sources-
jar/org/apache/commons/codec/language/DoubleMetaphone.java
* /opt/cola/permits/1239609118_1639077028.77/0/commons-codec-1-3-sources-
jar/org/apache/commons/codec/net/URLCodec.java
* /opt/cola/permits/1239609118_1639077028.77/0/commons-codec-1-3-sources-
jar/org/apache/commons/codec/BinaryDecoder.java
* /opt/cola/permits/1239609118_1639077028.77/0/commons-codec-1-3-sources-
jar/org/apache/commons/codec/language/Soundex.java
* /opt/cola/permits/1239609118_1639077028.77/0/commons-codec-1-3-sources-
jar/org/apache/commons/codec/digest/DigestUtils.java
* /opt/cola/permits/1239609118_1639077028.77/0/commons-codec-1-3-sources-
jar/org/apache/commons/codec/binary/Hex.java
```

1.164 jackson-core 2.6.7

1.164.1 Available under license :

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1.165 core-util-is 1.0.2

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1.166 checker-qual 2.5.2

1.167 google-gson 2.2.2

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1.168 apache-commons-pool 1.2

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1.169 json-smart 2.4.7

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```
* /opt/cola/permits/1183889917_1627493840.74/0/json-smart-2-4-7-sources-1-
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* /opt/cola/permits/1183889917_1627493840.74/0/json-smart-2-4-7-sources-1-jar/net/minidev/json/JSONStyle.java
* /opt/cola/permits/1183889917_1627493840.74/0/json-smart-2-4-7-sources-1-
jar/net/minidev/json/parser/JSONParserByteArray.java
* /opt/cola/permits/1183889917_1627493840.74/0/json-smart-2-4-7-sources-1-
```


jar/net/minidev/json/JSONStreamAware.java
* /opt/cola/permits/1183889917_1627493840.74/0/json-smart-2-4-7-sources-1-
jar/net/minidev/json/writer/JsonReaderI.java
* /opt/cola/permits/1183889917_1627493840.74/0/json-smart-2-4-7-sources-1-jar/net/minidev/json/JStylerObj.java
* /opt/cola/permits/1183889917_1627493840.74/0/json-smart-2-4-7-sources-1-
jar/net/minidev/json/parser/JSONParserStream.java
* /opt/cola/permits/1183889917_1627493840.74/0/json-smart-2-4-7-sources-1-
jar/net/minidev/json/parser/JSONParser.java
* /opt/cola/permits/1183889917_1627493840.74/0/json-smart-2-4-7-sources-1-
jar/net/minidev/json/JSONAwareEx.java
* /opt/cola/permits/1183889917_1627493840.74/0/json-smart-2-4-7-sources-1-
jar/net/minidev/json/parser/JSONParserString.java
* /opt/cola/permits/1183889917_1627493840.74/0/json-smart-2-4-7-sources-1-
jar/net/minidev/json/JSONStreamAwareEx.java
* /opt/cola/permits/1183889917_1627493840.74/0/json-smart-2-4-7-sources-1-jar/net/minidev/json/JSONUtil.java
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* /opt/cola/permits/1183889917_1627493840.74/0/json-smart-2-4-7-sources-1-
jar/net/minidev/json/parser/ParseException.java
* /opt/cola/permits/1183889917_1627493840.74/0/json-smart-2-4-7-sources-1-
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* /opt/cola/permits/1183889917_1627493840.74/0/json-smart-2-4-7-sources-1-
jar/net/minidev/json/parser/JSONParserMemory.java
* /opt/cola/permits/1183889917_1627493840.74/0/json-smart-2-4-7-sources-1-
jar/net/minidev/json/writer/DefaultMapperCollection.java
* /opt/cola/permits/1183889917_1627493840.74/0/json-smart-2-4-7-sources-1-jar/net/minidev/json/JSONNavi.java
* /opt/cola/permits/1183889917_1627493840.74/0/json-smart-2-4-7-sources-1-
jar/net/minidev/json/writer/BeansMapper.java
* /opt/cola/permits/1183889917_1627493840.74/0/json-smart-2-4-7-sources-1-
jar/net/minidev/json/writer/CollectionMapper.java
* /opt/cola/permits/1183889917_1627493840.74/0/json-smart-2-4-7-sources-1-
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jar/net/minidev/json/JSONArray.java
* /opt/cola/permits/1183889917_1627493840.74/0/json-smart-2-4-7-sources-1-
jar/net/minidev/json/writer/FakeMapper.java
* /opt/cola/permits/1183889917_1627493840.74/0/json-smart-2-4-7-sources-1-
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* /opt/cola/permits/1183889917_1627493840.74/0/json-smart-2-4-7-sources-1-
jar/net/minidev/json/JSONAware.java
* /opt/cola/permits/1183889917_1627493840.74/0/json-smart-2-4-7-sources-1-
jar/net/minidev/json/writer/JsonReader.java
* /opt/cola/permits/1183889917_1627493840.74/0/json-smart-2-4-7-sources-1-
jar/net/minidev/json/JSONObject.java
* /opt/cola/permits/1183889917_1627493840.74/0/json-smart-2-4-7-sources-1-
jar/net/minidev/json/parser/JSONParserInputStream.java
* /opt/cola/permits/1183889917_1627493840.74/0/json-smart-2-4-7-sources-1-
jar/net/minidev/json/writer/DefaultMapperOrdered.java

* /opt/cola/permits/1183889917_1627493840.74/0/json-smart-2-4-7-sources-1-jar/net/minidev/json/parser/JSONParserReader.java

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1.171 dnsjava 2.1.7

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* /opt/cola/permits/1125857121_1611466049.52/0/hppc-0-8-1-sources-1-jar/com/carrotsearch/hppc/BitSet.java
* /opt/cola/permits/1125857121_1611466049.52/0/hppc-0-8-1-sources-1-jar/com/carrotsearch/hppc/BitUtil.java
* /opt/cola/permits/1125857121_1611466049.52/0/hppc-0-8-1-sources-1-jar/com/carrotsearch/hppc/BitSetIterator.java

1.173 jersey-guice 1.19

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1.174 apache-httpcomponents-core 4.4.9

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1.177 node-graceful-fs 4.1.11

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1.178 aws-java-sdk-for-amazon-dynamodb-accelerator-(dax) 1.11.155

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1.180 crc32-stream 3.0.1

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1.181 jedis jedis-3.1.0

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1.182 reactor-core 3.3.0.RELEASE

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1.183 javax-annotation-api 1.2

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1.185 d3-zoom 1.7.1

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1.186 stax-api 4.2.1

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1.188 apache-parquet-column 1.12.0

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1.191 jsr311-api 1.1.1

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(1)

ExceptionConverter:

The original version of this class was published in an article by Heinz Kabutz.

Read http://www.javaspecialists.co.za/archive/newsletter.do?issue=033&print=yes&locale=en_US

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(2)

SimpleXMLParser:

The original version of this class was published in a JavaWorld article by Steven Brandt:

<http://www.javaworld.com/javaworld/jvatips/jw-jvatip128.html>

Jennifer Orr (JavaWorld) wrote: "You have permission to use the code appearing in

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We ask that you reference the author as the creator and JavaWorld as the original publisher of the code." Steven Brandt also agreed with the use of this class.

(3)

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com/lowagie/text/pdf/LZWDecoder.java (first appearance in iText: 2002-02-08)

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com/lowagie/text/pdf/codec/TIFFDirectory.java (first appearance in iText: 2003-04-09)

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In a mail sent to Bruno Lowagie on January 23, 2008, Brian Burkhalter (@sun.com) writes: "This code is under a BSD license and supersedes the older codec packages on which your code is based. It also includes numerous fixes among them being the ability to handle a lot of 'broken' TIFFs."

Note that numerous fixes were applied to the code used in iText by Paulo Soares, but apart from the fixes there were no essential changes between the code that was originally adapted and the code that is now available under the following license:

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FYI: Brian also added: "A bit of history might be in order.

The codec classes that you used originally were based on some classes included with JAI but not strictly part of JAI.

As of Java SE 1.4 an official Image I/O framework was added in javax.imageio.... This framework supports these formats:

Java 1.4: GIF (read only), JPEG, PNG

Java 1.5: Added support for BMP and WBMP

Java 1.6: Added support for writing GIF

The JAI Image I/O Tools packages (jai-imageio-core) were created to support formats handled by JAI but not included in Java SE as well as some new things like JPEG2000."

(4) the file com/lowagie/text/pdf/codec/TIFFConstants and some other TIFF related code is derived from LIBTIFF:

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```
<?xml version="1.0" encoding="ISO-8859-1" ?>
<!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=ISO-8859-1" />
```

```
<title>Eclipse Public License - Version 1.0</title>
```

```
<style type="text/css">
```

```
body {
```

```
    size: 8.5in 11.0in;
```

```
    margin: 0.25in 0.5in 0.25in 0.5in;
```

```
    tab-interval: 0.5in;
```

```
 }
```

```
p {
```

```
    margin-left: auto;
```

```
    margin-top: 0.5em;
```

```
    margin-bottom: 0.5em;
```

```
 }
```

```
p.list {
```

```
    margin-left: 0.5in;
```

```
margin-top: 0.05em;
margin-bottom: 0.05em;
}
</style>
```

```
</head>
```

```
<body lang="EN-US">
```

```
<h2>Eclipse Public License - v 1.0</h2>
```

```
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src/main/org/codehaus/groovy/jsr223/GroovyScriptEngineFactory.java
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<script type="text/javascript" src="/js/apache_boot.js"></script>
```

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<input value="apache.org" name="sitesearch" type="hidden"/>

<input type="text" name="q" id="query">

<input type="submit" id="submit" value="Search">

</form>

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```

```
<div class="grid_3">
```

```
<h4>Projects</h4>
```

```
<ul>
```

```
<li><a href="http://httpd.apache.org/" title="Apache Web Server (httpd)">HTTP Server</a></li>
```

```
<li><a href="http://abdera.apache.org/" title="Atom Publishing Protocol Implementation">Abdera</a></li>
```

```
<li><a href="http://accumulo.apache.org/" title="Sorted, distributed key/value store">Accumulo</a></li>
```

```
<li><a href="http://ace.apache.org/" title="Centralized life cycle management and deployment of OSGi based and related modular software artifacts for distribution.">ACE</a></li>
```

```
<li><a href="http://activemq.apache.org/" title="Distributed Messaging System">ActiveMQ</a></li>
```

```
<li><a href="http://airavata.apache.org/" title="Workflow and Computational Job Management Middleware">Airavata</a></li>
```

```
<li><a href="http://allura.apache.org/" title="Forge software for hosting software projects">Allura</a></li>
```

```
<li><a href="http://ambari.apache.org/" title="Hadoop cluster management">Ambari</a></li>
```

```
<li><a href="http://ant.apache.org/" title="Java-based build tool">Ant</a></li>
```

```
<li><a href="http://any23.apache.org/" title="Anything to Triples">Any23</a></li>
```

```
<li><a href="http://apr.apache.org/" title="Apache Portable Runtime libraries">APR</a></li>
```

```
<li><a href="http://archiva.apache.org/" title="Build Artifact Repository Manager">Archiva</a></li>
```

```
<li><a href="http://aries.apache.org/" title="Enterprise OSGi application programming model">Aries</a></li>
```

```
<li><a href="http://avro.apache.org/" title="A Serialization System">Avro</a></li>
```

```
<li><a href="http://axis.apache.org/" title="Java SOAP Engine">Axis</a></li>
```

```
<li><a href="http://bigtop.apache.org/" title="Apache Hadoop ecosystem integration and distribution project">Bigtop</a></li>
```

```
<li><a href="http://bloodhound.apache.org/" title="Issue tracking, wiki and repository browser">Bloodhound</a></li>
```

```
<li><a href="http://buildr.apache.org/" title="Simple and intuitive build system for Java applications">Buildr</a></li>
```

```
<li><a href="http://bval.apache.org/" title="Apache BVal: JSR-303 Bean Validation Implementation and
```

- Extensions">BVal
- Camel
- Cassandra
- Cayenne
- Chemistry
- Chukwa
- Clerezza
- CloudStack
- Cocoon
- Commons
- Continuum
- Cordova
- CouchDB
- Creadur
- Crunch
- cTAKES
- Curator
- CXF
- DB
- Deltacloud
- DeltaSpike
- DirectMemory
- Directory
- Empire-db
- Etch
- Felix
- Flex
- Flume
- Forrest
- Geronimo
- Giraph
- <a href="http://gora.apache.org/" title="ORM framework for column stores such as Apache HBase and Apache

Cassandra with a specific focus on Hadoop">Gora

- Gump
- Hadoop
- Hama
- HBase
- Helix
- Hive
- HttpComponents
- Isis
- Jackrabbit
- James
- jclouds
- Jena
- JMeter
- JSPWiki
- jUDDI
- Kafka
- Karaf
- Knox
- Lenya
- Libcloud
- Logging
- Lucene
- Lucene.Net
- Lucy
- Mahout
- ManifoldCF
- Marmotta
- Maven
- Mesos
- MINA
- MRUnit
- MyFaces
- Nutch
- <a href="http://ode.apache.org/" title="Orchestration Director Engine: Business Process Management (BPM),

Process Orchestration and Workflow through service composition.">ODE
OFBiz
Olingo
Oltu
Onami
OODT
Oozie
Open Climate Workbench
OpenJPA
OpenMeetings
OpenNLP
OpenOffice
OpenWebBeans
PDFBox
Perl
Pig
Pivot
POI
Portals
Qpid
Rave
River
Roller
Santuario
ServiceMix
Shindig
Shiro
SIS
Sling
SpamAssassin
Spark
Sqoop
Stanbol
STeVe
Storm

- Struts
- Subversion
- Synapse
- Syncope
- Tajo
- Tapestry
- Tcl
- Tez
- Thrift
- Tika
- Tiles
- Tomcat
- TomEE
- Traffic Server
- Turbine
- Tuscany
- UIMA
- VCL
- Velocity
- VXQuery
- Web Services
- Whirr
- Wicket
- Wink
- Wookie
- Xalan
- Xerces
- XMLBeans
- XML Graphics
- ZooKeeper

</div>

<div class="grid_3">

<h4>Foundation</h4>


```
<li><a href="/foundation/faq.html">FAQ</a></li>
<li><a href="/foundation/glossary.html">Glossary</a></li>
<li><a href="/licenses/" title="Overview of the Apache Licenses">Licenses</a></li>
<li><a href="/foundation/marks/" title="Apache marks policies and listing">Trademarks</a></li>
<li><a href="/foundation/news.html" title="Official news feed of Foundation announcements">News</a></li>

<li><a href="/press/" title="Press, Media, and Analyst contact">Press Inquiries</a></li>
<li><a href="/foundation/records/" title="Formal corporate records and board meeting minutes">Public
Records</a></li>
<li><a href="/foundation/maillinglists.html" title="Mailing lists and Apache">Mailing Lists</a></li>
<li><a href="/foundation/sponsorship.html" title="Sponsor the Foundation">Sponsorship</a></li>
<li><a href="/foundation/contributing.html" title="Donate to the Foundation">Donations</a></li>
<li><a href="/foundation/buy_stuff.html" title="Buy Apache branded merchandise">Buy Stuff</a></li>
<li><a href="/foundation/thanks.html" title="Thank you to our Sponsors">Thanks</a></li>
<li><a href="/foundation/contact.html" title="Contact Us">Contact</a></li>
</ul>
</div>
<div class="grid_3 suffix_1">
<h4>Foundation Projects</h4>
<ul>
<li><a href="http://attic.apache.org/" title="Inactive projects repository">Attic</a></li>
<li><a href="/foundation/conferences.html" title="Meetings of developers and users">Conferences</a></li>
<li><a href="http://community.apache.org/" title="Helping newcomers to the ASF">Community
Development</a></li>
<li><a href="http://incubator.apache.org/" title="Shepherd for new projects">Incubator</a></li>
<li><a href="/dev/" title="ASF Infrastructure: Operations and howto documents for PMCs and
contributors">Infrastructure</a></li>
<li><a href="http://labs.apache.org/" title="The Innovation Laboratories of the Apache Software
Foundation">Labs</a></li>
<li><a href="/legal/" title="Legal Affairs">Legal Affairs</a></li>
<li><a href="/press/" title="Public Relations">Public Relations</a></li>
<li><a href="/security/" title="Security">Security</a></li>
<li><a href="/travel/" title="Travel Assistance">Travel Assistance</a></li>
</ul>
</div>
<div class="grid_3">
<h4>Community</h4>
<ul>
<li><a href="http://people.apache.org/" title="Apache committer homepages">People</a></li>
<li><a href="/memorials/" title="In memoriam of past committers">Memorials</a></li>
<li><a href="http://feathercast.apache.org/" title="Apache Podcasts">Feathercast</a></li>
<li><a href="http://blogs.apache.org/" title="Apache Project Blogs">Project Blogs</a></li>
<li><a href="http://planet.apache.org/committers/" title="Apache Committers' Blogs">PlanetApache</a></li>
</ul>
</div>
<div class="grid_3">
```

```
<h4>How It Works</h4>
<ul>
  <li><a href="/foundation/how-it-works.html">Introduction</a></li>
  <li><a href="/foundation/how-it-works.html#meritocracy">Meritocracy</a></li>
  <li><a href="/foundation/how-it-works.html#structure">Structure</a></li>
  <li><a href="/foundation/how-it-works.html#roles">Roles</a></li>
  <li><a href="/foundation/how-it-works.html#management">Collaboration</a></li>
  <li><a href="/foundation/how-it-works.html#incubator">Incubator</a></li>
  <li><a href="/foundation/how-it-works.html#other">Other entities</a></li>
  <li><a href="/foundation/glossary.html">Glossary</a></li>
  <li><a href="/foundation/voting.html">Voting</a></li>
</ul>
</div>
</div>
<div class="clear"></div>

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Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
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```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML+RDFa 1.0//EN"
"http://www.w3.org/MarkUp/DTD/xhtml-rdfa-1.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" xml:lang="en" version="XHTML+RDFa 1.0" dir="ltr">

<head profile="http://www.w3.org/1999/xhtml/vocab">
  <meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
  <link rel="shortcut icon" href="http://opensource.org/files/garland_favicon.png" type="image/png" />
  <link rel="shortlink" href="/node/66" />
  <link rel="canonical" href="/licenses/MIT" />
  <meta name="Generator" content="Drupal 7 (http://drupal.org)" />
  <title>The MIT License (MIT) | Open Source Initiative</title>
  <link type="text/css" rel="stylesheet" href="http://opensource.org/files/css/css_xE-rWrJf-
fncB6ztZfd2huxqgxu4WO-qwma6Xer30m4.css" media="all" />
  <link type="text/css" rel="stylesheet" href="http://opensource.org/files/css/css_2ATB4XKGEvmoUk_p62PwI-
o2aW47EqqS0nD2dmPZoV4.css" media="all" />
  <link type="text/css" rel="stylesheet" href="http://opensource.org/files/css/css_2wI77kyP-
rJKVpFW5M3KFcj7Cb99lZalmubKIwWwsmU.css" media="all" />
  <link type="text/css" rel="stylesheet"
href="http://opensource.org/files/css/css_k3snrbsthqot7V7ccRZHS9OkCZkwBv4adtNieIV1bEU.css" media="print"
/>

  <!--[if lt IE 7]>
  <link type="text/css" rel="stylesheet" href="http://opensource.org/themes/garland/fix-ie.css?fnb7pm" media="all"
  />
  <![endif]-->
  <script type="text/javascript"
src="http://opensource.org/files/js/js_xAPI0qIk9eowy_iS9tNkCWXLUVoat94SQT48UBCFkyQ.js"></script>
  <script type="text/javascript">
  <!--/--><![CDATA[//><!--
jQuery.extend(Drupal.settings,
  {"basePath":"/","pathPrefix":"","ajaxPageState":{"theme":"garland","theme_token":"meUjjBBfr6QFJv5kp0oKi152
l673C3xJMLGIQzbH9g0"},"js":{"misc/jquery.js":1,"misc/jquery.once.js":1,"misc/drupal.js":1},"css":{"modules/vs
system/system.base.css":1,"modules/system/system.menus.css":1,"modules/system/system.messages.css":1,"mod
ules/system/system.theme.css":1,"modules/aggregator/aggregator.css":1,"modules/comment/comment.css":1,"m
odules/field/theme/field.css":1,"sites/all/modules/mollom/mollom.css":1,"modules/node/node.css":1,"modules
/search/search.css":1,"modules/user/user.css":1,"themes/garland/style.css":1,"themes/garland/print.css":1,"the
mes/garland/fix-ie.css":1}}});
  /--><![>
```

```

</script>
</head>
<body class="html not-front not-logged-in one-sidebar sidebar-first page-node page-node- page-node-66 node-type-
page fluid-width" >
<div id="skip-link">
  <a href="#main-content" class="element-invisible element-focusable">Skip to main content</a>
</div>

<div id="wrapper">
  <div id="container" class="clearfix">

    <div id="header">
      <div id="logo-floater">
        <div id="branding"><strong><a href="/">
          
          <span>Open Source Initiative</span>      </a></strong></div>
        </div>

        </div> <!-- /#header -->

        <div id="sidebar-first" class="sidebar">
          <div class="region region-sidebar-first">
            <div id="block-search-form" class="block block-search clearfix">

              <h2 class="title">Search this site:</h2>

              <div class="content">
                <form action="/licenses/mit-license.php" method="post" id="search-block-form" accept-charset="UTF-
8"><div><div class="container-inline">
                  <div class="form-item form-type-textfield form-item-search-block-form">
                    <label class="element-invisible" for="edit-search-block-form--2">Search </label>
                    <input title="Enter the terms you wish to search for." type="text" id="edit-search-block-form--2"
                    name="search_block_form" value="" size="15" maxlength="128" class="form-text" />
                  </div>
                  <div class="form-actions form-wrapper" id="edit-actions"><input type="submit" id="edit-submit" name="op"
                    value="Search" class="form-submit" /></div><input type="hidden" name="form_build_id" value="form-
                    MyBqFtDVdzOmaSnCHKIG9yhm0ofMr7fNMG5Vy76N_uk" />
                    <input type="hidden" name="form_id" value="search_block_form" />
                  </div>
                </div></form> </div>
              </div>
            <div id="block-system-navigation" class="block block-system block-menu clearfix">

              <h2 class="title">Navigation</h2>

              <div class="content">
                <ul class="menu"><li class="first collapsed"><a href="/about" title="About the Open Source Initiative">About

```

the OSI
<li class="collapsed">The
Open Source Definition
<li class="collapsed">Open Source Licenses
<li class="leaf">Working Groups
<li class="leaf"><a href="/faq" title="Frequently Asked Questions about open source and about the
OSI.">FAQ
<li class="collapsed">Trademark and
Logo Usage
<li class="collapsed">Open
Standards
<li class="leaf"><a href="/osi-open-source-education" title="OSI's Open Source Education Initiative and
Activities">Open Source Education
<li class="collapsed"><a href="/lists" title="The virtual committees where the OSI's work gets
done">Mailing lists
<li class="collapsed">Getting
Help
<li class="collapsed">Donate to the OSI
<li class="leaf">OSI Individual Membership
<li class="leaf">OSI Store
<li class="collapsed"><a href="/affiliates" title="Home page for OSI's membership scheme for non-profits
and not-for-profits">OSI Affiliate Membership
<li class="leaf">Contact OSI
<li class="leaf">Terms of Service
<li class="last leaf">OSI Corporate Support
 </div>
</div>
</div>

<div id="center"><div id="squeeze"><div class="right-corner"><div class="left-corner">
<h2 class="element-invisible">You are here</h2><div class="breadcrumb">Home</div>

<div id="tabs-wrapper" class="clearfix"> <h1 class="with-tabs">The MIT License
(MIT)</h1>
</div> <div class="clearfix">
<div class="region region-content">
<div id="block-system-main" class="block block-system clearfix">

<div class="content">
<div id="node-66" class="node node-page">

<div class="content clearfix">


```
<div class="field field-name-body field-type-text-with-summary field-label-hidden"><div class="field-items"><div class="field-item even"><p>The MIT License (MIT)</p><p>Copyright (c) &lt;year&gt; &lt;copyright holders&gt;</p><p>Permission is hereby granted, free of charge, to any person obtaining a copy<br />of this software and associated documentation files (the "Software"), to deal<br />in the Software without restriction, including without limitation the rights<br />to use, copy, modify, merge, publish, distribute, sublicense, and/or sell<br />copies of the Software, and to permit persons to whom the Software is<br />furnished to do so, subject to the following conditions:</p><p>The above copyright notice and this permission notice shall be included in<br />all copies or substantial portions of the Software.</p><p>THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR<br />IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,<br />FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE<br />AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER<br />LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,<br />OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN<br />THE SOFTWARE.</p></div></div></div> </div>
```

```
<div class="clearfix">
```

```
  <div class="links"></div>
```

```
</div>
```

```
</div>
```

```
</div>
```

```
</div>
```

```
</div>
```

```
</div>
```

```
  <div class="region region-footer">
```

```
    <div id="block-block-11" class="block block-block clearfix">
```

```
  <div class="content">
```

```
    <p style="text-align:center">Help shape the future of the Open Source Initiative...<br /><a href="http://osi.xwiki.com">visit and participate in the OSI wiki</a>.</p>
```

```
  </div>
```

```
  <a href="https://twitter.com/OpenSourceOrg" class="twitter-follow-button" data-show-count="false" data-lang="en">Follow @OpenSourceOrg</a>
```

```
  <script>
```

```
    <!--//--><![CDATA[// ><!--
```

```
    !function(d,s,id){var
```

```
    js,fjs=d.getElementsByTagName(s)[0];if(!d.getElementById(id)){js=d.createElement(s);js.id=id;js.src="//platform.t
```

```
witter.com/widgets.js";fjs.parentNode.insertBefore(js,fjs);})(document,"script","twitter-wjs");
```

```
//--><![ ]>
```

```
</script></div>
```

```
<p>
```

```
<!-- Creative Commons License --><a rel="license" href="http://creativecommons.org/licenses/by/4.0/"></a><br />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>.<!-- /Creative Commons License -->
```

```
<!-- <rdf:RDF xmlns="http://web.resource.org/cc/" xmlns:dc="http://purl.org/dc/elements/1.1/"
```

```
xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#" xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#">
```

```
<Work rdf:about="">
```

```
<license rdf:resource="http://creativecommons.org/licenses/by/3.0/" />
```

```
</Work>
```

```
<License rdf:about="http://creativecommons.org/licenses/by/3.0/"><permits
```

```
rdf:resource="http://web.resource.org/cc/Reproduction"/><permits
```

```
rdf:resource="http://web.resource.org/cc/Distribution"/><requires
```

```
rdf:resource="http://web.resource.org/cc/Notice"/><requires
```

```
rdf:resource="http://web.resource.org/cc/Attribution"/><permits
```

```
rdf:resource="http://web.resource.org/cc/DerivativeWorks"/></License></rdf:RDF>
```

```
-->
```

```
| <a href=" ../ToS">Terms of Service</a>
```

```
</p>
```

```
</div>
```

```
</div>
```

```
<div id="block-block-7" class="block block-block clearfix">
```

```
<div class="content">
```

```
<script src="http://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></div></div></div> <!-- /.left-corner, /.right-corner, /#squeeze, /#center -->

</div> <!-- /#container -->

</div> <!-- /#wrapper -->

</body>

</html>

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content="text/html; charset=ISO-8859-1">

<title>CDDL ver. 1.0</title>

<meta name="author" content="Cliff Allen">

</head>

<body>

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  _gaq.push(['_setDomainName', 'jsoup.org']);
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<!-- /wrap -->
<script src="/rez/prettify.js"></script>
<script>prettyPrint();</script>
</body>
</html>
```

/******

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1.201 jaf 1.2.2

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1.203 iconv-lite 0.4.23

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1.204 aws-java-sdk-for-aws-kms 1.11.155

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```
* /opt/cola/permits/1239974766_1639111693.19/0/spring-aspects-4-0-1-release-sources-
jar/org/springframework/beans/factory/aspectj/AbstractInterfaceDrivenDependencyInjectionAspect.aj
* /opt/cola/permits/1239974766_1639111693.19/0/spring-aspects-4-0-1-release-sources-
jar/org/springframework/mock/staticmock/AbstractMethodMockingControl.aj
* /opt/cola/permits/1239974766_1639111693.19/0/spring-aspects-4-0-1-release-sources-
jar/org/springframework/scheduling/aspectj/AbstractAsyncExecutionAspect.aj
* /opt/cola/permits/1239974766_1639111693.19/0/spring-aspects-4-0-1-release-sources-
jar/org/springframework/scheduling/aspectj/AspectJAsyncConfiguration.java
* /opt/cola/permits/1239974766_1639111693.19/0/spring-aspects-4-0-1-release-sources-
jar/org/springframework/mock/staticmock/AnnotationDrivenStaticEntityMockingControl.aj
* /opt/cola/permits/1239974766_1639111693.19/0/spring-aspects-4-0-1-release-sources-
jar/org/springframework/orm/jpa/aspectj/JpaExceptionTranslatorAspect.aj
* /opt/cola/permits/1239974766_1639111693.19/0/spring-aspects-4-0-1-release-sources-
jar/org/springframework/cache/aspectj/AbstractCacheAspect.aj
* /opt/cola/permits/1239974766_1639111693.19/0/spring-aspects-4-0-1-release-sources-
jar/org/springframework/beans/factory/aspectj/AnnotationBeanConfigurerAspect.aj
* /opt/cola/permits/1239974766_1639111693.19/0/spring-aspects-4-0-1-release-sources-
jar/org/springframework/transaction/aspectj/AbstractTransactionAspect.aj
* /opt/cola/permits/1239974766_1639111693.19/0/spring-aspects-4-0-1-release-sources-
jar/org/springframework/transaction/aspectj/AnnotationTransactionAspect.aj
* /opt/cola/permits/1239974766_1639111693.19/0/spring-aspects-4-0-1-release-sources-
jar/org/springframework/beans/factory/aspectj/GenericInterfaceDrivenDependencyInjectionAspect.aj
* /opt/cola/permits/1239974766_1639111693.19/0/spring-aspects-4-0-1-release-sources-
jar/org/springframework/beans/factory/aspectj/AbstractBeanConfigurerAspect.aj
* /opt/cola/permits/1239974766_1639111693.19/0/spring-aspects-4-0-1-release-sources-
jar/org/springframework/beans/factory/aspectj/AbstractDependencyInjectionAspect.aj
* /opt/cola/permits/1239974766_1639111693.19/0/spring-aspects-4-0-1-release-sources-
jar/org/springframework/cache/aspectj/AnnotationCacheAspect.aj
```

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```
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* /opt/cola/permits/1239974766_1639111693.19/0/spring-aspects-4-0-1-release-sources-
jar/org/springframework/scheduling/aspectj/AnnotationAsyncExecutionAspect.aj
* /opt/cola/permits/1239974766_1639111693.19/0/spring-aspects-4-0-1-release-sources-
jar/org/springframework/context/annotation/aspectj/EnableSpringConfigured.java
* /opt/cola/permits/1239974766_1639111693.19/0/spring-aspects-4-0-1-release-sources-
jar/org/springframework/cache/aspectj/AspectJCCachingConfiguration.java
* /opt/cola/permits/1239974766_1639111693.19/0/spring-aspects-4-0-1-release-sources-
jar/org/springframework/context/annotation/aspectj/SpringConfiguredConfiguration.java
* /opt/cola/permits/1239974766_1639111693.19/0/spring-aspects-4-0-1-release-sources-
jar/org/springframework/mock/staticmock/MockStaticEntityMethods.java
* /opt/cola/permits/1239974766_1639111693.19/0/spring-aspects-4-0-1-release-sources-
jar/org/springframework/beans/factory/aspectj/ConfigurableObject.java
```

1.206 apache-httpcomponents-core 4.1

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* @author Glen Smith

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* This just implements splitting a single line into fields.

*

* The purpose of the CSVParser is to take a single string and parse it into

* its elements based on the delimiter, quote and escape characters.

*

* The CSVParser has grown organically based on user requests and does not truly match

* any current requirements (though it can be configured to match or come close). There

* is no plans to change this as it will break existing requirements. Consider using

* the RFC4180Parser for less configurability but closer match to the RFC4180 requirements.

*

* @author Glen Smith

* @author Rainer Pruy

*/

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* /opt/cola/permits/1238692777_1638981185.95/0/opencsv-4-0-sources-jar/com/opencsv/bean/StatefulBeanToCsvBuilder.java

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1.212 apache-commons-beanutils 1.7.0

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JUnit test library (junit-3.8.1.jar)

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1.214 jackson-annotations 2.12.4.redhat-00001

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1.215 jmes-path-query-library 1.11.155

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1.216 aws-java-sdk 1.11.555

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(1)

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(2)

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<http://www.javaworld.com/javaworld/javatips/jw-javatip128.html>

Jennifer Orr (JavaWorld) wrote: "You have permission to use the code appearing in Steven Brandt's JavaWorld article, 'Java Tip 128: Create a quick-and-dirty XML parser.'

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In a mail sent to Bruno Lowagie on January 23, 2008, Brian Burkhalter (@sun.com) writes: "This code is under a BSD license and supersedes the older codec packages on which your code is based. It also includes numerous fixes among them being the

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Note that numerous fixes were applied to the code used in iText by Paulo Soares, but apart from the fixes there were no essential changes between the code that was originally adapted and the code that is now available under the following license:

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FYI: Brian also added: "A bit of history might be in order.

The codec classes that you used originally were based on some classes included with JAI but not strictly part of JAI. As of Java SE 1.4 an official Image I/O framework was added in `javax.imageio....` This framework supports these formats:

Java 1.4: GIF (read only), JPEG, PNG

Java 1.5: Added support for BMP and WBMP

Java 1.6: Added support for writing GIF

The JAI Image I/O Tools packages (`jai-imageio-core`) were created to support formats handled by JAI but not included in Java SE as well as some new things like JPEG2000."

(4) the file `com/lowagie/text/pdf/codec/TIFFConstants` and some other TIFF related code is derived from LIBTIFF:

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1.224 apache-poi-ooxml-schemas 3.12

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core/src/java/org/apache/lucene/util/compress/LZ4.java is a Java implementation of the LZ4 (<https://github.com/lz4/lz4/tree/dev/lib>) compression format for Lucene's DataInput/DataOutput abstractions.

LZ4 Library

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1.232 apache-poi-scratchpad 3.8-beta5

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1.236 nimbus-langtag 1.5

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1.237 batik-xml-utility-library 1.7

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* /opt/cola/permits/1018976815_1611209662.85/0/batik-xml-1-7-sources-2-jar/org/apache/batik/xml/XMLUtilities.java

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* /opt/cola/permits/1018976815_1611209662.85/0/batik-xml-1-7-sources-2-jar/org/apache/batik/xml/XMLScanner.java

* /opt/cola/permits/1018976815_1611209662.85/0/batik-xml-1-7-sources-2-jar/org/apache/batik/xml/XMLStreamNormalizingReader.java

* /opt/cola/permits/1018976815_1611209662.85/0/batik-xml-1-7-sources-2-jar/org/apache/batik/xml/LexicalUnits.java

* /opt/cola/permits/1018976815_1611209662.85/0/batik-xml-1-7-sources-2-

jar/org/apache/batik/xml/XMLCharacters.java
* /opt/cola/permits/1018976815_1611209662.85/0/batik-xml-1-7-sources-2-
jar/org/apache/batik/xml/XMLException.java

1.238 aop-alliance 1.0

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1.239 commander 2.11.0

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1.240 zipkin-reporter-core 2.16.3

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1.241 node-domino 2.1.0

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1.242 jsch 0.1.54

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1.243 hadoop-yarn-client 3.3.1

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hadoop-hdfs-project/hadoop-

hdfs/src/main/java/org/apache/hadoop/hdfs/server/datanode/checker/AbstractFuture.java
hadoop-hdfs-project/hadoop-
hdfs/src/main/java/org/apache/hadoop/hdfs/server/datanode/checker/TimeoutFuture.java

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hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-client-
nativetask/src/main/native/lz4/lz4.{c|h}
hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/native/container-
executor/impl/compat/{fstatat|openat|unlinkat}.h

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hadoop-common-project/hadoop-common/src/main/java/org/apache/hadoop/util/bloom/*
hadoop-common-project/hadoop-common/src/main/native/gtest/gtest-all.cc
hadoop-common-project/hadoop-common/src/main/native/gtest/include/gtest/gtest.h
hadoop-common-project/hadoop-common/src/main/native/src/org/apache/hadoop/util/bulk_crc32_x86.c
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hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/libhdfspp/third_party/gmock-1.7.0/*/*.{cc|h}
hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/d3.v3.js
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/d3-v4.1.1.min.js

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hadoop-tools/hadoop-sls/src/main/html/css/bootstrap-responsive.min.css
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hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/jquery

hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/jt/jquery.jstree.js
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/resources/TERMINAL

uriparser2 (hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/libhdfspp/third_party/uriparser2)
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/native/container-executor/impl/utills/cJSON.[ch]

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asio-1.10.2 (hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/libhdfspp/third_party/asio-1.10.2)
rapidxml-1.13 (hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/libhdfspp/third_party/rapidxml-1.13)
tr2 (hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/libhdfspp/third_party/tr2)

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The following provides more details on the included cryptographic software:

This software uses the SSL libraries from the Jetty project written

by mortbay.org.

Hadoop Yarn Server Web Proxy uses the BouncyCastle Java cryptography APIs written by the Legion of the Bouncy Castle Inc.

1.244 fs-constants 1.0.0

1.244.1 Available under license :

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1.245 primeicons 1.0.0

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1.246 netty-project 4.1.17.Final

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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/util/internal/logging/FormattingTuple.java

* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/util/internal/logging/MessageFormatter.java

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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/ValueConverter.java

* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/http2/DecoratingHttp2ConnectionDecoder.java

* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/http2/StreamBufferingEncoder.java

* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/http2/DecoratingHttp2FrameWriter.java

* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/http2/WeightedFairQueueByteDistributor.java

* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/http2/Http2PromisedRequestVerifier.java

* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/http2/InboundHttp2ToHttpAdapterBuilder.java

* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/http2/StreamByteDistributor.java

* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/http2/Http2StreamVisitor.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/DefaultHeadersImpl.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/util/ByteProcessor.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/channel/CoalescingBufferQueue.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/util/internal/MathUtil.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/http2/UniformStreamByteDistributor.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/CharSequenceValueConverter.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/http2/AbstractInboundHttp2ToHttpAdapterBuilder.java

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jar/io/netty/example/http2/helloworld/server/HelloWorldHttp2Handler.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/http2/Http2ConnectionEncoder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/http2/Http2Flags.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/DefaultHeaders.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/http2/Http2LifecycleManager.java
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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jar/io/netty/handler/codec/http2/Http2RemoteFlowController.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/example/http2/helloworld/client/Http2Client.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/util/collection/LongCollections.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/http2/Http2Headers.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/http2/DefaultHttp2RemoteFlowController.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/http2/Http2ClientUpgradeCodec.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/http/HttpServerUpgradeHandler.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/http2/InboundHttp2ToHttpAdapter.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/http2/Http2CodecUtil.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/http2/Http2Connection.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/util/collection/ByteObjectMap.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/example/http2/helloworld/server/Http2OrHttpHandler.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/util/collection/IntCollections.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/http2/HttpToHttp2ConnectionHandler.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/http2/Http2LocalFlowController.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/http2/Http2FrameWriter.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/http2/Http2Stream.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/http2/Http2FrameReader.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/http2/Http2FlowController.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/http2/DelegatingDecompressorFrameListener.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/http2/package-info.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/EmptyHeaders.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/mqtt/MqttQoS.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-

jar/io/netty/handler/codec/http2/Http2FrameTypes.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/http2/Http2NoMoreStreamIdsException.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/http/HttpClientUpgradeHandler.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/http2/DefaultHttp2LocalFlowController.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/http2/DefaultHttp2Headers.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/example/http2/helloworld/client/Http2SettingsHandler.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/util/internal/ObjectUtil.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/http2/Http2FrameListenerDecorator.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/example/http2/helloworld/client/HttpResponseHandler.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/example/http2/helloworld/client/Http2ClientInitializer.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/http2/Http2HeadersDecoder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/http2/DefaultHttp2ConnectionEncoder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/example/http2/Http2ExampleUtil.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/http2/DefaultHttp2HeadersEncoder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/util/collection/CharObjectMap.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/util/collection/ByteObjectHashMap.java
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jar/io/netty/util/collection/CharObjectHashMap.java
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jar/io/netty/handler/codec/http2/DefaultHttp2HeadersDecoder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/http2/Http2DataWriter.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/util/collection/ByteCollections.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/util/collection/LongObjectHashMap.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/http2/DefaultHttp2ConnectionDecoder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/http2/EmptyHttp2Headers.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/http2/Http2HeadersEncoder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-

jar/io/netty/handler/codec/http2/Http2ConnectionHandler.java
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jar/io/netty/handler/codec/mqtt/package-info.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/http2/CompressorHttp2ConnectionEncoder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/http2/Http2FrameListener.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/util/collection/ShortCollections.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/util/collection/LongObjectMap.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/http2/Http2FrameAdapter.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/Headers.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/http2/DefaultHttp2Connection.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/util/collection/IntObjectMap.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/http2/Http2EventAdapter.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/http2/DefaultHttp2FrameWriter.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/util/collection/CharCollections.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/util/collection/IntObjectHashMap.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/http2/Http2ServerUpgradeCodec.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/http2/Http2Exception.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/http2/Http2ConnectionDecoder.java
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jar/io/netty/handler/codec/http2/Http2ConnectionAdapter.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/http2/Http2FrameSizePolicy.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/http2/DefaultHttp2FrameReader.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/http2/Http2Error.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/util/collection/ShortObjectHashMap.java

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jar/io/netty/handler/codec/http/cors/CorsConfig.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/example/http/cors/OkResponseHandler.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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jar/io/netty/buffer/PooledHeapByteBuf.java
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*/
/**
 * Set the {@code TCP_MD5SIG} option on the socket. See {@code linux/tcp.h} for more details.
 * Keys can only be set on, not read to prevent a potential leak, as they are confidential.
 * Allowing them being read would mean anyone with access to the channel could get them.
 */
```

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```
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/channel/epoll/EpollServerSocketChannelConfig.java
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jar/io/netty/handler/codec/http2/Http2ConnectionPrefaceAndSettingsFrameWrittenEvent.java
```

```
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/channel/AbstractCoalescingBufferQueue.java
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jar/io/netty/internal/tcnative/Buffer.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/internal/tcnative/SSLContext.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/internal/tcnative/SSL.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/internal/tcnative/Library.java

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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codecs/http/websocketx/WebSocket13FrameDecoder.java

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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/mqtt/MqttConnAckVariableHeader.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/ipfilter/IpFilterRule.java
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jar/io/netty/handler/codec/socksx/v4/AbstractSocks4Message.java
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jar/io/netty/handler/ssl/SslContext.java
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jar/io/netty/resolver/AddressResolverGroup.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/channel/epoll/EpollDatagramChannel.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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jar/io/netty/handler/codec/compression/Bzip2BlockDecompressor.java
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jar/io/netty/example/http/websocketx/client/WebSocketClient.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/compression/LzfEncoder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/mqtt/MqttSubAckPayload.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/mqtt/MqttSubAckMessage.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/http/websocketx/extensions/compression/DeflateFrameServerExtensionHandshaker.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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jar/io/netty/handler/ssl/OpenSslClientContext.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/xml/XmlCdata.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/stomp/package-info.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/resolver/NameResolver.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/compression/Bzip2DivSufSort.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/compression/Bzip2HuffmanStageEncoder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/mqtt/MqttMessageType.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/util/AsciiString.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/http/HttpMessageUtil.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/ssl/ApplicationProtocolNegotiator.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/mqtt/MqttPublishVariableHeader.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/example/http/websocketx/benchmarkserver/package-info.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/util/internal/UnpaddedInternalThreadLocalMap.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/stomp/StompFrame.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/spdy/SpdyFrameDecoderDelegate.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/ssl/SslProvider.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/channel/epoll/EpollEventLoop.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/json/package-info.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/traffic/GlobalChannelTrafficCounter.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/http/websocketx/extensions/compression/package-info.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/stomp/DefaultStompFrame.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/resolver/dns/DnsNameResolverContext.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/http/HttpStatusClass.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/http/websocketx/extensions/compression/WebSocketServerCompressionHandler.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-

jar/io/netty/handler/codec/http/HTTPHeaderValues.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/example/file/FileServerHandler.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/channel/epoll/Epoll.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/ssl/JdkSslClientContext.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/channel/unix/UnixChannelOption.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/stomp/LastStompContentSubframe.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/socksx/v5/Socks5Message.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/ipfilter/AbstractRemoteAddressFilter.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/stomp/StompSubframeAggregator.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/xml/XMLAttribute.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/ssl/OpenSslSessionContext.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/channel/ChannelFactory.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/compression/Bzip2Rand.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/socksx/v5/Socks5CommandRequestDecoder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/ssl/OpenSslServerContext.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/compression/Bzip2BitWriter.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/compression/Bzip2HuffmanAllocator.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/mqtt/MqttSubscribePayload.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/haproxy/package-info.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/compression/SnappyFramedEncoder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/stomp/StompSubframeEncoder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/compression/LzfDecoder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/rtsp/RtspHeaderValues.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/http2/Http2InboundFrameLogger.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-

jar/io/netty/handler/codec/mqtt/MqttUnacceptableProtocolVersionException.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/xml/XmlSpace.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/DecoderResultProvider.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/mqtt/MqttUnsubAckMessage.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/mqtt/MqttIdentifierRejectedException.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/stomp/StompHeaders.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/ssl/ApplicationProtocolUtil.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/mqtt/MqttPublishMessage.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/http/ClientCookieEncoder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/xml/XmlCharacters.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/mqtt/MqttMessage.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/ipfilter/IpFilterRuleType.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/example/stomp/StompClient.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/mqtt/MqttSubscribeMessage.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/ssl/JdkSslServerContext.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/xml/XmlDecoder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/http/HttpChunkedInput.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/xml/XmlEntityReference.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/http/websocketx/extensions/compression/DeflateEncoder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/ssl/OpenSslSessionStats.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketExtensionUtil.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/compression/Bzip2HuffmanStageDecoder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/http/websocketx/extensions/compression/DeflateFrameClientExtensionHandshaker.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/internal/tcnative/CertificateVerifier.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-

jar/io/netty/handler/codec/http/HTTPHeaderNames.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/example/spdy/server/SpdyServer.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/ssl/JdkSslEngine.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/socksx/v5/Socks5InitialRequestDecoder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketServerExtensionHandler.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/util/internal/IntegerHolder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/channel/AbstractEventLoop.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/channel/epoll/EpollChannelOption.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/ssl/OpenSslContext.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/xml/XmlDocumentStart.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/http/websocketx/extensions/compression/PerFrameDeflateEncoder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/stomp/StompCommand.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/http2/Http2OutboundFrameLogger.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/http/websocketx/extensions/compression/DeflateDecoder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/http/websocketx/extensions/package-info.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/stomp/DefaultLastStompContentSubframe.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/stomp/StompSubframe.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/mqtt/MqttConnectVariableHeader.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/compression/FastLzFrameDecoder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/ssl/Java7SslParametersUtils.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/xml/XmlDTD.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/example/http/websocketx/benchmarkserver/WebSocketServerInitializer.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/example/http2/helloworld/server/Http2ServerInitializer.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/spdy/SpdyFrameCodec.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-

jar/io/netty/util/DomainNameMapping.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/socksx/v4/Socks4ClientEncoder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/socksx/v4/Socks4ServerEncoder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/http/websocketx/extensions/compression/PerMessageDeflateEncoder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/compression/Lz4FrameDecoder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/ipfilter/package-info.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/compression/Bzip2BitReader.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/ssl/ApplicationProtocolConfig.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/ssl/OpenSslEngineMap.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/channel/epoll/NativeDatagramPacketArray.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/spdy/SpdyFrameDecoder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/json/JsonObjectDecoder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketClientExtension.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/mqtt/MqttEncoder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/ssl/OpenSslNpnApplicationProtocolNegotiator.java
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jar/io/netty/handler/ssl/SupportedCipherSuiteFilter.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/haproxy/HAProxyProxiedProtocol.java
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jar/io/netty/handler/ssl/SslUtils.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/util/Mapping.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/channel/ReflectiveChannelFactory.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/ipfilter/IpSubnetFilterRule.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/spdy/SpdyProtocolException.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/resolver/dns/DnsNameResolver.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/example/memcache/binary/MemcacheClient.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/socksx/v5/Socks5ServerEncoder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/ipfilter/UniqueIpFilter.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketServerExtensionHandshaker.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/example/memcache/binary/MemcacheClientHandler.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-

jar/io/netty/example/http2/helloworld/server/Http2Server.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/mqtt/MqttMessageFactory.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/util/concurrent/PromiseAggregator.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/ssl/JdkAlpnApplicationProtocolNegotiator.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/http/websocketx/extensions/compression/PerMessageDeflateDecoder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/xml/XmlElementStart.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/socksx/v4/Socks4Message.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/compression/Crc32.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/socksx/v5/Socks5CommandResponseDecoder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/resolver/NoopAddressResolverGroup.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/resolver/SimpleNameResolver.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketExtensionDecoder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/socksx/v5/AbstractSocks5Message.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/mqtt/MqttUnsubscribeMessage.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/mqtt/MqttConnectMessage.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketClientExtensionHandshaker.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/channel/epoll/AbstractEpollChannel.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/http/ServerCookieEncoder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/compression/Bzip2Decoder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/stomp/DefaultStompHeaders.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/socksx/package-info.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/haproxy/HAProxyConstants.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketServerExtension.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/http/HttpHeadersEncoder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-

jar/io/netty/handler/codec/rtsp/RtspHeaderNames.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/resolver/dns/DnsAddressResolverGroup.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/xml/XmlContent.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/proxy/Socks4ProxyHandler.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/example/spdy/client/SpdyClient.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/xml/XmlElement.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/spdy/SpdyHeaderBlockRawDecoder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/ssl/OpenSslEngine.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/example/spdy/client/HttpResponseClientHandler.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/xml/XmlProcessingInstruction.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/mqtt/MqttTopicSubscription.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/example/spdy/server/SpdyServerInitializer.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/ssl/JettyNpnSslEngine.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/ssl/OpenSslDefaultApplicationProtocolNegotiator.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/util/concurrent/PromiseNotifier.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/mqtt/MqttFixedHeader.java
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```

Found in path(s):

- * /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/channel/rxtx/RxtxChannelOption.java
- * /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/channel/sctp/SctpChannelOption.java
- * /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/channel/rxtx/RxtxChannelConfig.java
- * /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/channel/udt/UdtServerChannel.java
- * /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/channel/rxtx/RxtxChannel.java
- * /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/channel/rxtx/package-info.java
- * /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/channel/rxtx/DefaultRxtxChannelConfig.java
- * /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/channel/rxtx/RxtxDeviceAddress.java
- * /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/channel/oio/OioByteStreamChannel.java

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*/

/**

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

*/

/**

- * Set the { @code TCP_QUICKACK } option on the socket. See [TCP_QUICKACK](http://linux.die.net/man/7/tcp)
* for more details.

*/

Found in path(s):

* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/channel/epoll/EpollSocketChannelConfig.java

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Found in path(s):

* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/http/cors/CorsConfigBuilder.java

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Found in path(s):

* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/META-INF/maven/io.netty/netty-all/pom.xml

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* under the License.
*/
/*
* Written by Robert Harder and released to the public domain, as explained at
* http://creativecommons.org/licenses/publicdomain
*/
/**
* Enumeration of supported Base64 dialects.
* <p>
* The internal lookup tables in this class has been derived from
* <a href="http://iharder.sourceforge.net/current/java/base64/">Robert Harder's Public Domain
* Base64 Encoder/Decoder</a>.
*/
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codecs/base64/Base64Dialect.java
```

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* License for the specific language governing permissions and limitations
* under the License.
*/
/**
* A decoder that splits the received {@link ByteBuf}s dynamically by the
* value of the length field in the message. It is particularly useful when you
```

* decode a binary message which has an integer header field that represents the length of the message body or the whole message.

* <p>

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

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

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

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

```
* BEFORE DECODE (14 bytes)    AFTER DECODE (14 bytes)
* +-----+-----+ +-----+-----+
* | Length | Actual Content |---->| Length | Actual Content |
* | 0x000C | "HELLO, WORLD" |   | 0x000C | "HELLO, WORLD" |
* +-----+-----+ +-----+-----+
```

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

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

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

```
* BEFORE DECODE (14 bytes)    AFTER DECODE (12 bytes)
* +-----+-----+ +-----+
* | Length | Actual Content |---->| Actual Content |
* | 0x000C | "HELLO, WORLD" |   | "HELLO, WORLD" |
* +-----+-----+ +-----+
```

* **2 bytes length field at offset 0, do not strip header, the length field**
 * represents the length of the whole message

* In most cases, the length field represents the length of the message body only, as shown in the previous examples. However, in some protocols, the length field represents the length of the whole message, including the message header. In such a case, we specify a non-zero `lengthAdjustment`. Because the length value in this example message is always greater than the body length by `2`, we specify `-2` as `lengthAdjustment` for compensation.

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

```
* BEFORE DECODE (14 bytes)      AFTER DECODE (14 bytes)
* +-----+-----+-----+-----+ +-----+-----+-----+-----+
* | Length | Actual Content |---->| Length | Actual Content |
* | 0x000E | "HELLO, WORLD" |    | 0x000E | "HELLO, WORLD" |
* +-----+-----+-----+-----+ +-----+-----+-----+-----+
```

* **3 bytes length field at the end of 5 bytes header, do not strip header**

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

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

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

* **3 bytes length field at the beginning of 5 bytes header, do not strip header**

* This is an advanced example that shows the case where there is an extra header between the length field and the message body. You have to specify a positive `lengthAdjustment` so that the decoder counts the extra header into the frame length calculation.

```

* <pre>
* lengthFieldOffset = 0
* lengthFieldLength = 3
* <b>lengthAdjustment</b> = <b>2</b> (= the length of Header 1)
* initialBytesToStrip = 0
*
* BEFORE DECODE (17 bytes)           AFTER DECODE (17 bytes)
* +-----+-----+-----+-----+ +-----+-----+-----+-----+
* | Length | Header 1 | Actual Content |---->| Length | Header 1 | Actual Content |
* | 0x00000C | 0xCAFE | "HELLO, WORLD" |   | 0x00000C | 0xCAFE | "HELLO, WORLD" |
* +-----+-----+-----+-----+ +-----+-----+-----+-----+
* </pre>

```

* <h3>2 bytes length field at offset 1 in the middle of 4 bytes header,
* strip the first header field and the length field</h3>

* This is a combination of all the examples above. There are the prepended header before the length field and the extra header after the length field. The prepended header affects the <tt>lengthFieldOffset</tt> and the extra header affects the <tt>lengthAdjustment</tt>. We also specified a non-zero <tt>initialBytesToStrip</tt> to strip the length field and the prepended header from the frame. If you don't want to strip the prepended header, you could specify <tt>0</tt> for <tt>initialBytesToSkip</tt>.

```

* <pre>
* lengthFieldOffset = 1 (= the length of HDR1)
* lengthFieldLength = 2
* <b>lengthAdjustment</b> = <b>1</b> (= the length of HDR2)
* <b>initialBytesToStrip</b> = <b>3</b> (= the length of HDR1 + LEN)
*
* BEFORE DECODE (16 bytes)           AFTER DECODE (13 bytes)
* +-----+-----+-----+-----+ +-----+-----+-----+-----+
* | HDR1 | Length | HDR2 | Actual Content |---->| HDR2 | Actual Content |
* | 0xCA | 0x000C | 0xFE | "HELLO, WORLD" |   | 0xFE | "HELLO, WORLD" |
* +-----+-----+-----+-----+ +-----+-----+-----+-----+
* </pre>

```

* <h3>2 bytes length field at offset 1 in the middle of 4 bytes header,
* strip the first header field and the length field, the length field
* represents the length of the whole message</h3>

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

```

* <pre>
* lengthFieldOffset = 1

```

```

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

```

Found in path(s):

* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/LengthFieldBasedFrameDecoder.java

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```

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```

Found in path(s):

* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/flow/FlowControlHandler.java

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Found in path(s):

* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/buffer/UnsafeDirectSwappedByteBuf.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/util/internal/CleanerJava6.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/util/concurrent/FastThreadLocalThread.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/buffer/UnsafeHeapSwappedByteBuf.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/channel/DefaultChannelHandlerContext.java

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// <https://tools.ietf.org/html/rfc7540#section-8.1.2.2> makes a special exception for TE

Found in path(s):

* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/http2/HttpConversionUtil.java

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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/example/ocsp/OcspServerExample.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/example/ocsp/Digester.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/example/ocsp/OcspClientExample.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/example/ocsp/OcspUtils.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/example/ocsp/OcspRequestBuilder.java

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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/example/http2/helloworld/frame/server/Http2ServerInitializer.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/ssl/DelegatingSslContext.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/util/concurrent/RejectedExecutionHandler.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/http2/Http2GoAwayFrame.java

* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/util/concurrent/NonStickyEventExecutorGroup.java

* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/channel/PreferHeapByteBufAllocator.java

* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/util/internal/SocketUtils.java

* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/ssl/PemValue.java

* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/ssl/PemPrivateKey.java

* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/channel/kqueue/AbstractKQueueChannel.java

* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/channel/unix/PeerCredentials.java

* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/channel/unix/Limits.java

* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/util/ResourceLeakTracker.java

* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/channel/kqueue/AbstractKQueueStreamChannel.java

* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/ssl/util/X509TrustManagerWrapper.java

* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/util/concurrent/UnaryPromiseNotifier.java

* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/util/concurrent/EventExecutorChooserFactory.java

* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/buffer/PooledDuplicatedByteBuf.java

* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/http/websocketx/WebSocketChunkedInput.java

* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/haproxy/HAProxySSLTLV.java

* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/http2/DefaultHttp2DataFrame.java

* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/smtp/LastSmtContent.java

* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/ssl/OpenSslCertificateException.java

* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/channel/kqueue/KQueueDatagramChannel.java

* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/http2/DefaultHttp2HeadersFrame.java

* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/channel/kqueue/KQueueChannelConfig.java

* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/channel/kqueue/package-info.java

* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/buffer/WrappedCompositeByteBuf.java

* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/channel/unix/SocketWritableByteChannel.java

* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/buffer/PooledSlicedByteBuf.java

* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/internal/tcnative/CertificateRequestedCallback.java

* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/util/internal/NativeLibraryUtil.java

* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/channel/ChannelInboundInvoker.java

* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/buffer/WrappedUnpooledUnsafeDirectByteBuf.java

* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/string/LineEncoder.java

* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/channel/group/VoidChannelGroupFuture.java

* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/haproxy/HAProxyTLV.java

* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/buffer/AbstractUnpooledSlicedByteBuf.java

* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/channel/kqueue/KQueueEventLoop.java

* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/http2/Http2FrameStream.java

* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/resolver/RoundRobinInetAddressResolver.java

* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/util/internal/ConstantTimeUtils.java

* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/dns/AbstractDnsOptPseudoRrRecord.java

* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/example/http2/helloworld/multiplex/server/Http2ServerInitializer.java

* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/http2/Http2WindowUpdateFrame.java

* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/resolver/dns/DnsCache.java

* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/channel/epoll/NativeStaticallyReferencedJniMethods.java

* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/channel/kqueue/KQueueDomainSocketChannelConfig.java

* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/channel/kqueue/KQueueServerSocketChannelConfig.java

* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/smtp/SmtpUtils.java

* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/ssl/ReferenceCountedOpenSslEngine.java

* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/smtp/package-info.java

* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/buffer/AdvancedLeakAwareCompositeByteBuf.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/buffer/UnpooledUnsafeNoCleanerDirectByteBuf.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/ssl/OpenSslExtendedKeyMaterialManager.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/smtp/SmtpResponse.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/util/internal/OutOfDirectMemoryError.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/internal/tcnative/SessionTicketKey.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/smtp/DefaultSmtpResponse.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/util/internal/logging/Log4J2LoggerFactory.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/channel/kqueue/KQueueStaticallyReferencedJniMethods.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/ssl/ReferenceCountedOpenSslServerContext.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/util/BooleanSupplier.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/flush/package-info.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/http2/Http2SettingsFrame.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/http2/Http2ChannelDuplexHandler.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/CodecOutputList.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/http2/Http2FrameStreamException.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/smtp/SmtpRequestEncoder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/flow/package-info.java
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/http2/DefaultHttp2GoAwayFrame.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/channel/kqueue/BsdSocket.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/ssl/Java8SslUtils.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/channel/kqueue/KQueueServerDomainSocketChannel.java

* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/channel/kqueue/Native.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/dns/DnsOptPseudoRecord.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/buffer/AbstractPooledDerivedByteBuf.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/dns/DnsOptEcsRecord.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/util/concurrent/DefaultEventExecutorChooserFactory.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/channel/SelectStrategyFactory.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/smtp/SmtpContent.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/util/concurrent/RejectedExecutionHandlers.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/compression/CompressionUtil.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/http2/Http2FrameStreamVisitor.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/channel/unix/ErrorsStaticallyReferencedJniMethods.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/http2/AbstractHttp2StreamFrame.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/http2/DefaultHttp2SettingsFrame.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/http/HttpServerKeepAliveHandler.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/channel/kqueue/KQueue.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/ssl/OpenSslKeyMaterialManager.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/buffer/SimpleLeakAwareCompositeByteBuf.java
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/socks/SocksInitRequestDecoder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/channel/ChannelPromiseNotifier.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/util/concurrent/EventExecutor.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/util/AttributeKey.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/example/discard/DiscardClient.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/example/echo/EchoServer.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/example/proxy/HexDumpProxyBackendHandler.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/channel/socket/oio/OioDatagramChannel.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/buffer/CompositeByteBuf.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/util/concurrent/MultithreadEventExecutorGroup.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/socksx/v4/Socks4CommandRequest.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/channel/oio/OioEventLoopGroup.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/http/HttpHeaders.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/compression/JZlibDecoder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/http/HttpObject.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/example/udt/echo/rendezvous/MsgEchoPeerHandler.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/socks/UnknownSocksRequest.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/buffer/PooledDirectByteBuf.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/buffer/ReadOnlyByteBuf.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/util/concurrent/DefaultEventExecutorGroup.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-

jar/io/netty/example/udt/echo/message/MsgEchoClient.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/socksx/v4/DefaultSocks4CommandRequest.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/compression/SnappyFrameEncoder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/channel/EventLoop.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/http/websocketx/WebSocketServerHandshaker07.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/TooLongFrameException.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/http/Cookie.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/channel/FileRegion.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/channel/ChannelFutureListener.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/compression/ZlibWrapper.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/channel/ChannelOption.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/socksx/v5/DefaultSocks5PasswordAuthRequest.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/http/multipart/Attribute.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/socks/SocksMessage.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/marshalling/LimitingByteInput.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/http/websocketx/WebSocketClientHandshaker13.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/http/multipart/MemoryFileUpload.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/util/internal/logging/InternalLogLevel.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/channel/nio/NioEventLoop.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/example/udt/echo/message/package-info.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/example/sctp/SctpEchoClientHandler.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/example/udt/echo/message/MsgEchoClientHandler.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/util/concurrent/GlobalEventExecutor.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/http/multipart/FileUpload.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-

jar/io/netty/channel/udt/DefaultUdtChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/http/DefaultHttpHeaders.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/socksx/v4/Socks4ClientDecoder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/channel/group/ChannelGroupFuture.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/socksx/v5/Socks5InitialResponse.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/serialization/package-info.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/socksx/v5/package-info.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/rtsp/RtspResponseDecoder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/timeout/package-info.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/http/multipart/HttpPostRequestDecoder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/DecoderException.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/http/websocketx/WebSocketClientHandshaker08.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/channel/local/LocalAddress.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/example/proxy/HexDumpProxyFrontendHandler.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/channel/ChannelFlushPromiseNotifier.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/PrematureChannelClosureException.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/http/multipart/HttpData.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/socksx/SocksMessage.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/example/udt/echo/bytes/ByteEchoClient.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/util/concurrent/SingleThreadEventExecutor.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/channel/udt/nio/package-info.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/channel/udt/UdtMessage.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/marshalling/ChannelBufferByteOutput.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/example/socksproxy/RelayHandler.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-

jar/io/netty/example/qotm/QuoteOfTheMomentClient.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/example/http/websocketx/server/WebSocketFrameHandler.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/http/multipart/DiskAttribute.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/DelimiterBasedFrameDecoder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/http/HttpMessage.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/channel/group/package-info.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/buffer/AbstractByteBuf.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/base64/package-info.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/http/HttpResponseEncoder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/MessageToMessageEncoder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/rtsp/RtspResponseStatuses.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/http/websocketx/PongWebSocketFrame.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/util/concurrent/FailedFuture.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/channel/EventLoopGroup.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/channel/socket/oio/package-info.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/string/StringEncoder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/example/http/snoop/HttpSnoopServer.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/http/websocketx/WebSocketServerHandshaker00.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/bytes/ByteArrayEncoder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/timeout/IdleState.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/buffer/PoolChunk.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/http/HttpClientCodec.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/channel/nio/NioTask.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-

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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/example/http/websocketx/server/WebSocketServer.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codecs/compression/ZlibUtil.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codecs/rtsp/package-info.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/ssl/SslHandler.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codecs/marshalling/ThreadLocalMarshallerProvider.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codecs/http/QueryStringEncoder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/example/udt/echo/bytes/ByteEchoServer.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/channel/oio/AbstractOioChannel.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/example/factorial/BigIntegerDecoder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/example/udt/echo/bytes/ByteEchoServerHandler.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/example/file/FileServer.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codecs/CorruptedFrameException.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/example/telnet/TelnetServerInitializer.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codecs/base64/Base64Decoder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/bootstrap/AbstractBootstrap.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/example/socksproxy/SocksServerUtils.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/util/internal/logging/Slf4JLoggerFactory.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codecs/http/DefaultHttpMessage.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/channel/nio/AbstractNioByteChannel.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/example/factorial/FactorialClient.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/buffer/SwappedByteBuf.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-

jar/io/netty/example/factorial/FactorialServerHandler.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/http/DefaultHttpResponse.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/socks/SocksRequest.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/sctp/SctpOutboundByteStreamHandler.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/http/multipart/AbstractDiskHttpData.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/compression/DecompressionException.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/example/udt/echo/rendezvousBytes/ByteEchoPeerTwo.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/example/http/websocketx/server/WebSocketIndexPageHandler.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/socks/SocksCommonUtils.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/LineBasedFrameDecoder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/channel/nio/AbstractNioChannel.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/marshalling/MarshallingDecoder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/http/DefaultLastHttpContent.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/http/HttpResponseStatus.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/channel/socket/DefaultDatagramChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/example/localecho/LocalEchoClientHandler.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/example/uptime/UptimeClient.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/channel/embedded/EmbeddedEventLoop.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/channel/VoidChannelPromise.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/compression/SnappyFrameDecoder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/serialization/SoftReferenceMap.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/ssl/NotSslRecordException.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/channel/sctp/oio/package-info.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/example/udt/echo/rendezvousBytes/ByteEchoPeerHandler.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-

jar/io/netty/channel/DefaultChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/example/udt/echo/bytes/ByteEchoClientHandler.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/util/Timer.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/example/http/upload/HttpUploadServer.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/util/HashedWheelTimer.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/util/internal/SystemPropertyUtil.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/compression/JdkZlibEncoder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/ReplayingDecoderByteBuf.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/http/websocketx/WebSocket00FrameDecoder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/serialization/CompatibleObjectEncoder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/example/socksproxy/SocksServerInitializer.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/channel/ChannelPipelineException.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/example/worldclock/WorldClockClient.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/channel/ChannelPromise.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/example/telnet/TelnetServer.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/channel/ChannelOutboundHandler.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/channel/local/LocalServerChannel.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/channel/socket/DatagramPacket.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/example/http/file/HttpStaticFileServerHandler.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/spdy/SpdyHttpResponseStreamIdHandler.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/rtsp/RtspRequestDecoder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/example/objectecho/ObjectEchoClient.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/example/qotm/QuoteOfTheMomentServer.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-

jar/io/netty/handler/codec/serialization/ObjectEncoderOutputStream.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/marshalling/UnmarshallerProvider.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/channel/embedded/package-info.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/channel/nio/AbstractNioMessageChannel.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/http/websocketx/WebSocketFrame.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/example/http/snoop/HttpSnoopClientInitializer.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/compression/Snappy.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/channel/ThreadPerChannelEventLoop.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/marshalling/ThreadLocalUnmarshallerProvider.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/buffer/DuplicatedByteBuf.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/UnsupportedMessageTypeException.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/ssl/util/package-info.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/example/http/cors/HttpCorsServerInitializer.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/example/udt/echo/message/MsgEchoServerHandler.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/buffer/PoolSubpage.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/MessageToMessageCodec.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/http/multipart/HttpPostMultipartRequestDecoder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/util/internal/StringUtil.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/channel/FailedChannelFuture.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/DecoderResult.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-

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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/http/websocketx/WebSocket00FrameEncoder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/marshalling/MarshallingEncoder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/http/websocketx/BinaryWebSocketFrame.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/channel/AbstractServerChannel.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/util/AttributeMap.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/socksx/v4/Socks4ServerDecoder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/example/udt/echo/package-info.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/example/udt/echo/rendezvous/Config.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/buffer/ByteBufOutputStream.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/http/multipart/MixedAttribute.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/channel/socket/ServerSocketChannel.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-

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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/stream/ChunkedNioStream.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/buffer/ByteBufInputStream.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/util/DefaultAttributeMap.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/example/http/upload/HttpUploadServerInitializer.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/util/concurrent/DefaultEventExecutor.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/channel/ChannelException.java
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/example/securechat/SecureChatClientInitializer.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/util/Attribute.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-

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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/example/http/upload/HttpUploadClientHandler.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/channel/group/CombinedIterator.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/stream/ChunkedNioFile.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/example/factorial/FactorialServerInitializer.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/channel/local/package-info.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/example/securechat/SecureChatClient.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/bootstrap/ServerBootstrap.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/package-info.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/channel/socket/oio/OioSocketChannel.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/http/HttpRequestDecoder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/socksx/v5/Socks5InitialRequest.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/example/proxy/HexDumpProxyInitializer.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/util/IllegalReferenceCountException.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/http/websocketx/PingWebSocketFrame.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/timeout/TimeoutException.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/channel/sctp/nio/package-info.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/http/websocketx/WebSocketClientHandshaker07.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/compression/JZlibEncoder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/http/multipart/CaseIgnoringComparator.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/MessageAggregator.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/channel/socket/nio/NioDatagramChannel.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/http/websocketx/WebSocketServerHandshaker.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/channel/socket/DatagramChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-

jar/io/netty/handler/codec/marshalling/package-info.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/example/factorial/NumberEncoder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/socksx/v5/Socks5CommandRequest.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/channel/CombinedChannelDuplexHandler.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/FixedLengthFrameDecoder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/ssl/package-info.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/channel/nio/package-info.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/channel/group/ChannelGroupFutureListener.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/channel/DefaultFileRegion.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/protobuf/package-info.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/socksx/v5/Socks5PasswordAuthRequest.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/serialization/ReferenceMap.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/spdy/DefaultSpdySettingsFrame.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/buffer/UnpooledByteBufAllocator.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/timeout/IdleStateEvent.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/http/websocketx/WebSocketUtil.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/stream/ChunkedFile.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/socks/SocksMessageEncoder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/example/http/upload/HttpUploadServerHandler.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/channel/ChannelMetadata.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/logging/LogLevel.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/spdy/SpdySession.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-

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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/util/Timeout.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/channel/embedded/EmbeddedChannel.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/ReplayingDecoder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/http/websocketx/ContinuationWebSocketFrame.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/socks/SocksResponse.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/example/qotm/QuoteOfTheMomentClientHandler.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/util/internal/PlatformDependent.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/socks/SocksCmdRequest.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/example/echo/EchoServerHandler.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/http/multipart/DiskFileUpload.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/example/securechat/SecureChatServerInitializer.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/socks/SocksCmdRequestDecoder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/http/multipart/MemoryAttribute.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/socksx/v5/Socks5CommandResponse.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/channel/udt/package-info.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/util/internal/logging/AbstractInternalLogger.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/channel/SucceededChannelFuture.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/marshalling/DefaultMarshallerProvider.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/timeout/ReadTimeoutException.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/http/QueryStringDecoder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-

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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/example/sctp/SctpEchoServer.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/channel/ChannelPipeline.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/buffer/ByteBufUtil.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/example/telnet/TelnetClient.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/serialization/ObjectDecoder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-

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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/serialization/WeakReferenceMap.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/channel/oio/AbstractOioMessageChannel.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/buffer/UnpooledHeapByteBuf.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/channel/socket/DatagramChannel.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/bootstrap/Bootstrap.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/example/qotm/QuoteOfTheMomentServerHandler.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/example/uptime/UptimeClientHandler.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/EncoderException.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/http/HttpResponseDecoder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/example/http/websocketx/server/package-info.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/channel/DefaultChannelPipeline.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/channel/socket/oio/OioServerSocketChannel.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/example/http/snoop/HttpSnoopServerInitializer.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/rtsp/RtspRequestEncoder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/spdy/SpdyHttpEncoder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/example/objectecho/ObjectEchoClientHandler.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/stream/ChunkedStream.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/marshalling/ChannelBufferByteInput.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/example/telnet/TelnetServerHandler.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/channel/RecvByteBufAllocator.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/channel/ChannelInitializer.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-

jar/io/netty/handler/timeout/ReadTimeoutHandler.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/socksx/v4/DefaultSocks4CommandResponse.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/example/worldclock/WorldClockClientInitializer.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/example/localecho/LocalEcho.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/example/http/cors/HttpCorsServer.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/example/discard/DiscardServerHandler.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/http/multipart/HttpPostStandardRequestDecoder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/bootstrap/package-info.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/serialization/CompactObjectInputStream.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/example/worldclock/WorldClockClientHandler.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/example/objectecho/ObjectEchoServer.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/channel/local/LocalEventLoopGroup.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-

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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/compression/ZlibCodecFactory.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/example/sctp/SctpEchoClient.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/http/HTTPHeaderDateFormat.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/http/multipart/package-info.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/example/proxy/HexDumpProxy.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/http/CookieDecoder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/channel/nio/NioEventLoopGroup.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/marshalling/CompatibleMarshallingEncoder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/util/package-info.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-

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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/util/concurrent/BlockingOperationException.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/example/sctp/SctpEchoServerHandler.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/example/socksproxy/SocksServerHandler.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/channel/AdaptiveRecvByteBufAllocator.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-

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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/channel/epoll/EpollDatagramChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/channel/socket/nio/NioServerSocketChannel.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/marshalling/DefaultUnmarshallerProvider.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/example/http/upload/HttpUploadClient.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/channel/sctp/package-info.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/socks/UnknownSocksResponse.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/http/multipart/HttpDataFactory.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/socksx/v5/DefaultSocks5InitialRequest.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/serialization/ClassResolvers.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/http/websocketx/WebSocketServerProtocolHandler.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/serialization/CachingClassResolver.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/socksx/v4/Socks4CommandResponse.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/http/HttpContentEncoder.java
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jar/io/netty/handler/traffic/GlobalChannelTrafficShapingHandler.java

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 * under the License.
 */
/**
 * Handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in
 * its {@link ChannelPipeline}.
 *
 * <h3>Sub-types</h3>
 * <p>
 * { @link ChannelHandler } itself does not provide many methods, but you usually have to implement one of its
 * subtypes:
 * <ul>
 * <li>{ @link ChannelInboundHandler } to handle inbound I/O events, and</li>
 * <li>{ @link ChannelOutboundHandler } to handle outbound I/O operations.</li>
 * </ul>
 * </p>
 * <p>
 * Alternatively, the following adapter classes are provided for your convenience:
 * <ul>
 * <li>{ @link ChannelInboundHandlerAdapter } to handle inbound I/O events,</li>
 * <li>{ @link ChannelOutboundHandlerAdapter } to handle outbound I/O operations, and</li>
 * <li>{ @link ChannelDuplexHandler } to handle both inbound and outbound events</li>
 * </ul>
 * </p>
 * <p>
 * For more information, please refer to the documentation of each subtype.
 * </p>
 *
 * <h3>The context object</h3>
 * <p>
 * A { @link ChannelHandler } is provided with a { @link ChannelHandlerContext }
 * object. A { @link ChannelHandler } is supposed to interact with the
 * { @link ChannelPipeline } it belongs to via a context object. Using the
 * context object, the { @link ChannelHandler } can pass events upstream or
```

* downstream, modify the pipeline dynamically, or store the information
* (using { @link AttributeKey }s) which is specific to the handler.

*

* <h3>State management</h3>

*

* A { @link ChannelHandler } often needs to store some stateful information.

* The simplest and recommended approach is to use member variables:

* <pre>

* public interface Message {

* // your methods here

* }

*

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

*

* private boolean loggedIn;

*

* { @code @Override }

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

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

* if (message instanceof LoginMessage) {

* authenticate((LoginMessage) message);

* loggedIn = true;

* } else (message instanceof GetDataMessage) {

* if (loggedIn) {

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

* } else {

* fail();

* }

* }

* }

* ...

* }

* </pre>

* Because the handler instance has a state variable which is dedicated to

* one connection, you have to create a new handler instance for each new

* channel to avoid a race condition where a unauthenticated client can get

* the confidential information:

* <pre>

* // Create a new handler instance per channel.

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

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

* { @code @Override }

* public void initChannel({ @link Channel } channel) {

* channel.pipeline().addLast("handler", new DataServerHandler());

* }

* }

*

* </pre>

```

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

```

```

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

```

Found in path(s):

```

* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/channel/ChannelHandler.java

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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/util/internal/CleanerJava9.java

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/**

* Utility class for { @link ByteBuf } that encodes and decodes to and from

* [Base64](http://en.wikipedia.org/wiki/Base64) notation.

* <p>

* The encoding and decoding algorithm in this class has been derived from

* [Robert Harder's Public Domain](http://iharder.sourceforge.net/current/java/base64/)

* Base64 Encoder/Decoder.

*/

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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/redis/ArrayRedisMessage.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/redis/FixedRedisMessagePool.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/redis/IntegerRedisMessage.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/example/redis/RedisClient.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/redis/RedisArrayAggregator.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/redis/FullBulkStringRedisMessage.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/redis/ErrorRedisMessage.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/redis/DefaultLastBulkStringRedisContent.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/redis/SimpleStringRedisMessage.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/redis/RedisConstants.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/redis/RedisMessageType.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/redis/RedisBulkStringAggregator.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/example/http2/helloworld/frame/server/Http2OrHttpHandler.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/redis/LastBulkStringRedisContent.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/example/http2/helloworld/multiplex/server/HelloWorldHttp2Handler.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/redis/RedisDecoder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/redis/ArrayHeaderRedisMessage.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/redis/BulkStringRedisContent.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-

jar/io/netty/handler/codec/redis/RedisCodecUtil.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/redis/RedisEncoder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/redis/RedisMessage.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/redis/package-info.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/redis/RedisMessagePool.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/redis/RedisCodecException.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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jar/io/netty/example/http2/helloworld/frame/server/HelloWorldHttp2Handler.java
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jar/io/netty/example/http2/helloworld/multiplex/server/Http2OrHttpHandler.java
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/http/cookie/DefaultCookie.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/http/HttpUtil.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/channel/unix/DomainSocketChannel.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/resolver/dns/DnsQueryContextManager.java
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/channel/epoll/AbstractEpollStreamChannel.java
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/buffer/AbstractUnsafeSwappedByteBuf.java
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/resolver/dns/SingletonDnsServerAddresses.java
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/util/internal/PriorityQueueNode.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/channel/unix/DomainSocketAddress.java
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/resolver/DefaultHostsFileEntriesResolver.java

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jar/io/netty/channel/sctp/SctpChannel.java
 * /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/util/concurrent/DefaultProgressivePromise.java

* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/buffer/DefaultByteBufHolder.java
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/util/internal/AppendableCharSequence.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/socksx/v5/Socks5CommandStatus.java
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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/util/internal/PlatformDependent0.java

* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/http/FullHttpRequest.java

* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/channel/ChannelProgressiveFuture.java

* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/memcache/binary/BinaryMemcacheMessage.java

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* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/traffic/package-info.java
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1.247 jackson-dataformat-xml 2.10.0

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1.248 apache-axis2-transport-http 1.6.2

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1.249 junit-jupiter-junit-jupiter-params 5.7.2

1.249.1 Available under license :

```
import java.io.File
import java.net.URI
```

```
data class License(val name: String, val url: URI, val headerFile: File)
```

```
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1.251 jettison-json-stax-implementation 1.1

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1.252 readable-stream 2.3.6

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1.253 apache-parquet-common 1.12.0

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1.257 re2j 1.1

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1.258 curator-recipes 4.2.0

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1.259 excel.js 5.1.1

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1.260 aws-java-sdk-for-aws-sts 1.11.555

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1.261 opensaml 2.6.1

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1.262 axiom-api 1.2.21

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1.266 cloudwatch-metrics-for-aws-java-sdk

1.11.155

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1.267 fs-extra 7.0.1

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1.268 buffer-crc32 0.2.13

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1.269 kerby-kerb-server 1.0.1

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1.270 d3-contour 1.3.2

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1.272 jackson-core 2.10.1

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1.273 classlist 1.1.20150312

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1.274 axis2-java 1.7.9

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1.276 java-servlet-api 3.0.1

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1.282 jakarta-annotations-api 1.3.5

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1.283 aws-sdk-for-java-core 1.11.155

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1.284 commons-codec 1.15

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1.287 aws-java-sdk-for-amazon-kinesis

1.11.172

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1.288 jackson-xc 2.10.5

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1.289 d3-format 1.2.2

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1.290 filesaverjs 1.3.3

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1.291 stringtemplate4 3.2.1

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1.292 ieee754 v1.2.1

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1.293 apache-log4j-to-slf4j-adapter 2.14.1

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1.296 javascript-md5 v2.18.0

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1.297 nanohttpd-core 2.3.1

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1.298 uri-js 4.2.2

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1.299 d3-force 1.2.1

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1.300 apache-commons-math 3.4.1

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The initial code for shuffling an array (originally in class "org.apache.commons.math3.random.RandomDataGenerator", now replaced by a method in class "org.apache.commons.math3.util.MathArrays") was inspired from the algorithm description provided in "Algorithms", by Ian Craw and John Pulham (University of Aberdeen 1999). The textbook (containing a proof that the shuffle is uniformly random) is available here:

<http://citeseerx.ist.psu.edu/viewdoc/download;?doi=10.1.1.173.1898&rep=rep1&type=pdf>

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and PowellOptimizer (package org.apache.commons.math3.optimization.general)
classes are based on the Python code in module "optimize.py" (version 0.5)
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1.305 slf4j-api-module 1.7.25

1.306 apache-commons-lang 2.4

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1.307 d3-transition 1.1.1

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1.308 commons-logging 1.2

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* /opt/cola/permits/1097547722_1602103998.89/0/okhttp-2-7-5-sources-1-jar/com/squareup/okhttp/internal/http/HttpStream.java
* /opt/cola/permits/1097547722_1602103998.89/0/okhttp-2-7-5-sources-1-jar/com/squareup/okhttp/internal/http/Http1xStream.java
* /opt/cola/permits/1097547722_1602103998.89/0/okhttp-2-7-5-sources-1-jar/com/squareup/okhttp/internal/http/Http2xStream.java
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* /opt/cola/permits/1097547722_1602103998.89/0/okhttp-2-7-5-sources-1-jar/com/squareup/okhttp/HttpUrl.java
* /opt/cola/permits/1097547722_1602103998.89/0/okhttp-2-7-5-sources-1-jar/com/squareup/okhttp/internal/io/FileSystem.java
* /opt/cola/permits/1097547722_1602103998.89/0/okhttp-2-7-5-sources-1-jar/com/squareup/okhttp/internal/http/RouteException.java
* /opt/cola/permits/1097547722_1602103998.89/0/okhttp-2-7-5-sources-1-jar/com/squareup/okhttp/internal/http/StreamAllocation.java
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* /opt/cola/permits/1097547722_1602103998.89/0/okhttp-2-7-5-sources-1-jar/com/squareup/okhttp/Route.java
* /opt/cola/permits/1097547722_1602103998.89/0/okhttp-2-7-5-sources-1-jar/com/squareup/okhttp/internal/framed/NameValuePairBlockReader.java
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* /opt/cola/permits/1097547722_1602103998.89/0/okhttp-2-7-5-sources-1-jar/com/squareup/okhttp/internal/http/AuthenticatorAdapter.java
* /opt/cola/permits/1097547722_1602103998.89/0/okhttp-2-7-5-sources-1-jar/com/squareup/okhttp/internal/framed/Variant.java
* /opt/cola/permits/1097547722_1602103998.89/0/okhttp-2-7-5-sources-1-jar/com/squareup/okhttp/Authenticator.java
* /opt/cola/permits/1097547722_1602103998.89/0/okhttp-2-7-5-sources-1-jar/com/squareup/okhttp/internal/RouteDatabase.java
* /opt/cola/permits/1097547722_1602103998.89/0/okhttp-2-7-5-sources-1-jar/com/squareup/okhttp/internal/InternalCache.java
* /opt/cola/permits/1097547722_1602103998.89/0/okhttp-2-7-5-sources-1-jar/com/squareup/okhttp/internal/framed/ErrorCode.java

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jar/com/squareup/okhttp/internal/DiskLruCache.java
* /opt/cola/permits/1097547722_1602103998.89/0/okhttp-2-7-5-sources-1-
jar/com/squareup/okhttp/internal/http/HeaderParser.java
* /opt/cola/permits/1097547722_1602103998.89/0/okhttp-2-7-5-sources-1-
jar/com/squareup/okhttp/internal/framed/FrameWriter.java
* /opt/cola/permits/1097547722_1602103998.89/0/okhttp-2-7-5-sources-1-
jar/com/squareup/okhttp/internal/framed/FrameReader.java
* /opt/cola/permits/1097547722_1602103998.89/0/okhttp-2-7-5-sources-1-
jar/com/squareup/okhttp/internal/framed/FramedStream.java
* /opt/cola/permits/1097547722_1602103998.89/0/okhttp-2-7-5-sources-1-
jar/com/squareup/okhttp/internal/framed/FramedConnection.java
* /opt/cola/permits/1097547722_1602103998.89/0/okhttp-2-7-5-sources-1-
jar/com/squareup/okhttp/internal/http/HttpDate.java
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- * /opt/cola/permits/1097547722_1602103998.89/0/okhttp-2-7-5-sources-1-jar/com/squareup/okhttp/FormEncodingBuilder.java
- * /opt/cola/permits/1097547722_1602103998.89/0/okhttp-2-7-5-sources-1-jar/com/squareup/okhttp/internal/Version.java
- * /opt/cola/permits/1097547722_1602103998.89/0/okhttp-2-7-5-sources-1-jar/com/squareup/okhttp/internal/framed/PushObserver.java
- * /opt/cola/permits/1097547722_1602103998.89/0/okhttp-2-7-5-sources-1-jar/com/squareup/okhttp/CertificatePinner.java
- * /opt/cola/permits/1097547722_1602103998.89/0/okhttp-2-7-5-sources-1-jar/com/squareup/okhttp/ResponseBody.java
- * /opt/cola/permits/1097547722_1602103998.89/0/okhttp-2-7-5-sources-1-jar/com/squareup/okhttp/internal/http/CacheRequest.java
- * /opt/cola/permits/1097547722_1602103998.89/0/okhttp-2-7-5-sources-1-jar/com/squareup/okhttp/TlsVersion.java
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- * /opt/cola/permits/1097547722_1602103998.89/0/okhttp-2-7-5-sources-1-jar/com/squareup/okhttp/Callback.java
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- * /opt/cola/permits/1097547722_1602103998.89/0/okhttp-2-7-5-sources-1-jar/com/squareup/okhttp/RequestBody.java
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- * /opt/cola/permits/1097547722_1602103998.89/0/okhttp-2-7-5-sources-1-jar/com/squareup/okhttp/MultipartBuilder.java
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- * /opt/cola/permits/1097547722_1602103998.89/0/okhttp-2-7-5-sources-1-jar/com/squareup/okhttp/OkHttpClient.java
- * /opt/cola/permits/1097547722_1602103998.89/0/okhttp-2-7-5-sources-1-jar/com/squareup/okhttp/internal/http/RouteSelector.java
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- * /opt/cola/permits/1097547722_1602103998.89/0/okhttp-2-7-5-sources-1-jar/com/squareup/okhttp/Connection.java
- * /opt/cola/permits/1097547722_1602103998.89/0/okhttp-2-7-5-sources-1-jar/com/squareup/okhttp/internal/OptionalMethod.java
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- * /opt/cola/permits/1097547722_1602103998.89/0/okhttp-2-7-5-sources-1-jar/com/squareup/okhttp/internal/tls/OkHostnameVerifier.java
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1.311 brave-instrumentation-for-reactor-netty- http 1.0.10

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1.312 jmes-path-query-library 1.11.257

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Jdom-contrib version 1.1.3

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[1] <https://github.com/hunterhacker/jdom/blob/master/LICENSE.txt>

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[2] <https://www.osgeo.org/sites/osgeo.org/files/Page/osgeo-bsd-license.txt>

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core/src/java/org/apache/lucene/util/compress/LZ4.java is a Java implementation of the LZ4 (<https://github.com/lz4/lz4/tree/dev/lib>) compression format for Lucene's DataInput/DataOutput abstractions.

LZ4 Library

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VERSION: 2.1 PoliMorf
BUILD: 2016-02-13 19:37:50+01:00
GIT: 6e63b53

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Version 3, 29 June 2007

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1.315 jackson-core 2.9.0

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1.316 log4j-api 2.14.1

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1.317 jdom 1.0

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/*--

\$Id: Comment.java,v 1.32 2004/02/11 21:12:43 jhunter Exp \$

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*/

package org.jdom;

/**

* An XML comment. Methods allow the user to get and set the text of the
* comment.

*

* @version \$Revision: 1.32 \$, \$Date: 2004/02/11 21:12:43 \$

* @author Brett McLaughlin

* @author Jason Hunter

*/

public class Comment extends Content {

private static final String CVS_ID =

"@(#) \$RCSfile: Comment.java,v \$ \$Revision: 1.32 \$ \$Date: 2004/02/11 21:12:43 \$ \$Name: jdom_1_0 \$";

/** Text of the <code>Comment</code> */

protected String text;

/**

* Default, no-args constructor for implementations to use if needed.

*/

protected Comment() {}

```

/**
 * This creates the comment with the supplied text.
 *
 * @param text <code>String</code> content of comment.
 */
public Comment(String text) {
    setText(text);
}

/**
 * Returns the XPath 1.0 string value of this element, which is the
 * text of this comment.
 *
 * @return the text of this comment
 */
public String getValue() {
    return text;
}

/**
 * This returns the textual data within the <code>Comment</code>.
 *
 * @return <code>String</code> - text of comment.
 */
public String getText() {
    return text;
}

/**
 * This will set the value of the <code>Comment</code>.
 *
 * @param text <code>String</code> text for comment.
 * @return <code>Comment</code> - this Comment modified.
 * @throws IllegalArgumentException if the given text is illegal for a
 *         Comment.
 */
public Comment setText(String text) {
    String reason;
    if ((reason = Verifier.checkCommentData(text)) != null) {
        throw new IllegalArgumentException(text, "comment", reason);
    }

    this.text = text;
    return this;
}

```

```

/**
 * This returns a <code>String</code> representation of the
 * <code>Comment</code>, suitable for debugging. If the XML
 * representation of the <code>Comment</code> is desired,
 * { @link org.jdom.output.XMLOutputter#outputString(Comment)}
 * should be used.
 *
 * @return <code>String</code> - information about the
 *     <code>Attribute</code>
 */
public String toString() {
    return new StringBuffer()
        .append("[Comment: ")
        .append(new org.jdom.output.XMLOutputter().outputString(this))
        .append("]")
        .toString();
}
}

```

1.318 apache-commons-pool 1.6

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1.319 apache-avro 1.7.7

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1.320 animal-sniffer-annotation 1.14

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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 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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(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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1.324 apache-poi-ooxml 3.12

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1.331 json-library-from-android-sdk

0.0.20131108.vaadin1

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```
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jar/org/json/JSONException.java
* /opt/cola/permits/1089224571_1611250185.24/0/android-json-0-0-20131108-vaadin1-sources-
jar/org/json/JSONTokener.java
* /opt/cola/permits/1089224571_1611250185.24/0/android-json-0-0-20131108-vaadin1-sources-
jar/org/json/JSONStringer.java
* /opt/cola/permits/1089224571_1611250185.24/0/android-json-0-0-20131108-vaadin1-sources-
jar/org/json/JSONObject.java
* /opt/cola/permits/1089224571_1611250185.24/0/android-json-0-0-20131108-vaadin1-sources-
jar/org/json/JSONArray.java
* /opt/cola/permits/1089224571_1611250185.24/0/android-json-0-0-20131108-vaadin1-sources-
```

1.332 apache-calcite-avatica-metrics 1.10.0

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1.333 apache-james-mime4j 0.7.2

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1.334 d3-force 1.1.0

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1.335 strict-uri-encode 1.1.0

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1.336 declare 0.0.8

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1.337 aws-sdk-for-java-models 1.11.172

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1.338 jackson-annotations 2.10.0

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1.339 json-smart 2.3

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```

Found in path(s):

```
* /opt/cola/permits/1150838314_1617698236.45/0/json-smart-2-3-sources-3-
jar/net/minidev/json/parser/JSONParserMemory.java
* /opt/cola/permits/1150838314_1617698236.45/0/json-smart-2-3-sources-3-
jar/net/minidev/json/writer/JsonReaderI.java
* /opt/cola/permits/1150838314_1617698236.45/0/json-smart-2-3-sources-3-
```

jar/net/minidev/json/parser/JSONParserBase.java
* /opt/cola/permits/1150838314_1617698236.45/0/json-smart-2-3-sources-3-
jar/net/minidev/json/writer/JsonReader.java
* /opt/cola/permits/1150838314_1617698236.45/0/json-smart-2-3-sources-3-jar/net/minidev/json/JSONUtil.java
* /opt/cola/permits/1150838314_1617698236.45/0/json-smart-2-3-sources-3-
jar/net/minidev/json/parser/JSONParserString.java
* /opt/cola/permits/1150838314_1617698236.45/0/json-smart-2-3-sources-3-jar/net/minidev/json/JSONArray.java
* /opt/cola/permits/1150838314_1617698236.45/0/json-smart-2-3-sources-3-
jar/net/minidev/json/parser/JSONParserInputStream.java
* /opt/cola/permits/1150838314_1617698236.45/0/json-smart-2-3-sources-3-
jar/net/minidev/json/JSONStreamAware.java
* /opt/cola/permits/1150838314_1617698236.45/0/json-smart-2-3-sources-3-
jar/net/minidev/json/parser/JSONParser.java
* /opt/cola/permits/1150838314_1617698236.45/0/json-smart-2-3-sources-3-
jar/net/minidev/json/parser/ParseException.java
* /opt/cola/permits/1150838314_1617698236.45/0/json-smart-2-3-sources-3-
jar/net/minidev/json/writer/DefaultMapperOrdered.java
* /opt/cola/permits/1150838314_1617698236.45/0/json-smart-2-3-sources-3-
jar/net/minidev/json/writer/FakeMapper.java
* /opt/cola/permits/1150838314_1617698236.45/0/json-smart-2-3-sources-3-
jar/net/minidev/json/writer/CompressorMapper.java
* /opt/cola/permits/1150838314_1617698236.45/0/json-smart-2-3-sources-3-jar/net/minidev/json/JStylerObj.java
* /opt/cola/permits/1150838314_1617698236.45/0/json-smart-2-3-sources-3-
jar/net/minidev/json/writer/BeansMapper.java
* /opt/cola/permits/1150838314_1617698236.45/0/json-smart-2-3-sources-3-jar/net/minidev/json/JSONNavi.java
* /opt/cola/permits/1150838314_1617698236.45/0/json-smart-2-3-sources-3-jar/net/minidev/json/JSONObject.java
* /opt/cola/permits/1150838314_1617698236.45/0/json-smart-2-3-sources-3-
jar/net/minidev/json/JSONAwareEx.java
* /opt/cola/permits/1150838314_1617698236.45/0/json-smart-2-3-sources-3-jar/net/minidev/json/JSONAware.java
* /opt/cola/permits/1150838314_1617698236.45/0/json-smart-2-3-sources-3-
jar/net/minidev/json/writer/DefaultMapperCollection.java
* /opt/cola/permits/1150838314_1617698236.45/0/json-smart-2-3-sources-3-
jar/net/minidev/json/parser/JSONParserReader.java
* /opt/cola/permits/1150838314_1617698236.45/0/json-smart-2-3-sources-3-jar/net/minidev/json/JSONStyle.java
* /opt/cola/permits/1150838314_1617698236.45/0/json-smart-2-3-sources-3-
jar/net/minidev/json/JSONStreamAwareEx.java
* /opt/cola/permits/1150838314_1617698236.45/0/json-smart-2-3-sources-3-
jar/net/minidev/json/parser/JSONParserStream.java
* /opt/cola/permits/1150838314_1617698236.45/0/json-smart-2-3-sources-3-jar/net/minidev/json/JSONValue.java
* /opt/cola/permits/1150838314_1617698236.45/0/json-smart-2-3-sources-3-
jar/net/minidev/json/parser/JSONParserByteArray.java
* /opt/cola/permits/1150838314_1617698236.45/0/json-smart-2-3-sources-3-
jar/net/minidev/json/writer/ArraysMapper.java
* /opt/cola/permits/1150838314_1617698236.45/0/json-smart-2-3-sources-3-
jar/net/minidev/json/writer/CollectionMapper.java
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1.340 json-java 20200518

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1.341 ezmorph 1.0.4

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jar/net/sf/ezmorph/array/BooleanObjectArrayMorpher.java
* /opt/cola/permits/1239931146_1639108876.03/0/ezmorph-1-0-4-sources-jar/net/sf/ezmorph/MorpherRegistry.java
* /opt/cola/permits/1239931146_1639108876.03/0/ezmorph-1-0-4-sources-
jar/net/sf/ezmorph/primitive/BooleanMorpher.java
* /opt/cola/permits/1239931146_1639108876.03/0/ezmorph-1-0-4-sources-
jar/net/sf/ezmorph/array/LongArrayMorpher.java
* /opt/cola/permits/1239931146_1639108876.03/0/ezmorph-1-0-4-sources-jar/net/sf/ezmorph/Morpher.java
* /opt/cola/permits/1239931146_1639108876.03/0/ezmorph-1-0-4-sources-
jar/net/sf/ezmorph/primitive/LongMorpher.java
* /opt/cola/permits/1239931146_1639108876.03/0/ezmorph-1-0-4-sources-
jar/net/sf/ezmorph/primitive/DoubleMorpher.java
* /opt/cola/permits/1239931146_1639108876.03/0/ezmorph-1-0-4-sources-
jar/net/sf/ezmorph/array/IntArrayMorpher.java
* /opt/cola/permits/1239931146_1639108876.03/0/ezmorph-1-0-4-sources-
jar/net/sf/ezmorph/array/CharacterObjectArrayMorpher.java
* /opt/cola/permits/1239931146_1639108876.03/0/ezmorph-1-0-4-sources-
jar/net/sf/ezmorph/object/IdentityObjectMorpher.java
* /opt/cola/permits/1239931146_1639108876.03/0/ezmorph-1-0-4-sources-jar/net/sf/ezmorph/MorphUtils.java
* /opt/cola/permits/1239931146_1639108876.03/0/ezmorph-1-0-4-sources-
jar/net/sf/ezmorph/array/ShortArrayMorpher.java
* /opt/cola/permits/1239931146_1639108876.03/0/ezmorph-1-0-4-sources-
jar/net/sf/ezmorph/primitive/AbstractIntegerMorpher.java
* /opt/cola/permits/1239931146_1639108876.03/0/ezmorph-1-0-4-sources-jar/net/sf/ezmorph/ObjectMorpher.java
* /opt/cola/permits/1239931146_1639108876.03/0/ezmorph-1-0-4-sources-
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jar/net/sf/ezmorph/object/MapToDateMorpher.java
* /opt/cola/permits/1239931146_1639108876.03/0/ezmorph-1-0-4-sources-
jar/net/sf/ezmorph/object/BigIntegerMorpher.java
* /opt/cola/permits/1239931146_1639108876.03/0/ezmorph-1-0-4-sources-
jar/net/sf/ezmorph/object/ClassMorpher.java
* /opt/cola/permits/1239931146_1639108876.03/0/ezmorph-1-0-4-sources-
jar/net/sf/ezmorph/array/ByteArrayMorpher.java
* /opt/cola/permits/1239931146_1639108876.03/0/ezmorph-1-0-4-sources-
jar/net/sf/ezmorph/array/FloatArrayMorpher.java
* /opt/cola/permits/1239931146_1639108876.03/0/ezmorph-1-0-4-sources-
jar/net/sf/ezmorph/primitive/FloatMorpher.java
* /opt/cola/permits/1239931146_1639108876.03/0/ezmorph-1-0-4-sources-
jar/net/sf/ezmorph/object/ObjectListMorpher.java
* /opt/cola/permits/1239931146_1639108876.03/0/ezmorph-1-0-4-sources-
jar/net/sf/ezmorph/primitive/ShortMorpher.java
* /opt/cola/permits/1239931146_1639108876.03/0/ezmorph-1-0-4-sources-
jar/net/sf/ezmorph/object/BigDecimalMorpher.java
* /opt/cola/permits/1239931146_1639108876.03/0/ezmorph-1-0-4-sources-
jar/net/sf/ezmorph/primitive/AbstractDecimalMorpher.java
* /opt/cola/permits/1239931146_1639108876.03/0/ezmorph-1-0-4-sources-
jar/net/sf/ezmorph/array/BooleanArrayMorpher.java
* /opt/cola/permits/1239931146_1639108876.03/0/ezmorph-1-0-4-sources-
jar/net/sf/ezmorph/array/CharArrayMorpher.java
* /opt/cola/permits/1239931146_1639108876.03/0/ezmorph-1-0-4-sources-
jar/net/sf/ezmorph/primitive/IntMorpher.java
* /opt/cola/permits/1239931146_1639108876.03/0/ezmorph-1-0-4-sources-
jar/net/sf/ezmorph/primitive/ByteMorpher.java
* /opt/cola/permits/1239931146_1639108876.03/0/ezmorph-1-0-4-sources-
jar/net/sf/ezmorph/array/ObjectArrayMorpher.java
* /opt/cola/permits/1239931146_1639108876.03/0/ezmorph-1-0-4-sources-
jar/net/sf/ezmorph/test/ArrayAssertions.java
* /opt/cola/permits/1239931146_1639108876.03/0/ezmorph-1-0-4-sources-
jar/net/sf/ezmorph/object/StringMorpher.java
* /opt/cola/permits/1239931146_1639108876.03/0/ezmorph-1-0-4-sources-
jar/net/sf/ezmorph/object/CharacterObjectMorpher.java
* /opt/cola/permits/1239931146_1639108876.03/0/ezmorph-1-0-4-sources-
jar/net/sf/ezmorph/primitive/CharMorpher.java
* /opt/cola/permits/1239931146_1639108876.03/0/ezmorph-1-0-4-sources-
jar/net/sf/ezmorph/primitive/AbstractPrimitiveMorpher.java
* /opt/cola/permits/1239931146_1639108876.03/0/ezmorph-1-0-4-sources-
jar/net/sf/ezmorph/array/DoubleArrayMorpher.java
* /opt/cola/permits/1239931146_1639108876.03/0/ezmorph-1-0-4-sources-
jar/net/sf/ezmorph/object/SwitchingMorpher.java
* /opt/cola/permits/1239931146_1639108876.03/0/ezmorph-1-0-4-sources-
jar/net/sf/ezmorph/object/BooleanObjectMorpher.java
* /opt/cola/permits/1239931146_1639108876.03/0/ezmorph-1-0-4-sources-

jar/net/sf/ezmorph/array/AbstractArrayMorpher.java
* /opt/cola/permits/1239931146_1639108876.03/0/ezmorph-1-0-4-sources-
jar/net/sf/ezmorph/object/AbstractObjectMorpher.java
* /opt/cola/permits/1239931146_1639108876.03/0/ezmorph-1-0-4-sources-
jar/net/sf/ezmorph/object/NumberMorpher.java
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jar/net/sf/ezmorph/bean/BeanMorpher.java
* /opt/cola/permits/1239931146_1639108876.03/0/ezmorph-1-0-4-sources-
jar/net/sf/ezmorph/bean/MorphDynaClass.java

1.342 guava-internalfuturefailureaccess-and-internalfutures 1.0

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1.343 fstream 1.0.12

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1.345 asm 9.1

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* /opt/cola/permits/1150153141_1627681655.27/0/asm-9-1-sources-1-jar/org/objectweb/asm/RecordComponentWriter.java

* /opt/cola/permits/1150153141_1627681655.27/0/asm-9-1-sources-1-jar/org/objectweb/asm/AnnotationVisitor.java

* /opt/cola/permits/1150153141_1627681655.27/0/asm-9-1-sources-1-jar/org/objectweb/asm/ModuleVisitor.java

* /opt/cola/permits/1150153141_1627681655.27/0/asm-9-1-sources-1-jar/org/objectweb/asm/ModuleWriter.java

* /opt/cola/permits/1150153141_1627681655.27/0/asm-9-1-sources-1-jar/org/objectweb/asm/CurrentFrame.java

* /opt/cola/permits/1150153141_1627681655.27/0/asm-9-1-sources-1-jar/org/objectweb/asm/AnnotationWriter.java

* /opt/cola/permits/1150153141_1627681655.27/0/asm-9-1-sources-1-jar/org/objectweb/asm/ConstantDynamic.java

* /opt/cola/permits/1150153141_1627681655.27/0/asm-9-1-sources-1-jar/org/objectweb/asm/ClassWriter.java

* /opt/cola/permits/1150153141_1627681655.27/0/asm-9-1-sources-1-jar/org/objectweb/asm/signature/SignatureVisitor.java

* /opt/cola/permits/1150153141_1627681655.27/0/asm-9-1-sources-1-jar/org/objectweb/asm/Attribute.java

* /opt/cola/permits/1150153141_1627681655.27/0/asm-9-1-sources-1-jar/org/objectweb/asm/Opcodes.java

* /opt/cola/permits/1150153141_1627681655.27/0/asm-9-1-sources-1-jar/org/objectweb/asm/Handle.java

* /opt/cola/permits/1150153141_1627681655.27/0/asm-9-1-sources-1-jar/org/objectweb/asm/MethodTooLargeException.java

* /opt/cola/permits/1150153141_1627681655.27/0/asm-9-1-sources-1-jar/org/objectweb/asm/signature/SignatureReader.java

* /opt/cola/permits/1150153141_1627681655.27/0/asm-9-1-sources-1-jar/org/objectweb/asm/TypeReference.java

* /opt/cola/permits/1150153141_1627681655.27/0/asm-9-1-sources-1-jar/org/objectweb/asm/Context.java

* /opt/cola/permits/1150153141_1627681655.27/0/asm-9-1-sources-1-jar/org/objectweb/asm/Label.java

* /opt/cola/permits/1150153141_1627681655.27/0/asm-9-1-sources-1-jar/org/objectweb/asm/Type.java

* /opt/cola/permits/1150153141_1627681655.27/0/asm-9-1-sources-1-jar/org/objectweb/asm/signature/SignatureWriter.java

* /opt/cola/permits/1150153141_1627681655.27/0/asm-9-1-sources-1-jar/org/objectweb/asm/FieldVisitor.java

```
* /opt/cola/permits/1150153141_1627681655.27/0/asm-9-1-sources-1-jar/org/objectweb/asm/Handler.java
* /opt/cola/permits/1150153141_1627681655.27/0/asm-9-1-sources-1-jar/org/objectweb/asm/SymbolTable.java
* /opt/cola/permits/1150153141_1627681655.27/0/asm-9-1-sources-1-jar/org/objectweb/asm/ClassReader.java
* /opt/cola/permits/1150153141_1627681655.27/0/asm-9-1-sources-1-jar/org/objectweb/asm/Edge.java
* /opt/cola/permits/1150153141_1627681655.27/0/asm-9-1-sources-1-
jar/org/objectweb/asm/RecordComponentVisitor.java
* /opt/cola/permits/1150153141_1627681655.27/0/asm-9-1-sources-1-jar/org/objectweb/asm/Constants.java
* /opt/cola/permits/1150153141_1627681655.27/0/asm-9-1-sources-1-jar/org/objectweb/asm/Symbol.java
* /opt/cola/permits/1150153141_1627681655.27/0/asm-9-1-sources-1-jar/org/objectweb/asm/FieldWriter.java
* /opt/cola/permits/1150153141_1627681655.27/0/asm-9-1-sources-1-jar/org/objectweb/asm/MethodWriter.java
* /opt/cola/permits/1150153141_1627681655.27/0/asm-9-1-sources-1-jar/org/objectweb/asm/MethodVisitor.java
* /opt/cola/permits/1150153141_1627681655.27/0/asm-9-1-sources-1-
jar/org/objectweb/asm/ClassTooLargeException.java
* /opt/cola/permits/1150153141_1627681655.27/0/asm-9-1-sources-1-jar/org/objectweb/asm/ByteVector.java
* /opt/cola/permits/1150153141_1627681655.27/0/asm-9-1-sources-1-jar/org/objectweb/asm/ClassVisitor.java
```

1.346 open-csv 2.4

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```

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*
```

* @author Glen Smith

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```
* /opt/cola/permits/1238692784_1638981273.59/0/opencsv-2-4-sources-
jar/au/com/bytecode/opencsv/CSVReader.java
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jar/au/com/bytecode/opencsv/bean/CsvToBean.java

* /opt/cola/permits/1238692784_1638981273.59/0/opencsv-2-4-sources-

jar/au/com/bytecode/opencsv/bean/ColumnPositionMappingStrategy.java
* /opt/cola/permits/1238692784_1638981273.59/0/opencsv-2-4-sources-
jar/au/com/bytecode/opencsv/bean/MappingStrategy.java
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jar/au/com/bytecode/opencsv/ResultSetHelperService.java
* /opt/cola/permits/1238692784_1638981273.59/0/opencsv-2-4-sources-
jar/au/com/bytecode/opencsv/ResultSetHelper.java
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```
*/
```

```
/**
```

```
* A very simple CSV parser released under a commercial-friendly license.
```

```
* This just implements splitting a single line into fields.
```

```
*
```

```
* @author Glen Smith
```

```
* @author Rainer Pruy
```

```
*/
```

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```
*/opt/cola/permits/1238692784_1638981273.59/0/opencsv-2-4-sources-  
jar/au/com/bytecode/opencsv/CSVParser.java
```

1.347 minimist 0.0.8

1.348 end-of-stream 1.4.1

1.349 mongo-java-driver 3.4.2

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* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/operation/CurrentOpOperation.java
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- * /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/org/bson/BasicBSONCallback.java
- * /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/org/bson/codecs/ValueCodecProvider.java
- * /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/connection/DefaultServerMonitorFactory.java
- * /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/connection/DefaultServerMonitor.java
- * /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/event/ClusterListenerAdapter.java
- * /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/event/ConnectionPoolOpenedEvent.java
- * /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/connection/SaslAuthenticator.java
- * /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/org/bson/types/StringRangeSet.java
- * /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/event/ClusterClosedEvent.java
- * /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/event/ClusterOpeningEvent.java
- * /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/connection/netty/NettyStream.java
- * /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/event/ConnectionMessagesSentEvent.java
- * /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/org/bson/EmptyBSONCallback.java
- * /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/connection/DescriptionHelper.java
- * /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/event/ConnectionMessageReceivedEvent.java
- * /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/util/JSONCallback.java
- * /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/connection/SocketStreamHelper.java
- * /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/org/bson/json/JsonReader.java
- * /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-

jar/com/mongodb/connection/GSSAPIAuthenticator.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/com/mongodb/connection/CommandProtocol.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/com/mongodb/connection/ChangeEvent.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/org/bson/json/JsonToken.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/com/mongodb/connection/DefaultClusterableServerFactory.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/DB.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/com/mongodb/connection/MultiServerCluster.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/com/mongodb/connection/ClusterDescription.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/com/mongodb/connection/ServerDescription.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/com/mongodb/event/ClusterEventMulticaster.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/com/mongodb/connection/DefaultServer.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/com/mongodb/connection/SingleServerCluster.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/com/mongodb/event/ClusterDescriptionChangedEvent.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/org/bson/types/BasicBSONList.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/org/bson/BSONCallback.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/org/bson/json/JsonWriter.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/org/bson/BSONCallbackAdapter.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/com/mongodb/event/ClusterListener.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/com/mongodb/connection/BaseCluster.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/org/bson/codecs/BsonValueCodecProvider.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/com/mongodb/util/JSONSerializers.java
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* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/annotations/NotThreadSafe.java

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* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/connection/ByteBufBsonDocument.java

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Found in path(s):

* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/internal/connection/SslHelper.java

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Found in path(s):

* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/connection/NoOpServerMonitorListener.java

* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/event/ServerDescriptionChangedEvent.java

* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/org/bson/codecs/IterableCodecProvider.java

* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/event/ServerListener.java

* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/event/ServerMonitorListener.java

* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/event/ServerOpeningEvent.java

* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/event/ServerClosedEvent.java

* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/event/ServerHeartbeatStartedEvent.java

* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/event/ServerHeartbeatFailedEvent.java

* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/connection/NoOpServerListener.java

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Found in path(s):

```
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/com/mongodb/DBCollectionObjectFactory.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/com/mongodb/selector/ReadPreferenceServerSelector.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/com/mongodb/WriteConcern.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/org/bson/Document.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/com/mongodb/selector/PrimaryServerSelector.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/com/mongodb/DBObjectCodec.java
```

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Found in path(s):

```
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/com/mongodb/BulkWriteRequestBuilder.java
```

* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/operation/DocumentHelper.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/org/bson/codecs/BsonArrayCodec.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/selector/ServerSelector.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/util/package-info.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/operation/MixedBulkWriteOperation.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/MongoIncompatibleDriverException.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/operation/BaseWriteOperation.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/DBRef.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/connection/BulkWriteBatchCombiner.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/org/bson/codecs/UuidCodec.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/WriteResult.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/connection/SocketChannelStream.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/org/bson/codecs/RawBsonDocumentCodec.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/connection/NoOpConnectionPoolListener.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/bulk/DeleteRequest.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/org/bson/FieldNameValidator.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/DBCallbackFactory.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/org/bson/codecs/BinaryCodec.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/operation/DistinctOperation.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/MongoInterruptedException.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/connection/InternalStreamConnectionInitializer.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/operation/FindAndUpdateOperation.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/org/bson/codecs/ObjectIdCodec.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/connection/BufferProvider.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-

jar/com/mongodb/BulkWriteUpsert.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
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* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/com/mongodb/OperationIterable.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/com/mongodb/LazyDBObject.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/com/mongodb/MongoNamespace.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/com/mongodb/MongoSocketWriteException.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/org/bson/codecs/package-
info.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/com/mongodb/MongoWaitQueueFullException.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/com/mongodb/ServerCursor.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/com/mongodb/connection/ScramSha1Authenticator.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
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* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
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* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
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* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
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* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
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* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/org/bson/json/JsonScanner.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/com/mongodb/binding/AsyncClusterBinding.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/org/bson/codecs/LongCodec.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/com/mongodb/connection/CommandResultBaseCallback.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/org/bson/util/ComputingMap.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/com/mongodb/MongoCommandException.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-

jar/com/mongodb/connection/UpdateCommandProtocol.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/org/bson/codecs/configuration/ProvidersCodecRegistry.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/com/mongodb/MongoCursorAdapter.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/com/mongodb/operation/MapReduceWithInlineResultsOperation.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/org/bson/codecs/SymbolCodec.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/com/mongodb/connection/netty/NettyStreamFactory.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/com/mongodb/BulkWriteResult.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/com/mongodb/internal/async/ErrorHandlingResultCallback.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/com/mongodb/connection/ConnectionFactory.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/org/bson/BasicBSONObject.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/com/mongodb/internal/validator/CollectibleDocumentFieldNameValidator.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/org/bson/codecs/configuration/ChildCodecRegistry.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/com/mongodb/DBEncoderFactory.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/org/bson/LazyBSONObject.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/com/mongodb/selector/ServerAddressSelector.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/com/mongodb/ParallelScanOptions.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/com/mongodb/client/package-info.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/org/bson/diagnostics/Loggers.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/com/mongodb/connection/WriteCommandResultHelper.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/org/bson/types/Symbol.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/org/bson/codecs/BsonBooleanCodec.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/org/bson/codecs/BsonInt32Codec.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/com/mongodb/MongoMappingCursor.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/org/bson/codecs/PatternCodec.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-

jar/com/mongodb/ExplainVerbosity.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/org/bson/StringUtils.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/connection/ServerMonitorFactory.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/internal/connection/IndexMap.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/connection/ResponseCallback.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/MongoSocketReadTimeoutException.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/DocumentToDBRefTransformer.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/org/bson/codecs/BsonBinaryCodec.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/diagnostics/logging/JULLogger.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/operation/WriteOperation.java
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* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/connection/Authenticator.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/gridfs/GridFSFile.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/BulkWriteHelper.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/connection/InternalConnectionInitializer.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/operation/CommandResultDocumentCodec.java
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* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/binding/package-info.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/client/model/DeleteManyModel.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/MongoClientException.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/connection/ClusterSettings.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/bulk/UpdateRequest.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/connection/AsynchronousSocketChannelStreamFactory.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/connection/ChangeListener.java

* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/binding/AsyncReadWriteBinding.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/connection/InternalConnection.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/MapReduceCommand.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/MongoOptions.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/event/ConnectionPoolListenerAdapter.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/gridfs/GridFS.java
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* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/org/bson/util/ClassMap.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/com/mongodb/operation/AggregateOperation.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/org/bson/util/Function.java
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jar/com/mongodb/client/model/UpdateManyModel.java
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jar/com/mongodb/DDBObjectCodecProvider.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/org/bson/types/Binary.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
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* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/client/MongoIterable.java
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* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/connection/AsyncCompletionHandler.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/LazyDBDecoder.java
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* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/selector/package-info.java
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- * /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/MongoNotPrimaryException.java
- * /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/CursorType.java
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- * /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/client/model/BsonField.java
- * /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/client/model/PushOptions.java
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* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/client/model/geojson/PolygonCoordinates.java

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- * /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/client/gridfs/GridFSUploadStream.java
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jar/org/bson/BsonUndefined.java

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```

Found in path(s):

```
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/com/mongodb/event/ConnectionRemovedEvent.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/com/mongodb/event/ConnectionPoolWaitQueueExitedEvent.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/com/mongodb/client/jndi/package-info.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/com/mongodb/event/ConnectionAddedEvent.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/com/mongodb/event/ConnectionPoolClosedEvent.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/com/mongodb/client/model/DBCreateViewOptions.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/com/mongodb/MongoConfigurationException.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/org/bson/codecs/BsonTypeCodecMap.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/com/mongodb/event/ServerEventMulticaster.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/com/mongodb/event/ConnectionPoolWaitQueueEnteredEvent.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/com/mongodb/event/ConnectionCheckedOutEvent.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/com/mongodb/connection/ClientMetadataHelper.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/com/mongodb/internal/connection/SniSslHelper.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/com/mongodb/event/ConnectionClosedEvent.java
```

* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/event/ConnectionOpenedEvent.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/event/ServerMonitorEventMulticaster.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/event/ConnectionCheckedInEvent.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/operation/CreateViewOperation.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/internal/connection/Java8SniSslHelper.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/client/jndi/MongoClientFactory.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/connection/Time.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/event/CommandEventMulticaster.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/operation/WriteConcernHelper.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/client/model/CreateViewOptions.java

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* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/org/bson/BsonDecimal128.java

* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/org/bson/types/Decimal128.java

* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/event/ServerHeartbeatSucceededEvent.java

* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/client/model/BucketGranularity.java

* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-

jar/com/mongodb/client/model/BucketOptions.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/com/mongodb/client/model/Field.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/org/bson/codecs/Decimal128Codec.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/org/bson/codecs/BsonDecimal128Codec.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/com/mongodb/client/model/Facet.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/org/bson/codecs/IterableCodec.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/com/mongodb/client/model/BucketAutoOptions.java
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* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/com/mongodb/assertions/package-info.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/com/mongodb/client/model/package-info.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/com/mongodb/client/DistinctIterable.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/org/bson/codecs/configuration/package-info.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/com/mongodb/operation/BsonArrayWrapper.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/com/mongodb/client/result/package-info.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/com/mongodb/DistinctIterableImpl.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/org/bson/codecs/BsonValueCodec.java

* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/client/model/ReturnDocument.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/org/bson/assertions/package-info.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/event/package-info.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/package-info.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/connection/netty/package-info.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/org/bson/conversions/package-info.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/client/MapReduceIterable.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/async/package-info.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/org/bson/codecs/configuration/Optional.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/client/AggregateIterable.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/org/bson/codecs/configuration/CodecCache.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/org/bson/codecs/configuration/CodecRegistries.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/diagnostics/logging/package-info.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/org/bson/codecs/configuration/MapOfCodecsProvider.java

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jar/com/mongodb/connection/Connection.java

* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-

jar/com/mongodb/connection/AsyncConnection.java

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jar/com/mongodb/connection/netty/ReadTimeoutHandler.java

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jar/com/mongodb/client/model/gejson/package-info.java

* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-

jar/com/mongodb/client/model/gejson/codecs/package-info.java

* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/client/model/geojson/CoordinateReferenceSystem.java

* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/client/model/geojson/LineString.java

* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/client/model/geojson/codecs/PointCodec.java

* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/client/ListDatabasesIterable.java

* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/org/bson/codecs/AtomicLongCodec.java

* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/binding/AsyncSingleConnectionReadBinding.java

* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/client/model/geojson/codecs/GeometryCodecHelper.java

* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/client/model/geojson/GeoJsonObjectType.java

* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/ListCollectionsIterableImpl.java

* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/operation/IndexHelper.java

* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/event/CommandListenerMulticaster.java

* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/org/bson/codecs/AtomicBooleanCodec.java

* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/org/bson/codecs/CharacterCodec.java

* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/binding/SingleConnectionReadBinding.java

* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/client/ListCollectionsIterable.java

* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/client/model/geojson/NamedCoordinateReferenceSystem.java

* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/selector/WritableServerSelector.java

* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/bulk/IndexRequest.java

* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/client/model/geojson/Position.java

* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/client/model/geojson/Geometry.java

* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/client/model/geojson/Point.java

* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/client/model/geojson/codecs/GeoJsonCodecProvider.java

* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/org/bson/conversions/Bson.java

* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/org/bson/codecs/AtomicIntegerCodec.java

* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/ListIndexesIterableImpl.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/client/ListIndexesIterable.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/connection/CompositeByteBuf.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/client/model/geojson/CoordinateReferenceSystemType.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/connection/AsynchronousSocketChannelStreamFactoryFactory.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/client/model/geojson/Polygon.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/operation/QueryHelper.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/client/model/geojson/MultiPoint.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/client/model/IndexModel.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/client/model/geojson/codecs/PolygonCodec.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/connection/StreamFactoryFactory.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/connection/netty/NettyStreamFactoryFactory.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/ListDatabasesIterableImpl.java

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* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/org/bson/BsonReader.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/org/bson/BsonBinaryReader.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/org/bson/BsonBinaryWriter.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/com/mongodb/MongoDatabaseImpl.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/com/mongodb/DBCollection.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/org/bson/AbstractBsonReader.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/com/mongodb/operation/DropIndexOperation.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/com/mongodb/operation/CreateCollectionOperation.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/org/bson/AbstractBsonWriter.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/com/mongodb/operation/CreateUserOperation.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/com/mongodb/MongoClientOptions.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/com/mongodb/operation/DropUserOperation.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/com/mongodb/MongoCollectionImpl.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/com/mongodb/operation/UserOperationHelper.java
```

* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/operation/DropDatabaseOperation.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/org/bson/BsonWriter.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/org/bson/BsonDocumentWriter.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/operation/MapReduceToCollectionOperation.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/operation/DropCollectionOperation.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/client/model/GraphLookupOptions.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/operation/OperationHelper.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/org/bson/BsonValue.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/org/bson/BsonType.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/operation/CreateIndexesOperation.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/operation/UpdateUserOperation.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/operation/AggregateToCollectionOperation.java
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Found in path(s):

* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/connection/CommandMessage.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/operation/AsyncQueryBatchCursor.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/connection/GetMoreProtocol.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/org/bson/ByteBuf.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-

jar/com/mongodb/operation/FindOperation.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/com/mongodb/Mongo.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/com/mongodb/connection/QueryProtocol.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/com/mongodb/connection/WriteCommandProtocol.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/com/mongodb/operation/UserExistsOperation.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/org/bson/BsonNull.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/com/mongodb/connection/QueryMessage.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/org/bson/BsonString.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/com/mongodb/connection/DeleteProtocol.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/com/mongodb/DBCursor.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/com/mongodb/connection/ByteBufferBsonOutput.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/com/mongodb/client/model/FindOneAndReplaceOptions.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/com/mongodb/connection/UpdateProtocol.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/org/bson/BsonRegularExpression.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/org/bson/BsonMaxKey.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/org/bson/BsonTimestamp.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/com/mongodb/ErrorCategory.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/com/mongodb/operation/QueryBatchCursor.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/com/mongodb/client/MongoCollection.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/org/bson/BsonDbPointer.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/org/bson/ByteBufNIO.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/com/mongodb/operation/ListCollectionsOperation.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/com/mongodb/connection/Protocol.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/org/bson/BsonInt32.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/org/bson/BsonJavaScript.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/com/mongodb/connection/WriteProtocol.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-

jar/com/mongodb/client/model/FindOneAndDeleteOptions.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/org/bson/BsonSymbol.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/com/mongodb/operation/ListIndexesOperation.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/com/mongodb/connection/DefaultConnectionPool.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/org/bson/BsonDouble.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/org/bson/BsonObjectId.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/com/mongodb/connection/InsertProtocol.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/org/bson/BsonArray.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/org/bson/BsonDateTime.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/com/mongodb/connection/KillCursorsMessage.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/org/bson/RawBsonDocument.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/org/bson/BsonInt64.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/com/mongodb/client/model/FindOneAndUpdateOptions.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/com/mongodb/connection/DefaultServerConnection.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/com/mongodb/connection/RequestMessage.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/com/mongodb/connection/GetMoreMessage.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/com/mongodb/connection/UpdateMessage.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/com/mongodb/connection/ProtocolHelper.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/org/bson/BsonDocumentWrapper.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/com/mongodb/connection/InsertMessage.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/com/mongodb/connection/DefaultClusterFactory.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/com/mongodb/connection/KillCursorProtocol.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/org/bson/BsonBinary.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/org/bson/BsonBoolean.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/com/mongodb/connection/DeleteMessage.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/com/mongodb/connection/netty/NettyByteBuf.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-

jar/org/bson/BsonDocument.java

* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-

jar/org/bson/BsonMinKey.java

* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-

jar/org/bson/BsonJavaScriptWithScope.java

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* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-

jar/com/mongodb/connection/Base64Codec.java

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// make a special exception for a command with only a single item added to it. It's allowed to exceed maximum document size so that

Found in path(s):

* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/connection/BaseWriteCommandMessage.java

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* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/client/model/DeleteOneModel.java

* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/org/bson/UuidRepresentation.java

* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/org/bson/codecs/BsonUndefinedCodec.java

* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/org/bson/codecs/UuidCodecHelper.java

* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/WriteError.java

* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/connection/ExponentiallyWeightedMovingAverage.java

* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/client/model/CountOptions.java

* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/org/bson/codecs/UuidCodecProvider.java

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jar/com/mongodb/internal/thread/DaemonThreadFactory.java

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*/

/**

* Returns an array containing all of the elements in this deque, in

* proper sequence (from first to last element).

*

* <p>The returned array will be "safe" in that no references to it are

* maintained by this deque. (In other words, this method must allocate

* a new array). The caller is thus free to modify the returned array.

*

* <p>This method acts as bridge between array-based and collection-based

* APIs.

*

* @return an array containing all of the elements in this deque

*/

Found in path(s):

* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/internal/connection/ConcurrentLinkedDeque.java

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* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/client/gridfs/model/GridFSDownloadOptions.java

* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/client/model/CollationCaseFirst.java

* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/DObjectCollationHelper.java

* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/client/model/DBCcollectionDistinctOptions.java

* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/client/model/DBCcollectionCountOptions.java

* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/client/gridfs/codecs/package-info.java

* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/client/model/DBCcollectionFindOptions.java

* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/client/model/DeleteOptions.java

* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/client/model/DBCcollectionRemoveOptions.java

* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/client/model/CollationStrength.java

* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/client/gridfs/codecs/GridFSFileCodec.java

* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/client/gridfs/codecs/GridFSFileCodecProvider.java

* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-

```
jar/com/mongodb/client/model/Collation.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/com/mongodb/client/model/CollationMaxVariable.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/com/mongodb/client/MongoDriverInformation.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/com/mongodb/client/model/CollationAlternate.java
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*/
```

Found in path(s):

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* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/com/mongodb/MapReduceIterableImpl.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/com/mongodb/AggregateIterableImpl.java
```

1.350 aws-sdk-for-java-core 1.11.508

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1.351 jackson-dataformat-xml 2.12.4

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1.352 javabeans-activation-framework-api

1.2.2

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[subs="normal"]

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Specification: {doctitle}

Version: {revnumber}

ifeval::["{revremark}" != ""]

Status: {revremark}

endif::[]

ifeval::["{revremark}" == ""]

Status: Final Release

endif::[]

Release: {revdate}

....

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1.353 query-string 5.1.1

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1.354 jackson-core 2.12.3

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1.355 node-jsonfile 4.0.0

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1.356 ehcache 2.7.4

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1.358 aws-sdk-for-java 1.11.508

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1.359 d3-voronoi 1.1.2

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1.360 joda-time v2.10.2

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3.0.12

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1.371 xhr2 0.1.4

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1.372 cloudwatch-metrics-for-aws-java-sdk

1.11.508

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1.373 jackson-dataformat-smile 2.10.4

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1.374 apache-commons-validator 1.3.1

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*/

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

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

1.375 commons-codec 1.8

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Specification: JSR-000220 Enterprise JavaBeans v.3.0 ("Specification")

Version: 3.0

Status: Final Release

Release: 8 May 2006

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1.377 commons-compress 2.1.1

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1.378 kerby-asn1 1.0.1

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1.379 apache-http-client 4.5.13

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1.9.2

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1.386 d3-queue 3.0.7

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1.390 d3-selection 1.4.2

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1.391 hamcrest 1.3

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1.393 lucene-sandbox 8.9.0

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1.9.13

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7.0.3

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* /opt/cola/permits/1239974758_1639111691.68/0/ical4j-1-0-7-sources-jar/net/fortuna/ical4j/model/parameter/XParameter.java
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* /opt/cola/permits/1239974758_1639111691.68/0/ical4j-1-0-7-sources-jar/net/fortuna/ical4j/model/Time.java
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* /opt/cola/permits/1239974758_1639111691.68/0/ical4j-1-0-7-sources-jar/net/fortuna/ical4j/model/parameter/PartStat.java
* /opt/cola/permits/1239974758_1639111691.68/0/ical4j-1-0-7-sources-jar/net/fortuna/ical4j/util/TimeZones.java
* /opt/cola/permits/1239974758_1639111691.68/0/ical4j-1-0-7-sources-jar/net/fortuna/ical4j/model/parameter/Related.java
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* /opt/cola/permits/1239974758_1639111691.68/0/ical4j-1-0-7-sources-jar/net/fortuna/ical4j/model/property/RecurrenceId.java
* /opt/cola/permits/1239974758_1639111691.68/0/ical4j-1-0-7-sources-jar/net/fortuna/ical4j/data/CalendarBuilder.java
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* /opt/cola/permits/1239974758_1639111691.68/0/ical4j-1-0-7-sources-jar/net/fortuna/ical4j/model/property/Created.java
* /opt/cola/permits/1239974758_1639111691.68/0/ical4j-1-0-7-sources-jar/net/fortuna/ical4j/model/property/RequestStatus.java
* /opt/cola/permits/1239974758_1639111691.68/0/ical4j-1-0-7-sources-jar/net/fortuna/ical4j/model/DateTime.java
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* /opt/cola/permits/1239974758_1639111691.68/0/ical4j-1-0-7-sources-jar/net/fortuna/ical4j/data/CalendarOutputter.java
* /opt/cola/permits/1239974758_1639111691.68/0/ical4j-1-0-7-sources-jar/net/fortuna/ical4j/model/property/UtcProperty.java
* /opt/cola/permits/1239974758_1639111691.68/0/ical4j-1-0-7-sources-jar/net/fortuna/ical4j/data/FoldingWriter.java
* /opt/cola/permits/1239974758_1639111691.68/0/ical4j-1-0-7-sources-

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* /opt/cola/permits/1239974758_1639111691.68/0/ical4j-1-0-7-sources-
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*/

/**

* \$Id\$

*

* Created: [Apr 6, 2004]

*

* Defines a CLASS iCalendar property.

*

* <pre>

* 4.8.1.3 Classification

*

* Property Name: CLASS

*

* Purpose: This property defines the access classification for a

* calendar component.

*
 * Value Type: TEXT

*
 * Property Parameters: Non-standard property parameters can be
 * specified on this property.

*
 * Conformance: The property can be specified once in a "VEVENT",
 * "VTODO" or "VJOURNAL" calendar components.

*
 * Description: An access classification is only one component of the
 * general security system within a calendar application. It provides a
 * method of capturing the scope of the access the calendar owner
 * intends for information within an individual calendar entry. The
 * access classification of an individual iCalendar component is useful
 * when measured along with the other security components of a calendar
 * system (e.g., calendar user authentication, authorization, access
 * rights, access role, etc.). Hence, the semantics of the individual
 * access classifications cannot be completely defined by this memo
 * alone. Additionally, due to the "blind" nature of most exchange
 * processes using this memo, these access classifications cannot serve
 * as an enforcement statement for a system receiving an iCalendar
 * object. Rather, they provide a method for capturing the intention of
 * the calendar owner for the access to the calendar component.

*
 * Format Definition: The property is defined by the following notation:

*
 * class = "CLASS" classparam ":" classvalue CRLF

*
 * classparam = *(":" xparam)

*
 * classvalue = "PUBLIC" / "PRIVATE" / "CONFIDENTIAL" / iana-
 token
 * / x-name
 * ;Default is PUBLIC

*
 * Example: The following is an example of this property:

```
* CLASS:PUBLIC
* </pre>
*
* @author Ben Fortuna
*/
/**
* Constant for confidential classification.
*/
```

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* /opt/cola/permits/1239974758_1639111691.68/0/ical4j-1-0-7-sources-jar/net/fortuna/ical4j/model/property/Clazz.java

1.400 asm-based-accessors-helper-used-by-json-smart 1.2

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 */
```

Found in path(s):

```
* /opt/cola/permits/1110825652_1611250456.32/0/accessors-smart-1-2-sources-jar/net/minidev/asm/DynamicClassLoader.java
* /opt/cola/permits/1110825652_1611250456.32/0/accessors-smart-1-2-sources-jar/net/minidev/asm/Accessor.java
* /opt/cola/permits/1110825652_1611250456.32/0/accessors-smart-1-2-sources-jar/net/minidev/asm/BeansAccess.java
* /opt/cola/permits/1110825652_1611250456.32/0/accessors-smart-1-2-sources-jar/net/minidev/asm/ASMUtil.java
```

1.401 @amplitude/utils 1.8.2

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1.402 xml-schema-core 2.2.1

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1.403 findbugs-jsr305 3.0.2

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1.404 aspectj-weaver 1.8.9

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"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=ISO-8859-1" />
<title>Eclipse Public License - Version 1.0</title>
<style type="text/css">
body {
  size: 8.5in 11.0in;
  margin: 0.25in 0.5in 0.25in 0.5in;
  tab-interval: 0.5in;
  }
p {
  margin-left: auto;
  margin-top: 0.5em;
  margin-bottom: 0.5em;
  }
p.list {
  margin-left: 0.5in;
  margin-top: 0.05em;
  margin-bottom: 0.05em;
  }
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* /opt/cola/permits/1241118549_1639450946.81/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jose/crypto/opts/package-info.java
* /opt/cola/permits/1241118549_1639450946.81/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jose/crypto/impl/LegacyConcatKDF.java
* /opt/cola/permits/1241118549_1639450946.81/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jose/jwk/gen/OctetSequenceKeyGenerator.java
* /opt/cola/permits/1241118549_1639450946.81/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jose/crypto/impl/ECDSAProvider.java
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* /opt/cola/permits/1241118549_1639450946.81/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jose/crypto/impl/RSACryptoProvider.java
* /opt/cola/permits/1241118549_1639450946.81/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jose/crypto/impl/BaseJWSProvider.java
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* /opt/cola/permits/1241118549_1639450946.81/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jose/jwk/gen/JWKGenerator.java
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* /opt/cola/permits/1241118549_1639450946.81/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jose/jwk/CurveBasedJWK.java
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* /opt/cola/permits/1241118549_1639450946.81/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jose/jwk/source/DefaultJWKSetCache.java
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* /opt/cola/permits/1241118549_1639450946.81/0/nimbus-jose-jwt-9-8-1-sources-
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* /opt/cola/permits/1241118549_1639450946.81/0/nimbus-jose-jwt-9-8-1-sources-
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* /opt/cola/permits/1241118549_1639450946.81/0/nimbus-jose-jwt-9-8-1-sources-
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* /opt/cola/permits/1241118549_1639450946.81/0/nimbus-jose-jwt-9-8-1-sources-
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* /opt/cola/permits/1241118549_1639450946.81/0/nimbus-jose-jwt-9-8-1-sources-
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* /opt/cola/permits/1241118549_1639450946.81/0/nimbus-jose-jwt-9-8-1-sources-
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* /opt/cola/permits/1241118549_1639450946.81/0/nimbus-jose-jwt-9-8-1-sources-
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* /opt/cola/permits/1241118549_1639450946.81/0/nimbus-jose-jwt-9-8-1-sources-
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* /opt/cola/permits/1241118549_1639450946.81/0/nimbus-jose-jwt-9-8-1-sources-
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* /opt/cola/permits/1241118549_1639450946.81/0/nimbus-jose-jwt-9-8-1-sources-
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* /opt/cola/permits/1241118549_1639450946.81/0/nimbus-jose-jwt-9-8-1-sources-
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* /opt/cola/permits/1241118549_1639450946.81/0/nimbus-jose-jwt-9-8-1-sources-
jar/com/nimbusds/jose/crypto/impl/AESCryptoProvider.java
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* /opt/cola/permits/1241118549_1639450946.81/0/nimbus-jose-jwt-9-8-1-sources-
jar/com/nimbusds/jose/crypto/factories/DefaultJWSSignerFactory.java
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* /opt/cola/permits/1241118549_1639450946.81/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jose/jwk/source/JWKSecurityContextJWKSet.java

* /opt/cola/permits/1241118549_1639450946.81/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jose/proc/JOSEObjectTypeVerifier.java

* /opt/cola/permits/1241118549_1639450946.81/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jose/crypto/impl/ECDHCryptoProvider.java

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* /opt/cola/permits/1241118549_1639450946.81/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jose/crypto/bc/package-info.java

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- * /opt/cola/permits/1241118549_1639450946.81/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jose/JWSAlgorithm.java
- * /opt/cola/permits/1241118549_1639450946.81/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jose/JWEAlgorithm.java
- * /opt/cola/permits/1241118549_1639450946.81/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jose/jwk/KeyType.java
- * /opt/cola/permits/1241118549_1639450946.81/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jose/PlainHeader.java
- * /opt/cola/permits/1241118549_1639450946.81/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jose/util/package-info.java
- * /opt/cola/permits/1241118549_1639450946.81/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jose/util/Base64.java
- * /opt/cola/permits/1241118549_1639450946.81/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jose/KeyLengthException.java
- * /opt/cola/permits/1241118549_1639450946.81/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jose/proc/BadJWSException.java
- * /opt/cola/permits/1241118549_1639450946.81/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jose/crypto/MACSigner.java
- * /opt/cola/permits/1241118549_1639450946.81/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jose/jwk/source/ImmutableSecret.java
- * /opt/cola/permits/1241118549_1639450946.81/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jose/crypto/X25519Encrypter.java
- * /opt/cola/permits/1241118549_1639450946.81/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jose/crypto/ECDSASigner.java
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- * /opt/cola/permits/1241118549_1639450946.81/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jwt/proc/DefaultJWTClaimsVerifier.java
- * /opt/cola/permits/1241118549_1639450946.81/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jose/util/ArrayUtils.java
- * /opt/cola/permits/1241118549_1639450946.81/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jose/jwk/ECPParameterTable.java
- * /opt/cola/permits/1241118549_1639450946.81/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jose/jwk/source/ImmutableJWKSet.java
- * /opt/cola/permits/1241118549_1639450946.81/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jose/crypto/ECDHDecrypter.java
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- * /opt/cola/permits/1241118549_1639450946.81/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jose/jwk/source/JWKSource.java
- * /opt/cola/permits/1241118549_1639450946.81/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jwt/proc/package-info.java
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* /opt/cola/permits/1241118549_1639450946.81/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jose/util/Base64Codec.java

* /opt/cola/permits/1241118549_1639450946.81/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jose/crypto/Ed25519Signer.java

* /opt/cola/permits/1241118549_1639450946.81/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jose/crypto/X25519Decrypter.java

* /opt/cola/permits/1241118549_1639450946.81/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jose/jwk/JWKSet.java

* /opt/cola/permits/1241118549_1639450946.81/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jose/crypto/Ed25519Verifier.java

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* /opt/cola/permits/1241118549_1639450946.81/0/nimbus-jose-jwt-9-8-1-sources-
jar/com/nimbusds/jose/mint/package-info.java

1.406 velocity.apache.org/tools/devel 1.7

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1.408 buffer-indexof-polyfill 1.0.2

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1.409 nimbus-content-type 2.1

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1.412 d3-ease 1.0.7

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1.413 d3-interpolate v1.4.0

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1.414 xml-beans 2.3.0

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Last revised by Reagle \$Date: 2004-12-08 11:54:26 -0500 (Wed, 08 Dec 2004) \$

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Found in path(s):

* /opt/cola/permits/1241119295_1639450928.0/0/opencsv-5-3-sources-jar/com/opencsv/bean/CsvToBean.java

* /opt/cola/permits/1241119295_1639450928.0/0/opencsv-5-3-sources-jar/com/opencsv/bean/MappingStrategy.java

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/**

* A very simple CSV parser for Java released under a commercial-friendly license.

*

* @see opencsv.sourceforge.net

*/

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* /opt/cola/permits/1241119295_1639450928.0/0/opencsv-5-3-sources-jar/com/opencsv/package-info.java
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* /opt/cola/permits/1241119295_1639450928.0/0/opencsv-5-3-sources-jar/com/opencsv/ResultSetColumnNameHelperService.java
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* /opt/cola/permits/1241119295_1639450928.0/0/opencsv-5-3-sources-
jar/com/opencsv/bean/HeaderColumnNameTranslateMappingStrategy.java
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* /opt/cola/permits/1241119295_1639450928.0/0/opencsv-5-3-sources-
jar/com/opencsv/exceptions/CsvRequiredFieldEmptyException.java

* /opt/cola/permits/1241119295_1639450928.0/0/opencsv-5-3-sources-jar/com/opencsv/bean/CsvDate.java

* /opt/cola/permits/1241119295_1639450928.0/0/opencsv-5-3-sources-
jar/com/opencsv/exceptions/CsvConstraintViolationException.java

* /opt/cola/permits/1241119295_1639450928.0/0/opencsv-5-3-sources-
jar/com/opencsv/exceptions/CsvBeanIntrospectionException.java

* /opt/cola/permits/1241119295_1639450928.0/0/opencsv-5-3-sources-jar/com/opencsv/exceptions/package-
info.java

* /opt/cola/permits/1241119295_1639450928.0/0/opencsv-5-3-sources-
jar/com/opencsv/exceptions/CsvBadConverterException.java

* /opt/cola/permits/1241119295_1639450928.0/0/opencsv-5-3-sources-
jar/com/opencsv/bean/CsvCustomBindByName.java

* /opt/cola/permits/1241119295_1639450928.0/0/opencsv-5-3-sources-
jar/com/opencsv/bean/customconverter/ConvertGermanToBoolean.java

* /opt/cola/permits/1241119295_1639450928.0/0/opencsv-5-3-sources-
jar/com/opencsv/exceptions/CsvMultilineLimitBrokenException.java

* /opt/cola/permits/1241119295_1639450928.0/0/opencsv-5-3-sources-jar/com/opencsv/bean/package-info.java

* /opt/cola/permits/1241119295_1639450928.0/0/opencsv-5-3-sources-

jar/com/opencsv/exceptions/CsvDataTypeMismatchException.java
* /opt/cola/permits/1241119295_1639450928.0/0/opencsv-5-3-sources-jar/com/opencsv/bean/CsvBindByName.java
* /opt/cola/permits/1241119295_1639450928.0/0/opencsv-5-3-sources-jar/com/opencsv/bean/StatefulBeanToCsvBuilder.java
* /opt/cola/permits/1241119295_1639450928.0/0/opencsv-5-3-sources-jar/com/opencsv/bean/util/OpencsvUtils.java
* /opt/cola/permits/1241119295_1639450928.0/0/opencsv-5-3-sources-jar/com/opencsv/beans/package-info.java
* /opt/cola/permits/1241119295_1639450928.0/0/opencsv-5-3-sources-jar/com/opencsv/bean/StatefulBeanToCsv.java
* /opt/cola/permits/1241119295_1639450928.0/0/opencsv-5-3-sources-jar/com/opencsv/exceptions/CsvException.java
* /opt/cola/permits/1241119295_1639450928.0/0/opencsv-5-3-sources-jar/com/opencsv/bean/CsvBindByPosition.java
* /opt/cola/permits/1241119295_1639450928.0/0/opencsv-5-3-sources-jar/com/opencsv/bean/ConverterPrimitiveTypes.java
* /opt/cola/permits/1241119295_1639450928.0/0/opencsv-5-3-sources-jar/com/opencsv/exceptions/CsvRuntimeException.java
* /opt/cola/permits/1241119295_1639450928.0/0/opencsv-5-3-sources-jar/com/opencsv/bean/customconverter/package-info.java
* /opt/cola/permits/1241119295_1639450928.0/0/opencsv-5-3-sources-jar/com/opencsv/bean/ConverterDate.java
* /opt/cola/permits/1241119295_1639450928.0/0/opencsv-5-3-sources-jar/com/opencsv/exceptions/CsvMalformedLineException.java
* /opt/cola/permits/1241119295_1639450928.0/0/opencsv-5-3-sources-jar/com/opencsv/bean/AbstractBeanField.java
* /opt/cola/permits/1241119295_1639450928.0/0/opencsv-5-3-sources-jar/com/opencsv/stream/reader/package-info.java
* /opt/cola/permits/1241119295_1639450928.0/0/opencsv-5-3-sources-jar/com/opencsv/bean/CsvCustomBindByPosition.java
* /opt/cola/permits/1241119295_1639450928.0/0/opencsv-5-3-sources-jar/com/opencsv/bean/CsvToBeanBuilder.java
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/**

* A very simple CSV writer released under a commercial-friendly license.

*

* @author Glen Smith

*/

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* /opt/cola/permits/1241119295_1639450928.0/opencv-5-3-sources-jar/com/opencv/bean/concurrent/package-info.java

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```
* /opt/cola/permits/1241119295_1639450928.0/0/opencsv-5-3-sources-
jar/com/opencsv/bean/CsvBindAndSplitByPosition.java
* /opt/cola/permits/1241119295_1639450928.0/0/opencsv-5-3-sources-
jar/com/opencsv/bean/AbstractCsvConverter.java
* /opt/cola/permits/1241119295_1639450928.0/0/opencsv-5-3-sources-
jar/com/opencsv/bean/concurrent/ProcessCsvLine.java
* /opt/cola/permits/1241119295_1639450928.0/0/opencsv-5-3-sources-
jar/com/opencsv/bean/util/OrderedObject.java
* /opt/cola/permits/1241119295_1639450928.0/0/opencsv-5-3-sources-
jar/com/opencsv/bean/concurrent/IntolerantThreadPoolExecutor.java
* /opt/cola/permits/1241119295_1639450928.0/0/opencsv-5-3-sources-
jar/com/opencsv/bean/concurrent/AccumulateCsvResults.java
* /opt/cola/permits/1241119295_1639450928.0/0/opencsv-5-3-sources-
jar/com/opencsv/bean/CsvBindAndSplitByName.java
* /opt/cola/permits/1241119295_1639450928.0/0/opencsv-5-3-sources-
jar/com/opencsv/bean/BeanFieldSingleValue.java
* /opt/cola/permits/1241119295_1639450928.0/0/opencsv-5-3-sources-jar/com/opencsv/bean/BeanFieldSplit.java
* /opt/cola/permits/1241119295_1639450928.0/0/opencsv-5-3-sources-
jar/com/opencsv/bean/FieldMapByNameEntry.java
* /opt/cola/permits/1241119295_1639450928.0/0/opencsv-5-3-sources-jar/com/opencsv/bean/CsvConverter.java
* /opt/cola/permits/1241119295_1639450928.0/0/opencsv-5-3-sources-
jar/com/opencsv/bean/FieldMapByName.java
* /opt/cola/permits/1241119295_1639450928.0/0/opencsv-5-3-sources-jar/com/opencsv/bean/BeanFieldJoin.java
* /opt/cola/permits/1241119295_1639450928.0/0/opencsv-5-3-sources-
jar/com/opencsv/bean/CsvBindAndJoinByPosition.java
* /opt/cola/permits/1241119295_1639450928.0/0/opencsv-5-3-sources-
jar/com/opencsv/bean/concurrent/ProcessCsvBean.java
* /opt/cola/permits/1241119295_1639450928.0/0/opencsv-5-3-sources-
jar/com/opencsv/bean/CsvBindAndJoinByName.java
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*/

/**

* <p>A very simple CSV parser released under a commercial-friendly license.

* This just implements splitting a single line into fields.</p>

*

* <p>The purpose of the CSVParser is to take a single string and parse it into

* its elements based on the delimiter, quote and escape characters.</p>

*

* <p>The CSVParser has grown organically based on user requests and does not truly match

* any current requirements (though it can be configured to match or come close). There

* is no plans to change this as it will break existing requirements. Consider using

* the RFC4180Parser for less configurability but closer match to the RFC4180 requirements.</p>

```
*
* @author Glen Smith
* @author Rainer Pruy
*/
```

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```
* /opt/cola/permits/1241119295_1639450928.0/0/opencsv-5-3-sources-jar/com/opencsv/CSVParser.java
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```
*/
/**
* A very simple CSV reader released under a commercial-friendly license.
*
* @author Glen Smith
*/
```

Found in path(s):

```
* /opt/cola/permits/1241119295_1639450928.0/0/opencsv-5-3-sources-jar/com/opencsv/CSVReader.java
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1.420 hk2-api-module 2.2.0-b21

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1.422 tslib 1.9.3

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1.424 javassist 3.20.0-GA

1.424.1 Available under license :

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```

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* /opt/ws_local/PERMITS_SQL/1019872344_1591370595.25/0/javassist-3-20-0-ga-sources-
jar/javassist/bytecode/annotation/ShortMemberValue.java
* /opt/ws_local/PERMITS_SQL/1019872344_1591370595.25/0/javassist-3-20-0-ga-sources-
jar/javassist/bytecode/annotation/ArrayMemberValue.java
* /opt/ws_local/PERMITS_SQL/1019872344_1591370595.25/0/javassist-3-20-0-ga-sources-
jar/javassist/bytecode/annotation/DoubleMemberValue.java
* /opt/ws_local/PERMITS_SQL/1019872344_1591370595.25/0/javassist-3-20-0-ga-sources-
jar/javassist/bytecode/annotation/EnumMemberValue.java
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* /opt/ws_local/PERMITS_SQL/1019872344_1591370595.25/0/javassist-3-20-0-ga-sources-
jar/javassist/bytecode/annotation/MemberValue.java
* /opt/ws_local/PERMITS_SQL/1019872344_1591370595.25/0/javassist-3-20-0-ga-sources-
jar/javassist/bytecode/annotation/AnnotationMemberValue.java
* /opt/ws_local/PERMITS_SQL/1019872344_1591370595.25/0/javassist-3-20-0-ga-sources-
jar/javassist/bytecode/annotation/CharMemberValue.java
* /opt/ws_local/PERMITS_SQL/1019872344_1591370595.25/0/javassist-3-20-0-ga-sources-
jar/javassist/bytecode/annotation/ClassMemberValue.java
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jar/javassist/bytecode/annotation/IntegerMemberValue.java
* /opt/ws_local/PERMITS_SQL/1019872344_1591370595.25/0/javassist-3-20-0-ga-sources-
jar/javassist/bytecode/annotation/LongMemberValue.java
* /opt/ws_local/PERMITS_SQL/1019872344_1591370595.25/0/javassist-3-20-0-ga-sources-
```

jar/javassist/bytecode/annotation/ByteMemberValue.java
* /opt/ws_local/PERMITS_SQL/1019872344_1591370595.25/0/javassist-3-20-0-ga-sources-
jar/javassist/bytecode/annotation/StringMemberValue.java
* /opt/ws_local/PERMITS_SQL/1019872344_1591370595.25/0/javassist-3-20-0-ga-sources-
jar/javassist/bytecode/annotation/MemberValueVisitor.java
* /opt/ws_local/PERMITS_SQL/1019872344_1591370595.25/0/javassist-3-20-0-ga-sources-
jar/javassist/bytecode/annotation/Annotation.java
* /opt/ws_local/PERMITS_SQL/1019872344_1591370595.25/0/javassist-3-20-0-ga-sources-
jar/javassist/bytecode/annotation/BooleanMemberValue.java
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* /opt/ws_local/PERMITS_SQL/1019872344_1591370595.25/0/javassist-3-20-0-ga-sources-
jar/javassist/convert/Transformer.java
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* /opt/ws_local/PERMITS_SQL/1019872344_1591370595.25/0/javassist-3-20-0-ga-sources-jar/javassist/tools/Dump.java
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1.432 junit-platform-junit-platform-commons

1.7.2

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import java.net.URI
```

```
data class License(val name: String, val url: URI, val headerFile: File)
    Apache License
```

```
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1.11.508

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*/

yarn licenses v1.22.5

(BSD-2-Clause OR MIT)

sha@2.0.1

URL: <https://github.com/ForbesLindesay/sha.git>

(LGPL-2.0 or MIT)

xmldom@0.1.31

URL: [git://github.com/xml/dom/xml.dom.git](https://github.com/xml/dom/xml.dom.git)
VendorName: jindw
VendorUrl: <https://github.com/xml/dom/xml.dom>

(MIT AND JSON)
jshint@2.10.3
URL: <https://github.com/jshint/jshint.git>
VendorName: Anton Kovalyov
VendorUrl: <http://jshint.com/>

(MIT OR Apache-2.0)
ember-test-helpers@0.5.34
URL: <https://github.com/switchfly/ember-test-helpers.git>

(WTFPL OR MIT)
opener@1.4.3
URL: <https://github.com/domenic/opener.git>
VendorName: Domenic Denicola
VendorUrl: <https://domenic.me/>

path-is-inside@1.0.2
URL: <https://github.com/domenic/path-is-inside.git>
VendorName: Domenic Denicola
VendorUrl: <https://domenic.me>

Apache-2.0
aws-sign2@0.6.0
URL: <https://github.com/mikeal/aws-sign>
VendorName: Mikeal Rogers
VendorUrl: <http://www.futurealoo.com>

aws-sign2@0.7.0
URL: <https://github.com/mikeal/aws-sign>
VendorName: Mikeal Rogers
VendorUrl: <http://www.futurealoo.com>

bser@2.1.1
URL: <https://github.com/facebook/watchman>
VendorName: Wez Furlong
VendorUrl: <https://facebook.github.io/watchman/docs/bser.html>

caseless@0.11.0
URL: <https://github.com/mikeal/caseless>
VendorName: Mikeal Rogers

caseless@0.12.0
URL: <https://github.com/mikeal/caseless>
VendorName: Mikeal Rogers

fb-watchman@2.0.1
URL: [git@github.com:facebook/watchman.git](https://github.com/facebook/watchman.git)
VendorName: Wez Furlong
VendorUrl: <https://facebook.github.io/watchman/>

forever-agent@0.6.1
URL: <https://github.com/mikeal/forever-agent>
VendorName: Mikeal Rogers
VendorUrl: <http://www.futurealoo.com>

kew@0.7.0

URL: <https://github.com/Medium/kew.git>
VendorUrl: <https://github.com/Medium/kew-less@2.7.3>

URL: <https://github.com/less/less.js.git>
VendorName: Alexis Sellier
VendorUrl: <http://lesscss.org/>

oauth-sign@0.8.2
URL: <https://github.com/mikeal/oauth-sign>
VendorName: Mikeal Rogers
VendorUrl: <http://www.futurealooof.com>

oauth-sign@0.9.0
URL: <https://github.com/mikeal/oauth-sign>
VendorName: Mikeal Rogers
VendorUrl: <http://www.futurealooof.com>

phantomjs-prebuilt@2.1.13
URL: <git://github.com/Medium/phantomjs.git>
VendorName: Dan Pupius
VendorUrl: <https://github.com/Medium/phantomjs>

request@2.65.0
URL: <https://github.com/request/request.git>
VendorName: Mikeal Rogers

request@2.74.0
URL: <https://github.com/request/request.git>
VendorName: Mikeal Rogers

request@2.81.0
URL: <https://github.com/request/request.git>
VendorName: Mikeal Rogers

request@2.88.0
URL: <https://github.com/request/request.git>
VendorName: Mikeal Rogers

spdx-correct@3.1.0
URL: <https://github.com/jslicense/spdx-correct.js.git>
VendorName: Kyle E. Mitchell
VendorUrl: <https://kemitchell.com>

spdx@0.4.3
URL: <https://github.com/kemitchell/spdx.js.git>
VendorName: Kyle E. Mitchell
VendorUrl: <https://github.com/kemitchell/spdx.js>

true-case-path@1.0.3
URL: <git+https://github.com/barsh/true-case-path.git>
VendorName: barsh
VendorUrl: <https://github.com/barsh/true-case-path#readme>

tunnel-agent@0.4.3
URL: <https://github.com/mikeal/tunnel-agent>
VendorName: Mikeal Rogers
VendorUrl: <http://www.futurealooof.com>

tunnel-agent@0.6.0
URL: <https://github.com/mikeal/tunnel-agent>

VendorName: Mikeal Rogers
VendorUrl: <http://www.futurealoof.com>
validate-npm-package-license@3.0.4
URL: <https://github.com/kemitchell/validate-npm-package-license.js.git>
VendorName: Kyle E. Mitchell
VendorUrl: <https://kemitchell.com>
walker@1.0.7
URL: <https://github.com/daaku/nodejs-walker>
VendorName: Naitik Shah
VendorUrl: <https://github.com/daaku/nodejs-walker>
websocket-driver@0.7.3
URL: <git://github.com/faye/websocket-driver-node.git>
VendorName: James Coglan
VendorUrl: <https://github.com/faye/websocket-driver-node>
workerpool@2.3.3
URL: <git://github.com/josdejong/workerpool.git>
VendorName: Jos de Jong
VendorUrl: <https://github.com/josdejong/workerpool>
Apache*
watch@0.10.0
URL: <git://github.com/mikeal/watch.git>
VendorName: Mikeal Rogers
VendorUrl: <https://github.com/mikeal/watch>
Artistic-2.0
npm@2.14.10
URL: <https://github.com/npm/npm>
VendorName: Isaac Z. Schlueter
VendorUrl: <https://docs.npmjs.com/>
BSD
graceful-fs@2.0.3
URL: <git://github.com/isaacs/node-graceful-fs.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me>
mute-stream@0.0.4
URL: <git://github.com/isaacs/mute-stream>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>
osenv@0.0.3
URL: <git://github.com/isaacs/osenv>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>
tar@1.0.3
URL: <git://github.com/isaacs/node-tar.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>
BSD-2-Clause
cmd-shim@2.0.2
URL: <https://github.com/ForbesLindesay/cmd-shim.git>

configstore@1.2.1
URL: <https://github.com/yeoman/configstore.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

domelementtype@1.3.1
URL: <git://github.com/fb55/domelementtype.git>
VendorName: Felix Boehm

domelementtype@2.0.1
URL: <git://github.com/fb55/domelementtype.git>
VendorName: Felix Boehm

domhandler@2.3.0
URL: <git://github.com/fb55/DomHandler.git>
VendorName: Felix Boehm

domutils@1.5.1
URL: <git://github.com/FB55/domutils.git>
VendorName: Felix Boehm

entities@1.0.0
URL: <git://github.com/fb55/node-entities.git>
VendorName: Felix Boehm

entities@1.1.2
URL: <git://github.com/fb55/entities.git>
VendorName: Felix Boehm

entities@2.0.0
URL: <git://github.com/fb55/entities.git>
VendorName: Felix Boehm

esprima@2.7.3
URL: <https://github.com/jquery/esprima.git>
VendorName: Ariya Hidayat
VendorUrl: <http://esprima.org/>

esprima@3.1.3
URL: <https://github.com/jquery/esprima.git>
VendorName: Ariya Hidayat
VendorUrl: <http://esprima.org/>

esprima@4.0.1
URL: <https://github.com/jquery/esprima.git>
VendorName: Ariya Hidayat
VendorUrl: <http://esprima.org/>

esutils@2.0.3
URL: <http://github.com/estools/esutils.git>
VendorUrl: <https://github.com/estools/esutils>

extract-zip@1.5.0
URL: <git+ssh://git@github.com/maxogden/extract-zip.git>
VendorName: max ogden
VendorUrl: <https://github.com/maxogden/extract-zip>

github-url-from-username-repo@1.0.2
URL: <git@github.com:robertkowalski/github-url-from-username-repo.git>
VendorName: Robert Kowalski

normalize-package-data@2.3.8

URL: [git://github.com/npm/normalize-package-data.git](https://github.com/npm/normalize-package-data.git)
VendorName: Meryn Stol
normalize-package-data@2.5.0
URL: [git://github.com/npm/normalize-package-data.git](https://github.com/npm/normalize-package-data.git)
VendorName: Meryn Stol
npm-install-checks@1.0.7
URL: [git://github.com/npm/npm-install-checks.git](https://github.com/npm/npm-install-checks.git)
VendorName: Robert Kowalski
VendorUrl: <https://github.com/npm/npm-install-checks>
npm-user-validate@0.1.5
URL: [git://github.com/npm/npm-user-validate.git](https://github.com/npm/npm-user-validate.git)
VendorName: Robert Kowalski
regenerator@0.8.40
URL: [git://github.com/facebook/regenerator.git](https://github.com/facebook/regenerator.git)
VendorName: Ben Newman
VendorUrl: <http://github.com/facebook/regenerator>
regjsparser@0.1.5
URL: [git@github.com:jviereck/regjsparser.git](https://github.com:jviereck/regjsparser.git)
VendorName: 'Julian Viereck'
VendorUrl: <https://github.com/jviereck/regjsparser>
uglify-js@2.8.29
URL: <https://github.com/mishoo/UglifyJS2.git>
VendorName: Mihai Bazon
VendorUrl: <http://lisperator.net/uglifyjs>
uri-js@4.2.2
URL: [http://github.com/garycourt/uri-js](https://github.com/garycourt/uri-js)
VendorName: Gary Court
VendorUrl: <https://github.com/garycourt/uri-js>
BSD-3-Clause
bcrypt-pbkdf@1.0.2
URL: [git://github.com/joyent/node-bcrypt-pbkdf.git](https://github.com/joyent/node-bcrypt-pbkdf.git)
boom@2.10.1
URL: [git://github.com/hapijs/boom](https://github.com/hapijs/boom)
cpr@0.4.2
URL: [http://github.com/davglass/cpr.git](https://github.com/davglass/cpr.git)
VendorName: Dav Glass
cryptiles@2.0.5
URL: [git://github.com/hapijs/cryptiles](https://github.com/hapijs/cryptiles)
hawk@3.1.3
URL: [git://github.com/hueniverse/hawk](https://github.com/hueniverse/hawk)
VendorName: Eran Hammer
VendorUrl: <http://hueniverse.com>
hoek@2.16.3
URL: [git://github.com/hapijs/hoek](https://github.com/hapijs/hoek)
js-base64@2.5.1
URL: [git://github.com/dankogai/js-base64.git](https://github.com/dankogai/js-base64.git)
VendorName: Dan Kogai
makeerror@1.0.11

URL: <https://github.com/daaku/nodejs-makeerror>
VendorName: Naitik Shah
printf@0.2.5
URL: <https://github.com/wdavidw/node-printf.git>
VendorName: David Worms
VendorUrl: <http://www.adaltas.com/projects/node-printf>
qs@5.1.0
URL: <https://github.com/hapijs/qs.git>
VendorUrl: <https://github.com/hapijs/qs>
qs@5.2.0
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qs@6.2.3
URL: <https://github.com/ljharb/qs.git>
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qs@6.4.0
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qs@6.7.0
URL: <https://github.com/ljharb/qs.git>
VendorUrl: <https://github.com/ljharb/qs>
shelljs@0.3.0
URL: <git://github.com/arturadib/shelljs.git>
VendorName: Artur Adib
VendorUrl: <http://github.com/arturadib/shelljs>
source-map@0.1.32
URL: <http://github.com/mozilla/source-map.git>
VendorName: Nick Fitzgerald
VendorUrl: <https://github.com/mozilla/source-map>
source-map@0.1.43
URL: <http://github.com/mozilla/source-map.git>
VendorName: Nick Fitzgerald
VendorUrl: <https://github.com/mozilla/source-map>
source-map@0.4.4
URL: <http://github.com/mozilla/source-map.git>
VendorName: Nick Fitzgerald
VendorUrl: <https://github.com/mozilla/source-map>
source-map@0.5.7
URL: <http://github.com/mozilla/source-map.git>
VendorName: Nick Fitzgerald
VendorUrl: <https://github.com/mozilla/source-map>
sprintf-js@1.0.3

URL: <https://github.com/alexei/sprintf.js.git>
VendorName: Alexandru Marasteanu
VendorUrl: <http://alexei.ro/>
sprintf-js@1.1.2
URL: <https://github.com/alexei/sprintf.js.git>
VendorName: Alexandru Mrteanu
tmpl@1.0.4
URL: <https://github.com/daaku/nodejs-tmpl>
VendorName: Naitik Shah
VendorUrl: <https://github.com/nshah/nodejs-tmpl>
tough-cookie@2.2.2
URL: <git://github.com/SalesforceEng/tough-cookie.git>
VendorName: Jeremy Stashewsky
VendorUrl: <https://github.com/SalesforceEng/tough-cookie>
tough-cookie@2.3.4
URL: <git://github.com/salesforce/tough-cookie.git>
VendorName: Jeremy Stashewsky
VendorUrl: <https://github.com/salesforce/tough-cookie>
tough-cookie@2.4.3
URL: <git://github.com/salesforce/tough-cookie.git>
VendorName: Jeremy Stashewsky
VendorUrl: <https://github.com/salesforce/tough-cookie>
BSD-3-Clause OR MIT
amdefine@1.0.1
URL: <https://github.com/jrburke/amdefine.git>
VendorName: James Burke
VendorUrl: <http://github.com/jrburke/amdefine>
BSD*
diff@1.4.0
URL: <git://github.com/kpdecker/jsdiff.git>
esprima-fb@12001.1.0-dev-harmony-fb
URL: <http://github.com/facebook/esprima.git>
VendorName: Ariya Hidayat
VendorUrl: <https://github.com/facebook/esprima/tree/fb-harmony>
esprima-fb@15001.1001.0-dev-harmony-fb
URL: <http://github.com/facebook/esprima.git>
VendorName: Ariya Hidayat
VendorUrl: <https://github.com/facebook/esprima/tree/fb-harmony>
json-schema@0.2.3
URL: <http://github.com/kriszyp/json-schema>
VendorName: Kris Zyp
CC-BY-3.0
spx-exceptions@2.2.0
URL: <https://github.com/kemitchell/spx-exceptions.json.git>
VendorName: The Linux Foundation
CC0-1.0
spx-license-ids@3.0.5
URL: <https://github.com/shinnn/spx-license-ids.git>

VendorName: Shinnosuke Watanabe
VendorUrl: <https://github.com/shinnn>

ISC

abbrev@1.0.9
URL: <http://github.com/isaacs/abbrev-js>
VendorName: Isaac Z. Schlueter

abbrev@1.1.1
URL: <http://github.com/isaacs/abbrev-js>
VendorName: Isaac Z. Schlueter

anymatch@1.3.2
URL: <https://github.com/es128/anymatch>
VendorName: Elan Shanker
VendorUrl: <https://github.com/es128/anymatch>

aproba@1.2.0
URL: <https://github.com/iarna/aproba>
VendorName: Rebecca Turner
VendorUrl: <https://github.com/iarna/aproba>

are-we-there-yet@1.0.6
URL: <https://github.com/iarna/are-we-there-yet.git>
VendorName: Rebecca Turner
VendorUrl: <https://github.com/iarna/are-we-there-yet>

are-we-there-yet@1.1.5
URL: <https://github.com/iarna/are-we-there-yet.git>
VendorName: Rebecca Turner
VendorUrl: <https://github.com/iarna/are-we-there-yet>

async-some@1.0.2
URL: <https://github.com/othiym23/async-some.git>
VendorName: Forrest L Norvell
VendorUrl: <https://github.com/othiym23/async-some>

block-stream@0.0.8
URL: <git://github.com/isaacs/block-stream.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

block-stream@0.0.9
URL: <git://github.com/isaacs/block-stream.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

broccoli-viz@2.0.1
URL: <https://github.com/stefanpenner/broccoli-viz.git>
VendorName: Stefan Penner
VendorUrl: <https://github.com/stefanpenner/broccoli-viz>

char-spinner@1.0.1
URL: <git://github.com/isaacs/char-spinner>
VendorName: Isaac Z. Schlueter
VendorUrl: <https://github.com/isaacs/char-spinner>

chmodr@1.0.2
URL: <git://github.com/isaacs/chmodr.git>
VendorName: Isaac Z. Schlueter

VendorUrl: <http://blog.izs.me/>
chownr@1.0.1
URL: <git://github.com/isaacs/chownr.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>
chownr@1.1.3
URL: <git://github.com/isaacs/chownr.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>
clean-base-url@1.0.0
URL: <git+ssh://git@github.com/stefanpenner/clean-base-url.git>
VendorName: Stefan Penner
VendorUrl: <https://github.com/stefanpenner/clean-base-url#readme>
cliui@2.1.0
URL: <http://github.com/bcoe/cliui.git>
VendorName: Ben Coe
cliui@3.2.0
URL: <http://github.com/yargs/cliui.git>
VendorName: Ben Coe
console-control-strings@1.1.0
URL: <https://github.com/iarna/console-control-strings>
VendorName: Rebecca Turner
VendorUrl: <http://re-becca.org/>
d@1.0.1
URL: <git://github.com/medikoo/d.git>
VendorName: Mariusz Nowak
VendorUrl: <http://www.medikoo.com/>
dezalgo@1.0.3
URL: <https://github.com/npm/dezalgo>
VendorName: Isaac Z. Schlueter
VendorUrl: <https://github.com/npm/dezalgo>
ember-cli-get-dependency-depth@1.0.0
URL: <git+https://github.com/ember-cli/get-dependency-depth.git>
VendorName: ember-cli Contributors
VendorUrl: <https://github.com/ember-cli/get-dependency-depth#readme>
ember-cli-is-package-missing@1.0.0
URL: <git+https://github.com/ember-cli/ember-cli.git>
VendorName: ember-cli contributors
VendorUrl: <https://github.com/ember-cli/ember-cli#readme>
ember-cli-normalize-entity-name@1.0.0
URL: <git+https://github.com/ember-cli/ember-cli.git>
VendorName: ember-cli contributors
VendorUrl: <https://github.com/ember-cli/ember-cli#readme>
ember-cli-path-utils@1.0.0
URL: <git+https://github.com/ember-cli/ember-cli-path-utils.git>
VendorName: ember-cli contributors
VendorUrl: <https://github.com/ember-cli/ember-cli-path-utils#readme>
ember-cli-preprocess-registry@1.1.0

URL: [git+https://github.com/ember-cli/ember-cli-preprocessor-registry.git](https://github.com/ember-cli/ember-cli-preprocessor-registry.git)
VendorName: ember-cli Contributors
VendorUrl: <https://github.com/ember-cli/ember-cli-preprocessor-registry#readme>
ember-cli-string-utils@1.1.0
URL: [git+https://github.com/ember-cli/ember-cli-string-utils.git](https://github.com/ember-cli/ember-cli-string-utils.git)
VendorName: ember-cli contributors
VendorUrl: <https://github.com/ember-cli/ember-cli-string-utils#readme>
ember-cli-test-info@1.0.0
URL: [git+https://github.com/ember-cli/ember-cli-test-info.git](https://github.com/ember-cli/ember-cli-test-info.git)
VendorName: ember-cli contributors
VendorUrl: <https://github.com/ember-cli/ember-cli-test-info#readme>
ensure-posix-path@1.1.1
URL: [git+https://github.com/stefanpenner/ensure-posix-path.git](https://github.com/stefanpenner/ensure-posix-path.git)
VendorName: Stefan Penner
VendorUrl: <https://github.com/stefanpenner/ensure-posix-path#readme>
es5-ext@0.10.53
URL: <https://github.com/medikoo/es5-ext.git>
VendorName: Mariusz Nowak
VendorUrl: <http://www.medikoo.com/>
es6-symbol@3.1.3
URL: [git://github.com/medikoo/es6-symbol.git](https://github.com/medikoo/es6-symbol.git)
VendorName: Mariusz Nowak
VendorUrl: <http://www.medikoo.com/>
events-to-array@1.1.2
URL: <https://github.com/isaacs/events-to-array>
VendorName: Isaac Z. Schlueter
VendorUrl: <https://github.com/isaacs/events-to-array>
exists-sync@0.0.3
URL: [git+https://github.com/ember-cli/exists-sync.git](https://github.com/ember-cli/exists-sync.git)
VendorName: Jake Bixby
VendorUrl: <https://github.com/ember-cli/exists-sync#readme>
exists-sync@0.0.4
URL: [git+https://github.com/ember-cli/exists-sync.git](https://github.com/ember-cli/exists-sync.git)
VendorName: Jake Bixby
VendorUrl: <https://github.com/ember-cli/exists-sync#readme>
ext@1.4.0
URL: <https://github.com/medikoo/es5-ext/tree/ext>
VendorName: Mariusz Nowak
VendorUrl: <http://www.medikoo.com/>
fast-ordered-set@1.0.3
fs-monitor-stack@1.1.1
URL: [git+https://github.com/stefanpenner/fs-monitor-stack.git](https://github.com/stefanpenner/fs-monitor-stack.git)
VendorName: Stefan Penner
VendorUrl: <https://github.com/stefanpenner/fs-monitor-stack#readme>
fs-vacuum@1.2.10
URL: <https://github.com/npm/fs-vacuum.git>
VendorName: Forrest L Norvell
VendorUrl: <https://github.com/npm/fs-vacuum>

fs-write-stream-atomic@1.0.10
URL: <https://github.com/npm/fs-write-stream-atomic>
VendorName: Isaac Z. Schlueter
VendorUrl: <https://github.com/npm/fs-write-stream-atomic>

fs.realpath@1.0.0
URL: [git+https://github.com/isaacs/fs.realpath.git](https://github.com/isaacs/fs.realpath.git)
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

fstream-ignore@1.0.5
URL: [git://github.com/isaacs/fstream-ignore.git](https://github.com/isaacs/fstream-ignore.git)
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

fstream-npm@1.0.7
URL: <https://github.com/npm/fstream-npm.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

fstream@1.0.12
URL: <https://github.com/npm/fstream.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

gauge@1.2.7
URL: <https://github.com/iarna/gauge>
VendorName: Rebecca Turner
VendorUrl: <https://github.com/iarna/gauge>

gauge@2.7.4
URL: <https://github.com/iarna/gauge>
VendorName: Rebecca Turner
VendorUrl: <https://github.com/iarna/gauge>

get-caller-file@1.0.3
URL: [git+https://github.com/stefanpenner/get-caller-file.git](https://github.com/stefanpenner/get-caller-file.git)
VendorName: Stefan Penner
VendorUrl: <https://github.com/stefanpenner/get-caller-file#readme>

glob-parent@2.0.0
URL: <https://github.com/es128/glob-parent>
VendorName: Elan Shanker
VendorUrl: <https://github.com/es128/glob-parent>

glob@4.3.5
URL: [git://github.com/isaacs/node-glob.git](https://github.com/isaacs/node-glob.git)
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

glob@4.5.3
URL: [git://github.com/isaacs/node-glob.git](https://github.com/isaacs/node-glob.git)
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

glob@5.0.13
URL: [git://github.com/isaacs/node-glob.git](https://github.com/isaacs/node-glob.git)
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

glob@5.0.15
URL: [git://github.com/isaacs/node-glob.git](https://github.com/isaacs/node-glob.git)
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

glob@6.0.4
URL: [git://github.com/isaacs/node-glob.git](https://github.com/isaacs/node-glob.git)
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

glob@7.1.6
URL: [git://github.com/isaacs/node-glob.git](https://github.com/isaacs/node-glob.git)
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

graceful-fs@3.0.12
URL: [git://github.com/isaacs/node-graceful-fs.git](https://github.com/isaacs/node-graceful-fs.git)
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me>

graceful-fs@4.1.15
URL: <https://github.com/isaacs/node-graceful-fs>

graceful-fs@4.2.3
URL: <https://github.com/isaacs/node-graceful-fs>

har-schema@1.0.5
URL: <https://github.com/ahmadnassri/har-schema.git>
VendorName: Ahmad Nassri
VendorUrl: <https://github.com/ahmadnassri/har-schema>

har-schema@2.0.0
URL: <https://github.com/ahmadnassri/har-schema.git>
VendorName: Ahmad Nassri
VendorUrl: <https://github.com/ahmadnassri/har-schema>

har-validator@2.0.6
URL: <https://github.com/ahmadnassri/har-validator.git>
VendorName: Ahmad Nassri
VendorUrl: <https://github.com/ahmadnassri/har-validator>

har-validator@4.2.1
URL: <https://github.com/ahmadnassri/har-validator.git>
VendorName: Ahmad Nassri
VendorUrl: <https://github.com/ahmadnassri/har-validator>

has-binary-data@0.1.3
VendorName: Kevin Roark

has-unicode@2.0.1
URL: <https://github.com/iarna/has-unicode>
VendorName: Rebecca Turner
VendorUrl: <https://github.com/iarna/has-unicode>

hash-for-dep@1.5.1
URL: [git+https://github.com/stefanpenner/hash-for-dep.git](https://github.com/stefanpenner/hash-for-dep.git)
VendorName: Stefan Penner
VendorUrl: <https://github.com/stefanpenner/hash-for-dep#readme>

hosted-git-info@2.1.5
URL: [git+https://github.com/npm/hosted-git-info.git](https://github.com/npm/hosted-git-info.git)

VendorName: Rebecca Turner
VendorUrl: <https://github.com/npm/hosted-git-info>
hosted-git-info@2.8.5
URL: <git+https://github.com/npm/hosted-git-info.git>
VendorName: Rebecca Turner
VendorUrl: <https://github.com/npm/hosted-git-info>
in-publish@2.0.0
URL: <https://github.com/iarna/in-publish>
VendorName: Rebecca Turner
VendorUrl: <https://github.com/iarna/in-publish>
inflight@1.0.6
URL: <https://github.com/npm/inflight.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <https://github.com/isaacs/inflight>
inherits@2.0.3
URL: <git://github.com/isaacs/inherits>
inherits@2.0.4
URL: <git://github.com/isaacs/inherits>
ini@1.3.5
URL: <git://github.com/isaacs/ini.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>
init-package-json@1.9.6
URL: <https://github.com/npm/init-package-json.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>
isexe@2.0.0
URL: <git+https://github.com/isaacs/isexe.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <https://github.com/isaacs/isexe#readme>
json-stringify-safe@5.0.1
URL: <git://github.com/isaacs/json-stringify-safe>
VendorName: Isaac Z. Schlueter
VendorUrl: <https://github.com/isaacs/json-stringify-safe>
lockfile@1.0.4
URL: <https://github.com/npm/lockfile.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>
lru-cache@2.7.3
URL: <git://github.com/isaacs/node-lru-cache.git>
VendorName: Isaac Z. Schlueter
lru-cache@4.1.5
URL: <git://github.com/isaacs/node-lru-cache.git>
VendorName: Isaac Z. Schlueter
matcher-collection@1.1.2
URL: <git+https://github.com/stefanpenner/matcher-collection.git>
VendorName: Stefan Penner
VendorUrl: <https://github.com/stefanpenner/matcher-collection#readme>

minimatch@2.0.10
URL: [git://github.com/isaacs/minimatch.git](https://github.com/isaacs/minimatch.git)
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me>

minimatch@3.0.4
URL: [git://github.com/isaacs/minimatch.git](https://github.com/isaacs/minimatch.git)
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me>

mute-stream@0.0.8
URL: [git://github.com/isaacs/mute-stream](https://github.com/isaacs/mute-stream)
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

natives@1.1.6
URL: [git+https://github.com/addaleax/natives.git](https://github.com/addaleax/natives.git)
VendorName: Isaac Z. Schlueter
VendorUrl: <https://github.com/addaleax/natives#readme>

node-modules-path@1.0.2
URL: [git+https://github.com/ember-cli/node-modules-path.git](https://github.com/ember-cli/node-modules-path.git)
VendorName: Stefan Penner
VendorUrl: <https://github.com/ember-cli/node-modules-path#readme>

nopt@3.0.6
URL: <https://github.com/npm/nopt.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

normalize-git-url@3.0.2
URL: <https://github.com/npm/normalize-git-url>
VendorName: Forrest L Norvell
VendorUrl: <https://github.com/npm/normalize-git-url>

npm-cache-filename@1.0.2
URL: [git://github.com/npm/npm-cache-filename](https://github.com/npm/npm-cache-filename)
VendorName: Isaac Z. Schlueter
VendorUrl: <https://github.com/npm/npm-cache-filename>

npm-normalize-package-bin@1.0.1
URL: [git+https://github.com/npm/npm-normalize-package-bin](https://github.com/npm/npm-normalize-package-bin)
VendorName: Isaac Z. Schlueter
VendorUrl: <https://izs.me>

npm-package-arg@4.0.2
URL: <https://github.com/npm/npm-package-arg>
VendorName: Isaac Z. Schlueter
VendorUrl: <https://github.com/npm/npm-package-arg>

npm-package-arg@4.2.1
URL: <https://github.com/npm/npm-package-arg>
VendorName: Isaac Z. Schlueter
VendorUrl: <https://github.com/npm/npm-package-arg>

npm-package-arg@5.1.2
URL: <https://github.com/npm/npm-package-arg>
VendorName: Isaac Z. Schlueter
VendorUrl: <https://github.com/npm/npm-package-arg>

npm-registry-client@7.0.9
URL: <https://github.com/npm/npm-registry-client.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

npmlog@1.2.1
URL: <git://github.com/isaacs/npmlog.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

npmlog@2.0.4
URL: <https://github.com/npm/npmlog.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

npmlog@4.1.2
URL: <https://github.com/npm/npmlog.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

once@1.3.3
URL: <git://github.com/isaacs/once>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

once@1.4.0
URL: <git://github.com/isaacs/once>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

osenv@0.1.5
URL: <https://github.com/npm/osenv>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

path-posix@1.0.0
URL: <git@github.com:jden/node-path-posix.git>
VendorName: jden

pleasant-progress@1.1.0
URL: <https://github.com/stefanpenner/pleasant-progress.git>
VendorName: Stefan Penner
VendorUrl: <https://github.com/stefanpenner/pleasant-progress>

process-relative-require@1.0.0
URL: <git+https://github.com/ember-cli/process-relative-require.git>
VendorName: Stefan Penner
VendorUrl: <https://github.com/ember-cli/process-relative-require#readme>

promzard@0.3.0
URL: <git://github.com/isaacs/promzard>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

proto-list@1.2.4
URL: <https://github.com/isaacs/proto-list>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

pseudomap@1.0.2

URL: git+https://github.com/isaacs/pseudomap.git
VendorName: Isaac Z. Schlueter
VendorUrl: https://github.com/isaacs/pseudomap#readme
read-installed@4.0.3
URL: git://github.com/isaacs/read-installed
VendorName: Isaac Z. Schlueter
VendorUrl: http://blog.izs.me/
read-package-json@2.0.13
URL: https://github.com/npm/read-package-json.git
VendorName: Isaac Z. Schlueter
VendorUrl: http://blog.izs.me/
read-package-json@2.1.1
URL: https://github.com/npm/read-package-json.git
VendorName: Isaac Z. Schlueter
VendorUrl: http://blog.izs.me/
read@1.0.7
URL: git://github.com/isaacs/read.git
VendorName: Isaac Z. Schlueter
VendorUrl: http://blog.izs.me/
readdir-scoped-modules@1.1.0
URL: https://github.com/npm/readdir-scoped-modules
VendorName: Isaac Z. Schlueter
VendorUrl: https://github.com/npm/readdir-scoped-modules
realize-package-specifier@3.0.3
URL: https://github.com/npm/realize-package-specifier.git
VendorName: Rebecca Turner
VendorUrl: https://github.com/npm/realize-package-specifier
remove-trailing-separator@1.1.0
URL: git+https://github.com/darsain/remove-trailing-separator.git
VendorName: darsain
VendorUrl: https://github.com/darsain/remove-trailing-separator#readme
require-main-filename@1.0.1
URL: git+ssh://git@github.com/yargs/require-main-filename.git
VendorName: Ben Coe
VendorUrl: https://github.com/yargs/require-main-filename#readme
rimraf@2.4.5
URL: git://github.com/isaacs/rimraf.git
VendorName: Isaac Z. Schlueter
VendorUrl: http://blog.izs.me/
rimraf@2.7.1
URL: git://github.com/isaacs/rimraf.git
VendorName: Isaac Z. Schlueter
VendorUrl: http://blog.izs.me/
semver@4.3.6
URL: git://github.com/npm/node-semver.git
semver@5.0.3
URL: https://github.com/npm/node-semver
semver@5.3.0

URL: <https://github.com/npm/node-semver>
semver@5.7.1

URL: <https://github.com/npm/node-semver>
set-blocking@2.0.0

URL: [git+https://github.com/yargs/set-blocking](https://github.com/yargs/set-blocking).git
VendorName: Ben Coe
VendorUrl: <https://github.com/yargs/set-blocking#readme>
setprototypeof@1.1.1

URL: <https://github.com/wesleytodd/setprototypeof>.git
VendorName: Wes Todd
VendorUrl: <https://github.com/wesleytodd/setprototypeof>
sigmund@1.0.1

URL: [git://github.com/isaacs/sigmund](https://github.com/isaacs/sigmund)
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

signal-exit@3.0.2

URL: <https://github.com/tapjs/signal-exit>.git
VendorName: Ben Coe
VendorUrl: <https://github.com/tapjs/signal-exit>

silent-error@1.1.1

URL: [git+https://github.com/stefanpenner/silent-error](https://github.com/stefanpenner/silent-error).git
VendorName: Stefan Penner
VendorUrl: <https://github.com/stefanpenner/silent-error#readme>

slide@1.1.6

URL: [git://github.com/isaacs/slide-flow-control](https://github.com/isaacs/slide-flow-control).git
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

tar@2.2.2

URL: [git://github.com/isaacs/node-tar](https://github.com/isaacs/node-tar).git
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

timers-ext@0.1.7

URL: [git://github.com/medikoo/timers-ext](https://github.com/medikoo/timers-ext).git
VendorName: Mariusz Nowak
VendorUrl: <http://www.medikoo.com/>

tree-sync@1.4.0

URL: <https://github.com/stefanpenner/tree-sync>/
VendorName: Stefan Penner

type@1.2.0

URL: <https://github.com/medikoo/type>.git
VendorName: Mariusz Nowak
VendorUrl: <https://www.medikoo.com/>

type@2.0.0

URL: <https://github.com/medikoo/type>.git
VendorName: Mariusz Nowak
VendorUrl: <https://www.medikoo.com/>

uid-number@0.0.6

URL: [git://github.com/isaacs/uid-number](https://github.com/isaacs/uid-number).git

VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>
validate-npm-package-name@2.2.2
URL: <https://github.com/npm/validate-npm-package-name>
VendorName: zeke
VendorUrl: <https://github.com/npm/validate-npm-package-name>
validate-npm-package-name@3.0.0
URL: <https://github.com/npm/validate-npm-package-name>
VendorName: zeke
VendorUrl: <https://github.com/npm/validate-npm-package-name>
which-module@1.0.0
URL: <git+https://github.com/nexdrew/which-module.git>
VendorName: nexdrew
VendorUrl: <https://github.com/nexdrew/which-module#readme>
which@1.2.14
URL: <git://github.com/isaacs/node-which.git>
VendorName: Isaac Z. Schlueter
VendorUrl: http://blog.izs.me
which@1.3.1
URL: <git://github.com/isaacs/node-which.git>
VendorName: Isaac Z. Schlueter
VendorUrl: http://blog.izs.me
wide-align@1.1.3
URL: <https://github.com/iarna/wide-align>
VendorName: Rebecca Turner
VendorUrl: <http://re-becca.org/>
wrappy@1.0.2
URL: <https://github.com/npm/wrappy>
VendorName: Isaac Z. Schlueter
VendorUrl: <https://github.com/npm/wrappy>
write-file-atomic@1.1.4
URL: <git@github.com:iarna/write-file-atomic.git>
VendorName: Rebecca Turner
VendorUrl: <https://github.com/iarna/write-file-atomic>
write-file-atomic@1.3.4
URL: <git@github.com:iarna/write-file-atomic.git>
VendorName: Rebecca Turner
VendorUrl: <https://github.com/iarna/write-file-atomic>
y18n@3.2.2
URL: <git@github.com:yargs/y18n.git>
VendorName: Ben Coe
VendorUrl: <https://github.com/yargs/y18n>
yallist@2.1.2
URL: <git+https://github.com/isaacs/yallist.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>
yargs-parser@5.0.0
URL: <git@github.com:yargs/yargs-parser.git>

VendorName: Ben Coe
MIT
@sailshq/lodash@3.10.4
URL: git://github.com/treelinehq/lodash.git
VendorName: Mike McNeil
accepts@1.3.7
URL: https://github.com/jshttp/accepts.git
acorn@5.7.3
URL: https://github.com/acornjs/acorn.git
VendorUrl: https://github.com/acornjs/acorn
ajv@4.11.8
URL: https://github.com/epoberezkin/ajv.git
VendorName: Evgeny Poberezkin
VendorUrl: https://github.com/epoberezkin/ajv
ajv@6.10.2
URL: https://github.com/epoberezkin/ajv.git
VendorName: Evgeny Poberezkin
VendorUrl: https://github.com/epoberezkin/ajv
align-text@0.1.4
URL: git://github.com/jonschlinkert/align-text.git
VendorName: Jon Schlinkert
VendorUrl: https://github.com/jonschlinkert/align-text
alter@0.2.0
URL: https://github.com/olov/alter.git
VendorName: Olov Lassus
amd-name-resolver@0.0.2
VendorName: Ember CLI contributors
ansi-regex@0.2.1
URL: https://github.com/sindresorhus/ansi-regex.git
VendorName: Sindre Sorhus
VendorUrl: http://sindresorhus.com
ansi-regex@1.1.1
URL: https://github.com/sindresorhus/ansi-regex.git
VendorName: Sindre Sorhus
VendorUrl: http://sindresorhus.com
ansi-regex@2.1.1
URL: https://github.com/chalk/ansi-regex.git
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
ansi-regex@3.0.0
URL: https://github.com/chalk/ansi-regex.git
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
ansi-styles@1.0.0
URL: git://github.com/sindresorhus/ansi-styles.git
VendorName: Sindre Sorhus
VendorUrl: https://github.com/sindresorhus/ansi-styles
ansi-styles@1.1.0

URL: <https://github.com/sindresorhus/ansi-styles.git>
VendorName: Sindre Sorhus
VendorUrl: <http://sindresorhus.com>
ansi-styles@2.2.1
URL: <https://github.com/chalk/ansi-styles.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
ansi-styles@3.2.1
URL: <https://github.com/chalk/ansi-styles.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
ansi@0.3.1
URL: <git://github.com/TooTallNate/ansi.js.git>
VendorName: Nathan Rajlich
VendorUrl: <http://tootallnate.net>
ansicolors@0.2.1
URL: <git://github.com/thlorenz/ansicolors.git>
VendorName: Thorsten Lorenz
VendorUrl: thlorenz.com
ansicolors@0.3.2
URL: <git://github.com/thlorenz/ansicolors.git>
VendorName: Thorsten Lorenz
VendorUrl: thlorenz.com
ansistyles@0.1.3
URL: <git://github.com/thlorenz/ansistyles.git>
VendorName: Thorsten Lorenz
VendorUrl: thlorenz.com
archy@1.0.0
URL: <http://github.com/substack/node-archy.git>
VendorName: James Halliday
VendorUrl: <http://substack.net>
argparse@1.0.10
URL: <https://github.com/nodeca/argparse.git>
arr-diff@2.0.0
URL: <https://github.com/jonschlinkert/arr-diff.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/arr-diff>
arr-flatten@1.1.0
URL: <https://github.com/jonschlinkert/arr-flatten.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/arr-flatten>
array-equal@1.0.0
URL: <https://github.com/component/array-equal.git>
VendorName: Jonathan Ong
VendorUrl: <http://jongleberry.com>
array-find-index@1.0.2
URL: <https://github.com/sindresorhus/array-find-index.git>
VendorName: Sindre Sorhus

VendorUrl: sindresorhus.com
array-flatten@1.1.1
URL: [git://github.com/blakeembrey/array-flatten.git](https://github.com/blakeembrey/array-flatten.git)
VendorName: Blake Embrey
VendorUrl: <https://github.com/blakeembrey/array-flatten>
array-index@1.0.0
URL: [git://github.com/TooTallNate/array-index.git](https://github.com/TooTallNate/array-index.git)
VendorName: Nathan Rajlich
VendorUrl: <http://tootallnate.net>
array-unique@0.2.1
URL: [git://github.com/jonschlinkert/array-unique.git](https://github.com/jonschlinkert/array-unique.git)
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/array-unique>
arraybuffer.slice@0.0.6
URL: [git@github.com:rase-/arraybuffer.slice.git](https://github.com/rase-/arraybuffer.slice.git)
VendorUrl: <https://github.com/rase-/arraybuffer.slice>
asap@2.0.6
URL: <https://github.com/krisKowal/asap.git>
asn1@0.1.11
URL: [git://github.com/mcavage/node-asn1.git](https://github.com/mcavage/node-asn1.git)
VendorName: Mark Cavage
asn1@0.2.4
URL: [git://github.com/joyent/node-asn1.git](https://github.com/joyent/node-asn1.git)
VendorName: Joyent
VendorUrl: joyent.com
assert-plus@0.2.0
URL: <https://github.com/mcavage/node-assert-plus.git>
VendorName: Mark Cavage
assert-plus@1.0.0
URL: <https://github.com/mcavage/node-assert-plus.git>
VendorName: Mark Cavage
ast-traverse@0.1.1
URL: <https://github.com/olov/ast-traverse.git>
VendorName: Olov Lassus
ast-types@0.8.12
URL: [git://github.com/benjamn/ast-types.git](https://github.com/benjamn/ast-types.git)
VendorName: Ben Newman
VendorUrl: <http://github.com/benjamn/ast-types>
ast-types@0.8.15
URL: [git://github.com/benjamn/ast-types.git](https://github.com/benjamn/ast-types.git)
VendorName: Ben Newman
VendorUrl: <http://github.com/benjamn/ast-types>
ast-types@0.9.6
URL: [git://github.com/benjamn/ast-types.git](https://github.com/benjamn/ast-types.git)
VendorName: Ben Newman
VendorUrl: <http://github.com/benjamn/ast-types>
async-disk-cache@1.3.5
URL: <https://github.com/stefanpenner/async-disk-cache.git>

VendorName: Stefan Penner
async-promise-queue@1.0.5
URL: <https://github.com/stefanpenner/async-promise-queue>
VendorName: Stefan Penner
async@0.2.10
URL: <https://github.com/caolan/async.git>
VendorName: Caolan McMahon
async@0.8.0
URL: <https://github.com/caolan/async.git>
VendorName: Caolan McMahon
async@0.9.0
URL: <https://github.com/caolan/async.git>
VendorName: Caolan McMahon
async@1.5.2
URL: <https://github.com/caolan/async.git>
VendorName: Caolan McMahon
async@2.6.3
URL: <https://github.com/caolan/async.git>
VendorName: Caolan McMahon
VendorUrl: <https://caolan.github.io/async/>
asynckit@0.4.0
URL: <git+https://github.com/alexindigo/asynckit.git>
VendorName: Alex Indigo
VendorUrl: <https://github.com/alexindigo/asynckit#readme>
aws4@1.9.0
URL: <https://github.com/mhart/aws4.git>
VendorName: Michael Hart
VendorUrl: <http://github.com/mhart>
babel-core@5.8.38
URL: <https://github.com/babel/babel.git>
VendorName: Sebastian McKenzie
VendorUrl: <https://babeljs.io/>
babel-plugin-constant-folding@1.0.1
URL: <https://github.com/babel-plugins/babel-plugin-constant-folding.git>
babel-plugin-dead-code-elimination@1.0.2
URL: <https://github.com/babel-plugins/babel-plugin-dead-code-elimination.git>
babel-plugin-eval@1.0.1
URL: <https://github.com/babel-plugins/babel-plugin-eval.git>
babel-plugin-htmlbars-inline-precompile@0.0.5
URL: <https://github.com/pangratz/babel-plugin-htmlbars-inline-precompile>
VendorName: Clemens Miller
babel-plugin-inline-environment-variables@1.0.1
URL: <https://github.com/babel-plugins/babel-plugin-inline-environment-variables.git>
babel-plugin-jscript@1.0.4
URL: <https://github.com/babel-plugins/babel-plugin-jscript.git>
babel-plugin-member-expression-literals@1.0.1
URL: <https://github.com/babel-plugins/babel-plugin-member-expression-literals.git>
babel-plugin-property-literals@1.0.1

URL: <https://github.com/babel-plugins/babel-plugin-property-literals.git>
babel-plugin-proto-to-assign@1.0.4
URL: <https://github.com/babel-plugins/babel-plugin-proto-to-assign.git>
babel-plugin-react-constant-elements@1.0.3
URL: <https://github.com/babel-plugins/babel-plugin-react-constant-elements.git>
babel-plugin-react-display-name@1.0.3
URL: <https://github.com/babel-plugins/babel-plugin-react-display-name.git>
babel-plugin-remove-console@1.0.1
URL: <https://github.com/babel-plugins/babel-plugin-remove-console.git>
babel-plugin-remove-debugger@1.0.1
URL: <https://github.com/babel-plugins/babel-plugin-remove-debugger.git>
babel-plugin-runtime@1.0.7
URL: <https://github.com/babel-plugins/babel-plugin-runtime.git>
babel-plugin-undeclared-variables-check@1.0.2
URL: <https://github.com/babel-plugins/babel-plugin-undeclared-variables-check.git>
babel-plugin-undefined-to-void@1.1.6
URL: <https://github.com/babel-plugins/babel-plugin-undefined-to-void.git>
babylon@5.8.38
URL: <https://github.com/babel/babel.git>
VendorName: Sebastian McKenzie
VendorUrl: <https://babeljs.io/>
backbone@1.4.0
URL: <https://github.com/jashkenas/backbone.git>
VendorName: Jeremy Ashkenas
backo2@1.0.2
URL: <https://github.com/mokesmokes/backo.git>
balanced-match@1.0.0
URL: <git://github.com/juliangruber/balanced-match.git>
VendorName: Julian Gruber
VendorUrl: <https://github.com/juliangruber/balanced-match>
base64-arraybuffer@0.1.2
URL: <https://github.com/niklasvh/base64-arraybuffer>
VendorName: Niklas von Herten
VendorUrl: <https://github.com/niklasvh/base64-arraybuffer>
basic-auth@2.0.1
URL: <https://github.com/jshttp/basic-auth.git>
benchmark@1.0.0
URL: <https://github.com/bestiejs/benchmark.js.git>
VendorName: Mathias Bynens
VendorUrl: <http://benchmarkjs.com/>
better-assert@1.0.2
URL: <https://github.com/visionmedia/better-assert.git>
VendorName: TJ Holowaychuk
binaryextensions@2.2.0
URL: <https://github.com/bevry/binaryextensions.git>
VendorName: 2013+ Bevry Pty Ltd
VendorUrl: <https://github.com/bevry/binaryextensions>
bl@1.0.3

URL: <https://github.com/rvagg/bl.git>
VendorUrl: <https://github.com/rvagg/bl>
bl@1.1.2
URL: <https://github.com/rvagg/bl.git>
VendorUrl: <https://github.com/rvagg/bl>
blank-object@1.0.2
URL: <git+https://github.com/stefanpenner/blank-object.git>
VendorName: Stefan Penner
VendorUrl: <https://github.com/stefanpenner/blank-object#readme>
bluebird@2.11.0
URL: <git://github.com/petkaantonov/bluebird.git>
VendorName: Petka Antonov
VendorUrl: <https://github.com/petkaantonov/bluebird>
body-parser@1.14.2
URL: <https://github.com/expressjs/body-parser.git>
body-parser@1.19.0
URL: <https://github.com/expressjs/body-parser.git>
bower-config@0.6.1
URL: <git://github.com/bower/config.git>
VendorName: Twitter
VendorUrl: <http://bower.io/>
bower-endpoint-parser@0.2.2
URL: <git://github.com/bower/endpoint-parser.git>
VendorName: Twitter
bower-shrinkwrap-resolver-ext@0.1.0
URL: <https://github.com/sreenaths/bower-shrinkwrap-resolver-ext>
bower@1.8.8
URL: <https://github.com/bower/bower.git>
VendorName: Twitter
VendorUrl: <http://bower.io/>
brace-expansion@1.1.11
URL: <git://github.com/juliangruber/brace-expansion.git>
VendorName: Julian Gruber
VendorUrl: <https://github.com/juliangruber/brace-expansion>
braces@1.8.5
URL: <https://github.com/jonschlinkert/braces.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/braces>
breakable@1.0.0
URL: <https://github.com/olov/breakable.git>
VendorName: Olov Lassus
broccoli-asset-rev@2.4.2
URL: <git://github.com/rickharrison/broccoli-asset-rev>
VendorName: Rick Harrison
VendorUrl: <https://github.com/rickharrison/broccoli-asset-rev>
broccoli-asset-rewrite@1.1.0
URL: <git://github.com/rickharrison/broccoli-asset-rewrite>
VendorName: Rick Harrison

VendorUrl: <https://github.com/rickharrison/broccoli-asset-rewrite>
broccoli-babel-transpiler@5.7.4
URL: <https://github.com/babel/broccoli-babel-transpiler.git>
VendorName: nightire
VendorUrl: <https://github.com/babel/broccoli-babel-transpiler>
broccoli-caching-writer@2.3.1
URL: <https://github.com/ember-cli/broccoli-caching-writer.git>
VendorName: Robert Jackson
broccoli-caching-writer@3.0.3
URL: <https://github.com/ember-cli/broccoli-caching-writer.git>
VendorName: Robert Jackson
broccoli-clean-css@0.2.0
URL: <https://github.com/shinnn/broccoli-clean-css>
VendorName: Shinnosuke Watanabe
VendorUrl: <https://github.com/shinnn/broccoli-clean-css>
broccoli-config-loader@1.0.1
URL: <git+https://github.com/ember-cli/broccoli-config-loader.git>
VendorName: yaymukund
VendorUrl: <https://github.com/ember-cli/broccoli-config-loader#readme>
broccoli-config-replace@1.1.2
URL: <https://github.com/ember-cli/broccoli-config-replace>
VendorName: yaymukund
VendorUrl: <https://github.com/ember-cli/broccoli-config-replace#readme>
broccoli-debug@0.6.5
URL: <https://github.com/broccolijs/broccoli-debug.git>
VendorName: Robert Jackson
VendorUrl: [http:](http://)
broccoli-filter@0.1.14
URL: <https://github.com/broccolijs/broccoli-filter>
VendorName: Jo Liss
broccoli-filter@1.3.0
URL: <https://github.com/broccolijs/broccoli-filter>
broccoli-funnel@1.0.1
URL: <https://github.com/broccolijs/broccoli-funnel.git>
VendorName: Robert Jackson
broccoli-funnel@1.2.0
URL: <https://github.com/broccolijs/broccoli-funnel.git>
VendorName: Robert Jackson
broccoli-funnel@2.0.2
URL: <https://github.com/broccolijs/broccoli-funnel.git>
VendorName: Robert Jackson
broccoli-jshint@1.2.0
URL: <https://github.com/rwjblue/broccoli-jshint.git>
VendorName: Robert Jackson
broccoli-kitchen-sink-helpers@0.2.9
URL: <https://github.com/broccolijs/broccoli-kitchen-sink-helpers>
VendorName: Jo Liss
broccoli-kitchen-sink-helpers@0.3.1

URL: <https://github.com/broccolijs/broccoli-kitchen-sink-helpers>
VendorName: Jo Liss
broccoli-less-single@0.6.4
URL: <https://github.com/gabrielgrant/broccoli-less-single>
VendorName: Gabriel Grant
VendorUrl: <https://github.com/gabrielgrant/broccoli-less-single>
broccoli-merge-trees@1.1.1
URL: <https://github.com/broccolijs/broccoli-merge-trees>
VendorName: Jo Liss
broccoli-merge-trees@1.2.4
URL: <https://github.com/broccolijs/broccoli-merge-trees>
VendorName: Jo Liss
broccoli-merge-trees@2.0.1
URL: <https://github.com/broccolijs/broccoli-merge-trees>
VendorName: Jo Liss
broccoli-persistent-filter@1.4.6
URL: <git+https://github.com/stefanpenner/broccoli-persistent-filter.git>
VendorName: Stefan Penner
VendorUrl: <https://github.com/stefanpenner/broccoli-persistent-filter#readme>
broccoli-plugin@1.1.0
URL: <https://github.com/broccolijs/broccoli-plugin>
VendorName: Jo Liss
broccoli-plugin@1.3.1
URL: <https://github.com/broccolijs/broccoli-plugin>
VendorName: Jo Liss
broccoli-sane-watcher@1.1.5
URL: <https://github.com/broccolijs/broccoli-sane-watcher.git>
VendorName: Kris Selden
VendorUrl: <https://github.com/broccolijs/broccoli-sane-watcher>
broccoli-sass-source-maps@2.2.0
URL: <https://github.com/aexmachina/broccoli-sass-source-maps>
VendorName: Jo Liss
broccoli-slow-trees@1.1.0
URL: <https://github.com/rwjblue/broccoli-slow-trees.git>
VendorName: Robert Jackson
VendorUrl: <https://github.com/rwjblue/broccoli-slow-trees>
broccoli-source@1.1.0
URL: <https://github.com/broccolijs/broccoli-source>
VendorName: Jo Liss
broccoli-sourcemap-concat@1.1.6
URL: <https://github.com/ef4/broccoli-sourcemap-concat>
VendorName: Edward Faulkner
broccoli-sourcemap-concat@2.0.2
URL: <https://github.com/ef4/broccoli-sourcemap-concat>
VendorName: Edward Faulkner
broccoli-sri-hash@1.2.2
URL: <https://github.com/jonathanKingston/broccoli-sri-hash.git>
VendorName: Jonathan Kingston

broccoli-stew@1.6.0
URL: <https://github.com/stefanpenner/broccoli-stew.git>
VendorName: Stefan Penner & Robert Jackson
VendorUrl: <https://github.com/stefanpenner/broccoli-stew>

broccoli-uglify-sourcemap@1.5.2
URL: <git+https://github.com/ember-cli/broccoli-uglify-sourcemap.git>
VendorName: Edward Faulkner
VendorUrl: <https://github.com/ember-cli/broccoli-uglify-sourcemap#readme>

broccoli-unwatched-tree@0.1.3
URL: <https://github.com/rjackson/broccoli-unwatched-tree.git>
VendorName: Robert Jackson

broccoli-writer@0.1.1
URL: <https://github.com/joliss/broccoli-writer>
VendorName: Jo Liss

broccoli@0.16.8
URL: <https://github.com/broccolijs/broccoli>
VendorName: Jo Liss
VendorUrl: <https://github.com/broccolijs/broccoli>

buffer-from@1.1.1
URL: <https://github.com/LinusU/buffer-from.git>

builtin-modules@1.1.1
URL: <https://github.com/sindresorhus/builtin-modules.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

builtins@0.0.7
URL: <https://github.com/juliangruber/builtins.git>

builtins@1.0.3
URL: <https://github.com/juliangruber/builtins.git>

bytes@2.2.0
URL: <https://github.com/visionmedia/bytes.js.git>
VendorName: TJ Holowaychuk
VendorUrl: <http://tjholowaychuk.com>

bytes@2.4.0
URL: <https://github.com/visionmedia/bytes.js.git>
VendorName: TJ Holowaychuk
VendorUrl: <http://tjholowaychuk.com>

bytes@3.0.0
URL: <https://github.com/visionmedia/bytes.js.git>
VendorName: TJ Holowaychuk
VendorUrl: <http://tjholowaychuk.com>

bytes@3.1.0
URL: <https://github.com/visionmedia/bytes.js.git>
VendorName: TJ Holowaychuk
VendorUrl: <http://tjholowaychuk.com>

camelcase-keys@2.1.0
URL: <https://github.com/sindresorhus/camelcase-keys.git>
VendorName: Sindre Sorhus
VendorUrl: <http://sindresorhus.com>

camelcase@1.2.1
URL: <https://github.com/sindresorhus/camelcase.git>
VendorName: Sindre Sorhus
VendorUrl: <http://sindresorhus.com>

camelcase@2.1.1
URL: <https://github.com/sindresorhus/camelcase.git>
VendorName: Sindre Sorhus
VendorUrl: <http://sindresorhus.com>

camelcase@3.0.0
URL: <https://github.com/sindresorhus/camelcase.git>
VendorName: Sindre Sorhus
VendorUrl: <http://sindresorhus.com>

can-symlink@1.0.0
URL: <https://github.com/raytiley/can-symlink>
VendorName: raytiley

cardinal@0.5.0
URL: <git://github.com/thlorenz/cardinal.git>
VendorName: Thorsten Lorenz
VendorUrl: thlorenz.com

center-align@0.1.3
URL: <https://github.com/jonschlinkert/center-align.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/center-align>

chalk@0.4.0
URL: <https://github.com/sindresorhus/chalk.git>
VendorName: Sindre Sorhus
VendorUrl: <http://sindresorhus.com>

chalk@0.5.1
URL: <https://github.com/sindresorhus/chalk.git>

chalk@1.1.0
URL: <https://github.com/chalk/chalk.git>

chalk@1.1.3
URL: <https://github.com/chalk/chalk.git>

chalk@2.4.2
URL: <https://github.com/chalk/chalk.git>

charm@1.0.2
URL: <http://github.com/substack/node-charm.git>
VendorName: James Halliday
VendorUrl: <http://substack.net>

clean-css@2.2.23
URL: <https://github.com/GoalSmashers/clean-css.git>
VendorName: Jakub Pawlowicz
VendorUrl: <https://github.com/GoalSmashers/clean-css>

cli-color@0.3.3
URL: <git://github.com/medikoo/cli-color.git>
VendorName: Mariusz Nowak
VendorUrl: <http://www.medikoo.com/>

cli-table@0.3.1

URL: <https://github.com/Automattic/cli-table.git>
VendorName: Guillermo Rauch
cli@1.0.1
URL: <http://github.com/node-js-libs/cli.git>
VendorName: Chris O'Hara
VendorUrl: <http://github.com/node-js-libs/cli>
clone@0.2.0
URL: <git://github.com/pvorb/node-clone.git>
VendorName: Paul Vorbach
VendorUrl: <http://paul.vorba.ch/>
clone@1.0.4
URL: <git://github.com/pvorb/node-clone.git>
VendorName: Paul Vorbach
VendorUrl: <http://paul.vorba.ch/>
clone@2.1.2
URL: <git://github.com/pvorb/node-clone.git>
VendorName: Paul Vorbach
VendorUrl: <http://paul.vorba.ch/>
co@4.6.0
URL: <https://github.com/tj/co.git>
code-point-at@1.1.0
URL: <https://github.com/sindresorhus/code-point-at.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
color-convert@1.9.3
URL: <https://github.com/Qix-/color-convert.git>
VendorName: Heather Arthur
color-name@1.1.3
URL: <git@github.com:dfcreative/color-name.git>
VendorName: DY
VendorUrl: <https://github.com/dfcreative/color-name>
colors@1.0.3
URL: <http://github.com/Marak/colors.js.git>
VendorName: Marak Squires
VendorUrl: <https://github.com/Marak/colors.js>
columnify@1.5.4
URL: <git://github.com/timoxley/columnify.git>
VendorName: Tim Oxley
VendorUrl: <https://github.com/timoxley/columnify>
combined-stream@1.0.8
URL: <git://github.com/felixge/node-combined-stream.git>
VendorName: Felix Geisendrfer
VendorUrl: <https://github.com/felixge/node-combined-stream>
commander@2.1.0
URL: <https://github.com/visionmedia/commander.js.git>
VendorName: TJ Holowaychuk
commander@2.2.0
URL: <https://github.com/visionmedia/commander.js.git>

VendorName: TJ Holowaychuk
commander@2.20.3
URL: <https://github.com/tj/commander.js.git>
VendorName: TJ Holowaychuk
commoner@0.10.8
URL: <git://github.com/benjamn/commoner.git>
VendorName: Ben Newman
VendorUrl: <http://github.com/benjamn/commoner>
compressible@2.0.17
URL: <https://github.com/jshttp/compressible.git>
compression@1.7.4
URL: <https://github.com/expressjs/compression.git>
concat-map@0.0.1
URL: <git://github.com/substack/node-concat-map.git>
VendorName: James Halliday
VendorUrl: <http://substack.net>
concat-stream@1.5.0
URL: <http://github.com/maxogden/concat-stream.git>
VendorName: Max Ogden
concat-stream@1.6.2
URL: <http://github.com/maxogden/concat-stream.git>
VendorName: Max Ogden
config-chain@1.1.12
URL: <https://github.com/dominictarr/config-chain.git>
VendorName: Dominic Tarr
VendorUrl: <http://github.com/dominictarr/config-chain>
connect@3.7.0
URL: <https://github.com/senchalabs/connect.git>
VendorName: TJ Holowaychuk
VendorUrl: <http://tjholowaychuk.com>
console-browserify@1.1.0
URL: <git://github.com/Raynos/console-browserify.git>
VendorName: Raynos
VendorUrl: <https://github.com/Raynos/console-browserify>
consolidate@0.13.1
URL: <https://github.com/visionmedia/consolidate.js.git>
VendorName: TJ Holowaychuk
content-disposition@0.5.3
URL: <https://github.com/jshttp/content-disposition.git>
VendorName: Douglas Christopher Wilson
content-type@1.0.4
URL: <https://github.com/jshttp/content-type.git>
VendorName: Douglas Christopher Wilson
convert-source-map@1.7.0
URL: <git://github.com/thlorenz/convert-source-map.git>
VendorName: Thorsten Lorenz
VendorUrl: <https://github.com/thlorenz/convert-source-map>
cookie-signature@1.0.6

URL: <https://github.com/visionmedia/node-cookie-signature.git>
VendorName: TJ Holowaychuk
cookie@0.4.0
URL: <https://github.com/jshttp/cookie.git>
VendorName: Roman Shtylman
copy-dereference@1.0.0
URL: <https://github.com/broccolijs/node-copy-dereference>
VendorName: Jo Liss
core-js@1.2.7
URL: <https://github.com/zloirock/core-js.git>
core-object@0.0.2
URL: https://github.com/stefanpenner/core_object.git
VendorName: Ember core team and ember cli contributors
VendorUrl: https://github.com/stefanpenner/core_object
core-util-is@1.0.2
URL: <git://github.com/isaacs/core-util-is>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>
cross-spawn-async@2.2.5
URL: <git://github.com/IndigoUnited/node-cross-spawn-async.git>
VendorName: IndigoUnited
VendorUrl: <http://indigounited.com>
cross-spawn@3.0.1
URL: <git://github.com/IndigoUnited/node-cross-spawn.git>
VendorName: IndigoUnited
VendorUrl: <http://indigounited.com>
ctype@0.5.3
URL: <https://github.com/rmustacc/node-ctype.git>
VendorName: Robert Mustacchi
VendorUrl: <https://github.com/rmustacc/node-ctype>
currently-unhandled@0.4.1
URL: <https://github.com/jamestalmage/currently-unhandled.git>
VendorName: James Talmage
VendorUrl: github.com/jamestalmage
d@0.1.1
URL: <git://github.com/medikoo/d.git>
VendorName: Mariusz Nowak
VendorUrl: <http://www.medikoo.com/>
dashdash@1.14.1
URL: <git://github.com/trentm/node-dashdash.git>
VendorName: Trent Mick
VendorUrl: <http://trentm.com>
date-now@0.1.4
URL: <git://github.com/Colingo/date-now.git>
VendorName: Raynos
VendorUrl: <https://github.com/Colingo/date-now>
debug@0.7.4
URL: <git://github.com/visionmedia/debug.git>

VendorName: TJ Holowaychuk
debug@1.0.2
URL: [git://github.com/visionmedia/debug.git](https://github.com/visionmedia/debug.git)
VendorName: TJ Holowaychuk
debug@1.0.3
URL: [git://github.com/visionmedia/debug.git](https://github.com/visionmedia/debug.git)
VendorName: TJ Holowaychuk
debug@1.0.4
URL: [git://github.com/visionmedia/debug.git](https://github.com/visionmedia/debug.git)
VendorName: TJ Holowaychuk
debug@2.1.0
URL: [git://github.com/visionmedia/debug.git](https://github.com/visionmedia/debug.git)
VendorName: TJ Holowaychuk
debug@2.2.0
URL: [git://github.com/visionmedia/debug.git](https://github.com/visionmedia/debug.git)
VendorName: TJ Holowaychuk
debug@2.6.9
URL: [git://github.com/visionmedia/debug.git](https://github.com/visionmedia/debug.git)
VendorName: TJ Holowaychuk
debug@3.2.6
URL: [git://github.com/visionmedia/debug.git](https://github.com/visionmedia/debug.git)
VendorName: TJ Holowaychuk
debuglog@1.0.1
URL: <https://github.com/sam-github/node-debuglog.git>
VendorName: Sam Roberts
decamelize@1.2.0
URL: <https://github.com/sindresorhus/decamelize.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
defaults@1.0.3
URL: [git://github.com/tmpvar/defaults.git](https://github.com/tmpvar/defaults.git)
VendorName: Elijah Insua
defined@1.0.0
URL: [git://github.com/substack/defined.git](https://github.com/substack/defined.git)
VendorName: James Halliday
VendorUrl: <https://github.com/substack/defined>
defs@1.1.1
URL: <https://github.com/olov/defs.git>
VendorName: Olov Lassus
delayed-stream@1.0.0
URL: [git://github.com/felixge/node-delayed-stream.git](https://github.com/felixge/node-delayed-stream.git)
VendorName: Felix Geisendrfer
VendorUrl: <https://github.com/felixge/node-delayed-stream>
delegates@1.0.0
URL: <https://github.com/visionmedia/node-delegates.git>
depd@1.1.2
URL: <https://github.com/dougwilson/nodejs-depd.git>
VendorName: Douglas Christopher Wilson

destroy@1.0.4
URL: <https://github.com/stream-utils/destroy.git>
VendorName: Jonathan Ong
VendorUrl: <http://jongleberry.com>

detect-indent@3.0.1
URL: <https://github.com/sindresorhus/detect-indent.git>
VendorName: Sindre Sorhus
VendorUrl: <http://sindresorhus.com>

detective@4.7.1
URL: <git://github.com/browserify/detective.git>
VendorName: James Halliday
VendorUrl: <http://substack.net>

did_it_work@0.0.6
VendorName: Toby Ho

dom-serializer@0.2.2
URL: <git://github.com/cheeriojs/dom-renderer.git>
VendorName: Felix Boehm

ecc-jsbn@0.1.2
URL: <https://github.com/quartzjer/ecc-jsbn.git>
VendorName: Jeremie Miller
VendorUrl: <https://github.com/quartzjer/ecc-jsbn>

editions@1.3.4
URL: <https://github.com/bevry/editions.git>
VendorName: 2016+ Bevry Pty Ltd
VendorUrl: <https://github.com/bevry/editions>

editor@1.0.0
URL: <git://github.com/substack/node-editor.git>
VendorName: James Halliday
VendorUrl: <https://github.com/substack/node-editor>

ee-first@1.1.1
URL: <https://github.com/jonathanong/ee-first.git>
VendorName: Jonathan Ong
VendorUrl: <http://jongleberry.com>

em-helpers@0.8.0
URL: <https://github.com/sreenaths/em-helpers.git>
VendorName: Sreenath Somarajapuram

em-table@0.12.0
URL: <https://github.com/sreenaths/em-table.git>
VendorName: Sreenath Somarajapuram

ember-array-contains-helper@1.0.2
URL: <https://github.com/bmeurant/ember-array-contains-helper>
VendorName: Baptiste Meurant

ember-bootstrap@0.5.1
URL: <https://github.com/kaliber5/ember-bootstrap>
VendorName: Simon Ihmig
VendorUrl: <http://kaliber5.github.io/ember-bootstrap/>

ember-cli-app-version@1.0.0
URL: <https://github.com/embersherpa/ember-cli-app-version.git>

VendorName: Taras Mankovski
ember-cli-babel@5.1.6
URL: [git://github.com/babel/ember-cli-babel.git](https://github.com/babel/ember-cli-babel.git)
VendorName: Gordon Kristan
VendorUrl: <https://github.com/babel/ember-cli-babel>
ember-cli-babel@5.2.8
URL: [git://github.com/babel/ember-cli-babel.git](https://github.com/babel/ember-cli-babel.git)
VendorName: Gordon Kristan
ember-cli-content-security-policy@0.4.0
URL: <https://github.com/rwjblue/ember-cli-content-security-policy>
ember-cli-copy-dereference@1.0.0
URL: <https://github.com/broccolijs/node-copy-dereference>
VendorName: Jo Liss
ember-cli-dependency-checker@1.2.0
URL: <https://github.com/quaertym/ember-cli-dependency-checker.git>
VendorName: Emre Unal
ember-cli-htmlbars-inline-precompile@0.3.1
URL: <https://github.com/pangratz/ember-cli-htmlbars-inline-precompile>
VendorName: Clemens Mller
ember-cli-htmlbars@0.7.6
URL: [git@github.com:ember-cli/ember-cli-htmlbars.git](https://github.com/ember-cli/ember-cli-htmlbars.git)
VendorName: Jonathan Jackson & Chase McCarthy
VendorUrl: <https://github.com/ember-cli/ember-cli-htmlbars>
ember-cli-htmlbars@1.0.2
URL: [git@github.com:ember-cli/ember-cli-htmlbars.git](https://github.com/ember-cli/ember-cli-htmlbars.git)
VendorName: Jonathan Jackson & Chase McCarthy
VendorUrl: <https://github.com/ember-cli/ember-cli-htmlbars>
ember-cli-htmlbars@1.3.5
URL: [git@github.com:ember-cli/ember-cli-htmlbars.git](https://github.com/ember-cli/ember-cli-htmlbars.git)
VendorName: Jonathan Jackson & Chase McCarthy
VendorUrl: <https://github.com/ember-cli/ember-cli-htmlbars>
ember-cli-ic-ajax@0.2.1
URL: <https://github.com/rjackson/ember-cli-ic-ajax>
VendorName: Robert Jackson
VendorUrl: <https://github.com/rjackson/ember-cli-ic-ajax>
ember-cli-inject-live-reload@1.4.0
URL: [git://github.com/rwjblue/ember-cli-inject-live-reload.git](https://github.com/rwjblue/ember-cli-inject-live-reload.git)
VendorName: Robert Jackson
VendorUrl: <https://github.com/rwjblue/ember-cli-inject-live-reload>
ember-cli-jquery-ui@0.0.20
URL: <https://github.com/gaurav0/ember-cli-jquery-ui>
VendorName: Gaurav Munjal
ember-cli-less@1.5.7
URL: <https://github.com/gdub22/ember-cli-less>
VendorName: Garth Poitras
ember-cli-moment-shim@0.7.3
URL: [git://github.com/jasonmit/ember-cli-moment-shim.git](https://github.com/jasonmit/ember-cli-moment-shim.git)
VendorName: Jason Mitchell

VendorUrl: <https://github.com/jasonmit/ember-cli-moment-shim>
ember-cli-node-assets@0.1.6
URL: <https://github.com/dfreeman/ember-cli-node-assets.git>
VendorName: Dan Freeman
ember-cli-numeral@0.2.0
URL: <http://github.com/josemarluedke/ember-cli-numeral>
VendorName: Jay Phelps
VendorUrl: <https://github.com/josemarluedke/ember-cli-numeral>
ember-cli-qunit@1.2.1
URL: <https://github.com/ember-cli/ember-cli-qunit.git>
VendorName: Jake Craige
VendorUrl: <https://github.com/ember-cli/ember-cli-qunit>
ember-cli-release@0.2.8
URL: <https://github.com/lytics/ember-cli-release.git>
VendorName: Steven Lindberg
ember-cli-sass@7.0.0
URL: <git://github.com/aexmachina/ember-cli-sass.git>
VendorName: @aexmachina
VendorUrl: <https://github.com/aexmachina/ember-cli-sass>
ember-cli-sri@1.2.1
URL: <https://github.com/jonathanKingston/ember-cli-sri>
VendorName: Jonathan Kingston
ember-cli-uglify@1.2.0
URL: <https://github.com/ember-cli/ember-cli-uglify.git>
ember-cli-version-checker@1.3.1
URL: <https://github.com/rwjblue/ember-cli-version-checker.git>
VendorName: Robert Jackson
VendorUrl: <https://github.com/rwjblue/ember-cli-version-checker>
ember-cli@1.13.14
URL: <https://github.com/ember-cli/ember-cli.git>
VendorName: Stefan Penner, Robert Jackson and ember-cli contributors
ember-d3@0.1.0
URL: <https://github.com/brzpegasus/ember-d3>
VendorName: Estelle DeBlois
ember-data@2.1.0
URL: <git://github.com/emberjs/data.git>
ember-disable-proxy-controllers@1.0.1
URL: <https://github.com/cibernox/ember-disable-proxy-controllers>
VendorName: Miguel Camba
ember-export-application-global@1.0.5
URL: <https://github.com/ember-cli/ember-export-application-global.git>
VendorName: Robert Jackson
VendorUrl: <https://github.com/ember-cli/ember-export-application-global>
ember-lodash@0.0.10
URL: <https://github.com/levanto-financial/ember-lodash.git>
VendorName: Mike North
VendorUrl: <https://github.com/levanto-financial/ember-lodash>
ember-qunit@0.4.24

URL: <https://github.com/rwjblue/ember-qunit.git>
ember-resolver@2.0.3
URL: [git+https://github.com/ember-cli/ember-resolver.git](https://github.com/ember-cli/ember-resolver.git)
VendorName: Robert Jackson
VendorUrl: <https://github.com/ember-cli/ember-resolver#readme>
ember-router-generator@1.2.3
URL: <https://github.com/ember-cli/ember-router-generator.git>
VendorName: Adolfo Builes
VendorUrl: <https://github.com/ember-cli/ember-router-generator>
ember-spin-spinner@0.2.3
URL: <https://github.com/rsschermer/ember-spin-spinner>
VendorName: Roland Schermer
VendorUrl: <https://github.com/rsschermer/ember-spin-spinner>
ember-truth-helpers@1.3.0
URL: <https://github.com/jmurphyau/ember-truth-helpers>
VendorName: James Murphy
ember-wormhole@0.3.6
URL: <https://github.com/yapplabs/ember-wormhole.git>
VendorName: Yapp Labs
encodeurl@1.0.2
URL: <https://github.com/pillarjs/encodeurl.git>
engine.io-parser@1.2.2
URL: [git@github.com:Automattic/engine.io-parser.git](https://github.com/Automattic/engine.io-parser.git)
VendorUrl: <https://github.com/Automattic/engine.io-parser>
engine.io-pure@1.5.9
URL: [git@github.com:Automattic/engine.io.git](https://github.com/Automattic/engine.io.git)
VendorName: Guillermo Rauch
VendorUrl: <https://github.com/LearnBoost/engine.io>
errno@0.1.7
URL: <https://github.com/rvagg/node-errno.git>
error-ex@1.3.2
URL: <https://github.com/qix-/node-error-ex.git>
es6-iterator@0.1.3
URL: [git://github.com/medikoo/es6-iterator.git](https://github.com/medikoo/es6-iterator.git)
VendorName: Mariusz Nowak
VendorUrl: <http://www.medikoo.com/>
es6-iterator@2.0.3
URL: [git://github.com/medikoo/es6-iterator.git](https://github.com/medikoo/es6-iterator.git)
VendorName: Mariusz Nowak
VendorUrl: <http://www.medikoo.com/>
es6-promise@4.0.5
URL: [git://github.com/stefanpenner/es6-promise.git](https://github.com/stefanpenner/es6-promise.git)
VendorName: Yehuda Katz, Tom Dale, Stefan Penner and contributors
VendorUrl: Conversion to ES6 API by Jake Archibald
es6-symbol@2.0.1
URL: [git://github.com/medikoo/es6-symbol.git](https://github.com/medikoo/es6-symbol.git)
VendorName: Mariusz Nowak
VendorUrl: <http://www.medikoo.com/>

es6-weak-map@0.1.4
URL: [git://github.com/medikoo/es6-weak-map.git](https://github.com/medikoo/es6-weak-map.git)
VendorName: Mariusz Nowak
VendorUrl: <http://www.medikoo.com/>

escape-html@1.0.3
URL: <https://github.com/component/escape-html.git>

escape-string-regexp@1.0.5
URL: <https://github.com/sindresorhus/escape-string-regexp.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

etag@1.8.1
URL: <https://github.com/jshttp/etag.git>

event-emitter@0.3.5
URL: [git://github.com/medikoo/event-emitter.git](https://github.com/medikoo/event-emitter.git)
VendorName: Mariusz Nowak
VendorUrl: <http://www.medikoo.com/>

eventemitter3@4.0.0
URL: [git://github.com/primus/eventemitter3.git](https://github.com/primus/eventemitter3.git)
VendorName: Arnout Kazemier

exec-sh@0.2.2
URL: [git@github.com:tsertkov/exec-sh.git](https://github.com/tsertkov/exec-sh.git)
VendorName: Aleksandr Tsertkov

exit@0.1.2
URL: [git://github.com/cowboy/node-exit.git](https://github.com/cowboy/node-exit.git)
VendorName: "Cowboy" Ben Alman
VendorUrl: <https://github.com/cowboy/node-exit>

expand-brackets@0.1.5
URL: <https://github.com/jonschlinkert/expand-brackets.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/expand-brackets>

expand-range@1.8.2
URL: <https://github.com/jonschlinkert/expand-range.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/expand-range>

express@4.17.1
URL: <https://github.com/expressjs/express.git>
VendorName: TJ Holowaychuk
VendorUrl: <http://expressjs.com/>

extend@3.0.2
URL: <https://github.com/justmoon/node-extend.git>
VendorName: Stefan Thomas
VendorUrl: <http://www.justmoon.net>

extglob@0.3.2
URL: [git://github.com/jonschlinkert/extglob.git](https://github.com/jonschlinkert/extglob.git)
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/extglob>

extsprintf@1.3.0
URL: [git://github.com/davepacheco/node-extsprintf.git](https://github.com/davepacheco/node-extsprintf.git)

extsprintf@1.4.0
URL: [git://github.com/davepacheco/node-extsprintf.git](https://github.com/davepacheco/node-extsprintf.git)

fast-deep-equal@2.0.1
URL: [git+https://github.com/epoberezkin/fast-deep-equal.git](https://github.com/epoberezkin/fast-deep-equal.git)
VendorName: Evgeny Poberezkin
VendorUrl: <https://github.com/epoberezkin/fast-deep-equal#readme>

fast-json-stable-stringify@2.1.0
URL: [git://github.com/epoberezkin/fast-json-stable-stringify.git](https://github.com/epoberezkin/fast-json-stable-stringify.git)
VendorName: James Halliday
VendorUrl: <https://github.com/epoberezkin/fast-json-stable-stringify>

fast-sourcemap-concat@0.2.7
URL: <https://github.com/ef4/fast-sourcemap-concat>
VendorName: Edward Faulkner

faye-websocket@0.10.0
URL: [git://github.com/faye/faye-websocket-node.git](https://github.com/faye/faye-websocket-node.git)
VendorName: James Coglan
VendorUrl: <http://github.com/faye/faye-websocket-node>

fd-slicer@1.0.1
URL: [git://github.com/andrewrk/node-fd-slicer.git](https://github.com/andrewrk/node-fd-slicer.git)
VendorName: Andrew Kelley

filename-regex@2.0.1
URL: <https://github.com/regexhq/filename-regex.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/regexhq/filename-regex>

fileset@0.2.1
URL: [git://github.com/mklabs/node-fileset.git](https://github.com/mklabs/node-fileset.git)
VendorName: mklabs
VendorUrl: <https://github.com/mklabs/node-fileset>

fill-range@2.2.4
URL: <https://github.com/jonschlinkert/fill-range.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/fill-range>

finalhandler@1.1.2
URL: <https://github.com/pillarjs/finalhandler.git>
VendorName: Douglas Christopher Wilson

find-up@1.1.2
URL: <https://github.com/sindresorhus/find-up.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

findup-sync@0.2.1
URL: [git://github.com/cowboy/node-findup-sync.git](https://github.com/cowboy/node-findup-sync.git)
VendorName: "Cowboy" Ben Alman
VendorUrl: <https://github.com/cowboy/node-findup-sync>

findup-sync@0.3.0
URL: [git://github.com/cowboy/node-findup-sync.git](https://github.com/cowboy/node-findup-sync.git)
VendorName: "Cowboy" Ben Alman
VendorUrl: <https://github.com/cowboy/node-findup-sync>

findup@0.1.5

URL: <https://github.com/Filirom1/findup.git>
VendorName: Filirom1
fireworm@0.6.6
URL: [git@github.com:airpartyh/fireworm.git](https://github.com/airpartyh/fireworm.git)
VendorName: Toby Ho
follow-redirects@1.9.0
URL: [git@github.com:follow-redirects/follow-redirects.git](https://github.com/follow-redirects/follow-redirects.git)
VendorName: Ruben Verborgh
VendorUrl: <https://github.com/follow-redirects/follow-redirects>
for-in@1.0.2
URL: <https://github.com/jonschlinkert/for-in.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/for-in>
for-own@0.1.5
URL: <https://github.com/jonschlinkert/for-own.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/for-own>
form-data@1.0.1
URL: [git://github.com/form-data/form-data.git](https://github.com/form-data/form-data.git)
VendorName: Felix Geisendrfer
VendorUrl: <http://debuggable.com/>
form-data@2.1.4
URL: [git://github.com/form-data/form-data.git](https://github.com/form-data/form-data.git)
VendorName: Felix Geisendrfer
VendorUrl: <http://debuggable.com/>
form-data@2.3.3
URL: [git://github.com/form-data/form-data.git](https://github.com/form-data/form-data.git)
VendorName: Felix Geisendrfer
VendorUrl: <http://debuggable.com/>
forwarded@0.1.2
URL: <https://github.com/jshttp/forwarded.git>
fresh@0.5.2
URL: <https://github.com/jshttp/fresh.git>
VendorName: TJ Holowaychuk
VendorUrl: <http://tjholowaychuk.com>
fs-extra@0.16.5
URL: <https://github.com/jprichardson/node-fs-extra>
VendorName: JP Richardson
VendorUrl: <https://github.com/jprichardson/node-fs-extra>
fs-extra@0.22.1
URL: <https://github.com/jprichardson/node-fs-extra>
VendorName: JP Richardson
VendorUrl: <https://github.com/jprichardson/node-fs-extra>
fs-extra@0.24.0
URL: <https://github.com/jprichardson/node-fs-extra>
VendorName: JP Richardson
VendorUrl: <https://github.com/jprichardson/node-fs-extra>
fs-extra@0.30.0

URL: <https://github.com/jprichardson/node-fs-extra>
VendorName: JP Richardson
VendorUrl: <https://github.com/jprichardson/node-fs-extra>
fs-extra@5.0.0

URL: <https://github.com/jprichardson/node-fs-extra>
VendorName: JP Richardson
VendorUrl: <https://github.com/jprichardson/node-fs-extra>
fs-readdir-recursive@0.1.2

URL: <https://github.com/fs-utils/fs-readdir-recursive.git>
VendorName: Jonathan Ong
VendorUrl: <http://jongleberry.com>
fs-tree-diff@0.3.1

VendorName: Stefan Penner, David J. Hamilton, Chad Hietala
fs-tree-diff@0.4.4

VendorName: Stefan Penner, David J. Hamilton, Chad Hietala
fs-tree-diff@0.5.9

URL: <git://github.com/stefanpenner/fs-tree-diff.git>
VendorName: Stefan Penner, David J. Hamilton, Chad Hietala
gaze@1.1.3

URL: <https://github.com/shama/gaze.git>
VendorName: Kyle Robinson Young
VendorUrl: <https://github.com/shama/gaze>

generate-function@2.3.1

URL: <https://github.com/mafintosh/generate-function>
VendorName: Mathias Buus
VendorUrl: <https://github.com/mafintosh/generate-function>

generate-object-property@1.2.0

URL: <https://github.com/mafintosh/generate-object-property>
VendorName: Mathias Buus
VendorUrl: <https://github.com/mafintosh/generate-object-property>

get-stdin@4.0.1

URL: <https://github.com/sindresorhus/get-stdin.git>
VendorName: Sindre Sorhus
VendorUrl: <http://sindresorhus.com>

getpass@0.1.7

URL: <https://github.com/arekinath/node-getpass.git>
VendorName: Alex Wilson

git-repo-info@1.4.1

URL: <https://github.com/rwjblue/git-repo-info.git>
VendorName: Robert Jackson
VendorUrl: <https://github.com/rwjblue/git-repo-info>

git-repo-version@0.3.0

URL: <https://github.com/cibernox/git-repo-version>
VendorName: Miguel Camba

github-url-from-git@1.4.0

URL: <https://github.com/visionmedia/node-github-url-from-git.git>
VendorName: TJ Holowaychuk

glob-base@0.3.0

URL: [git://github.com/jonschlinkert/glob-base.git](https://github.com/jonschlinkert/glob-base.git)
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/glob-base>
globals@6.4.1

URL: <https://github.com/sindresorhus/globals.git>
VendorName: Sindre Sorhus
VendorUrl: <http://sindresorhus.com>
globule@1.3.0

URL: [git://github.com/cowboy/node-globule.git](https://github.com/cowboy/node-globule.git)
VendorName: "Cowboy" Ben Alman
VendorUrl: <https://github.com/cowboy/node-globule>
growl@1.10.5

URL: [git://github.com/tj/node-growl.git](https://github.com/tj/node-growl.git)
VendorName: TJ Holowaychuk
handlebars@3.0.7

URL: <https://github.com/wycats/handlebars.js.git>
VendorName: Yehuda Katz
VendorUrl: <http://www.handlebarsjs.com/>
har-validator@5.1.3

URL: <https://github.com/ahmadnassri/node-har-validator.git>
VendorName: Ahmad Nassri
VendorUrl: <https://github.com/ahmadnassri/node-har-validator>
has-ansi@0.1.0

URL: <https://github.com/sindresorhus/has-ansi.git>
VendorName: Sindre Sorhus
VendorUrl: <http://sindresorhus.com>
has-ansi@2.0.0

URL: <https://github.com/sindresorhus/has-ansi.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
has-binary@0.1.6

VendorName: Kevin Roark
has-color@0.1.7

URL: <https://github.com/sindresorhus/has-color.git>
VendorName: Sindre Sorhus
VendorUrl: <http://sindresorhus.com>
has-cors@1.1.0

URL: [git://github.com/component/has-cors.git](https://github.com/component/has-cors.git)
VendorName: Nathan Rajlich
VendorUrl: <http://n8.io/>
has-flag@3.0.0

URL: <https://github.com/sindresorhus/has-flag.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
hasha@2.2.0

URL: <https://github.com/sindresorhus/hasha.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

heimdalljs-logger@0.1.10
URL: git+https://github.com/heimdalljs/heimdalljs-logger.git
VendorName: David J. Hamilton
VendorUrl: https://github.com/heimdalljs/heimdalljs-logger#README.md

heimdalljs@0.2.6
URL: git+https://github.com/heimdalljs/heimdalljs-lib.git
VendorUrl: https://github.com/hjdivad/heimdalljs-lib#readme

home-or-tmp@1.0.0
URL: https://github.com/sindresorhus/home-or-tmp.git
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

htmlparser2@3.8.3
URL: git://github.com/fb55/htmlparser2.git
VendorName: Felix Boehm

http-errors@1.3.1
URL: https://github.com/jshttp/http-errors.git
VendorName: Jonathan Ong
VendorUrl: http://jongleberry.com

http-errors@1.7.2
URL: https://github.com/jshttp/http-errors.git
VendorName: Jonathan Ong
VendorUrl: http://jongleberry.com

http-errors@1.7.3
URL: https://github.com/jshttp/http-errors.git
VendorName: Jonathan Ong
VendorUrl: http://jongleberry.com

http-parser-js@0.4.10
URL: git://github.com/creationix/http-parser-js.git
VendorName: Tim Caswell
VendorUrl: https://github.com/creationix

http-proxy@1.18.0
URL: https://github.com/http-party/node-http-proxy.git
VendorName: Charlie Robbins

http-signature@0.11.0
URL: git://github.com/joyent/node-http-signature.git
VendorName: Joyent, Inc
VendorUrl: https://github.com/joyent/node-http-signature/

http-signature@1.1.1
URL: git://github.com/joyent/node-http-signature.git
VendorName: Joyent, Inc
VendorUrl: https://github.com/joyent/node-http-signature/

http-signature@1.2.0
URL: git://github.com/joyent/node-http-signature.git
VendorName: Joyent, Inc
VendorUrl: https://github.com/joyent/node-http-signature/

ic-ajax@2.0.2
URL: https://github.com/instructure/ic-ajax.git
VendorName: Ryan Florence

VendorUrl: <https://github.com/instructure/ic-ajax>
iconv-lite@0.4.13
URL: <git://github.com/ashtuchkin/iconv-lite.git>
VendorName: Alexander Shtuchkin
VendorUrl: <https://github.com/ashtuchkin/iconv-lite>
iconv-lite@0.4.24
URL: <git://github.com/ashtuchkin/iconv-lite.git>
VendorName: Alexander Shtuchkin
VendorUrl: <https://github.com/ashtuchkin/iconv-lite>
iferr@0.1.5
URL: <https://github.com/shesek/iferr>
VendorName: Nadav Ivgi
VendorUrl: <https://github.com/shesek/iferr>
image-size@0.5.5
URL: <https://github.com/image-size/image-size.git>
VendorName: netroy
VendorUrl: <http://netroy.in/>
imurmurhash@0.1.4
URL: <https://github.com/jensyt/imurmurhash-js>
VendorName: Jens Taylor
VendorUrl: <https://github.com/jensyt/imurmurhash-js>
include-path-searcher@0.1.0
URL: <https://github.com/joliss/include-path-searcher>
VendorName: Jo Liss
indent-string@2.1.0
URL: <https://github.com/sindresorhus/indent-string.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
inflection@1.12.0
URL: <https://github.com/dreamerslab/node.inflection.git>
VendorName: dreamerslab
inquirer@0.5.1
URL: <git://github.com/SBoudrias/Inquirer.js.git>
VendorName: Simon Boudrias
invert-kv@1.0.0
URL: <https://github.com/sindresorhus/invert-kv.git>
VendorName: Sindre Sorhus
VendorUrl: <http://sindresorhus.com>
ipaddr.js@1.9.0
URL: <git://github.com/whitequark/ipaddr.js>
VendorName: whitequark
is-arrayish@0.2.1
URL: <https://github.com/qix-/node-is-arrayish.git>
VendorName: Qix
VendorUrl: <http://github.com/qix->
is-buffer@1.1.6
URL: <git://github.com/feross/is-buffer.git>
VendorName: Feross Aboukhadijeh

VendorUrl: <http://feross.org/>
is-builtin-module@1.0.0
URL: <https://github.com/sindresorhus/is-builtin-module.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

is-dotfile@1.0.3
URL: <https://github.com/jonschlinkert/is-dotfile.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/is-dotfile>

is-equal-shallow@0.1.3
URL: <git://github.com/jonschlinkert/is-equal-shallow.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/is-equal-shallow>

is-extendable@0.1.1
URL: <https://github.com/jonschlinkert/is-extendable.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/is-extendable>

is-extglob@1.0.0
URL: <https://github.com/jonschlinkert/is-extglob.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/is-extglob>

is-finite@1.0.2
URL: <https://github.com/sindresorhus/is-finite.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

is-fullwidth-code-point@1.0.0
URL: <https://github.com/sindresorhus/is-fullwidth-code-point.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

is-fullwidth-code-point@2.0.0
URL: <https://github.com/sindresorhus/is-fullwidth-code-point.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

is-git-url@0.2.0
URL: <git://github.com/jonschlinkert/is-git-url.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/is-git-url>

is-git-url@0.2.3
URL: <https://github.com/jonschlinkert/is-git-url.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/is-git-url>

is-glob@2.0.1
URL: <https://github.com/jonschlinkert/is-glob.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/is-glob>

is-my-ip-valid@1.0.0
URL: <https://github.com/LinusU/is-my-ip-valid.git>

is-my-json-valid@2.20.0

URL: <https://github.com/mafintosh/is-my-json-valid.git>
is-number@2.1.0
URL: <https://github.com/jonschlinkert/is-number.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/is-number>
is-number@4.0.0
URL: <https://github.com/jonschlinkert/is-number.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/is-number>
is-posix-bracket@0.1.1
URL: <https://github.com/jonschlinkert/is-posix-bracket.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/is-posix-bracket>
is-primitive@2.0.0
URL: <https://github.com/jonschlinkert/is-primitive.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/is-primitive>
is-property@1.0.2
URL: <https://github.com/mikolajsenko/is-property.git>
VendorName: Mikola Lysenko
is-stream@1.1.0
URL: <https://github.com/sindresorhus/is-stream.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
is-type@0.0.1
URL: <https://github.com/juliangruber/is-type.git>
VendorName: Julian Gruber
VendorUrl: <https://github.com/juliangruber/is-type>
is-typedarray@1.0.0
URL: <https://github.com/hughsk/is-typedarray.git>
VendorName: Hugh Kennedy
VendorUrl: <https://github.com/hughsk/is-typedarray>
is-utf8@0.2.1
URL: <https://github.com/wayfind/is-utf8.git>
VendorName: wayfind
isarray@0.0.1
URL: <https://github.com/juliangruber/isarray.git>
VendorName: Julian Gruber
VendorUrl: <https://github.com/juliangruber/isarray>
isarray@1.0.0
URL: <https://github.com/juliangruber/isarray.git>
VendorName: Julian Gruber
VendorUrl: <https://github.com/juliangruber/isarray>
isbinaryfile@2.0.4
URL: <https://github.com/gjtorikian/isBinaryFile>
isobject@2.1.0
URL: <https://github.com/jonschlinkert/isobject.git>
VendorName: Jon Schlinkert

VendorUrl: <https://github.com/jonschlinkert/isobject>
isstream@0.1.2
URL: <https://github.com/rvagg/isstream.git>
VendorName: Rod Vagg
VendorUrl: <https://github.com/rvagg/isstream>
istextorbinary@2.1.0
URL: <http://github.com/bevry/istextorbinary.git>
VendorName: 2012+ Bevry Pty Ltd
VendorUrl: <https://github.com/bevry/istextorbinary>
js-tokens@1.0.1
URL: <https://github.com/lydell/js-tokens.git>
VendorName: Simon Lydell
js-yaml@3.13.1
URL: <https://github.com/nodeca/js-yaml.git>
VendorName: Vladimir Zapparov
VendorUrl: <https://github.com/nodeca/js-yaml>
jsbn@0.1.1
URL: <https://github.com/andyperlitch/jsbn.git>
VendorName: Tom Wu
jsesc@0.5.0
URL: <https://github.com/mathiasbynens/jsesc.git>
VendorName: Mathias Bynens
VendorUrl: <http://mths.be/jsesc>
json-parse-better-errors@1.0.2
URL: <https://github.com/zkat/json-parse-better-errors>
VendorName: Kat Marchn
json-schema-traverse@0.4.1
URL: <git+https://github.com/epoberezkin/json-schema-traverse.git>
VendorName: Evgeny Poberezkin
VendorUrl: <https://github.com/epoberezkin/json-schema-traverse#readme>
json-stable-stringify@1.0.1
URL: <git://github.com/substack/json-stable-stringify.git>
VendorName: James Halliday
VendorUrl: <https://github.com/substack/json-stable-stringify>
json3@3.2.6
URL: <git://github.com/bestiejs/json3.git>
VendorName: Kit Cambridge
VendorUrl: <http://bestiejs.github.io/json3>
json5@0.4.0
URL: <https://github.com/aseemk/json5.git>
VendorName: Aseem Kishore
VendorUrl: <http://json5.org/>
jsonfile@2.4.0
URL: <git@github.com:jprichardson/node-jsonfile.git>
VendorName: JP Richardson
jsonfile@4.0.0
URL: <git@github.com:jprichardson/node-jsonfile.git>
VendorName: JP Richardson

jsonpointer@4.0.1
URL: <http://github.com/janl/node-jsonpointer.git>
VendorName: Jan Lehnardt

jsprim@1.4.1
URL: <git://github.com/joyent/node-jsprim.git>

kind-of@3.2.2
URL: <https://github.com/jonschlinkert/kind-of.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/kind-of>

kind-of@6.0.2
URL: <https://github.com/jonschlinkert/kind-of.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/kind-of>

klassy@0.1.3
URL: <https://github.com/cerebris/klassy.js.git>

klaw@1.3.1
URL: <git+https://github.com/jprichardson/node-klaw.git>
VendorName: JP Richardson
VendorUrl: <https://github.com/jprichardson/node-klaw#readme>

lazy-cache@1.0.4
URL: <https://github.com/jonschlinkert/lazy-cache.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/lazy-cache>

lcid@1.0.0
URL: <https://github.com/sindresorhus/lcid.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

leek@0.0.18
URL: <https://github.com/twokul/leek>
VendorName: Alex Navasardyan
VendorUrl: <http://twokul.io>

leven@1.0.2
URL: <https://github.com/sindresorhus/leven.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

linkify-it@1.2.4
URL: <https://github.com/markdown-it/linkify-it.git>

livereload-js@2.4.0
URL: <git://github.com/livereload/livereload-js.git>
VendorUrl: <https://github.com/livereload/livereload-js>

load-json-file@1.1.0
URL: <https://github.com/sindresorhus/load-json-file.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

loader.js@4.2.3
URL: <https://github.com/ember-cli/loader.js.git>
VendorUrl: <https://github.com/ember-cli/loader.js>

lodash-es@3.10.1

URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/custom-builds>
lodash-node@2.4.1
URL: <https://github.com/lodash/lodash-node.git>
VendorName: John-David Dalton
VendorUrl: <http://lodash.com/custom-builds>
lodash-node@3.10.2
URL: <https://github.com/lodash/lodash-node.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>
lodash._arraycopy@3.0.0
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>
lodash._arrayeach@3.0.0
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>
lodash._baseassign@3.2.0
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>
lodash._basecallback@3.3.1
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>
lodash._basecopy@3.0.1
URL: <https://github.com/lodash/lodash.git>
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VendorUrl: <https://lodash.com/>
lodash._basefor@3.0.3
URL: <https://github.com/lodash/lodash.git>
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VendorUrl: <https://lodash.com/>
lodash._baseindexof@3.1.0
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>
lodash._baseisequal@3.0.7
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>
lodash._baseuniq@3.0.3
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>
lodash._bindcallback@3.0.1

URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>
lodash._cacheindexof@3.0.2
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>
lodash._createassigner@3.1.1
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>
lodash._createcache@3.1.2
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>
lodash._getnative@3.9.1
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>
lodash._isiterateecall@3.0.9
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>
lodash.assign@3.2.0
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>
lodash.defaults@3.1.2
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>
lodash.isarguments@3.1.0
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>
lodash.isarray@3.0.4
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>
lodash.isplainobject@3.2.0
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>
lodash.istypedarray@3.0.6
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>
lodash.keys@3.1.2

URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>
lodash.keysin@3.0.8
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>
lodash.merge@3.3.2
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>
lodash.merge@4.6.2
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>
lodash.pad@4.5.1
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>
lodash.padend@4.6.1
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>
lodash.padstart@4.6.1
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>
lodash.pairs@3.0.1
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>
lodash.restparam@3.6.1
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>
lodash.toplainobject@3.0.0
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>
lodash.uniq@3.2.2
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>
lodash@2.3.0
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <http://lodash.com/>
lodash@2.4.2

URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <http://lodash.com/>
lodash@3.10.1
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>
lodash@4.17.15
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>
longest@1.0.1
URL: <https://github.com/jonschlinkert/longest.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/longest>
loud-rejection@1.6.0
URL: <https://github.com/sindresorhus/loud-rejection.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
lru-queue@0.1.0
URL: [git://github.com/medikoo/lru-queue.git](https://github.com/medikoo/lru-queue.git)
VendorName: Mariusz Nowak
VendorUrl: <http://www.medikoo.com/>
make-array@0.1.2
URL: [git://github.com/kaelzhang/make-array.git](https://github.com/kaelzhang/make-array.git)
VendorName: kael
map-obj@1.0.1
URL: <https://github.com/sindresorhus/map-obj.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
markdown-it-terminal@0.0.2
URL: <https://github.com/trabus/markdown-it-terminal>
VendorName: Jake Bixby
VendorUrl: <https://github.com/trabus/markdown-it-terminal>
markdown-it@4.3.0
URL: <https://github.com/markdown-it/markdown-it.git>
VendorUrl: <https://github.com/markdown-it/markdown-it>
markdown-it@4.4.0
URL: <https://github.com/markdown-it/markdown-it.git>
VendorUrl: <https://github.com/markdown-it/markdown-it>
math-random@1.0.4
URL: <https://github.com/michaelrhodes/math-random.git>
VendorName: Michael Rhodes
mdurl@1.0.1
URL: <https://github.com/markdown-it/mdurl.git>
media-typer@0.3.0
URL: <https://github.com/jshttp/media-typer.git>
VendorName: Douglas Christopher Wilson

memoizee@0.3.10
URL: [git://github.com/medikoo/memoizee.git](https://github.com/medikoo/memoizee.git)
VendorName: Mariusz Nowak
VendorUrl: <http://www.medikoo.com/>

meow@3.7.0
URL: <https://github.com/sindresorhus/meow.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

merge-defaults@0.2.2
URL: [git://github.com/mikermcneil/merge-defaults.git](https://github.com/mikermcneil/merge-defaults.git)
VendorName: Mike McNeil
VendorUrl: <https://github.com/mikermcneil/merge-defaults>

merge-descriptors@1.0.1
URL: <https://github.com/component/merge-descriptors.git>
VendorName: Jonathan Ong
VendorUrl: <http://jongleberry.com>

merge-trees@1.0.1
URL: <https://github.com/broccolijs/node-merge-trees>
VendorName: Jo Liss

merge@1.2.1
URL: <https://github.com/yeikos/js.merge.git>
VendorName: yeikos
VendorUrl: <https://github.com/yeikos/js.merge>

methods@1.1.2
URL: <https://github.com/jshttp/methods.git>

micromatch@2.3.11
URL: <https://github.com/jonschlinkert/micromatch.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/micromatch>

mime-db@1.42.0
URL: <https://github.com/jshttp/mime-db.git>

mime-types@2.1.25
URL: <https://github.com/jshttp/mime-types.git>

mime@1.6.0
URL: <https://github.com/broofa/node-mime>
VendorName: Robert Kieffer
VendorUrl: <http://github.com/broofa>

minimatch@0.2.14
URL: [git://github.com/isaacs/minimatch.git](https://github.com/isaacs/minimatch.git)
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me>

minimatch@1.0.0
URL: [git://github.com/isaacs/minimatch.git](https://github.com/isaacs/minimatch.git)
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me>

minimist@0.0.10
URL: [git://github.com/substack/minimist.git](https://github.com/substack/minimist.git)
VendorName: James Halliday

VendorUrl: <https://github.com/substack/minimist>
minimist@0.0.8
URL: <git://github.com/substack/minimist.git>
VendorName: James Halliday
VendorUrl: <https://github.com/substack/minimist>
minimist@1.2.0
URL: <git://github.com/substack/minimist.git>
VendorName: James Halliday
VendorUrl: <https://github.com/substack/minimist>
mkdirp@0.3.5
URL: <http://github.com/substack/node-mkdirp.git>
VendorName: James Halliday
VendorUrl: <http://substack.net>
mkdirp@0.4.2
URL: <https://github.com/substack/node-mkdirp.git>
VendorName: James Halliday
VendorUrl: <http://substack.net>
mkdirp@0.5.0
URL: <https://github.com/substack/node-mkdirp.git>
VendorName: James Halliday
VendorUrl: <http://substack.net>
mkdirp@0.5.1
URL: <https://github.com/substack/node-mkdirp.git>
VendorName: James Halliday
VendorUrl: <http://substack.net>
mktemp@0.3.5
URL: <git://github.com/sasaplus1/mktemp.git>
VendorName: sasa+1
mktemp@0.4.0
URL: <git://github.com/sasaplus1/mktemp.git>
VendorName: sasa+1
moment-timezone@0.3.1
URL: <https://github.com/moment/moment-timezone.git>
VendorName: Tim Wood
VendorUrl: <http://momentjs.com/timezone/>
moment@2.24.0
URL: <https://github.com/moment/moment.git>
VendorName: Iskren Ivov Chernev
VendorUrl: <http://momentjs.com/>
morgan@1.9.1
URL: <https://github.com/expressjs/morgan.git>
mout@0.9.1
URL: <git://github.com/mout/mout.git>
VendorUrl: <http://moutjs.com/>
ms@0.7.1
URL: <git://github.com/guille/ms.js.git>
ms@2.0.0
URL: <https://github.com/zeit/ms.git>

ms@2.1.1
URL: <https://github.com/zeit/ms.git>

ms@2.1.2
URL: <https://github.com/zeit/ms.git>

mustache@2.3.2
URL: <https://github.com/janl/mustache.js.git>
VendorName: mustache.js Authors
VendorUrl: <https://github.com/janl/mustache.js>

nan@2.14.0
URL: <git://github.com/nodejs/nan.git>

negotiator@0.6.2
URL: <https://github.com/jshttp/negotiator.git>

next-tick@0.2.2
URL: <git://github.com/medikoo/next-tick.git>
VendorName: Mariusz Nowak
VendorUrl: <http://www.medikoo.com/>

next-tick@1.0.0
URL: <git://github.com/medikoo/next-tick.git>
VendorName: Mariusz Nowak
VendorUrl: <http://www.medikoo.com/>

node-gyp@3.0.3
URL: <git://github.com/nodejs/node-gyp.git>
VendorName: Nathan Rajlich
VendorUrl: <http://tootallnate.net>

node-gyp@3.8.0
URL: <git://github.com/nodejs/node-gyp.git>
VendorName: Nathan Rajlich
VendorUrl: <http://tootallnate.net>

node-int64@0.4.0
URL: <https://github.com/broofa/node-int64>
VendorName: Robert Kieffer

node-sass@4.13.0
URL: <https://github.com/sass/node-sass>
VendorName: Andrew Nesbitt
VendorUrl: <https://github.com/sass/node-sass>

node-uuid@1.4.8
URL: <https://github.com/broofa/node-uuid.git>
VendorName: Robert Kieffer
VendorUrl: <https://github.com/broofa/node-uuid>

normalize-path@2.1.1
URL: <https://github.com/jonschlinkert/normalize-path.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/normalize-path>

number-is-nan@1.0.1
URL: <https://github.com/sindresorhus/number-is-nan.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

numeral@1.5.6

URL: <https://github.com/adamwdraper/Numeral-js>
VendorName: Adam Draper
VendorUrl: <http://numeraljs.com/>

object-assign@2.1.1
URL: <https://github.com/sindresorhus/object-assign.git>
VendorName: Sindre Sorhus
VendorUrl: <http://sindresorhus.com>

object-assign@3.0.0
URL: <https://github.com/sindresorhus/object-assign.git>
VendorName: Sindre Sorhus
VendorUrl: <http://sindresorhus.com>

object-assign@4.1.1
URL: <https://github.com/sindresorhus/object-assign.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

object-keys@1.0.1
URL: <git://github.com/ljharb/object-keys.git>
VendorName: Jordan Harband

object.omit@2.0.1
URL: <https://github.com/jonschlinkert/object.omit.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/object.omit>

on-finished@2.3.0
URL: <https://github.com/jshttp/on-finished.git>

on-headers@1.0.2
URL: <https://github.com/jshttp/on-headers.git>
VendorName: Douglas Christopher Wilson

optimist@0.6.1
URL: <http://github.com/substack/node-optimist.git>
VendorName: James Halliday
VendorUrl: <http://substack.net>

options@0.0.6
URL: <git://github.com/einaros/options.js.git>
VendorName: Einar Otto Stangvik
VendorUrl: <http://2x.io>

os-homedir@1.0.2
URL: <https://github.com/sindresorhus/os-homedir.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

os-locale@1.4.0
URL: <https://github.com/sindresorhus/os-locale.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

os-tmpdir@1.0.2
URL: <https://github.com/sindresorhus/os-tmpdir.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

output-file-sync@1.1.2

URL: <https://github.com/shinnn/output-file-sync.git>
VendorName: Shinnosuke Watanabe
VendorUrl: <https://github.com/shinnn>
parse-glob@3.0.4
URL: <https://github.com/jonschlinkert/parse-glob.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/parse-glob>
parse-json@2.2.0
URL: <https://github.com/sindresorhus/parse-json.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
parsejson@0.0.1
parseqs@0.0.2
parseuri@0.0.2
parseuri@0.0.4
URL: <https://github.com/get/parseuri.git>
VendorUrl: <https://github.com/get/parseuri>
parseurl@1.3.3
URL: <https://github.com/pillarjs/parseurl.git>
path-array@1.0.1
URL: [git://github.com/TooTallNate/node-path-array.git](https://github.com/TooTallNate/node-path-array.git)
VendorName: Nathan Rajlich
VendorUrl: <https://github.com/TooTallNate/node-path-array>
path-exists@1.0.0
URL: <https://github.com/sindresorhus/path-exists.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
path-exists@2.1.0
URL: <https://github.com/sindresorhus/path-exists.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
path-is-absolute@1.0.1
URL: <https://github.com/sindresorhus/path-is-absolute.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
path-parse@1.0.6
URL: <https://github.com/jbgutierrez/path-parse.git>
VendorName: Javier Blanco
VendorUrl: <https://github.com/jbgutierrez/path-parse#readme>
path-root-regex@0.1.2
URL: <https://github.com/regexhq/path-root-regex.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/regexhq/path-root-regex>
path-root@0.1.1
URL: <https://github.com/jonschlinkert/path-root.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/path-root>
path-to-regexp@0.1.7

URL: <https://github.com/component/path-to-regexp.git>
path-type@1.1.0
URL: <https://github.com/sindresorhus/path-type.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

pend@1.2.0
URL: [git://github.com/andrewrk/node-pend.git](https://github.com/andrewrk/node-pend.git)
VendorName: Andrew Kelley

performance-now@0.2.0
URL: [git://github.com/meryn/performance-now.git](https://github.com/meryn/performance-now.git)
VendorName: Meryn Stol
VendorUrl: <https://github.com/meryn/performance-now>

performance-now@2.1.0
URL: [git://github.com/braveg1rl/performance-now.git](https://github.com/braveg1rl/performance-now.git)
VendorName: Braveg1rl
VendorUrl: <https://github.com/braveg1rl/performance-now>

pify@2.3.0
URL: <https://github.com/sindresorhus/pify.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

pinkie-promise@2.0.1
URL: <https://github.com/floatdrop/pinkie-promise.git>
VendorName: Vsevolod Strukchinsky
VendorUrl: github.com/floatdrop

pinkie@2.0.4
URL: <https://github.com/floatdrop/pinkie.git>
VendorName: Vsevolod Strukchinsky
VendorUrl: github.com/floatdrop

portfinder@0.4.0
URL: [git@github.com:indexzero/node-portfinder.git](https://github.com/indexzero/node-portfinder.git)
VendorName: Charlie Robbins

preserve@0.2.0
URL: [git://github.com/jonschlinkert/preserve.git](https://github.com/jonschlinkert/preserve.git)
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/preserve>

private@0.1.8
URL: [git://github.com/benjamn/private.git](https://github.com/benjamn/private.git)
VendorName: Ben Newman
VendorUrl: [http://github.com/benjamn/private](https://github.com/benjamn/private)

process-nextick-args@1.0.7
URL: <https://github.com/calvinmetcalf/process-nextick-args.git>
VendorUrl: <https://github.com/calvinmetcalf/process-nextick-args>

process-nextick-args@2.0.1
URL: <https://github.com/calvinmetcalf/process-nextick-args.git>
VendorUrl: <https://github.com/calvinmetcalf/process-nextick-args>

progress@1.1.8
URL: [git://github.com/visionmedia/node-progress](https://github.com/visionmedia/node-progress)
VendorName: TJ Holowaychuk

promise-map-series@0.2.3
URL: <https://github.com/joliss/promise-map-series>
VendorName: Jo Liss

promise@7.3.1
URL: <https://github.com/then/promise.git>
VendorName: ForbesLindesay

proxy-addr@2.0.5
URL: <https://github.com/jshttp/proxy-addr.git>
VendorName: Douglas Christopher Wilson

pr@1.0.1
URL: <https://github.com/rvagg/pr.git>
VendorName: Rod Vagg
VendorUrl: <https://github.com/rvagg/pr>

psl@1.6.0
URL: <git@github.com:lupomontero/psl.git>
VendorName: Lupo Montero
VendorUrl: <https://lupomontero.com/>

punycode@1.4.1
URL: <https://github.com/bestiejs/punycode.js.git>
VendorName: Mathias Bynens
VendorUrl: <https://mths.be/punycode>

punycode@2.1.1
URL: <https://github.com/bestiejs/punycode.js.git>
VendorName: Mathias Bynens
VendorUrl: <https://mths.be/punycode>

q@1.5.1
URL: <git://github.com/kriskowal/q.git>
VendorName: Kris Kowal
VendorUrl: <https://github.com/kriskowal/q>

quick-temp@0.1.3
URL: <https://github.com/joliss/node-quick-temp>
VendorName: Jo Liss

quick-temp@0.1.8
URL: <https://github.com/joliss/node-quick-temp>
VendorName: Jo Liss

qunitjs@1.23.1
URL: <git://github.com/jquery/qunit.git>
VendorName: jQuery Foundation and other contributors
VendorUrl: <https://qunitjs.com/>

randomatic@3.1.1
URL: <https://github.com/jonschlinkert/randomatic.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/randomatic>

range-parser@1.2.1
URL: <https://github.com/jshttp/range-parser.git>
VendorName: TJ Holowaychuk
VendorUrl: <http://tjholowaychuk.com>

raw-body@2.1.7

URL: <https://github.com/stream-utils/raw-body.git>
VendorName: Jonathan Ong
VendorUrl: <http://jongleberry.com>
raw-body@2.4.0
URL: <https://github.com/stream-utils/raw-body.git>
VendorName: Jonathan Ong
VendorUrl: <http://jongleberry.com>
read-pkg-up@1.0.1
URL: <https://github.com/sindresorhus/read-pkg-up.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
read-pkg@1.1.0
URL: <https://github.com/sindresorhus/read-pkg.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
readable-stream@1.1.13
URL: <git://github.com/isaacs/readable-stream>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>
readable-stream@1.1.14
URL: <git://github.com/isaacs/readable-stream>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>
readable-stream@2.0.6
URL: <git://github.com/nodejs/readable-stream>
readable-stream@2.3.6
URL: <git://github.com/nodejs/readable-stream>
readline2@0.1.1
URL: <https://github.com/SBoudrias/readline2.git>
VendorName: Simon Boudrias
recast@0.10.33
URL: <git://github.com/benjamn/recast.git>
VendorName: Ben Newman
VendorUrl: <http://github.com/benjamn/recast>
recast@0.10.43
URL: <git://github.com/benjamn/recast.git>
VendorName: Ben Newman
VendorUrl: <http://github.com/benjamn/recast>
recast@0.11.23
URL: <git://github.com/benjamn/recast.git>
VendorName: Ben Newman
VendorUrl: <http://github.com/benjamn/recast>
redent@1.0.0
URL: <https://github.com/sindresorhus/redent.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
redeyed@0.5.0
URL: <git://github.com/thlorenz/redeyed.git>

VendorName: Thorsten Lorenz
VendorUrl: thlorenz.com
regenerate@1.4.0
URL: <https://github.com/mathiasbynens/regenerate.git>
VendorName: Mathias Bynens
VendorUrl: <https://mths.be/regenerate>
regex-cache@0.4.4
URL: <https://github.com/jonschlinkert/regex-cache.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/regex-cache>
regexpu@1.3.0
URL: <https://github.com/mathiasbynens/regexpu.git>
VendorName: Mathias Bynens
VendorUrl: <https://mths.be/regexpu>
regjsgen@0.2.0
URL: <https://github.com/d10/regjsgen.git>
VendorName: Benjamin Tan
VendorUrl: <https://github.com/d10/regjsgen>
repeat-element@1.1.3
URL: <https://github.com/jonschlinkert/repeat-element.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/repeat-element>
repeat-string@1.6.1
URL: <https://github.com/jonschlinkert/repeat-string.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/repeat-string>
repeating@1.1.3
URL: <https://github.com/sindresorhus/repeating.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
repeating@2.0.1
URL: <https://github.com/sindresorhus/repeating.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
request-progress@2.0.1
URL: [git://github.com/IndigoUnited/node-request-progress](https://github.com/IndigoUnited/node-request-progress)
VendorName: IndigoUnited
VendorUrl: <http://indigounited.com>
require-directory@2.1.1
URL: [git://github.com/troygoode/node-require-directory.git](https://github.com/troygoode/node-require-directory.git)
VendorName: Troy Goode
VendorUrl: <https://github.com/troygoode/node-require-directory/>
requires-port@1.0.0
URL: <https://github.com/unshiftio/requires-port>
VendorName: Arnout Kazemier
VendorUrl: <https://github.com/unshiftio/requires-port>
resolve-package-path@1.2.7
resolve@1.14.1

URL: [git://github.com/browserify/resolve.git](https://github.com/browserify/resolve.git)
VendorName: James Halliday
VendorUrl: <http://substack.net>
retry@0.8.0
URL: [git://github.com/tim-kos/node-retry.git](https://github.com/tim-kos/node-retry.git)
VendorName: Tim Koschitzki
VendorUrl: <https://github.com/tim-kos/node-retry>
right-align@0.1.3
URL: [git://github.com/jonschlinkert/right-align.git](https://github.com/jonschlinkert/right-align.git)
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/right-align>
rimraf@2.2.8
URL: [git://github.com/isaacs/rimraf.git](https://github.com/isaacs/rimraf.git)
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>
rsvp@3.0.21
URL: <https://github.com/tildeio/rsvp.js.git>
VendorName: Tilde, Inc. & Stefan Penner
rsvp@3.2.1
URL: <https://github.com/tildeio/rsvp.js.git>
VendorName: Tilde, Inc. & Stefan Penner
rsvp@3.6.2
URL: <https://github.com/tildeio/rsvp.js.git>
VendorName: Tilde, Inc. & Stefan Penner
rsvp@4.8.5
URL: <https://github.com/tildeio/rsvp.js.git>
VendorName: Tilde, Inc. & Stefan Penner
VendorUrl: <https://github.com/tildeio/rsvp.js>
safe-buffer@5.1.2
URL: [git://github.com/feross/safe-buffer.git](https://github.com/feross/safe-buffer.git)
VendorName: Feross Aboukhadijeh
VendorUrl: <https://github.com/feross/safe-buffer>
safe-buffer@5.2.0
URL: [git://github.com/feross/safe-buffer.git](https://github.com/feross/safe-buffer.git)
VendorName: Feross Aboukhadijeh
VendorUrl: <https://github.com/feross/safe-buffer>
safer-buffer@2.1.2
URL: [git+https://github.com/ChALkeR/safer-buffer.git](https://github.com/ChALkeR/safer-buffer.git)
VendorName: Nikita Skovoroda
VendorUrl: <https://github.com/ChALkeR>
sane@1.7.0
URL: <https://github.com/amasad/sane>
VendorName: amasad
VendorUrl: <https://github.com/amasad/sane>
sass-graph@2.2.4
URL: <https://github.com/xzyfer/sass-graph.git>
VendorName: xzyfer
scss-tokenizer@0.2.3

URL: <https://github.com/sasstools/scss-tokenizer.git>
VendorName: xzyfer
VendorUrl: <https://github.com/sasstools/scss-tokenizer>
select2@4.0.0
URL: <git://github.com/select2/select2.git>
VendorName: Kevin Brown
VendorUrl: <https://select2.github.io/>
send@0.17.1
URL: <https://github.com/pillarjs/send.git>
VendorName: TJ Holowaychuk
serve-static@1.14.1
URL: <https://github.com/expressjs/serve-static.git>
VendorName: Douglas Christopher Wilson
shebang-regex@1.0.0
URL: <https://github.com/sindresorhus/shebang-regex.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
simple-fmt@0.1.0
URL: <https://github.com/olov/simple-fmt.git>
VendorName: Olov Lassus
simple-is@0.2.0
URL: <https://github.com/olov/simple-is.git>
VendorName: Olov Lassus
slash@1.0.0
URL: <https://github.com/sindresorhus/slash.git>
VendorName: Sindre Sorhus
VendorUrl: <http://sindresorhus.com>
socket.io-client-pure@1.3.12
URL: <https://github.com/Automattic/socket.io-client.git>
socket.io-parser@2.2.2
URL: <https://github.com/Automattic/socket.io-parser.git>
socket.io-parser@2.2.4
URL: <https://github.com/Automattic/socket.io-parser.git>
socket.io-pure@1.3.12
URL: <git://github.com/Automattic/socket.io>
source-map-support@0.2.10
URL: <https://github.com/evanw/node-source-map-support>
source-map-url@0.3.0
URL: <https://github.com/lydell/source-map-url.git>
VendorName: Simon Lydell
spawnback@1.0.0
URL: <git://github.com/scottgonzalez/spawnback.git>
VendorName: Scott Gonzlez
VendorUrl: <https://github.com/scottgonzalez/spawnback>
spdx-expression-parse@3.0.0
URL: <https://github.com/jslicense/spdx-expression-parse.js.git>
VendorName: Kyle E. Mitchell
VendorUrl: <http://kemitchell.com>

sri-toolbox@0.2.0
URL: <https://github.com/neftaly/npm-sri-toolbox.git>
VendorName: Neftaly Hernandez

sshpk@1.16.1
URL: <git+https://github.com/joyent/node-sshpk.git>
VendorName: Joyent, Inc
VendorUrl: <https://github.com/arekinath/node-sshpk#readme>

stable@0.1.8
URL: <https://github.com/Two-Screen/stable.git>
VendorName: Angry Bytes

statuses@1.5.0
URL: <https://github.com/jshttp/statuses.git>

stdout-stream@1.4.1
URL: <https://github.com/mafintosh/stdout-stream.git>

string_decoder@0.10.31
URL: git://github.com/rvagg/string_decoder.git
VendorUrl: https://github.com/rvagg/string_decoder

string_decoder@1.1.1
URL: git://github.com/nodejs/string_decoder.git
VendorUrl: https://github.com/nodejs/string_decoder

string-width@1.0.2
URL: <https://github.com/sindresorhus/string-width.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

string-width@2.1.1
URL: <https://github.com/sindresorhus/string-width.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

string.prototype.endsWith@0.2.0
URL: <https://github.com/mathiasbynens/String.prototype.endsWith.git>
VendorName: Mathias Bynens
VendorUrl: <http://mths.be/endsWith>

stringmap@0.2.2
URL: <https://github.com/olov/stringmap.git>
VendorName: Olov Lassus

stringset@0.2.1
URL: <https://github.com/olov/stringset.git>
VendorName: Olov Lassus

stringstream@0.0.6
URL: <https://github.com/mhart/StringStream.git>
VendorName: Michael Hart
VendorUrl: <http://github.com/mhart>

strip-ansi@0.1.1
URL: <https://github.com/sindresorhus/strip-ansi.git>
VendorName: Sindre Sorhus
VendorUrl: <http://sindresorhus.com>

strip-ansi@0.3.0
URL: <https://github.com/sindresorhus/strip-ansi.git>

VendorName: Sindre Sorhus
VendorUrl: <http://sindresorhus.com>
strip-ansi@2.0.1
URL: <https://github.com/sindresorhus/strip-ansi.git>
VendorName: Sindre Sorhus
VendorUrl: <http://sindresorhus.com>
strip-ansi@3.0.1
URL: <https://github.com/chalk/strip-ansi.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
strip-ansi@4.0.0
URL: <https://github.com/chalk/strip-ansi.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
strip-bom@2.0.0
URL: <https://github.com/sindresorhus/strip-bom.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
strip-indent@1.0.1
URL: <https://github.com/sindresorhus/strip-indent.git>
VendorName: Sindre Sorhus
VendorUrl: <http://sindresorhus.com>
strip-json-comments@1.0.4
URL: <https://github.com/sindresorhus/strip-json-comments.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
styled_string@0.0.1
VendorName: Toby Ho
supports-color@0.2.0
URL: <https://github.com/sindresorhus/supports-color.git>
VendorName: Sindre Sorhus
VendorUrl: <http://sindresorhus.com>
supports-color@2.0.0
URL: <https://github.com/chalk/supports-color.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
supports-color@5.5.0
URL: <https://github.com/chalk/supports-color.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
symlink-or-copy@1.3.1
URL: <https://github.com/broccolijs/node-symlink-or-copy>
VendorName: Jo Liss
tap-parser@1.3.2
URL: [git://github.com/substack/tap-parser.git](https://github.com/substack/tap-parser.git)
VendorName: James Halliday
VendorUrl: <https://github.com/substack/tap-parser>
temp@0.8.1

URL: [git://github.com/bruce/node-temp.git](https://github.com/bruce/node-temp.git)
VendorName: Bruce Williams
testem@0.9.11
URL: [git://github.com/airportyh/testem.git](https://github.com/airportyh/testem.git)
VendorName: Toby Ho
text-table@0.2.0
URL: [git://github.com/substack/text-table.git](https://github.com/substack/text-table.git)
VendorName: James Halliday
VendorUrl: <https://github.com/substack/text-table>
textextensions@2.6.0
URL: <https://github.com/bevry/textextensions.git>
VendorName: 2013+ Bevry Pty Ltd
VendorUrl: <https://github.com/bevry/textextensions>
throttleit@1.0.0
URL: [git://github.com/component/throttle.git](https://github.com/component/throttle.git)
through@2.3.8
URL: <https://github.com/dominictarr/through.git>
VendorName: Dominic Tarr
VendorUrl: <https://github.com/dominictarr/through>
tiny-lr@0.2.0
URL: [git://github.com/mklabs/tiny-lr.git](https://github.com/mklabs/tiny-lr.git)
VendorName: mklabs
VendorUrl: <https://github.com/mklabs/tiny-lr>
tmp@0.0.28
URL: [git://github.com/raszi/node-tmp.git](https://github.com/raszi/node-tmp.git)
VendorName: KARASZI Istvn
VendorUrl: <http://github.com/raszi/node-tmp>
to-array@0.1.3
URL: [git://github.com/Raynos/to-array.git](https://github.com/Raynos/to-array.git)
VendorName: Raynos
VendorUrl: <https://github.com/Raynos/to-array>
to-fast-properties@1.0.3
URL: <https://github.com/sindresorhus/to-fast-properties.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
toidentifier@1.0.0
URL: <https://github.com/component/toidentifier.git>
VendorName: Douglas Christopher Wilson
trim-newlines@1.0.0
URL: <https://github.com/sindresorhus/trim-newlines.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
trim-right@1.0.1
URL: <https://github.com/sindresorhus/trim-right.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
try-resolve@1.0.1
URL: <https://github.com/sebmck/try-resolve.git>

VendorName: Sebastian McKenzie
tryor@0.1.2
URL: <https://github.com/olov/tryor.git>
VendorName: Olov Lassus
type-is@1.6.18
URL: <https://github.com/jshttp/type-is.git>
typedarray@0.0.6
URL: <git://github.com/substack/typedarray.git>
VendorName: James Halliday
VendorUrl: <https://github.com/substack/typedarray>
uc.micro@1.0.6
URL: <https://github.com/markdown-it/uc.micro.git>
uglify-to-browserify@1.0.2
URL: <https://github.com/ForbesLindesay/uglify-to-browserify.git>
VendorName: ForbesLindesay
ultron@1.0.2
URL: <https://github.com/unshiftio/ultron>
VendorName: Arnout Kazemier
VendorUrl: <https://github.com/unshiftio/ultron>
umask@1.1.0
URL: <https://github.com/smikes/umask.git>
VendorName: Sam Mikes
VendorUrl: <https://github.com/smikes/umask>
underscore.string@2.3.3
URL: <https://github.com/epeli/underscore.string.git>
VendorUrl: <http://epeli.github.com/underscore.string/>
underscore.string@3.3.5
URL: <https://github.com/epeli/underscore.string.git>
VendorUrl: <http://epeli.github.com/underscore.string/>
underscore@1.9.1
URL: <git://github.com/jashkenas/underscore.git>
VendorName: Jeremy Ashkenas
VendorUrl: <http://underscorejs.org/>
universalify@0.1.2
URL: <git+https://github.com/RyanZim/universalify.git>
VendorName: Ryan Zimmerman
VendorUrl: <https://github.com/RyanZim/universalify#readme>
unpipe@1.0.0
URL: <https://github.com/stream-utils/unpipe.git>
VendorName: Douglas Christopher Wilson
user-home@1.1.1
URL: <https://github.com/sindresorhus/user-home.git>
VendorName: Sindre Sorhus
VendorUrl: <http://sindresorhus.com>
username-sync@1.0.2
URL: <git@github.com:stefanpenner/username-sync>
VendorName: Stefan Penner
utf8@2.1.0

URL: <https://github.com/mathiasbynens/utf8.js.git>
VendorName: Mathias Bynens
VendorUrl: <https://mths.be/utf8js>

util-deprecate@1.0.2
URL: <git://github.com/TooTallNate/util-deprecate.git>
VendorName: Nathan Rajlich
VendorUrl: <https://github.com/TooTallNate/util-deprecate>

util-extend@1.0.3
URL: <git://github.com/isaacs/util-extend>

utils-merge@1.0.1
URL: <git://github.com/jaredhanson/utils-merge.git>
VendorName: Jared Hanson
VendorUrl: <http://www.jaredhanson.net/>

uuid@2.0.3
URL: <https://github.com/defunctzombie/node-uuid.git>
VendorName: Robert Kieffer

uuid@3.3.3
URL: <https://github.com/kelektiv/node-uuid.git>

vary@1.1.2
URL: <https://github.com/jshttp/vary.git>
VendorName: Douglas Christopher Wilson

verror@1.10.0
URL: <git://github.com/davepacheco/node-verror.git>

walk-sync@0.1.3
URL: <https://github.com/joliss/node-walk-sync>
VendorName: Jo Liss

walk-sync@0.2.7
URL: <https://github.com/joliss/node-walk-sync>
VendorName: Jo Liss

walk-sync@0.3.4
URL: <https://github.com/joliss/node-walk-sync>
VendorName: Jo Liss

wcwidth@1.0.1
URL: <git+https://github.com/timoxley/wcwidth.git>
VendorName: Tim Oxley
VendorUrl: <https://github.com/timoxley/wcwidth#readme>

websocket-extensions@0.1.3
URL: <git://github.com/faye/websocket-extensions-node.git>
VendorName: James Coglan
VendorUrl: <http://github.com/faye/websocket-extensions-node>

window-size@0.1.0
URL: <https://github.com/jonschlinkert/window-size.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/window-size>

window-size@0.1.4
URL: <https://github.com/jonschlinkert/window-size.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/window-size>

wordwrap@0.0.2
URL: [git://github.com/substack/node-wordwrap.git](https://github.com/substack/node-wordwrap.git)
VendorName: James Halliday
VendorUrl: <http://substack.net>

wordwrap@0.0.3
URL: [git://github.com/substack/node-wordwrap.git](https://github.com/substack/node-wordwrap.git)
VendorName: James Halliday
VendorUrl: <http://substack.net>

wrap-ansi@2.1.0
URL: <https://github.com/chalk/wrap-ansi.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

ws-pure@0.8.0
URL: [git://github.com/patocallaghan/ws.git](https://github.com/patocallaghan/ws.git)
VendorName: Pat O'Callaghan

xdg-basedir@2.0.0
URL: <https://github.com/sindresorhus/xdg-basedir.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

xmlhttprequest-ssl@1.5.1
URL: [git://github.com/mjwwit/node-XMLHttpRequest.git](https://github.com/mjwwit/node-XMLHttpRequest.git)
VendorName: Michael de Wit

xtend@4.0.2
URL: [git://github.com/Raynos/xtend.git](https://github.com/Raynos/xtend.git)
VendorName: Raynos
VendorUrl: <https://github.com/Raynos/xtend>

yam@0.0.18
URL: <https://github.com/twokul/yam>
VendorName: Alex Navasardyan
VendorUrl: <http://twokul.io>

yargs@3.10.0
URL: [http://github.com/bcoe/yargs.git](https://github.com/bcoe/yargs.git)
VendorName: Alex Ford
VendorUrl: <http://CodeTunnel.com>

yargs@3.27.0
URL: [http://github.com/bcoe/yargs.git](https://github.com/bcoe/yargs.git)
VendorName: Alex Ford
VendorUrl: <http://CodeTunnel.com>

yargs@7.1.0
URL: [http://github.com/yargs/yargs.git](https://github.com/yargs/yargs.git)
VendorUrl: <http://yargs.js.org/>

yauzl@2.4.1
URL: <https://github.com/thejoshwolfe/yauzl.git>
VendorName: Josh Wolfe
VendorUrl: <https://github.com/thejoshwolfe/yauzl>

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after@0.8.1
URL: [git://github.com/Raynos/after.git](https://github.com/Raynos/after.git)

VendorName: Raynos
assert-plus@0.1.5
URL: <https://github.com/mcavage/node-assert-plus.git>
VendorName: Mark Cavage
async-foreach@0.1.3
URL: <git://github.com/cowboy/javascript-sync-async-foreach.git>
VendorName: "Cowboy" Ben Alman
VendorUrl: [http://github.com/cowboy/javascript-sync-async-foreach](http://github.com/cowboy/javascript-sync-async-foreach/blob@0.0.4)
blob@0.0.4
URL: <git@github.com:rase-/blob.git>
VendorUrl: <https://github.com/rase-/blob>
callsite@1.0.0
VendorName: TJ Holowaychuk
component-bind@1.0.0
URL: <https://github.com/component/bind.git>
component-emitter@1.1.2
URL: <https://github.com/component/emitter.git>
component-inherit@0.0.3
URL: <https://github.com/component/inherit.git>
engine.io-client-pure@1.5.9
URL: <https://github.com/Automattic/engine.io-client.git>
VendorUrl: <http://socket.io/>
git-tools@0.1.4
URL: <git://github.com/scottgonzalez/node-git-tools.git>
VendorName: Scott Gonzlez
VendorUrl: <https://github.com/scottgonzalez/node-git-tools>
indexOf@0.0.1
ms@0.6.2
URL: <git://github.com/guille/ms.js.git>
object-component@0.0.3
socket.io-adapter@0.3.1
URL: <git://github.com/Automattic/socket.io-adapter.git>
Public Domain
jsonify@0.0.0
URL: <http://github.com/substack/jsonify.git>
VendorName: Douglas Crockford
VendorUrl: <http://crockford.com/>
SEE LICENSE IN LICENSE
sntp@1.0.9
URL: <git://github.com/hueniverse/sntp>
VendorName: Eran Hammer
VendorUrl: <http://hueniverse.com>
UNKNOWN
base64id@0.1.0
URL: <https://github.com/faeldt/base64id.git>
VendorName: Kristian Faeldt
colors@0.6.2
URL: <http://github.com/Marak/colors.js.git>

VendorName: Marak Squires
VendorUrl: <https://github.com/Marak/colors.js>
Unlicense
spx-license-ids@1.2.2
URL: <https://github.com/shinnn/spdx-license-ids.git>
VendorName: Shinnosuke Watanabe
VendorUrl: <https://github.com/shinnn>
tweetnacl@0.14.5
URL: <https://github.com/dchest/tweetnacl-js.git>
VendorName: TweetNaCl-js contributors
VendorUrl: <https://tweetnacl.js.org/>

WTFPL
sorted-object@1.0.0
URL: <git://github.com/domenic/sorted-object.git>
VendorName: Domenic Denicola
VendorUrl: <http://domenic.me/>

WTFPL OR ISC
is-integer@1.0.7
URL: <git://github.com:parshap/js-is-integer>
VendorName: Parsha Pourkhomami

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JUnit

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- * javax.transaction:javax.transaction-api
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- * java.sun.security.ssl

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 - * Providing benchmark suite
- * Alec Wysoker
 - * Performance and memory usage improvement

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Zstd-jni: JNI bindings to Zstd Library

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LZ4 - Fast LZ compression algorithm

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Azure Data Lake Store Java SDK

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hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/datanode/checker/AbstractFuture.java
hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/datanode/checker/TimeoutFuture.java

BSD 2-Clause

hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-client-nativetask/src/main/native/lz4/lz4.{c|h}
hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/native/container-executor/impl/compat/{fstatat|openat|unlinkat}.h

BSD 3-Clause

hadoop-common-project/hadoop-common/src/main/java/org/apache/hadoop/util/bloom/*
hadoop-common-project/hadoop-common/src/main/native/gtest/gtest-all.cc
hadoop-common-project/hadoop-common/src/main/native/gtest/include/gtest/gtest.h

hadoop-common-project/hadoop-common/src/main/native/src/org/apache/hadoop/util/bulk_crc32_x86.c
hadoop-hdfs-project/hadoop-hdfs-native-
client/src/main/native/libhdfspp/third_party/protobuf/protobuf/cpp_helpers.h
hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/libhdfspp/third_party/gmock-1.7.0/*/*.{cc|h}
hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/d3.v3.js
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/d3-v4.1.1.min.js

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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/bootstrap-3.4.1
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dataTables.bootstrap.css
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dataTables.bootstrap.js
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dust-full-2.0.0.min.js
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dust-helpers-1.1.1.min.js
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/jquery-3.5.1.min.js
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/jquery.dataTables.min.js
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/moment.min.js
hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/bootstrap.min.js
hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/jquery.js
hadoop-tools/hadoop-sls/src/main/html/css/bootstrap.min.css
hadoop-tools/hadoop-sls/src/main/html/css/bootstrap-responsive.min.css
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-applications/hadoop-yarn-applications-catalog/hadoop-yarn-
applications-catalog-webapp/node_modules/.bin/r.js
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/dt-1.10.18/*
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/jquery
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/jt/jquery.jstree.js
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-
nodemanager/src/main/resources/TERMINAL

uriparser2 (hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/libhdfspp/third_party/uriparser2)
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/native/container-
executor/impl/Utils/cJSON.[ch]

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asio-1.10.2 (hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/libhdfspp/third_party/asio-1.10.2)
rapidxml-1.13 (hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/libhdfspp/third_party/rapidxml-1.13)
tr2 (hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/libhdfspp/third_party/tr2)

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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/json-bigint.js

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Hadoop Yarn Server Web Proxy uses the BouncyCastle Java cryptography APIs written by the Legion of the Bouncy Castle Inc. For portions of the native implementation of slicing-by-8 CRC calculation in `src/main/native/src/org/apache/hadoop/util`:

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*

* Abstract: The main routine

*

--*/

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roboto-fontface@0.10.0

URL: <https://github.com/choffmeister/roboto-fontface-bower.git>

VendorName: Christian Hoffmeister

VendorUrl: <https://github.com/choffmeister/roboto-fontface-bower>

BSD-2-Clause

entities@1.1.2

URL: <git://github.com/fb55/entities.git>

VendorName: Felix Boehm

BSD-3-Clause

shelljs@0.2.6

URL: <git://github.com/arturadib/shelljs.git>

VendorName: Artur Adib

VendorUrl: <http://github.com/arturadib/shelljs>

sprintf-js@1.0.3

URL: <https://github.com/alexsei/sprintf.js.git>

VendorName: Alexandru Marasteanu

VendorUrl: <http://alexsei.ro/>

ISC

fs.realpath@1.0.0

URL: <git+https://github.com/isaacs/fs.realpath.git>

VendorName: Isaac Z. Schlueter

VendorUrl: <http://blog.izs.me/>

glob@7.1.6

URL: <git://github.com/isaacs/node-glob.git>

VendorName: Isaac Z. Schlueter

VendorUrl: <http://blog.izs.me/>

graceful-fs@4.2.4

URL: <https://github.com/isaacs/node-graceful-fs>

inflight@1.0.6

URL: <https://github.com/npm/inflight.git>

VendorName: Isaac Z. Schlueter

VendorUrl: <https://github.com/isaacs/inflight>

inherits@2.0.4

URL: [git://github.com/isaacs/inherits](https://github.com/isaacs/inherits)

minimatch@3.0.4

URL: [git://github.com/isaacs/minimatch.git](https://github.com/isaacs/minimatch.git)

VendorName: Isaac Z. Schlueter

VendorUrl: <http://blog.izs.me>

once@1.4.0

URL: [git://github.com/isaacs/once](https://github.com/isaacs/once)

VendorName: Isaac Z. Schlueter

VendorUrl: <http://blog.izs.me/>

semver@5.3.0

URL: <https://github.com/npm/node-semver>

wrappy@1.0.2

URL: <https://github.com/npm/wrappy>

VendorName: Isaac Z. Schlueter

VendorUrl: <https://github.com/npm/wrappy>

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angular-loader@1.6.10

URL: <https://github.com/angular/angular.js.git>

VendorName: Angular Core Team

VendorUrl: <http://angularjs.org/>

angular-mocks@1.6.10

URL: <https://github.com/angular/angular.js.git>

VendorName: Angular Core Team

VendorUrl: <http://angularjs.org/>

angular-route@1.6.10

URL: <https://github.com/angular/angular.js.git>

VendorName: Angular Core Team

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angular@1.6.10

URL: <https://github.com/angular/angular.js.git>

VendorName: Angular Core Team

VendorUrl: <http://angularjs.org/>

apidoc-core@0.8.3

URL: <https://github.com/apidoc/apidoc-core.git>

VendorName: Peter Rottmann

VendorUrl: <https://github.com/apidoc/apidoc-core>

apidoc@0.17.7

URL: <https://github.com/apidoc/apidoc.git>

VendorName: Peter Rottmann

VendorUrl: <http://apidocjs.com/>

argparse@1.0.10

URL: <https://github.com/nodeca/argparse.git>

async@2.6.3

URL: <https://github.com/caolan/async.git>

VendorName: Caolan McMahon

VendorUrl: <https://caolan.github.io/async/>

balanced-match@1.0.0

URL: [git://github.com/juliangruber/balanced-match.git](https://github.com/juliangruber/balanced-match.git)
VendorName: Julian Gruber
VendorUrl: <https://github.com/juliangruber/balanced-match>
bootstrap@3.3.7
URL: <https://github.com/twbs/bootstrap.git>
VendorName: Twitter, Inc.
VendorUrl: <http://getbootstrap.com/>
brace-expansion@1.1.11
URL: [git://github.com/juliangruber/brace-expansion.git](https://github.com/juliangruber/brace-expansion.git)
VendorName: Julian Gruber
VendorUrl: <https://github.com/juliangruber/brace-expansion>
color-convert@1.9.3
URL: <https://github.com/Qix-/color-convert.git>
VendorName: Heather Arthur
color-name@1.1.3
URL: [git@github.com:dfcreative/color-name.git](https://github.com/dfcreative/color-name.git)
VendorName: DY
VendorUrl: <https://github.com/dfcreative/color-name>
color-name@1.1.4
URL: [git@github.com:colorjs/color-name.git](https://github.com/colorjs/color-name.git)
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color-string@1.5.3
URL: <https://github.com/Qix-/color-string.git>
VendorName: Heather Arthur
color@3.0.0
URL: <https://github.com/Qix-/color.git>
colornames@1.1.1
URL: [git://github.com/timoxley/colornames.git](https://github.com/timoxley/colornames.git)
VendorName: Tim Oxley
VendorUrl: <https://github.com/timoxley/colornames#readme>
colors@1.4.0
URL: [http://github.com/Marak/colors.js.git](https://github.com/Marak/colors.js.git)
VendorName: Marak Squires
VendorUrl: <https://github.com/Marak/colors.js>
colorspace@1.1.2
URL: <https://github.com/3rd-Eden/colorspace>
VendorName: Arnout Kazemier
VendorUrl: <https://github.com/3rd-Eden/colorspace>
commander@2.20.3
URL: <https://github.com/tj/commander.js.git>
VendorName: TJ Holowaychuk
concat-map@0.0.1
URL: [git://github.com/substack/node-concat-map.git](https://github.com/substack/node-concat-map.git)
VendorName: James Halliday
VendorUrl: <http://substack.net>
core-util-is@1.0.2
URL: [git://github.com/isaacs/core-util-is](https://github.com/isaacs/core-util-is)

VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>
diagnostics@1.1.1
URL: <git://github.com/bigpipe/diagnostics.git>
VendorName: Arnout Kazemier
VendorUrl: <https://github.com/bigpipe/diagnostics>
enabled@1.0.2
URL: <git://github.com/bigpipe/enabled.git>
VendorName: Arnout Kazemier
env-variable@0.0.6
URL: <https://github.com/3rd-Eden/env-variable>
VendorName: Arnout Kazemier
VendorUrl: <https://github.com/3rd-Eden/env-variable>
fast-safe-stringify@2.0.7
URL: <git+https://github.com/davidmarkclements/fast-safe-stringify.git>
VendorName: David Mark Clements
VendorUrl: <https://github.com/davidmarkclements/fast-safe-stringify#readme>
fecha@2.3.3
URL: <https://taylorhakes@github.com/taylorhakes/fecha.git>
VendorName: Taylor Hakes
VendorUrl: <https://github.com/taylorhakes/fecha>
fs-extra@3.0.1
URL: <https://github.com/jprichardson/node-fs-extra>
VendorName: JP Richardson
VendorUrl: <https://github.com/jprichardson/node-fs-extra>
fs-extra@7.0.1
URL: <https://github.com/jprichardson/node-fs-extra>
VendorName: JP Richardson
VendorUrl: <https://github.com/jprichardson/node-fs-extra>
iconv-lite@0.4.24
URL: <git://github.com/ashtuchkin/iconv-lite.git>
VendorName: Alexander Shtuchkin
VendorUrl: <https://github.com/ashtuchkin/iconv-lite>
is-arrayish@0.3.2
URL: <https://github.com/qix-/node-is-arrayish.git>
VendorName: Qix
VendorUrl: <http://github.com/qix->
is-stream@1.1.0
URL: <https://github.com/sindresorhus/is-stream.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
isarray@1.0.0
URL: <git://github.com/juliangruber/isarray.git>
VendorName: Julian Gruber
VendorUrl: <https://github.com/juliangruber/isarray>
jquery@3.3.1
URL: <https://github.com/jquery/jquery.git>
VendorName: JS Foundation and other contributors

VendorUrl: <https://jquery.com/>
jsonfile@3.0.1
URL: [git@github.com:jprichardson/node-jsonfile.git](https://github.com:jprichardson/node-jsonfile.git)
VendorName: JP Richardson

jsonfile@4.0.0
URL: [git@github.com:jprichardson/node-jsonfile.git](https://github.com:jprichardson/node-jsonfile.git)
VendorName: JP Richardson

klaw-sync@2.1.0
URL: [git+https://github.com/manidlou/node-klaw-sync.git](https://github.com/manidlou/node-klaw-sync.git)
VendorName: Mani Maghsoudlou
VendorUrl: <https://github.com/manidlou/node-klaw-sync#readme>

kuler@1.0.1
URL: <https://github.com/3rd-Eden/kuler>
VendorName: Arnout Kazemier
VendorUrl: <https://github.com/3rd-Eden/kuler>

linkify-it@2.2.0
URL: <https://github.com/markdown-it/linkify-it.git>

lodash@4.17.15
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>

logform@2.1.2
URL: [git+https://github.com/winstonjs/logform.git](https://github.com/winstonjs/logform.git)
VendorName: Charlie Robbins
VendorUrl: <https://github.com/winstonjs/logform#readme>

markdown-it@8.4.2
URL: <https://github.com/markdown-it/markdown-it.git>

mdurl@1.0.1
URL: <https://github.com/markdown-it/mdurl.git>

ms@2.1.2
URL: <https://github.com/zeit/ms.git>

one-time@0.0.4
URL: <https://github.com/unshiftio/one-time>
VendorName: Arnout Kazemier

path-is-absolute@1.0.1
URL: <https://github.com/sindresorhus/path-is-absolute.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

process-nextick-args@2.0.1
URL: <https://github.com/calvinmetcalf/process-nextick-args.git>
VendorUrl: <https://github.com/calvinmetcalf/process-nextick-args>

readable-stream@2.3.7
URL: [git://github.com/nodejs/readable-stream](https://github.com/nodejs/readable-stream)

readable-stream@3.6.0
URL: [git://github.com/nodejs/readable-stream](https://github.com/nodejs/readable-stream)

requirejs@2.3.6
URL: <https://github.com/jrburke/r.js.git>
VendorName: James Burke

VendorUrl: <http://github.com/jrburke/r.js>
safe-buffer@5.1.2
URL: <git://github.com/feross/safe-buffer.git>
VendorName: Feross Aboukhadijeh
VendorUrl: <https://github.com/feross/safe-buffer>
safe-buffer@5.2.0
URL: <git://github.com/feross/safe-buffer.git>
VendorName: Feross Aboukhadijeh
VendorUrl: <https://github.com/feross/safe-buffer>
safer-buffer@2.1.2
URL: <git+https://github.com/ChALkeR/safer-buffer.git>
VendorName: Nikita Skovoroda
VendorUrl: <https://github.com/ChALkeR>
simple-swizzle@0.2.2
URL: <https://github.com/qix-/node-simple-swizzle.git>
VendorName: Qix
VendorUrl: <http://github.com/qix->
stack-trace@0.0.10
URL: <git://github.com/felixge/node-stack-trace.git>
VendorName: Felix Geisendrfer
VendorUrl: <https://github.com/felixge/node-stack-trace>
string_decoder@1.1.1
URL: git://github.com/nodejs/string_decoder.git
VendorUrl: https://github.com/nodejs/string_decoder
string_decoder@1.3.0
URL: git://github.com/nodejs/string_decoder.git
VendorUrl: https://github.com/nodejs/string_decoder
text-hex@1.0.0
URL: <https://github.com/3rd-Eden/text-hex>
VendorName: Arnout Kazemier
VendorUrl: <https://github.com/3rd-Eden/text-hex>
triple-beam@1.3.0
URL: <git+https://github.com/winstonjs/triple-beam.git>
VendorName: Charlie Robbins
VendorUrl: <https://github.com/winstonjs/triple-beam#readme>
uc.micro@1.0.6
URL: <https://github.com/markdown-it/uc.micro.git>
universalify@0.1.2
URL: <git+https://github.com/RyanZim/universalify.git>
VendorName: Ryan Zimmerman
VendorUrl: <https://github.com/RyanZim/universalify#readme>
util-deprecate@1.0.2
URL: <git://github.com/TooTallNate/util-deprecate.git>
VendorName: Nathan Rajlich
VendorUrl: <https://github.com/TooTallNate/util-deprecate>
winston-transport@4.3.0
URL: <git@github.com:winstonjs/winston-transport.git>
VendorName: Charlie Robbins

VendorUrl: <https://github.com/winstonjs/winston-transport#readme>

winston@3.2.1

URL: <https://github.com/winstonjs/winston.git>

VendorName: Charlie Robbins

Done in 1.94s.

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ASM: a very small and fast Java bytecode manipulation framework

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hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/datanode/checker/AbstractFuture.java
hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/datanode/checker/TimeoutFuture.java

com.aliyun:aliyun-java-sdk-core:3.4.0
com.aliyun:aliyun-java-sdk-ecs:4.2.0
com.aliyun:aliyun-java-sdk-ram:3.0.0
com.aliyun:aliyun-java-sdk-sts:3.0.0
com.aliyun.oss:aliyun-sdk-oss:3.4.1
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com.fasterxml.jackson.core:jackson-core:2.10.5
com.fasterxml.jackson.core:jackson-databind:2.10.5.1
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com.fasterxml.uuid:java-uuid-generator:3.1.4
com.fasterxml.woodstox:woodstox-core:5.3.0
com.github.davidmoten:rxjava-extras:0.8.0.17
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com.google:guice:4.0
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com.google.android:annotations:jar:4.1.1.4
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io.swagger:swagger-annotations:1.5.4
javax.inject:javax.inject:1
log4j:log4j:1.2.17
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org.apache.curator:curator-recipes:4.2.0
org.apache.geronimo.specs:geronimo-jcache_1.0_spec:1.0-alpha-1
org.apache.hbase:hbase-annotations:1.4.8
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org.apache.kafka:kafka-clients:2.4.0
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org.apache.yetus:audience-annotations:0.5.0
org.apache.zookeeper:zookeeper:3.5.6
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org.codehaus.jackson:jackson-core-asl:1.9.13
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org.eclipse.jetty:jetty-annotations:9.4.40.v20210413
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org.ehcache:ehcache:3.3.1
org.lz4:lz4-java:1.7.1
org.objenesis:objenesis:2.6
org.xerial.snappy:snappy-java:1.1.8.2
org.yaml:snakeyaml:1.26
org.wildfly.openssl:wildfly-openssl:1.0.7.Final

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hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-client-nativetask/src/main/native/lz4/lz4.{c|h}
hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/native/container-executor/impl/compat/{fstatat|openat|unlinkat}.h

com.github.luben:zstd-jni:1.4.3-1
dnsjava:dnsjava:2.1.7
org.codehaus.woodstox:stax2-api:4.2.1

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hadoop-common-project/hadoop-common/src/main/java/org/apache/hadoop/util/bloom/*
hadoop-common-project/hadoop-common/src/main/native/gtest/gtest-all.cc
hadoop-common-project/hadoop-common/src/main/native/gtest/include/gtest/gtest.h
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hadoop-hdfs-project/hadoop-hdfs-native-

client/src/main/native/libhdfspp/third_party/protobuf/protobuf/cpp_helpers.h
hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/libhdfspp/third_party/gmock-1.7.0/*/*.{cc|h}
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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/d3-v4.1.1.min.js
leveldb v1.13

com.google.protobuf:protobuf-java:2.5.0
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com.jcraft:jsch:0.1.55
com.thoughtworks.paranamer:paranamer:2.3
jakarta.activation:jakarta.activation-api:1.2.1
org.fusesource.leveldbjni:leveldbjni-all:1.8
org.jline:jline:3.9.0
org.hamcrest:hamcrest-core:1.3
org.ow2.asm:asm:5.0.4
org.ow2.asm:asm-analysis:9.0
org.ow2.asm:asm-commons:9.0
org.ow2.asm:asm-tree:9.0

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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/bootstrap-3.4.1
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hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/jt/jquery.jstree.js
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uriparser2 (hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/libhdfspp/third_party/uriparser2)

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org.bouncycastle:bcpkix-jdk15on:1.60
org.bouncycastle:bcprov-jdk15on:1.60
org.checkerframework:checker-qual:2.5.2
org.checkerframework:checker-qual:3.8.0
org.codehaus.mojo:animal-sniffer-annotations:1.17
org.jruby.jcodings:jcodings:1.0.13
org.jruby.joni:joni:2.1.2
org.ojalgo:ojalgo:43.0
org.slf4j:jul-to-slf4j:1.7.30
org.slf4j:slf4j-api:1.7.30
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1.438 jackson-core 2.9.2

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1.439 punycode v2.1.1

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1.440 node-graceful-fs 4.2.8

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1.441 d3-color 1.0.3

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1.442 mapstruct-core 1.2.0.Final

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1.443 base64-js 1.5.1

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1.444 junit 4.10

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```

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```
* /opt/ws_local/PERMITS_SQL/1018976869_1591372852.74/0/junit-4-10-sources-jar/org/junit/runners/model/MultipleFailureException.java
```

1.445 apache-commons-beanutils 1.9.4

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1.447 commons-io 2.4

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1.448 jmes-path-query-library 1.11.172

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1.449 infinispant-parent 8.2.5.Final

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1.450 d3-brush 1.1.6

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1.452 d3-selection 1.3.0

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1.453 hibernate-orm 5.2.10

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1.455 aws-java-sdk-for-aws-sts 1.11.257

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1.456 woden-api 1.0M9

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1.457 d3-dsv 1.0.8

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1.458 apache-axis2-transport-local 1.6.2

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The "org.apache.commons.math3.analysis.interpolation.HermiteInterpolator"
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1.463 aws-java-sdk-for-amazon-s3 1.11.257

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1.464 lucene-query-parser 8.9.0

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1.465 spring-security 4.1.1

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* /opt/cola/permits/1241104419_1639450904.78/0/netty-resolver-dns-native-macos-4-1-67-final-sources-
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* /opt/cola/permits/1241104419_1639450904.78/0/netty-resolver-dns-native-macos-4-1-67-final-sources-
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1.467 aws-sdk-for-java-models 1.11.257

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1.468 es6-promise 3.3.1

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1.469 angular-forms 7.0.3

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1.470 apache-poi-scratchpad 3.10-FINAL

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1.474 jlayer 1.0.1-1

1.475 is-extended 0.0.10

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1.476 jackson-annotations 2.9.0

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1.477 woden-dom 1.0M9

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1.478 jackson-dataformat-yaml 2.10.4

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1.481 biginteger.js 1.6.48

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1.482 mysql-connector-j 8.0.26

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MySQL Connector/J 8.0

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JUnit 5

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Simple Logging Facade for Java (SLF4J)

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* /opt/cola/permits/1034620284_1639195750.28/0/woodstox-core-asl-4-2-0-sources-jar-src-
zip/com/ctc/wstx/sax/WstxSAXParserFactory.java
* /opt/cola/permits/1034620284_1639195750.28/0/woodstox-core-asl-4-2-0-sources-jar-src-
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* /opt/cola/permits/1034620284_1639195750.28/0/woodstox-core-asl-4-2-0-sources-jar-src-
zip/com/ctc/wstx/sax/WrappedSaxException.java
* /opt/cola/permits/1034620284_1639195750.28/0/woodstox-core-asl-4-2-0-sources-jar-src-
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* /opt/cola/permits/1034620284_1639195750.28/0/woodstox-core-asl-4-2-0-sources-jar-src-
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* /opt/cola/permits/1034620284_1639195750.28/0/woodstox-core-asl-4-2-0-sources-jar-src-
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* /opt/cola/permits/1034620284_1639195750.28/0/woodstox-core-asl-4-2-0-sources-jar-src-
zip/com/ctc/wstx/dtd/FullDTDReader.java

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* /opt/cola/permits/1034620284_1639195750.28/0/woodstox-core-asl-4-2-0-sources-jar-src-
zip/com/ctc/wstx/sw/XmlWriter.java
* /opt/cola/permits/1034620284_1639195750.28/0/woodstox-core-asl-4-2-0-sources-jar-src-
zip/com/ctc/wstx/sr/TypedStreamReader.java
* /opt/cola/permits/1034620284_1639195750.28/0/woodstox-core-asl-4-2-0-sources-jar-src-
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- * /opt/cola/permits/1034620284_1639195750.28/0/woodstox-core-asl-4-2-0-sources-jar-src-zip/com/ctc/wstx/io/UTF32Reader.java
- * /opt/cola/permits/1034620284_1639195750.28/0/woodstox-core-asl-4-2-0-sources-jar-src-zip/com/ctc/wstx/io/UTF8Reader.java
- * /opt/cola/permits/1034620284_1639195750.28/0/woodstox-core-asl-4-2-0-sources-jar-src-zip/com/ctc/wstx/util/PrefixName.java
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- * /opt/cola/permits/1034620284_1639195750.28/0/woodstox-core-asl-4-2-0-sources-jar-src-zip/com/ctc/wstx/util/BaseNsContext.java
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- * /opt/cola/permits/1034620284_1639195750.28/0/woodstox-core-asl-4-2-0-sources-jar-src-zip/com/ctc/wstx/util/ElementIdMap.java

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```

Found in path(s):

```
* /opt/cola/permits/1045564412_1639112292.86/0/commons-logging-1-0-4-sources-  
jar/org/apache/commons/logging/impl/SimpleLog.java  
* /opt/cola/permits/1045564412_1639112292.86/0/commons-logging-1-0-4-sources-  
jar/org/apache/commons/logging/impl/Log4JCategoryLog.java  
* /opt/cola/permits/1045564412_1639112292.86/0/commons-logging-1-0-4-sources-  
jar/org/apache/commons/logging/Log.java  
* /opt/cola/permits/1045564412_1639112292.86/0/commons-logging-1-0-4-sources-  
jar/org/apache/commons/logging/LogSource.java  
* /opt/cola/permits/1045564412_1639112292.86/0/commons-logging-1-0-4-sources-
```

jar/org/apache/commons/logging/impl/AvalonLogger.java
* /opt/cola/permits/1045564412_1639112292.86/0/commons-logging-1-0-4-sources-
jar/org/apache/commons/logging/impl/Log4jFactory.java
* /opt/cola/permits/1045564412_1639112292.86/0/commons-logging-1-0-4-sources-
jar/org/apache/commons/logging/impl/Log4JLogger.java
* /opt/cola/permits/1045564412_1639112292.86/0/commons-logging-1-0-4-sources-
jar/org/apache/commons/logging/impl/LogFactoryImpl.java
* /opt/cola/permits/1045564412_1639112292.86/0/commons-logging-1-0-4-sources-
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* /opt/cola/permits/1045564412_1639112292.86/0/commons-logging-1-0-4-sources-
jar/org/apache/commons/logging/impl/NoOpLog.java
* /opt/cola/permits/1045564412_1639112292.86/0/commons-logging-1-0-4-sources-
jar/org/apache/commons/logging/LogConfigurationException.java
* /opt/cola/permits/1045564412_1639112292.86/0/commons-logging-1-0-4-sources-
jar/org/apache/commons/logging/impl/Jdk14Logger.java
* /opt/cola/permits/1045564412_1639112292.86/0/commons-logging-1-0-4-sources-
jar/org/apache/commons/logging/impl/LogKitLogger.java

1.494 itext-a-java-pdf-library 2.1.5

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(1)

ExceptionConverter:

The original version of this class was published in an article by Heinz Kabutz.

Read http://www.javaspecialists.co.za/archive/newsletter.do?issue=033&print=yes&locale=en_US

"This material from The Java(tm) Specialists' Newsletter by Maximum Solutions (South Africa). Please contact Maximum Solutions for more information.

(2)

SimpleXMLParser:

The original version of this class was published in a JavaWorld article by Steven Brandt:

<http://www.javaworld.com/javaworld/jvatips/jw-jvatip128.html>

Jennifer Orr (JavaWorld) wrote: "You have permission to use the code appearing in Steven Brandt's JavaWorld article, 'Java Tip 128: Create a quick-and-dirty XML parser.'

We ask that you reference the author as the creator and JavaWorld as the original publisher of the code." Steven Brandt also agreed with the use of this class.

(3)

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In a mail sent to Bruno Lowagie on January 23, 2008, Brian Burkhalter (@sun.com) writes: "This code is under a BSD license and supersedes the older codec packages on which your code is based. It also includes numerous fixes among them being the ability to handle a lot of 'broken' TIFFs."

Note that numerous fixes were applied to the code used in iText by Paulo Soares, but apart from the fixes there were no essential changes between the code that was originally adapted and the code that is now available under the following license:

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FYI: Brian also added: "A bit of history might be in order. The codec classes that you used originally were based on some classes included with JAI but not strictly part of JAI. As of Java SE 1.4 an official Image I/O framework was added in javax.imageio.... This framework supports these formats:

Java 1.4: GIF (read only), JPEG, PNG

Java 1.5: Added support for BMP and WBMP

Java 1.6: Added support for writing GIF

The JAI Image I/O Tools packages (jai-imageio-core) were created to support formats handled by JAI but not included in Java SE as well as some new things like JPEG2000."

(4) the file com.lowagie/text/pdf/codec/TIFFConstants and some other TIFF related code is derived from LIBTIFF:

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(5)

BidiOrder:

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1.501 javax-annotation-api 1.3.2

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Ty Coon, President of Vice

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1.502 object-extended 0.0.7

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1.503 msal4j 1.3.0

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```
// Copyright (c) Microsoft Corporation. All rights reserved.
```

```
// Licensed under the MIT License.
```

```
/**
```

```
* Object containing parameters for silent requests. Can be used as parameter to
```

```
* { @link PublicClientApplication#acquireTokenSilently(SilentParameters) } or to
```

```
* { @link ConfidentialClientApplication#acquireTokenSilently(SilentParameters) }
```

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1239450636_1639076636.22/0/msal4j-1-3-0-sources-  
jar/com/microsoft/aad/msal4j/SilentParameters.java
```

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

Manifest-Version: 1.0

Archiver-Version: Plexus Archiver

Built-By: VssAdministrator

Created-By: Apache Maven

Build-Jdk: 1.8.0_102

Name: com/microsoft/aad/msal4j/AccessTokenCacheEntity.java

SHA-256-Digest: kB686cZB43KfKFYgCygmm9Lfy7cH72/r8EO2JjABN8=

Name: com/microsoft/aad/msal4j/DefaultHttpClient.java

SHA-256-Digest: CNE/eeBpZczySXYsxFqcw/a/hV4xf8EtDni2VKuzk4=

Name: com/microsoft/aad/msal4j/ErrorResponse.java

SHA-256-Digest: T5H0wPATIM+zMbfd88KfEgBkZx+cTAws62n7xJ+jZtY=

Name: com/microsoft/aad/msal4j/SafeDocumentBuilderFactory.java

SHA-256-Digest: arnL2lMA8e1li31O6Q1LrKrU5uJXyXdfX14RwBRCWt0=

Name: com/microsoft/aad/msal4j/ITokenCacheAccessAspect.java

SHA-256-Digest: Jf/LJNJ5AAZuOBnapr7fVRw0AMukiNms4YI6z60hX5c=

Name: com/microsoft/aad/msal4j/ServiceBundle.java
SHA-256-Digest: w0dVeDI9fY0i9wcDgkZquXM8yq8dwjAuvaHQiH4tDUQ=

Name: com/microsoft/aad/msal4j/IPublicClientApplication.java
SHA-256-Digest: l9kyEXq08BACMLdPNnjEMd1qE5LCUs+N7S5ftTI/IBw=

Name: com/microsoft/aad/msal4j/Authority.java
SHA-256-Digest: OTy7ahErCtAvdXP0rpD71/ccWxkna4owMnqLrAbinxc=

Name: com/microsoft/aad/msal4j/IHttpResponse.java
SHA-256-Digest: HU5QDXwQ3EC+Mp/xKbqnWXxNaZrtQeA8Rq8iAzw7nVo=

Name: com/microsoft/aad/msal4j/HttpMethod.java
SHA-256-Digest: avXBdeLGDx8RJf0ITJoq/CyXwVU56J2W2uLCHXcwfFU=

Name: com/microsoft/aad/msal4j/ITelemetryManager.java
SHA-256-Digest: IJjdxhNsJrH6NC7vCw7Pfa3a2oTWKneIzsc0wUpNk78=

Name: com/microsoft/aad/msal4j/IClientApplicationBase.java
SHA-256-Digest: rs+v3QXgW0p0iI9I87ijyAuNv09iYxCXZ0B1fjZa3XU=

Name: com/microsoft/aad/msal4j/TokenResponse.java
SHA-256-Digest: b1xmI9YH1nTrMx19yG441frOCdyyGzMYoMVeJ0KfyZ4=

Name: com/microsoft/aad/msal4j/ApiEvent.java
SHA-256-Digest: TI70tTIEIOWCu7zDp2Au3c7BdvIwwDvoqVmd9xBHTvw=

Name: com/microsoft/aad/msal4j/AADAuthority.java
SHA-256-Digest: Qg0vyh6AdSD90VMCbX2pkQfS6nYcRLxkq01ZEUpbph70=

Name: com/microsoft/aad/msal4j/HttpResponse.java
SHA-256-Digest: tkTcuEFGEHrg3MkkempsD/DBoVtHpSY6ltwCHB1zgU0=

Name: com/microsoft/aad/msal4j/AuthenticationResultSupplier.java
SHA-256-Digest: aJCI+s0bjSdtYJH4FrMOt9y/Xm7Jdv14pp0jofCJ1H8=

Name: com/microsoft/aad/msal4j/Credential.java
SHA-256-Digest: 0XRLunwike40XK027K0BwP8hm6rK9teBhhMBoVyYQ1w=

Name: com/microsoft/aad/msal4j/AccountsSupplier.java
SHA-256-Digest: NO0RZ1EunfIHJIM63uxU1VXU4+rHNXwXuuDEb/0Vf+k=

Name: com/microsoft/aad/msal4j/InstanceDiscoveryMetadataEntry.java
SHA-256-Digest: ad7+RSa8cB4kZsHI4IPOT4c+vZ+HAKhi14j3USJO2J4=

Name: com/microsoft/aad/msal4j/TokenCache.java
SHA-256-Digest: AsZSiSl6VYb9PFHI4DgZ4ImGJUAK6vqDyOqywaXP3jE=

Name: com/microsoft/aad/msal4j/ClientInfo.java
SHA-256-Digest: QJ11BQ3NM8shQ6IMQGVpXpgSJ5hK4pIXj+9q91aClvE=

Name: com/microsoft/aad/msal4j/AbstractMsalAuthorizationGrant.java
SHA-256-Digest: Ah1T34rfpxJp6VEzCquNziMWBzz/gWUvYyDuX5IOIZ0=

Name: com/microsoft/aad/msal4j/OnBehalfOfParameters.java
SHA-256-Digest: fPLcQs4JCyDjHiFajfJeR0FifOEGmBbd0q33VJ/1KIs=

Name: com/microsoft/aad/msal4j/DeviceCodeFlowRequest.java
SHA-256-Digest: a8Ndc0eVQ28RbKOcrD9kiUGTYt8xYGjLY2WuGMnqxnI=

Name: com/microsoft/aad/msal4j/SilentRequest.java
SHA-256-Digest: 3rzzs7Ta4LCg9byMBDqhC4dDUWmJO+o2FqXbWRm+K/I=

Name: com/microsoft/aad/msal4j/ParameterValidationUtils.java
SHA-256-Digest: jPS79Nqhh/ZKe380tKBxG9KS2IHZqI36Pmlq0POM200=

Name: com/microsoft/aad/msal4j/JwtHelper.java
SHA-256-Digest: MBCUlwPldq0JdpXbJatLvLUzmFYnVBqB6w5iYuBphYs=

Name: com/microsoft/aad/msal4j/JsonHelper.java
SHA-256-Digest: DQ6fiDsTQFF52tvztjThdk/G6fFJUirj411+42lKnfU=

Name: com/microsoft/aad/msal4j/StringHelper.java
SHA-256-Digest: 92kYZ/+pgqXVCj4qKhafrY6KX8+GrMbreZzyW0S32ds=

Name: com/microsoft/aad/msal4j/IClientSecret.java
SHA-256-Digest: JigGXPNpy9sruwx9ZfNKg8lKuH2RGqx8p+KiiIequbc=

Name: com/microsoft/aad/msal4j/IAuthenticationResult.java
SHA-256-Digest: hCdjuiapVnLR9BZDjGjNM5Yxos8B62Dec0wDDpGAQfA=

Name: com/microsoft/aad/msal4j/RemoveAccountRunnable.java
SHA-256-Digest: tuzs61muoildQe6ctNQ9JJzi9SaUMhipin+arm7X8ho=

Name: com/microsoft/aad/msal4j/WSTrustResponse.java
SHA-256-Digest: iKpS4Lkh+Jng58WEA75RqRjY3CZzTaqoCDTusMt6QS8=

Name: com/microsoft/aad/msal4j/AppMetadataCacheEntity.java
SHA-256-Digest: /QW4Vh+i2XfqeSeFMZN1IGg24/wfSfiRkw2c7xuqFFs=

Name: com/microsoft/aad/msal4j/IntegratedWindowsAuthorizationGrant.java
SHA-256-Digest: nUcuZc+zE2T8kZJI0+NhBZOiJxr5ilKH2eNyBK0OsfM=

Name: com/microsoft/aad/msal4j/TokenRequestExecutor.java

SHA-256-Digest: mtlvUGV1Eqd2O0+v/+cZC4kp0vkk7t+7wJ8yv0RBqbg=

Name: com/microsoft/aad/msal4j/UserDiscoveryResponse.java

SHA-256-Digest: edTDT3/qImwo65b7CroeWBTFoFkgFxhey12j5cmKtE0=

Name: com/microsoft/aad/msal4j/AuthorityType.java

SHA-256-Digest: NsOmf2xgimzbZZ3fucTCOoI2pJrj/Kb2E78QfkZZdqQ=

Name: com/microsoft/aad/msal4j/AuthorizationCodeParameters.java

SHA-256-Digest: sRvmZgygGh171HIwwxFXeeJeor3c+21my3vwTXFGNE4=

Name: com/microsoft/aad/msal4j/IUserAssertion.java

SHA-256-Digest: HHcmDjKXLTMNOd6kWXB7A3li/zGhvWKOQaLAQPmuGRc=

Name: com/microsoft/aad/msal4j/Constants.java

SHA-256-Digest: i1O8SEMkUCUwTLbSM36y8Ag4K2J8VC1NBbN+7qYRh9Q=

Name: com/microsoft/aad/msal4j/UserNamePasswordRequest.java

SHA-256-Digest: +pSRXUhh79j+UsIWxb0jkWuOxEL8Qd/nIVx3tyMTWzM=

Name: com/microsoft/aad/msal4j/AadInstanceDiscoveryResponse.java

SHA-256-Digest: 2sPbpyZrSjk8EW352QmBC1OqpaQT8vcnZ30KnNDCNhY=

Name: com/microsoft/aad/msal4j/ClientCredentialFactory.java

SHA-256-Digest: puFfRIRXASK9mGFuLRIZ41rmOcjbv6rAbPwb9iKgCoo=

Name: com/microsoft/aad/msal4j/UserDiscoveryRequest.java

SHA-256-Digest: df45mjE00xJcBR4+MhXwYmJPvyuhOuDgyYnbZADutjw=

Name: com/microsoft/aad/msal4j/DeviceCodeAuthorizationGrant.java

SHA-256-Digest: schyri61qVoxOGb4vbwgBMqySCMjXe40s5yfiEbdAoCI=

Name: com/microsoft/aad/msal4j/IntegratedWindowsAuthenticationRequest.
java

SHA-256-Digest: 86q02C5WOCiuQ5gaKJjppcke5Lh/Erk5SG63IVkZJBw=

Name: com/microsoft/aad/msal4j/CredentialTypeEnum.java

SHA-256-Digest: bBhBXh+nc9GWc6VQs0hbJUTS9SG3pOIGSDS++gwmjsw=

Name: com/microsoft/aad/msal4j/UserAssertion.java

SHA-256-Digest: 9AcDeCV9cNIFAtB0c1/yD4f6XTVWQITCmwE/v/C+TJY=

Name: com/microsoft/aad/msal4j/AcquireTokenSilentSupplier.java

SHA-256-Digest: oj1A1lxj38AJM9gRF6q26sfGjGz3IH0wHXqMEpxIAJQ=

Name: com/microsoft/aad/msal4j/ICConfidentialClientApplication.java

SHA-256-Digest: 4ZB/TgYqJxRPJDzkDqGEZIEjzizIT+HGbbC0It+InKo=

Name: com/microsoft/aad/msal4j/ITelemetry.java
SHA-256-Digest: 2qFxtvOE0gO08L9uMSHvdG9ALQWHaLRFZnZ4mkNnATE=

Name: com/microsoft/aad/msal4j/AuthenticationResult.java
SHA-256-Digest: o/coXRauWi4LpPZI2/mfg54tWU/Xg+Bot+ZaMqm0m8g=

Name: com/microsoft/aad/msal4j/IHttpClient.java
SHA-256-Digest: A5OdJE5u1B17KGMVNgUdI4k8AcJThpFynFXAaFRwpTs=

Name: com/microsoft/aad/msal4j/SAML11BearerGrant.java
SHA-256-Digest: BPyFPbST3D3hxdGE+Oh9kRJWaMvYc6SQDBqQSGbSH7E=

Name: com/microsoft/aad/msal4j/WSTrustVersion.java
SHA-256-Digest: d3ncPiwKM9a1wOeLmqnwf1A/i9ztfQLYYan3sYTUGxg=

Name: com/microsoft/aad/msal4j/BindingPolicy.java
SHA-256-Digest: VVxiBKDU5o/FOseEkpn7TDm6ti2kTVT7tuN2Qm5aWds=

Name: com/microsoft/aad/msal4j/HttpEvent.java
SHA-256-Digest: JQm4WoOhxhXG1WtDKzJBDfM6/Ex+4UcIT1rvVbOm/58=

Name: com/microsoft/aad/msal4j/HttpRequest.java
SHA-256-Digest: RSA2jtwMqhFRhvk169YMybMdP/og79AQ+D5B1UsDyM=

Name: com/microsoft/aad/msal4j/OnBehalfOfRequest.java
SHA-256-Digest: 59h4IIUKnP57oDJWQ4DynmoOxwfaqECibvTo65KtMeA0=

Name: com/microsoft/aad/msal4j/AccountCacheEntity.java
SHA-256-Digest: HOGWl2xSu+92CECmyIjy03ADcyCAwmIpju+ZHzTXgyU=

Name: com/microsoft/aad/msal4j/AuthenticationErrorMessage.java
SHA-256-Digest: enDZE+VpIJih93wQC2Su+Qn9NRd4cwdaqjLz/fLobA=

Name: com/microsoft/aad/msal4j/IAccount.java
SHA-256-Digest: cbqQg0/d88ST8htVXXW/KDTdvy805giC1wAluPQ9JQw=

Name: com/microsoft/aad/msal4j/LogHelper.java
SHA-256-Digest: GkTJRCnChh7sUIOs8mJ4ARHfUPZr97VZ9z+v1TDDsVU=

Name: com/microsoft/aad/msal4j/MsalClientException.java
SHA-256-Digest: UdZng5gyX0I9QXmYKqMcSkQ6o+VoQ5sWW+vLODN7tcs=

Name: com/microsoft/aad/msal4j/IdToken.java
SHA-256-Digest: tppD3xklVHT9wF3sBFEUL/TGSeTb1/fOyL6ZhoFgw1w=

Name: com/microsoft/aad/msal4j/ConfidentialClientApplication.java
SHA-256-Digest: X5ckS7IHx2ngS4QIjg+Fs9JDQ72n7f0AMO1o638Vvv4=

Name: com/microsoft/aad/msal4j/AuthorizationCodeRequest.java
SHA-256-Digest: 63Ct05QAOSWWIbw/8CIsVZOS8vYTWITmU30RpfzGf0=

Name: com/microsoft/aad/msal4j/B2CAuthority.java
SHA-256-Digest: 2O1ENFh+JWtTmDj6RgDm55IMUcnD2kBjBlajsQW+4mM=

Name: com/microsoft/aad/msal4j/SilentParameters.java
SHA-256-Digest: efXxgP1MEQgBbAcZjgPCvcKbzoasRf0Ph65aUSJ3UOs=

Name: com/microsoft/aad/msal4j/ClientAssertion.java
SHA-256-Digest: y9pGIA2MdopAn47K47GzJ3UBwZAD/onuYQRiPWyydkA=

Name: com/microsoft/aad/msal4j/IntegratedWindowsAuthenticationParameters.java
SHA-256-Digest: y/sfPXCx0OWADtF6zabBEaQPHEdYPzqyBzd3QF3NpsQ=

Name: com/microsoft/aad/msal4j/InteractionRequiredExceptionReason.java
SHA-256-Digest: 1qnSI+GCf7vnaPJAZjen3/6gp8pT/+IEzKMoZEby3No=

Name: com/microsoft/aad/msal4j/MsalServiceExceptionFactory.java
SHA-256-Digest: p3Yash5nWOEmfZJmihQW/qyLJ0+/BlxzYt9Gm/7f6ig=

Name: com/microsoft/aad/msal4j/IdTokenCacheEntity.java
SHA-256-Digest: 0X+tbZbKOhwxef7HzDuQ0v8Dg0KokQElzyWuEMPqVE=

Name: com/microsoft/aad/msal4j/OAuthHttpRequest.java
SHA-256-Digest: FDO6xXNAPAp5dGC1Q4pMFJoWF5v/Tk2GvBMMPIjir0=

Name: com/microsoft/aad/msal4j/ITokenCacheAccessContext.java
SHA-256-Digest: gTzp5HppZvVaQQGncqpPTmisiCaJahIzPct2dJX7TEs=

Name: com/microsoft/aad/msal4j/TelemetryManager.java
SHA-256-Digest: ybYTq/yx9GQPY2cT+mHKPmZ0PSMHWUJygNQ8dfXrZPg=

Name: com/microsoft/aad/msal4j/AcquireTokenByAuthorizationGrantSupplier.java
SHA-256-Digest: XXFinTUUJQjVv7Oo+6U7MVRNk153BYFp/xd0rl518NA=

Name: com/microsoft/aad/msal4j/ClientCredentialParameters.java
SHA-256-Digest: 1CN5o6/4Q1dd3zN3vI7JZI+9H21BnJT37nvCXcK6YWw=

Name: com/microsoft/aad/msal4j/HttpHeaders.java
SHA-256-Digest: VkTC+H/eRNpIIaNBxgF6z0Vdy7rkiaZHIO9UxPJFOA=

Name: com/microsoft/aad/msal4j/ClientApplicationBase.java
SHA-256-Digest: ZWS+6YsHbsWKRnvjvG+IJqwKYv8oRmKnnZJpEMS0z8w=

Name: com/microsoft/aad/msal4j/OAuthAuthorizationGrant.java

SHA-256-Digest: y1MZ/ZFHH0ocwog1pkiik3F6YiKRNNet+WLyVjJVntY=

Name: com/microsoft/aad/msal4j/MsalException.java

SHA-256-Digest: ciXO+tvNgW2T/DBGTDN5xhQfiO9z5uYrB0+/sm5v8qk=

Name: com/microsoft/aad/msal4j/ClientAuthenticationPost.java

SHA-256-Digest: xnAu4zduJCwasi1jDTHUyyLpyHISsIvCyd0VuRffxpI=

Name: com/microsoft/aad/msal4j/MsalRequest.java

SHA-256-Digest: fARziMIOrCJrHfwnRZx6OwyD4mqIwIkLU3JSbRmnO7Y=

Name: com/microsoft/aad/msal4j/AuthenticationErrorCode.java

SHA-256-Digest: 1BSP/EIItXRzYNqQdAdW0r4+eJVEYr2RmHxu3AQ6nH8=

Name: com/microsoft/aad/msal4j/Account.java

SHA-256-Digest: w6RisXctg8SY2umEM1t8TqhNL0beFq0gmq+444PRi1Q=

Name: com/microsoft/aad/msal4j/ADFSAuthority.java

SHA-256-Digest: gEZou9BsOE0+RXr2PnkWoe+CUdGIDNzsNBmCJ/wDRDE=

Name: com/microsoft/aad/msal4j/ITokenCache.java

SHA-256-Digest: cd8fP5DifhFCiPm1LKkjbRjJL317Et6ASkTHucA4K8A=

Name: com/microsoft/aad/msal4j/RefreshTokenParameters.java

SHA-256-Digest: dvnVgUijURVWWw2+PTyygjjMvUblFcYPgFL8RLy+CBQ=

Name: com/microsoft/aad/msal4j/XmsClientTelemetryInfo.java

SHA-256-Digest: xSIgnwb01cn703DyTD30Y4X9C3sbo6lKFKDhuBZszh8=

Name: com/microsoft/aad/msal4j/EventKey.java

SHA-256-Digest: jWVC4LSx/TycuAkKB6fw2T2Pp7U2GWiEmT15IJ/CNpg=

Name: com/microsoft/aad/msal4j/DefaultEvent.java

SHA-256-Digest: skJfF3PXiW7EmyJhPinoqr4TSlspre1sqAu7zoOY/Fg=

Name: com/microsoft/aad/msal4j/UserNamePasswordParameters.java

SHA-256-Digest: mldI2Yw29xIE/XY35wqFSsB5CHECDUZhrQ8A92QWDDY=

Name: com/microsoft/aad/msal4j/PublicClientApplication.java

SHA-256-Digest: f6F8qOsEu1RdSaherMHAOU6k9ZXDAJCb1foyaZ/j4BE=

Name: com/microsoft/aad/msal4j/DeviceCodeFlowParameters.java

SHA-256-Digest: +cCT9o0t9rT87VkpV1mLXQoRcK+MiGIR3pDQ8HzNqvI=

Name: com/microsoft/aad/msal4j/AcquireTokenByDeviceCodeFlowSupplier.java

SHA-256-Digest: HQlxiqziGdrCMdDBiDr0yetV5ykZgkDBwWc5wmRJH0Q=

Name: com/microsoft/aad/msal4j/MexParser.java

SHA-256-Digest: IJh3ZauFhfGx9riGH7M9tiHiEs3KObbbk0hR1siY4=

Name: com/microsoft/aad/msal4j/WSTrustRequest.java

SHA-256-Digest: mY8DC76BBh2IxF8WYt4KefTtKbGBcQHgVgQSmSmIMlw=

Name: com/microsoft/aad/msal4j/Event.java

SHA-256-Digest: zfLVwNW7Q8WmHJQlyjLfuDFZdCWixTtoEoCilICKRfxA=

Name: com/microsoft/aad/msal4j/ClientSecret.java

SHA-256-Digest: 4QaOHUgemBZJmDO1Aapb+eFv3bMxPx9IRbB8AQZ4IWQ=

Name: com/microsoft/aad/msal4j/IClientCredential.java

SHA-256-Digest: maIptKrQvO1PAqkvb6SuOSjzufYL+aJJW/7h56M1ujA=

Name: com/microsoft/aad/msal4j/MsalInteractionRequiredException.java

SHA-256-Digest: f2DVbgtq3l81VFrVeLzhKuuLjwetI9ANtUu+WrqawNE=

Name: com/microsoft/aad/msal4j/RefreshTokenRequest.java

SHA-256-Digest: Yj89vVNFZtaX0nq2q6+s8PCsNL13eyn4IOcnbumQw90=

Name: com/microsoft/aad/msal4j/PublicApi.java

SHA-256-Digest: FaCeukn2hq7JEP7Z3Q6xoeoGhvAlQK7/DByLPkEFiQw=

Name: com/microsoft/aad/msal4j/TelemetryConstants.java

SHA-256-Digest: 6oQPI3troJbK2nJOGxPSOmuoJ5fhW7QSI+sgAlpwDJ4=

Name: com/microsoft/aad/msal4j/AadInstanceDiscoveryProvider.java

SHA-256-Digest: MMRfVxVf+o4tT1T+YVPV9rUAbR/quz7LSp8/s/YA6Ts=

Name: com/microsoft/aad/msal4j/ClientCertificate.java

SHA-256-Digest: bWVVILQ6Erru7CHAbLUCUw7nTv1ExJcm5rvIxcS0Tco=

Name: com/microsoft/aad/msal4j/RequestContext.java

SHA-256-Digest: ZhQ703ujQxgjD6+Ig29yaXxCAozBDrORQlpQm7CkLWA=

Name: com/microsoft/aad/msal4j/MsalServiceException.java

SHA-256-Digest: 4JXRdkaBV4XZpa66sAQJWmbHKjTwaacM6bDzGPRRhxY=

Name: com/microsoft/aad/msal4j/IClientCertificate.java

SHA-256-Digest: Jqh6OC0Sd0ytiiEJ/10dQISWJCrqwof+I7dU14DIMiE=

Name: com/microsoft/aad/msal4j/TokenCacheAccessContext.java

SHA-256-Digest: IWMaALOSH1IQIQTsmC1QOu83ApdmY31UAJLXDkN5d7k=

Name: com/microsoft/aad/msal4j/ClientCredentialRequest.java

SHA-256-Digest: TaErM2lzt4j372XSocO+PK0T7vkYaXZMiUS4oBbmsTk=

Name: com/microsoft/aad/msal4j/RefreshTokenCacheEntity.java
SHA-256-Digest: 65xnh4iNGS22vkNDhioStzoCRuwN5Hol5fN9Um3r/f8=

Name: com/microsoft/aad/msal4j/DeviceCode.java
SHA-256-Digest: hkbhsdMEsJE3ZBdN3pqGUaav2p7E9+gDkfrqgYhNCRo=

Name: com/microsoft/aad/msal4j/IClientAssertion.java
SHA-256-Digest: UlkEpmJjw2sefmK9k+I6JmSokua7P/mtwSrK1pTkws=

Name: com/microsoft/aad/msal4j/HttpUtils.java
SHA-256-Digest: cEmiuYnQDPn6FheHJ+UDn1xMCHIPe9RI7zmv1jORSs=

Name: com/microsoft/aad/msal4j/NamespaceContextImpl.java
SHA-256-Digest: fbr9Rvsx/ZWcKH4qpaAyHv0OnWDPekL8RG7avpg/aNg=

Name: com/microsoft/aad/msal4j/HttpHelper.java
SHA-256-Digest: K/abmR9IvkGNR3e767wI8oBOVKTqqGACuB6/9GOwOec=

Name: com/microsoft/aad/msal4j/TelemetryHelper.java
SHA-256-Digest: 9TwlF2bp3Q4UwP0VInUvt/t926R+IL6BHE+HUU0aAvk=

Found in path(s):

* /opt/cola/permits/1239450636_1639076636.22/0/msal4j-1-3-0-sources-jar/META-INF/MANIFEST.MF

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/**

* Class to be used to acquire tokens for confidential client applications (Web Apps, Web APIs,
* and daemon applications).

*/

/**

* Creates instance of Builder of ConfidentialClientApplication

*

* @param clientId Client ID (Application ID) of the application as registered
* in the application registration portal (portal.azure.com)

* @param clientCredential The client credential to use for token acquisition.

*

* @return instance of Builder of ConfidentialClientApplication

*/

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* /opt/cola/permits/1239450636_1639076636.22/0/msal4j-1-3-0-sources-jar/com/microsoft/aad/msal4j/ConfidentialClientApplication.java

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/**

* Object containing parameters for refresh token request. Can be used as parameter to

* { @link PublicClientApplication#acquireToken(RefreshTokenParameters)} or to

* { @link ConfidentialClientApplication#acquireToken(RefreshTokenParameters)}

*/

Found in path(s):

* /opt/cola/permits/1239450636_1639076636.22/0/msal4j-1-3-0-sources-jar/com/microsoft/aad/msal4j/RefreshTokenParameters.java

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/**

* Object containing parameters for authorization code flow. Can be used as parameter to

* { @link PublicClientApplication#acquireToken(AuthorizationCodeParameters)} or to

* { @link ConfidentialClientApplication#acquireToken(AuthorizationCodeParameters)}

*/

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* /opt/cola/permits/1239450636_1639076636.22/0/msal4j-1-3-0-sources-jar/com/microsoft/aad/msal4j/AuthorizationCodeParameters.java

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/**

* Interface to be implemented when configuring http client for { @link IPublicClientApplication } or

* { @link IConfidentialClientApplication }.

*/

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* /opt/cola/permits/1239450636_1639076636.22/0/msal4j-1-3-0-sources-jar/com/microsoft/aad/msal4j/Event.java
* /opt/cola/permits/1239450636_1639076636.22/0/msal4j-1-3-0-sources-jar/com/microsoft/aad/msal4j/AuthenticationResult.java
* /opt/cola/permits/1239450636_1639076636.22/0/msal4j-1-3-0-sources-jar/com/microsoft/aad/msal4j/AccountsSupplier.java
* /opt/cola/permits/1239450636_1639076636.22/0/msal4j-1-3-0-sources-jar/com/microsoft/aad/msal4j/DeviceCodeAuthorizationGrant.java
No license file was found, but licenses were detected in source scan.

Signature-Version: 1.0

SHA-256-Digest-Manifest-Main-Attributes: ajLi/ZVDP0IygrDXT5SURtyHBprw8
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Name: com/microsoft/aad/msal4j/AccessTokenCacheEntity.java

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Name: com/microsoft/aad/msal4j/ErrorResponse.java

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Name: com/microsoft/aad/msal4j/IAuthenticationResult.java

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Name: com/microsoft/aad/msal4j/WSTrustResponse.java

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Name: com/microsoft/aad/msal4j/AppMetadataCacheEntity.java

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Found in path(s):

* /opt/cola/permits/1239450636_1639076636.22/0/msal4j-1-3-0-sources-jar/META-INF/MSFTSIG.SF

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/**

* Object containing parameters for client credential flow. Can be used as parameter to

* { @link ConfidentialClientApplication#acquireToken(ClientCredentialParameters)}

*/

Found in path(s):

* /opt/cola/permits/1239450636_1639076636.22/0/msal4j-1-3-0-sources-

jar/com/microsoft/aad/msal4j/ClientCredentialParameters.java

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/**

* Object containing parameters for On-Behalf-Of flow. Can be used as parameter to

* { @link ConfidentialClientApplication#acquireToken(OnBehalfOfParameters)}

*/

Found in path(s):

```
* /opt/cola/permits/1239450636_1639076636.22/0/msal4j-1-3-0-sources-  
jar/com/microsoft/aad/msal4j/OnBehalfOfParameters.java
```

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```
/**
```

```
* Interface representing a confidential client application (Web App, Web API, Daemon App).
```

```
* Confidential client applications are trusted to safely store application secrets, and therefore
```

```
* can be used to acquire tokens in then name of either the application or an user.
```

```
* For details see https://aka.ms/msal4jclientapplications
```

```
*/
```

```
/**
```

```
    * Acquires tokens from the authority configured in the application, for the confidential client
```

```
    * itself
```

```
    * @param parameters instance of { @link ClientCredentialParameters }
```

```
    * @return { @link CompletableFuture } containing an { @link IAuthenticationResult }
```

```
    */
```

```
/**
```

```
    * Acquires an access token for this application (usually a Web API) from the authority configured
```

```
    * in the application, in order to access another downstream protected Web API on behalf of a user
```

```
    * using the On-Behalf-Of flow. This confidential client application was itself called with a token
```

```
    * which will be provided in the { @link UserAssertion } to the { @link OnBehalfOfParameters }
```

```
    * @param parameters instance of { @link OnBehalfOfParameters }
```

```
    * @return { @link CompletableFuture } containing an { @link IAuthenticationResult }
```

```
    */
```

Found in path(s):

```
* /opt/cola/permits/1239450636_1639076636.22/0/msal4j-1-3-0-sources-  
jar/com/microsoft/aad/msal4j/IConfidentialClientApplication.java
```

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```
/**
```

```
* Factory for creating client credentials used in confidential client flows
```

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1239450636_1639076636.22/0/msal4j-1-3-0-sources-  
jar/com/microsoft/aad/msal4j/ClientCredentialFactory.java
```

1.504 d3-collection 1.0.4

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1.505 redshiftjdbc 1.2.10.1009

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Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
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1.506 reactor-netty 0.9.0.RELEASE

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1.507 json-schema-traverse 0.4.1

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1.508 types-sizzle 2.3.2

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1.510 jackson-annotations 2.5.3

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1.511 @swimlane/ngx-graph 6.2.0

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1.512 cloudwatch-metrics-for-aws-java-sdk

1.11.172

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1.513 owasp-antisamy 1.4.3

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* /opt/cola/permits/1046386456_1611209709.41/0/antisamy-1-4-3-sources-2-
jar/org/owasp/validator/html/Policy.java

* /opt/cola/permits/1046386456_1611209709.41/0/antisamy-1-4-3-sources-2-
jar/org/owasp/validator/html/scan/AntiSamyDOMScanner.java

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* /opt/cola/permits/1046386456_1611209709.41/0/antisamy-1-4-3-sources-2-jar/org/owasp/validator/css/CssScanner.java

* /opt/cola/permits/1046386456_1611209709.41/0/antisamy-1-4-3-sources-2-jar/org/owasp/validator/css/CssValidator.java

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* /opt/cola/permits/1046386456_1611209709.41/0/antisamy-1-4-3-sources-2-jar/org/owasp/validator/html/util/ErrorMessageUtil.java

```

* /opt/cola/permits/1046386456_1611209709.41/0/antisamy-1-4-3-sources-2-
jar/org/owasp/validator/html/util/URIUtils.java
* /opt/cola/permits/1046386456_1611209709.41/0/antisamy-1-4-3-sources-2-
jar/org/owasp/validator/html/scan/Constants.java
* /opt/cola/permits/1046386456_1611209709.41/0/antisamy-1-4-3-sources-2-
jar/org/owasp/validator/html/PolicyException.java
* /opt/cola/permits/1046386456_1611209709.41/0/antisamy-1-4-3-sources-2-
jar/org/owasp/validator/html/model/Attribute.java
* /opt/cola/permits/1046386456_1611209709.41/0/antisamy-1-4-3-sources-2-
jar/org/owasp/validator/html/util/HTMLEntityEncoder.java
* /opt/cola/permits/1046386456_1611209709.41/0/antisamy-1-4-3-sources-2-
jar/org/owasp/validator/html/scan/AntiSamySAXScanner.java
* /opt/cola/permits/1046386456_1611209709.41/0/antisamy-1-4-3-sources-2-
jar/org/owasp/validator/html/model/AntiSamyPattern.java
* /opt/cola/permits/1046386456_1611209709.41/0/antisamy-1-4-3-sources-2-
jar/org/owasp/validator/html/scan/AbstractAntiSamyScanner.java
* /opt/cola/permits/1046386456_1611209709.41/0/antisamy-1-4-3-sources-2-
jar/org/owasp/validator/html/CleanResults.java
* /opt/cola/permits/1046386456_1611209709.41/0/antisamy-1-4-3-sources-2-
jar/org/owasp/validator/html/util/XMLUtil.java
* /opt/cola/permits/1046386456_1611209709.41/0/antisamy-1-4-3-sources-2-
jar/org/owasp/validator/html/model/Tag.java
* /opt/cola/permits/1046386456_1611209709.41/0/antisamy-1-4-3-sources-2-
jar/org/owasp/validator/html/scan/MagicSAXFilter.java
* /opt/cola/permits/1046386456_1611209709.41/0/antisamy-1-4-3-sources-2-
jar/org/owasp/validator/css/UnknownSelectorException.java

```

1.514 apache-commons-collections 2.1

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/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons//collections/LICENSE.txt,v 1.1 2002/07/25 02:36:45 jvanzyl Exp $
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1.515 core v11.0.1

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1.516 guava 20.0

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1.519 aws-sdk-for-java 1.11.555

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1.520 jackson-annotations jackson-annotations-2.12.3

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1.522 transformation-matrix 1.15.3

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1.523 jackson-databind 2.6.7.1

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1.525 jackson-mapper-asl 1.9.2

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```
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*/
```

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```
*/opt/cola/permits/1183516064_1627416705.95/0/jackson-mapper-asl-1-9-2-sources-7-jar/org/codehaus/jackson/map/MappingJsonFactory.java
```

1.526 node-xmlhttprequest 1.8.0

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1.527 guava v28.0

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1.528 open-csv 4.1

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```
* /opt/cola/permits/1237463678_1638811391.93/0/opencsv-4-1-sources-
jar/com/opencsv/bean/IterableCSVToBeanBuilder.java
```

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```
* /opt/cola/permits/1237463678_1638811391.93/0/opencsv-4-1-sources-jar/META-
INF/maven/com.opencsv/opencsv/pom.xml
```

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```
*/
```

```
/**
```

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*
* The purpose of the CSVParser is to take a single string and parse it into
* its elements based on the delimiter, quote and escape characters.
*
* The CSVParser has grown organically based on user requests and does not truly match
* any current requirements (though it can be configured to match or come close). There
* is no plans to change this as it will break existing requirements. Consider using
* the RFC4180Parser for less configurability but closer match to the RFC4180 requirements.
*
* @author Glen Smith
* @author Rainer Pruy
*/

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* /opt/cola/permits/1237463678_1638811391.93/0/opencsv-4-1-sources-jar/com/opencsv/CSVParser.java
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* /opt/cola/permits/1237463678_1638811391.93/0/opencsv-4-1-sources-jar/com/opencsv/bean/concurrent/ProcessCsvBean.java

* /opt/cola/permits/1237463678_1638811391.93/0/opencsv-4-1-sources-jar/com/opencsv/bean/concurrent/AccumulateCsvResults.java

* /opt/cola/permits/1237463678_1638811391.93/0/opencsv-4-1-sources-jar/com/opencsv/bean/concurrent/IntolerantThreadPoolExecutor.java

* /opt/cola/permits/1237463678_1638811391.93/0/opencsv-4-1-sources-jar/com/opencsv/bean/concurrent/OrderedObject.java

* /opt/cola/permits/1237463678_1638811391.93/0/opencsv-4-1-sources-jar/com/opencsv/bean/concurrent/ProcessCsvLine.java

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* /opt/cola/permits/1237463678_1638811391.93/0/opencsv-4-1-sources-jar/com/opencsv/ResultSetHelper.java
* /opt/cola/permits/1237463678_1638811391.93/0/opencsv-4-1-sources-jar/com/opencsv/ResultSetHelperService.java
* /opt/cola/permits/1237463678_1638811391.93/0/opencsv-4-1-sources-jar/com/opencsv/CSVReaderBuilder.java
* /opt/cola/permits/1237463678_1638811391.93/0/opencsv-4-1-sources-jar/com/opencsv/CSVParserBuilder.java
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* /opt/cola/permits/1237463678_1638811391.93/0/opencsv-4-1-sources-jar/com/opencsv/bean/CsvToBeanFilter.java

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* /opt/cola/permits/1237463678_1638811391.93/0/opencsv-4-1-sources-jar/com/opencsv/exceptions/CsvException.java

* /opt/cola/permits/1237463678_1638811391.93/0/opencsv-4-1-sources-jar/com/opencsv/exceptions/CsvBadConverterException.java

* /opt/cola/permits/1237463678_1638811391.93/0/opencsv-4-1-sources-jar/com/opencsv/exceptions/CsvConstraintViolationException.java

* /opt/cola/permits/1237463678_1638811391.93/0/opencsv-4-1-sources-jar/com/opencsv/bean/CsvBindByPosition.java

* /opt/cola/permits/1237463678_1638811391.93/0/opencsv-4-1-sources-jar/com/opencsv/bean/CsvCustomBindByPosition.java

* /opt/cola/permits/1237463678_1638811391.93/0/opencsv-4-1-sources-jar/com/opencsv/bean/CsvDate.java

* /opt/cola/permits/1237463678_1638811391.93/0/opencsv-4-1-sources-jar/com/opencsv/bean/package-info.java

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* /opt/cola/permits/1237463678_1638811391.93/0/opencsv-4-1-sources-jar/com/opencsv/bean/BeanFieldPrimitiveTypes.java

* /opt/cola/permits/1237463678_1638811391.93/0/opencsv-4-1-sources-jar/com/opencsv/bean/AbstractBeanField.java

* /opt/cola/permits/1237463678_1638811391.93/0/opencsv-4-1-sources-jar/com/opencsv/exceptions/package-

info.java
* /opt/cola/permits/1237463678_1638811391.93/0/opencsv-4-1-sources-jar/com/opencsv/bean/StatefulBeanToCsv.java
* /opt/cola/permits/1237463678_1638811391.93/0/opencsv-4-1-sources-jar/com/opencsv/exceptions/CsvRequiredFieldEmptyException.java
* /opt/cola/permits/1237463678_1638811391.93/0/opencsv-4-1-sources-jar/com/opencsv/stream/reader/package-info.java
* /opt/cola/permits/1237463678_1638811391.93/0/opencsv-4-1-sources-jar/com/opencsv/bean/CsvCustomBindByName.java
* /opt/cola/permits/1237463678_1638811391.93/0/opencsv-4-1-sources-jar/com/opencsv/bean/customconverter/package-info.java
* /opt/cola/permits/1237463678_1638811391.93/0/opencsv-4-1-sources-jar/com/opencsv/bean/customconverter/ConvertGermanToBoolean.java
* /opt/cola/permits/1237463678_1638811391.93/0/opencsv-4-1-sources-jar/com/opencsv/bean/StatefulBeanToCsvBuilder.java
* /opt/cola/permits/1237463678_1638811391.93/0/opencsv-4-1-sources-jar/com/opencsv/enums/package-info.java
* /opt/cola/permits/1237463678_1638811391.93/0/opencsv-4-1-sources-jar/com/opencsv/exceptions/CsvBeanIntrospectionException.java
* /opt/cola/permits/1237463678_1638811391.93/0/opencsv-4-1-sources-jar/com/opencsv/bean/BeanFieldDate.java
* /opt/cola/permits/1237463678_1638811391.93/0/opencsv-4-1-sources-jar/com/opencsv/bean/customconverter/ConvertSplitOnWhitespace.java
* /opt/cola/permits/1237463678_1638811391.93/0/opencsv-4-1-sources-jar/com/opencsv/exceptions/CsvRuntimeException.java
* /opt/cola/permits/1237463678_1638811391.93/0/opencsv-4-1-sources-jar/com/opencsv/exceptions/CsvDataTypeMismatchException.java
* /opt/cola/permits/1237463678_1638811391.93/0/opencsv-4-1-sources-jar/com/opencsv/bean/CsvBindByName.java
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*/
```

Found in path(s):

* /opt/cola/permits/1237463678_1638811391.93/0/opencsv-4-1-sources-jar/com/opencsv/bean/IterableCSVToBean.java

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Found in path(s):

```
* /opt/cola/permits/1237463678_1638811391.93/0/opencsv-4-1-sources-jar/opencsv.properties
* /opt/cola/permits/1237463678_1638811391.93/0/opencsv-4-1-sources-
jar/convertGermanToBoolean_de.properties
* /opt/cola/permits/1237463678_1638811391.93/0/opencsv-4-1-sources-
jar/convertSplitOnWhitespace_de.properties
* /opt/cola/permits/1237463678_1638811391.93/0/opencsv-4-1-sources-jar/convertGermanToBoolean.properties
* /opt/cola/permits/1237463678_1638811391.93/0/opencsv-4-1-sources-jar/convertSplitOnWhitespace.properties
* /opt/cola/permits/1237463678_1638811391.93/0/opencsv-4-1-sources-jar/opencsv_de.properties
```

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*/

Found in path(s):

```
* /opt/cola/permits/1237463678_1638811391.93/0/opencsv-4-1-sources-jar/com/opencsv/bean/CsvToBean.java
* /opt/cola/permits/1237463678_1638811391.93/0/opencsv-4-1-sources-
jar/com/opencsv/bean/MappingStrategy.java
```

1.529 mockito-junit-jupiter 3.9.0

1.529.1 Available under license :

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1.530 aws-java-sdk-for-aws-kms 1.11.508

1.530.1 Available under license :

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1.531 apache-http-client 4.5.8

1.531.1 Available under license :

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k`WR/ABV+qKP?4Z~&J5F?./;QjxYg7!"q8qMk&p-.Lq3aqolASrz#b"K0q3:7Ky0WZ6D+IB\UPU2j;\$LVs^m-
+ETHfF

A@i{nVl\BCS!srY rq25>rgYS3\$`?kLjI>{GJwwqS<s9thIWR8_aHD]Zs },[1`uE1H4zG5.2khKPx]/g{?
k1B(P`^%*Vmo?X.*r;*\$_`~9[B]jr~0a`F1P0ry\$^Qa^?VL{lJcdPzKf: v?=oqM~@RTob(aO3i
[GJ,gNWA6La7.QcBz1" 451'cliDC`i|8[Ay0(.8{_)xO`5
4R,r]QNo >UYT<

r? =3LaAnfO"Zo;1mu?.5z+bYhX %
/"7J|C|8qoHjW7Ju~. { fP 'ad mw7OiG|nsi
u~2r@_3v [Fg@.Nmjino\$'+q\$}4Wae3r\ZK
[Z6QXf+.s~Y9Wz`e9%)OnI.-VZHM^t:r*ppkMd# Y!Nn6fxs/
a23pT]sO,rpF;&gq|dL)BsZ{mtwciPt=+[5hmU\$A@ 9t*bSI?@IbO_!' ?! G/qU'w><0O` aEw`?|Nlu ;~%~
WFwm0G;;_
w>Q6W>
0?yU|fI7W.~w\$\$8oh~*TPK'&2PK0PDc=spring-cloud-starter-netflix-ribbon-2.1.2.RELEASE-
sources.jarPK9ZP'&26spring-cloud-netflix-sidecar-2.2.2.RELEASE-sources.jarPK=

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1.532 asm 3.3.1

1.533 jta 1.1

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1.534 d3-interpolate v1.1.6

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1.535 ws-commons-util 1.0.2

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```

Found in path(s):

```
*/opt/cola/permits/1239933985_1639109065.55/0/ws-commons-util-1-0-2-sources-
jar/org/apache/ws/commons/util/NameSpaceContextImpl.java
```

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Found in path(s):

* /opt/cola/permits/1239933985_1639109065.55/0/ws-commons-util-1-0-2-sources-jar/org/apache/ws/commons/serialize/CharSetXMLWriter.java
* /opt/cola/permits/1239933985_1639109065.55/0/ws-commons-util-1-0-2-sources-jar/org/apache/ws/commons/serialize/PassThroughXMLWriter.java
* /opt/cola/permits/1239933985_1639109065.55/0/ws-commons-util-1-0-2-sources-jar/org/apache/ws/commons/serialize/DOMBuilder.java

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Found in path(s):

* /opt/cola/permits/1239933985_1639109065.55/0/ws-commons-util-1-0-2-sources-jar/org/apache/ws/commons/serialize/package.html
* /opt/cola/permits/1239933985_1639109065.55/0/ws-commons-util-1-0-2-sources-jar/org/apache/ws/commons/util/package.html

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```

Found in path(s):

```
 * /opt/cola/permits/1239933985_1639109065.55/0/ws-commons-util-1-0-2-sources-
jar/org/apache/ws/commons/serialize/OrderedAttributeXMLWriter.java
 * /opt/cola/permits/1239933985_1639109065.55/0/ws-commons-util-1-0-2-sources-
jar/org/apache/ws/commons/util/XsDateFormat.java
 * /opt/cola/permits/1239933985_1639109065.55/0/ws-commons-util-1-0-2-sources-
jar/org/apache/ws/commons/serialize/XMLWriterImpl.java
 * /opt/cola/permits/1239933985_1639109065.55/0/ws-commons-util-1-0-2-sources-
jar/org/apache/ws/commons/serialize/DOMSerializer.java
 * /opt/cola/permits/1239933985_1639109065.55/0/ws-commons-util-1-0-2-sources-
jar/org/apache/ws/commons/serialize/XMLWriter.java
 * /opt/cola/permits/1239933985_1639109065.55/0/ws-commons-util-1-0-2-sources-
jar/org/apache/ws/commons/util/XsDateTimeFormat.java
 * /opt/cola/permits/1239933985_1639109065.55/0/ws-commons-util-1-0-2-sources-
jar/org/apache/ws/commons/util/XsTimeFormat.java
```

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*/

Found in path(s):

* /opt/cola/permits/1239933985_1639109065.55/0/ws-commons-util-1-0-2-sources-jar/org/apache/ws/commons/util/Base64.java

1.536 wrappy 1.0.2

1.536.1 Available under license :

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1.537 zstd-jni 1.4.9-1

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Manifest-Version: 1.0

Automatic-Module-Name: com.github.luben.zstd_jni

Bnd-LastModified: 1615191527618

Bundle-Description: JNI bindings for Zstd native library that provides fast and high compression lossless algorithm for Java and all JVM languages.

Bundle-License: <https://opensource.org/licenses/BSD-2-Clause>;description=BSD 2-Clause License

Bundle-ManifestVersion: 2

Bundle-Name: zstd-jni

Bundle-NativeCode: aix/ppc64/libzstd-jni.so;osname=AIX;processor=ppc64, darwin/x86_64/libzstd-jni.dylib;osname=MacOS;osname=MacOSX;processor=x86_64, darwin/aarch64/libzstd-jni.dylib;osname=MacOS;osname=MacOSX;processor=aarch64, freebsd/amd64/libzstd-jni.so;osname=FreeBSD;processor=amd64, freebsd/i386/libzstd-jni.so;osname=FreeBSD;processor=i386

, linux/aarch64/libzstd-jni.so;osname=Linux;processor=aarch64, linux/
amd64/libzstd-jni.so;osname=Linux;processor=amd64, linux/arm/libzstd-
jni.so;osname=Linux;processor=arm, linux/i386/libzstd-jni.so;osname=L
inux;processor=i386, linux/mips64/libzstd-jni.so;osname=Linux;process
or=mips64, linux/ppc64/libzstd-jni.so;osname=Linux;processor=ppc64, l
inux/ppc64le/libzstd-jni.so;osname=Linux;processor=ppc64le, linux/s39
0x/libzstd-jni.so;osname=Linux;processor=s390x, win/amd64/libzstd-jni
.dll;osname=Win32;processor=amd64, win/x86/libzstd-jni.dll;osname=Win
32;processor=x86
Bundle-SymbolicName: com.github.luben.zstd-jni
Bundle-Vendor: com.github.luben
Bundle-Version: 1.4.9.1
Created-By: 1.8.0_275 (Debian)
Export-Package: com.github.luben.zstd;version="1.4.9.1",com.github.lub
en.zstd.util;version="1.4.9.1"
Implementation-Title: zstd-jni
Implementation-Vendor: com.github.luben
Implementation-Vendor-Id: com.github.luben
Implementation-Version: 1.4.9-1
Import-Package: org.osgi.framework;resolution:=optional
Private-Package: linux.amd64,linux.i386,linux.aarch64,linux.arm,linux.
ppc64,linux.ppc64le,linux.mips64,linux.s390x,aix.ppc64,darwin.x86_64,
darwin.aarch64,win.amd64,win.x86,freebsd.amd64,freebsd.i386
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.8))"
Specification-Title: zstd-jni
Specification-Vendor: com.github.luben
Specification-Version: 1.4.9-1
Tool: Bnd-4.0.0.201805111645

Found in path(s):

* /opt/cola/permits/1183892379_1627494642.79/0/zstd-jni-1-4-9-1-1-jar/META-INF/MANIFEST.MF

1.538 spring-security-saml 1.0.0.RELEASE

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1.539 jackson-annotations 2.9.2

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1.540 logging 1.1

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```
* /opt/ws_local/PERMITS_SQL/1019255954_1594204863.08/0/logging-1-1-sources-
jar/eu/freme/bsservices/filters/logging/RequestWrapper.java
* /opt/ws_local/PERMITS_SQL/1019255954_1594204863.08/0/logging-1-1-sources-
jar/eu/freme/bsservices/filters/logging/TeePrintWriter.java
* /opt/ws_local/PERMITS_SQL/1019255954_1594204863.08/0/logging-1-1-sources-
jar/eu/freme/bsservices/filters/logging/ResponseWrapper.java
* /opt/ws_local/PERMITS_SQL/1019255954_1594204863.08/0/logging-1-1-sources-
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1.541 aws-sdk-for-java-models 1.11.555

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1.542 d3-chord 1.0.4

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1.543 jersey-servlet 1.19

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1.545 neko-html 1.9.12

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```
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jar/org/cyberneko/html/HTMLAugmentations.java
* /opt/ws_local/PERMITS_SQL/1018977113_1591906557.77/0/nekohtml-1-9-12-sources-
jar/org/cyberneko/html/filters/NamespaceBinder.java
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* /opt/ws_local/PERMITS_SQL/1018977113_1591906557.77/0/nekohtml-1-9-12-sources-
jar/org/cyberneko/html/ObjectFactory.java
```

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```
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```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1018977113_1591906557.77/0/nekohtml-1-9-12-sources-
```

jar/org/cyberneko/html/Version.java

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* /opt/ws_local/PERMITS_SQL/1018977113_1591906557.77/0/neohtml-1-9-12-sources-jar/org/cyberneko/html/SecuritySupport.java

* /opt/ws_local/PERMITS_SQL/1018977113_1591906557.77/0/neohtml-1-9-12-sources-jar/org/cyberneko/html/SecuritySupport12.java

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* /opt/ws_local/PERMITS_SQL/1018977113_1591906557.77/0/neohtml-1-9-12-sources-jar/sample/Minimal.java

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* /opt/ws_local/PERMITS_SQL/1018977113_1591906557.77/0/nekohtml-1-9-12-sources-jar/org/cyberneko/html/parsers/DOMFragmentParser.java

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* /opt/ws_local/PERMITS_SQL/1018977113_1591906557.77/0/nekohtml-1-9-12-sources-jar/org/cyberneko/html/HTMLScanner.java

* /opt/ws_local/PERMITS_SQL/1018977113_1591906557.77/0/nekohtml-1-9-12-sources-jar/sample/RemoveElements.java

* /opt/ws_local/PERMITS_SQL/1018977113_1591906557.77/0/nekohtml-1-9-12-sources-jar/org/cyberneko/html/HTMLComponent.java

* /opt/ws_local/PERMITS_SQL/1018977113_1591906557.77/0/nekohtml-1-9-12-sources-jar/sample/TestHTMLDOMFragment.java

* /opt/ws_local/PERMITS_SQL/1018977113_1591906557.77/0/nekohtml-1-9-12-sources-

jar/org/cyberneko/html/HTMLTagBalancer.java
* /opt/ws_local/PERMITS_SQL/1018977113_1591906557.77/0/nekohtml-1-9-12-sources-
jar/org/cyberneko/html/filters/Identity.java
* /opt/ws_local/PERMITS_SQL/1018977113_1591906557.77/0/nekohtml-1-9-12-sources-
jar/org/cyberneko/html/filters/ElementRemover.java
* /opt/ws_local/PERMITS_SQL/1018977113_1591906557.77/0/nekohtml-1-9-12-sources-
jar/org/cyberneko/html/HTMLEntities.java
* /opt/ws_local/PERMITS_SQL/1018977113_1591906557.77/0/nekohtml-1-9-12-sources-
jar/org/cyberneko/html/HTMLConfiguration.java
* /opt/ws_local/PERMITS_SQL/1018977113_1591906557.77/0/nekohtml-1-9-12-sources-
jar/org/cyberneko/html/HTMLEventInfo.java
* /opt/ws_local/PERMITS_SQL/1018977113_1591906557.77/0/nekohtml-1-9-12-sources-
jar/org/cyberneko/html/HTMLErrorReporter.java
* /opt/ws_local/PERMITS_SQL/1018977113_1591906557.77/0/nekohtml-1-9-12-sources-
jar/org/cyberneko/html/HTMLTagBalancingListener.java
* /opt/ws_local/PERMITS_SQL/1018977113_1591906557.77/0/nekohtml-1-9-12-sources-
jar/org/cyberneko/html/HTMLElements.java
* /opt/ws_local/PERMITS_SQL/1018977113_1591906557.77/0/nekohtml-1-9-12-sources-
jar/org/cyberneko/html/filters/Writer.java
* /opt/ws_local/PERMITS_SQL/1018977113_1591906557.77/0/nekohtml-1-9-12-sources-
jar/org/cyberneko/html/filters/DefaultFilter.java
* /opt/ws_local/PERMITS_SQL/1018977113_1591906557.77/0/nekohtml-1-9-12-sources-jar/sample/Script.java
* /opt/ws_local/PERMITS_SQL/1018977113_1591906557.77/0/nekohtml-1-9-12-sources-
jar/org/cyberneko/html/parsers/SAXParser.java
* /opt/ws_local/PERMITS_SQL/1018977113_1591906557.77/0/nekohtml-1-9-12-sources-
jar/sample/HTMLSAXParser.java
* /opt/ws_local/PERMITS_SQL/1018977113_1591906557.77/0/nekohtml-1-9-12-sources-
jar/sample/TestHTMLDOM.java
* /opt/ws_local/PERMITS_SQL/1018977113_1591906557.77/0/nekohtml-1-9-12-sources-
jar/org/cyberneko/html/parsers/DOMParser.java

1.546 ngx-cookie-service 2.4.0

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1.547 jackson-databind 2.6.6

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1.548 fast-deep-equal v3.1.3

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1.550 zipkin-reporter-brave 2.16.3

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1.551 xmlschema 1.4.7

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1.552 inflight 1.0.6

1.553 d3-scale 1.0.7

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1.554 injectionapi 2.2.0-b21

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* /opt/cola/permits/1131856309_1613029689.11/0/javax-inject-2-2-0-b21-sources-jar/javax/inject/Provider.java

* /opt/cola/permits/1131856309_1613029689.11/0/javax-inject-2-2-0-b21-sources-jar/javax/inject/package-info.java

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* /opt/cola/permits/1131856309_1613029689.11/0/javax-inject-2-2-0-b21-sources-jar/javax/inject/Qualifier.java

1.555 web-services-metadata 1.1.2

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1.556 jaxen 1.1.3

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1.557 jackson-databind 2.12.4

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1.558 curator-client 4.2.0

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1.559 jackson-databind 2.8.10

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1.560 woodstox 3.2.9

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1.561 stax-api 1.0.1

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1.562 apache-commons-beanutils 1.9.3

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* /opt/cola/permits/1017018311_1609888527.82/0/plexus-utils-1-5-6-javadoc-1-jar/org/codehaus/plexus/util/cli/WriterStreamConsumer.html
* /opt/cola/permits/1017018311_1609888527.82/0/plexus-utils-1-5-6-javadoc-1-jar/org/codehaus/plexus/util/package-summary.html
* /opt/cola/permits/1017018311_1609888527.82/0/plexus-utils-1-5-6-javadoc-1-jar/org/codehaus/plexus/util/interpolation/ObjectBasedValueSource.html
* /opt/cola/permits/1017018311_1609888527.82/0/plexus-utils-1-5-6-javadoc-1-jar/org/codehaus/plexus/util/cli/shell/BourneShell.html
* /opt/cola/permits/1017018311_1609888527.82/0/plexus-utils-1-5-6-javadoc-1-jar/org/codehaus/plexus/util/class-use/StringInputStream.html
* /opt/cola/permits/1017018311_1609888527.82/0/plexus-utils-1-5-6-javadoc-1-jar/org/codehaus/plexus/util/cli/EnhancedStringTokenizer.html
* /opt/cola/permits/1017018311_1609888527.82/0/plexus-utils-1-5-6-javadoc-1-jar/org/codehaus/plexus/util/dag/CycleDetectedException.html
* /opt/cola/permits/1017018311_1609888527.82/0/plexus-utils-1-5-6-javadoc-1-jar/serialized-form.html
* /opt/cola/permits/1017018311_1609888527.82/0/plexus-utils-1-5-6-javadoc-1-jar/org/codehaus/plexus/util/reflection/package-tree.html
* /opt/cola/permits/1017018311_1609888527.82/0/plexus-utils-1-5-6-javadoc-1-jar/org/codehaus/plexus/util/xml/XmlReaderException.html
* /opt/cola/permits/1017018311_1609888527.82/0/plexus-utils-1-5-6-javadoc-1-jar/org/codehaus/plexus/util/dag/TopologicalSorter.html
* /opt/cola/permits/1017018311_1609888527.82/0/plexus-utils-1-5-6-javadoc-1-jar/org/codehaus/plexus/util/cli/shell/class-use/CmdShell.html
* /opt/cola/permits/1017018311_1609888527.82/0/plexus-utils-1-5-6-javadoc-1-jar/org/codehaus/plexus/util/xml/class-use/Xpp3Dom.html
* /opt/cola/permits/1017018311_1609888527.82/0/plexus-utils-1-5-6-javadoc-1-jar/org/codehaus/plexus/util/dag/class-use/DAG.html
* /opt/cola/permits/1017018311_1609888527.82/0/plexus-utils-1-5-6-javadoc-1-jar/org/codehaus/plexus/util/DirectoryScanner.html

* /opt/cola/permits/1017018311_1609888527.82/0/plexus-utils-1-5-6-javadoc-1-jar/org/codehaus/plexus/util/cli/class-use/StreamConsumer.html
* /opt/cola/permits/1017018311_1609888527.82/0/plexus-utils-1-5-6-javadoc-1-jar/org/codehaus/plexus/util/cli/class-use/CommandLine.Argument.html
* /opt/cola/permits/1017018311_1609888527.82/0/plexus-utils-1-5-6-javadoc-1-jar/org/codehaus/plexus/util/InterpolationFilterReader.html
* /opt/cola/permits/1017018311_1609888527.82/0/plexus-utils-1-5-6-javadoc-1-jar/org/codehaus/plexus/util/interpolation/class-use/InterpolatorFilterReader.html
* /opt/cola/permits/1017018311_1609888527.82/0/plexus-utils-1-5-6-javadoc-1-jar/org/codehaus/plexus/util/cli/CommandLine.Marker.html
* /opt/cola/permits/1017018311_1609888527.82/0/plexus-utils-1-5-6-javadoc-1-jar/org/codehaus/plexus/util/interpolation/InterpolatorFilterReader.html
* /opt/cola/permits/1017018311_1609888527.82/0/plexus-utils-1-5-6-javadoc-1-jar/org/codehaus/plexus/util/cli/CommandLineUtils.StringStreamConsumer.html
No license file was found, but licenses were detected in source scan.

-classpath 'M:/maven/plexus/plexus-utils/target/checkout/target/classes;U:/Jeder/Maven-2/org/codehaus/plexus/plexus-interpolation/1.0/plexus-interpolation-1.0.jar'
-encoding
'ISO-8859-1'
-protected
-sourcepath
'M:/maven/plexus/plexus-utils/target/checkout/src/main/java'
-author
-bottom
'Copyright © 2001-2008 Codehaus. All Rights Reserved.'
-charset
'ISO-8859-1'
-d
'M:/maven/plexus/plexus-utils/target/checkout/target/apidocs'
-doctitle
'Plexus Common Utilities 1.5.6 API'
-link
'http://java.sun.com/javase/6/docs/api'
-use
-version
-windowtitle
'Plexus Common Utilities 1.5.6 API'

Found in path(s):

* /opt/cola/permits/1017018311_1609888527.82/0/plexus-utils-1-5-6-javadoc-1-jar/options
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Found in path(s):

* /opt/cola/permits/1017018311_1609888527.82/0/plexus-utils-1-5-6-javadoc-1-

1.566 inherits 2.0.3

1.567 brave-instrumentation-http-adapters

5.13.3

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1.568 aws-java-sdk-for-aws-sts 1.11.508

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1.569 safe-buffer 5.1.2

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1.570 junit-platform-junit-platform-engine

1.7.2

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```
import java.io.File
import java.net.URI

data class License(val name: String, val url: URI, val headerFile: File)
    Apache License
    =====

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1.571 es6-promise 3.0.2

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1.572 apache-poi 3.7

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The Apache POI is pleased to announce the release of POI 3.7.

See the downloads page for binary and source distributions: <http://poi.apache.org/download.html>

Release Notes -- Apache POI -- Version 3.7

Apache POI is an open source Java library for working with Microsoft Office documents.
POI 3.7 is an incremental feature release based on the earlier 3.6 release.

The most notable changes since POI 3.6 are:

OOXML

- * support for reading aes-encrypted/write-protected ooxml files
- * support Java 1.5 in auto-generated xmlbeans for ooxml schemas

Spreadsheet (Excel)

- * initial support for autofilters
- * support for data validation for ooxml format
- * initial support for themes for ooxml format
- * added implementation for new functions: RANDBETWEEN, POISSON, SUBTOTAL, TEXT, TRUNC
- * support evaluation of indirect defined names in INDIRECT
- * numerous fixes and performance optimizations in the Formula Evaluation module
- * ability to add, modify and remove series from HSSF Charts
- * numerous improvements in the cell data formatter (handling more formatting rules, better color detection, allow overriding of default locale)
- * more examples including a rich "spreadsheet to HTML" converter

Document (Word)

- * initial support for the HWPF revision marks authors list
- * support for border codes in HWPF
- * support for processing of symbols in HWPF
- * support sections in Word 6 and Word 95 files
- * improved reading of auto-saved ("complex") documents in HWPF
- * improved support for manipulation of tables and paragraphs in XWPF

SlideShow (PowerPoint)

- * allow editing workbooks embedded into HSLF slide shows

Text Extraction

- * support for text extraction from XSLF tables
- * add PublisherTextExtractor support to extractorfactory
- * support attachments as embedded documents within the new OutlookTextExtractor
- * new event based XSSF text extractor (XSSFEventBasedExcelExtractor)
- * make it easier to tell which content types each POIXMLTextExtractor handles
- * paragraph level as well as whole-file text extraction for word 6/95 files

- * ...and much much more: code cleanup, many bug fixes and performance improvements

Contributors

The following people have contributed to this release by submitting bug reports or by participating in the issue resolution process (in strict alphabetical order).

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Thank you all very much! Contributions are always welcome, come join the project.

Release Contents

This release comes in two forms:

- pre-built binaries containing compiled versions of all Apache POI components and documentation (poi-bin-3.7-20101029.zip or poi-bin-3.7-20101029.tar.gz)
- source archive you can build POI from (poi-src-3.7-20101029.zip or poi-src-3.7-20101029.tar.gz)

Pre-built versions of all POI components are also available in the central Maven repository under Group ID "org.apache.poi" and Version "3.7"

All release artifacts are accompanied by MD5 checksums and a PGP signatures that you can use to verify the authenticity of your download.

The public key used for the PGP signature can be found at http://svn.apache.org/repos/asf/poi/tags/REL_3_7/KEYS

About Apache POI

Apache POI is well-known in the Java field as a library for reading and writing Microsoft Office file formats, such as Excel, PowerPoint, Visio and Word. Since POI 3.5, the new OOXML (Office Open XML) formats introduced in Office 2007 have been supported.

For more information, visit <http://poi.apache.org/>

For the Apache POI Team
Yegor Kozlov

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1.573 aws-sdk-for-java-models 1.11.508

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1.575 d3-shape v1.3.7

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1.576 swagger-models 1.5.20

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package io.swagger.models;
```

```
import com.fasterxml.jackson.annotation.JsonAnyGetter;
```

```
import com.fasterxml.jackson.annotation.JsonAnySetter;
```

```
import java.util.LinkedHashMap;
import java.util.Map;

public class Info {
    private String description;
    private String version;
    private String title;
    private String termsOfService;
    private Contact contact;
    private License license;
    private Map<String, Object> vendorExtensions = new LinkedHashMap<String, Object>();

    public Info version(String version) {
        this.setVersion(version);
        return this;
    }

    public Info title(String title) {
        this.setTitle(title);
        return this;
    }

    public Info description(String description) {
        this.setDescription(description);
        return this;
    }

    public Info termsOfService(String termsOfService) {
        this.setTermsOfService(termsOfService);
        return this;
    }

    public Info contact(Contact contact) {
        this.setContact(contact);
        return this;
    }

    public Info license(License license) {
        this.setLicense(license);
        return this;
    }

    public String getDescription() {
        return description;
    }

    public void setDescription(String description) {
```

```
        this.description = description;
    }

    public String getVersion() {
        return version;
    }

    public void setVersion(String version) {
        this.version = version;
    }

    public String getTitle() {
        return title;
    }

    public void setTitle(String title) {
        this.title = title;
    }

    public String getTermsOfService() {
        return termsOfService;
    }

    public void setTermsOfService(String termsOfService) {
        this.termsOfService = termsOfService;
    }

    public Contact getContact() {
        return contact;
    }

    public void setContact(Contact contact) {
        this.contact = contact;
    }

    public License getLicense() {
        return license;
    }

    public void setLicense(License license) {
        this.license = license;
    }

    public Info mergeWith(Info info) {
        if (info != null) {
            if (this.description == null) {
                this.description = info.description;
            }
        }
    }
}
```



```

    if (this.version == null) {
        this.version = info.version;
    }
    if (this.title == null) {
        this.title = info.title;
    }
    if (this.termsOfService == null) {
        this.termsOfService = info.termsOfService;
    }
    if (this.contact == null) {
        this.contact = info.contact;
    }
    if (this.license == null) {
        this.license = info.license;
    }
    if (this.vendorExtensions == null) {
        this.vendorExtensions = info.vendorExtensions;
    }
}
return this;
}

```

@JsonAnyGetter

```

public Map<String, Object> getVendorExtensions() {
    return vendorExtensions;
}

```

@JsonAnySetter

```

public void setVendorExtension(String name, Object value) {
    if (name.startsWith("x-")) {
        vendorExtensions.put(name, value);
    }
}

```

```

public void setVendorExtensions(Map<String, Object> vendorExtensions) {
    this.vendorExtensions = vendorExtensions;
}

```

@Override

```

public int hashCode() {
    final int prime = 31;
    int result = 1;
    result = prime * result + ((contact == null) ? 0 : contact.hashCode());
    result = prime * result
        + ((description == null) ? 0 : description.hashCode());
    result = prime * result + ((license == null) ? 0 : license.hashCode());
    result = prime * result
        + ((termsOfService == null) ? 0 : termsOfService.hashCode());
}

```

```

result = prime * result + ((title == null) ? 0 : title.hashCode());
result = prime * result
    + ((vendorExtensions == null) ? 0 : vendorExtensions.hashCode());
result = prime * result + ((version == null) ? 0 : version.hashCode());
return result;
}

```

@Override

```

public boolean equals(Object obj) {
    if (this == obj) {
        return true;
    }
    if (obj == null) {
        return false;
    }
    if (getClass() != obj.getClass()) {
        return false;
    }
    Info other = (Info) obj;
    if (contact == null) {
        if (other.contact != null) {
            return false;
        }
    } else if (!contact.equals(other.contact)) {
        return false;
    }
    if (description == null) {
        if (other.description != null) {
            return false;
        }
    } else if (!description.equals(other.description)) {
        return false;
    }
    if (license == null) {
        if (other.license != null) {
            return false;
        }
    } else if (!license.equals(other.license)) {
        return false;
    }
    if (termsOfService == null) {
        if (other.termsOfService != null) {
            return false;
        }
    } else if (!termsOfService.equals(other.termsOfService)) {
        return false;
    }
    if (title == null) {

```

```

        if (other.title != null) {
            return false;
        }
    } else if (!title.equals(other.title)) {
        return false;
    }
    if (vendorExtensions == null) {
        if (other.vendorExtensions != null) {
            return false;
        }
    } else if (!vendorExtensions.equals(other.vendorExtensions)) {
        return false;
    }
    if (version == null) {
        if (other.version != null) {
            return false;
        }
    } else if (!version.equals(other.version)) {
        return false;
    }
    return true;
}
}

```

Found in path(s):

* /opt/cola/permits/1131003088_1612875320.96/0/swagger-models-1-5-20-sources-1-jar/io/swagger/models/Info.java

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```
package io.swagger.models;
```

```
import com.fasterxml.jackson.annotation.JsonAnyGetter;
import com.fasterxml.jackson.annotation.JsonAnySetter;
```

```
import java.util.LinkedHashMap;
import java.util.Map;
```

```
public class License {
    private Map<String, Object> vendorExtensions = new LinkedHashMap<String, Object>();
    private String name;
    private String url;

    public License name(String name) {
        setName(name);
        return this;
    }

    public License url(String url) {

```

```

        setUrl(url);
        return this;
    }

    public String getName() {
        return name;
    }

    public void setName(String name) {
        this.name = name;
    }

    public String getUrl() {
        return url;
    }

    public void setUrl(String url) {
        this.url = url;
    }

    @JsonAnyGetter
    public Map<String, Object> getVendorExtensions() {
        return vendorExtensions;
    }

    @JsonAnySetter
    public void setVendorExtension(String name, Object value) {
        if (name.startsWith("x-")) {
            vendorExtensions.put(name, value);
        }
    }

    public void setVendorExtensions(Map<String, Object> vendorExtensions) {
        this.vendorExtensions = vendorExtensions;
    }

    @Override
    public int hashCode() {
        final int prime = 31;
        int result = 1;
        result = prime * result + ((name == null) ? 0 : name.hashCode());
        result = prime * result + ((url == null) ? 0 : url.hashCode());
        result = prime * result + ((vendorExtensions == null) ? 0 : vendorExtensions.hashCode());
        return result;
    }

    @Override
    public boolean equals(Object obj) {

```

```

if (this == obj) {
    return true;
}
if (obj == null) {
    return false;
}
if (getClass() != obj.getClass()) {
    return false;
}
License other = (License) obj;
if (name == null) {
    if (other.name != null) {
        return false;
    }
} else if (!name.equals(other.name)) {
    return false;
}
if (url == null) {
    if (other.url != null) {
        return false;
    }
} else if (!url.equals(other.url)) {
    return false;
}
if (vendorExtensions == null) {
    if (other.vendorExtensions != null) {
        return false;
    }
} else if (!vendorExtensions.equals(other.vendorExtensions)) {
    return false;
}
return true;
}
}

```

Found in path(s):

* /opt/cola/permits/1131003088_1612875320.96/0/swagger-models-1-5-20-sources-1-jar/io/swagger/models/License.java

1.577 jackson-databind 2.9.2

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Jackson JSON processor

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It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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1.578 node-concat-map 0.0.1

1.579 setimmediate 1.0.5

1.579.1 Available under license :

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1.580 jackson-dataformats-binary 2.6.7

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Overview

This is a multi-module umbrella project for [Jackson](../../jackson) standard binary dataformat backends.

Currently included are:

- * [Avro](avro/)
- * [CBOR](cbor/)
- * [Protobuf](protobuf/)
- * [Smile](smile/)

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Status

[![Build Status](https://travis-ci.org/FasterXML/jackson-dataformats-binary.svg)](https://travis-ci.org/FasterXML/jackson-dataformats-binary)

More

See [Wiki](../../wiki) for more information (javadocs).

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* /opt/cola/permits/1239450720_1639149784.45/0/jackson-dataformats-binary-jackson-dataformats-binary-2-8-0-tar-gz/jackson-dataformats-binary-jackson-dataformats-binary-2.8.0/README.md

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* /opt/cola/permits/1239450720_1639149784.45/0/jackson-dataformats-binary-jackson-dataformats-binary-2-8-0-tar-gz/jackson-dataformats-binary-jackson-dataformats-binary-2.8.0/avro/README.md

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com.fasterxml.jackson.dataformat.protobuf.ProtobufFactory

Found in path(s):

```
* /opt/cola/permits/1239450720_1639149784.45/0/jackson-dataformats-binary-jackson-dataformats-binary-2-8-0-
tar-gz/jackson-dataformats-binary-jackson-dataformats-binary-2.8.0/protobuf/src/main/resources/META-
INF/services/com.fasterxml.jackson.core.JsonFactory
```

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```

com.fasterxml.jackson.dataformat.smile.SmileFactory

Found in path(s):

```
* /opt/cola/permits/1239450720_1639149784.45/0/jackson-dataformats-binary-jackson-dataformats-binary-2-8-0-
tar-gz/jackson-dataformats-binary-jackson-dataformats-binary-2.8.0/smile/src/main/resources/META-
INF/services/com.fasterxml.jackson.core.JsonFactory
```


1.581 arguments-extended 0.0.3

1.581.1 Available under license :

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1.582 process-nextick-args 2.0.0

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1.583 checker-qual 2.8.1

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1.584 mysql-connector-j 5.1.49

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1.587 d3-scale-chromatic 1.5.0

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1.588 hibernate-orm 5.4.32.Final

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```
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# However, Hibernate ORM builds run on GitHub actions regularly
# to check that it still works and can be used in GitHub forks.
# See https://docs.github.com/en/free-pro-team@latest/actions
# for more information about GitHub actions.
```

```
name: Hibernate ORM build
```

```
on:
```

```
push:
```

```
branches:
```

```
- '5.4'
```

```
pull_request:
```

```
branches:
```

```
- '5.4'
```

```
jobs:
```

```
build:
```

```
name: Java 8
```

```
runs-on: ubuntu-latest
```

```
# We want to know the test results of all matrix entries
```

```
continue-on-error: true
```

```

strategy:
  fail-fast: false
matrix:
  # When GitHub Actions supports it: https://github.com/actions/toolkit/issues/399
  # We will use the experimental flag as indicator whether a failure should cause a workflow failure
  include:
    - rdbms: h2
      experimental: false
  #   - rdbms: derby
  #     experimental: true
  #   - rdbms: mariadb
  #     experimental: true
    - rdbms: postgresql
      experimental: true
  #   - rdbms: oracle
  #     experimental: true
  #   - rdbms: db2
  #     experimental: true
  #   - rdbms: mssql
  #     experimental: true
  steps:
    - uses: actions/checkout@v2
    - name: Reclaim Disk Space
      run: .github/ci-prerequisites.sh
    - name: Set up Java 8
      uses: actions/setup-java@v1
      with:
        java-version: 1.8
    - name: Get year/month for cache key
      id: get-date
      run: |
        echo "::set-output name=yearmonth::$(/bin/date -u "+%Y-%m")"
      shell: bash
    - name: Cache Maven local repository
      uses: actions/cache@v2
      id: cache-maven
      with:
        path: |
          ~/.m2/repository
          ~/.gradle/caches/
          ~/.gradle/wrapper/
        # refresh cache every month to avoid unlimited growth
        key: maven-localrepo-${{ steps.get-date.outputs.yearmonth }}
    - name: Run build script
      env:
        RDBMS: ${ matrix.rdbms }
      run: ./ci/build-github.sh
      shell: bash

```

- name: Upload test reports (if Gradle failed)
 - uses: actions/upload-artifact@v2
 - if: failure()
 - with:
 - name: test-reports-java8-\${{ matrix.rdbms }}
 - path: |
 - ./**/target/reports/tests/
 - ./**/target/reports/checkstyle/
- name: Omit produced artifacts from build cache
 - run: ./ci/before-cache.sh

build11:

- name: Java 11
- runs-on: ubuntu-latest
- # We want to know the test results of all matrix entries
- continue-on-error: true
- steps:
 - uses: actions/checkout@v2
 - name: Set up Java 11
 - uses: actions/setup-java@v1
 - with:
 - java-version: 11
 - name: Get year/month for cache key
 - id: get-date
 - run: |
 - echo "::set-output name=yearmonth::\$(/bin/date -u "+%Y-%m")"
 - shell: bash
 - name: Cache Maven local repository
 - uses: actions/cache@v2
 - id: cache-maven
 - with:
 - path: |
 - ~/.m2/repository
 - ~/.gradle/caches/
 - ~/.gradle/wrapper/
 - # refresh cache every month to avoid unlimited growth
 - key: maven-localrepo-\${{ steps.get-date.outputs.yearmonth }}
 - name: Run build script
 - run: ./ci/build-github.sh
 - shell: bash
 - name: Upload test reports (if Gradle failed)
 - uses: actions/upload-artifact@v2
 - if: failure()
 - with:
 - name: test-reports-java11
 - path: |
 - ./**/target/reports/tests/
 - ./**/target/reports/checkstyle/
 - name: Omit produced artifacts from build cache

run: ./ci/before-cache.sh

This file is part of Hibernate Spatial, an extension to the hibernate ORM solution for spatial (geographic) data.

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1.589 d3-color 1.4.1

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1.590 d3-ease 1.0.3

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1.591 is-wsl 1.1.0

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1.592 json-path 2.5.0

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- * /opt/cola/permits/1241104418_1639450906.6/0/json-path-2-5-0-sources-jar/com/jayway/restassured/mapper/factory/DefaultGsonObjectMapperFactory.java
- * /opt/cola/permits/1241104418_1639450906.6/0/json-path-2-5-0-sources-jar/com/jayway/restassured/path/json/config/JsonParserType.java
- * /opt/cola/permits/1241104418_1639450906.6/0/json-path-2-5-0-sources-jar/com/jayway/restassured/internal/path/json/JSONAssertion.groovy
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- * /opt/cola/permits/1241104418_1639450906.6/0/json-path-2-5-0-sources-jar/com/jayway/restassured/internal/path/json/mapping/JsonPathGsonObjectDeserializer.groovy
- * /opt/cola/permits/1241104418_1639450906.6/0/json-path-2-5-0-sources-jar/com/jayway/restassured/path/json/config/JsonPathConfig.java
- * /opt/cola/permits/1241104418_1639450906.6/0/json-path-2-5-0-sources-jar/com/jayway/restassured/internal/path/json/mapping/JsonObjectDeserializer.groovy
- * /opt/cola/permits/1241104418_1639450906.6/0/json-path-2-5-0-sources-jar/com/jayway/restassured/path/json/exception/JsonPathException.java
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- * /opt/cola/permits/1241104418_1639450906.6/0/json-path-2-5-0-sources-jar/com/jayway/restassured/internal/path/json/mapping/JsonPathJackson2ObjectDeserializer.groovy
- * /opt/cola/permits/1241104418_1639450906.6/0/json-path-2-5-0-sources-jar/com/jayway/restassured/internal/path/json/mapping/JsonPathJackson1ObjectDeserializer.groovy
- * /opt/cola/permits/1241104418_1639450906.6/0/json-path-2-5-0-sources-jar/com/jayway/restassured/mapper/factory/Jackson2ObjectMapperFactory.java
- * /opt/cola/permits/1241104418_1639450906.6/0/json-path-2-5-0-sources-jar/com/jayway/restassured/internal/path/json/JsonPrettifier.groovy
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- * /opt/cola/permits/1241104418_1639450906.6/0/json-path-2-5-0-sources-jar/com/jayway/restassured/mapper/factory/Jackson1ObjectMapperFactory.java
- * /opt/cola/permits/1241104418_1639450906.6/0/json-path-2-5-0-sources-jar/com/jayway/restassured/mapper/factory/DefaultJackson1ObjectMapperFactory.java
- * /opt/cola/permits/1241104418_1639450906.6/0/json-path-2-5-0-sources-jar/com/jayway/restassured/mapper/factory/DefaultJackson2ObjectMapperFactory.java
- * /opt/cola/permits/1241104418_1639450906.6/0/json-path-2-5-0-sources-jar/com/jayway/restassured/path/json/mapping/JsonPathObjectDeserializer.java

1.593 nimbus-jose-jwt 9.16-preview.1

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* /opt/cola/permits/1239450665_1639076614.68/0/nimbus-jose-jwt-9-16-preview-1-jar/META-INF/maven/net.minidev/json-smart/pom.xml

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Manifest-Version: 1.0

Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0.txt>

Build-Date: \${timestamp}

Bundle-SymbolicName: com.nimbusds.nimbus-jose-jwt

Build-Number: \${buildNumber}

Built-By: vd

Bnd-LastModified: 1633777726111

Specification-Title: Nimbus JOSE+JWT

Implementation-Vendor-Id: com.nimbusds

Bundle-DocURL: <https://connect2id.com>

Import-Package: com.google.crypto.tink.subtle;resolution:=optional,java

ax.crypto,javax.crypto.spec,javax.net.ssl,net.jcip.annotations,org.bouncycastle.asn1;version="[1.68,2)";resolution:=optional,org.bouncycastle.asn1.pkcs;version="[1.68,2)";resolution:=optional,org.bouncycastle.asn1.x509;version="[1.68,2)";resolution:=optional,org.bouncycastle.cert;version="[1.68,2)";resolution:=optional,org.bouncycastle.cert.jcajce;version="[1.68,2)";resolution:=optional,org.bouncycastle.crypto;version="[1.68,2)";resolution:=optional,org.bouncycastle.crypto.engines;version="[1.68,2)";resolution:=optional,org.bouncycastle.crypto.modes;version="[1.68,2)";resolution:=optional,org.bouncycastle.crypto.params;version="[1.68,2)";resolution:=optional,org.bouncycastle.jcajce.provider;resolution:=optional,org.bouncycastle.jce.provider;version="[1.68,2)";resolution:=optional,org.bouncycastle.openssl;version="[1.68,2)";resolution:=optional,org.bouncycastle.openssl.jcajce;version="[1.68,2)";resolution:=optional,sun.reflect.generics.reflectiveObjects

Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.7))"

Export-Package: com.nimbusds.jose;uses="com.nimbusds.jose.jca,com.nimbusds.jose.jwk,com.nimbusds.jose.util,com.nimbusds.jwt,net.jcip.annotations";version="9.16.0",com.nimbusds.jose.crypto;uses="com.nimbusds.jose,com.nimbusds.jose.crypto.impl,com.nimbusds.jose.jwk,com.nimbusds.jose.util,javax.crypto,net.jcip.annotations";version="9.16.0",com.nimbusds.jose.crypto.bc;uses="org.bouncycastle.jcajce.provider,org.bouncycastle.jce.provider";version="9.16.0",com.nimbusds.jose.crypto.f

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Bundle-Name: Nimbus JOSE+JWT

Build-Tag: 9.16-preview.1

Implementation-Title: Nimbus JOSE+JWT

Bundle-Description: Java library for Javascript Object Signing and Encryption (JOSE) and JSON Web Tokens (JWT)

Automatic-Module-Name: com.nimbusds.jose.jwt

Implementation-Version: 9.16-preview.1

Specification-Vendor: Connect2id Ltd.

Bundle-ManifestVersion: 2

Bundle-Vendor: Connect2id Ltd.

Tool: Bnd-2.3.0.201405100607

Implementation-Vendor: Connect2id Ltd.

Bundle-Version: 9.16.0.preview_1

Created-By: Apache Maven Bundle Plugin

Build-Jdk: 1.8.0_292

Specification-Version: 9.16-preview.1

Implementation-URL: <https://bitbucket.org/connect2id/nimbus-jose-jwt>

Found in path(s):

* /opt/cola/permits/1239450665_1639076614.68/0/nimbus-jose-jwt-9-16-preview-1-jar/META-INF/MANIFEST.MF

1.594 @amplitude/ua-parser-js 0.7.24

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1.600 d3-geo 1.9.1

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```
* /opt/cola/permits/1239937914_1639251114.36/0/jackson-core-jackson-core-2-0-0-tar-gz/jackson-core-jackson-core-2.0.0/src/main/java/com/fasterxml/jackson/core/JsonFactory.java  
* /opt/cola/permits/1239937914_1639251114.36/0/jackson-core-jackson-core-2-0-0-tar-gz/jackson-core-jackson-core-2.0.0/src/main/java/com/fasterxml/jackson/core/Base64Variant.java  
* /opt/cola/permits/1239937914_1639251114.36/0/jackson-core-jackson-core-2-0-0-tar-gz/jackson-core-jackson-core-2.0.0/src/main/java/com/fasterxml/jackson/core/JsonParser.java  
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```

1.605 jmes-path-query-library 1.11.205

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1.607 apache-commons-beanutils 1.6

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1.611 dom4j-flexible-xml-framework-for-java

1.6.1

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/*

File: ConcurrentReaderHashMap

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History:

Date	Who	What
28oct1999	dl	Created
14dec1999	dl	jmm snapshot
19apr2000	dl	use barrierLock
12jan2001	dl	public release
17nov2001	dl	Minor tunings
20may2002	dl	BarrierLock can now be serialized.
09dec2002	dl	Fix interference checks.

*/

Found in path(s):

* /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/tree/ConcurrentReaderHashMap.java

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Found in path(s):

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* /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/util/AttributeHelper.java
* /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-
jar/org/dom4j/tree/FlyweightComment.java
* /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/io/JAXPHelper.java
* /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/bean/BeanAttributeList.java
* /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/tree/DefaultNamespace.java
* /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/dom/DOMText.java
* /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/util/UserDataElement.java
* /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-
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jar/org/dom4j/dom/DOMAttributeNodeMap.java
* /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/rule/NullAction.java
* /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/tree/DefaultProcessingInstruction.java
* /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/ElementHandler.java
* /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/dom/DOMComment.java
* /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/swing/XMLTableModel.java
* /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/util/NodeComparator.java
* /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/IllegalAddException.java
* /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/jaxb/JAXBReader.java
* /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/io/STAXEventReader.java
* /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/tree/DefaultDocumentType.java
* /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/swing/XMLTableColumnDefinition.java
* /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/rule/pattern/NodeTypePattern.java
* /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/tree/FlyweightEntity.java
* /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/io/DocumentInputSource.java
* /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/Text.java
* /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/io/SAXModifier.java
* /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/tree/ContentListFacade.java
* /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/dom/DOMProcessingInstruction.java
* /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/dom/DOMDocumentType.java
* /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/io/XPP3Reader.java
* /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/io/XMLWriter.java
* /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/bean/BeanMetaData.java
* /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/swing/XMLTableDefinition.java
* /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/InvalidXPathException.java
* /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/io/XPPReader.java
* /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/tree/NamespaceCache.java
* /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/tree/AbstractDocumentType.java
* /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/xpath/DefaultNamespaceContext.java
* /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/io/SAXContentHandler.java
* /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/util/XMLErrorHandler.java
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* /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/io/PruningElementStack.java
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* /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/tree/DefaultComment.java
* /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/tree/FlyweightCDATA.java
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* /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/tree/DefaultEntity.java
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* /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/Namespace.java

- * /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/tree/AbstractNode.java
- * /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/Node.java
- * /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/tree/FlyweightAttribute.java
- * /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/rule/Rule.java
- * /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/tree/AbstractCDATA.java
- * /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/rule/RuleManager.java
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- * /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/util/PerThreadSingleton.java
- * /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/bean/BeanDocumentFactory.java
- * /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/dom/DOMNamespace.java
- * /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/io/SAXReader.java
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- * /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/tree/AbstractElement.java
- * /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/datatype/DatatypeElement.java
- * /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/datatype/NamedTypeResolver.java
- * /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/datatype/DatatypeDocumentFactory.java
- * /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/tree/ElementIterator.java
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- * /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/tree/QNameCache.java
- * /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/DocumentHelper.java
- * /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/swing/DocumentTreeModel.java
- * /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/swing/LeafTreeNode.java
- * /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/io/DOMReader.java
- * /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/Attribute.java
- * /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/io/STAXEventWriter.java
- * /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/dtd/ExternalEntityDecl.java
- * /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/jaxb/JAXBRuntimeException.java
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- * /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/dom/DOMNodeHelper.java

* /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/tree/DefaultDocument.java
* /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/jaxb/JAXBObjectModifier.java
* /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/io/OutputFormat.java
* /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/NodeFilter.java
* /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/util/UserDataDocumentFactory.java
* /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/io/SAXModifyContentHandler.java
* /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/VisitorSupport.java
* /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/io/SAXEventRecorder.java
* /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/tree/SingleIterator.java
* /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/io/ElementModifier.java
* /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/DocumentType.java
* /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/tree/FilterIterator.java
* /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/rule/Pattern.java
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* /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/Entity.java
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* /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/DocumentFactory.java
* /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/swing/BranchTreeNode.java
* /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/tree/AbstractText.java
* /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/util/NonLazyDocumentFactory.java
* /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/dtd/InternalEntityDecl.java
* /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/ElementPath.java
* /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/Document.java
* /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/tree/AbstractCharacterData.java
* /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/datatype/InvalidSchemaException.java
* /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/Comment.java
* /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/CharacterData.java
* /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/xpp/ProxyXmlStartTag.java
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* /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/jaxb/JAXBModifier.java
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* /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/util/SimpleSingleton.java
* /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/io/DocumentSource.java
* /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/ProcessingInstruction.java
* /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/util/IndexedDocumentFactory.java
* /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/DocumentException.java
* /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/dom/DOMELEMENT.java
* /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/tree/NamespaceStack.java

* /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/datatype/DatatypeAttribute.java
* /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/tree/BackedList.java
* /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/tree/AbstractDocument.java
* /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/tree/ElementQNameIterator.java
* /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/util/ProxyDocumentFactory.java
* /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-jar/org/dom4j/XPathException.java

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1.613 oauth-2.0-sdk-with-openid-connect-extensions 6.14

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1.618 d3-fetch 1.2.0

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1.621 t-digest 3.2

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1.622 mockito 1.9.5

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- * /opt/cola/permits/1111601151_1613392701.34/0/asm-all-repackaged-2-2-0-b21-sources-1-jar/org/objectweb/asm/util/CheckFieldAdapter.java
- * /opt/cola/permits/1111601151_1613392701.34/0/asm-all-repackaged-2-2-0-b21-sources-1-jar/org/objectweb/asm/tree/AnnotationNode.java
- * /opt/cola/permits/1111601151_1613392701.34/0/asm-all-repackaged-2-2-0-b21-sources-1-jar/org/objectweb/asm/ClassAdapter.java
- * /opt/cola/permits/1111601151_1613392701.34/0/asm-all-repackaged-2-2-0-b21-sources-1-jar/org/objectweb/asm/util/ASMifierAbstractVisitor.java
- * /opt/cola/permits/1111601151_1613392701.34/0/asm-all-repackaged-2-2-0-b21-sources-1-jar/org/objectweb/asm/signature/SignatureVisitor.java
- * /opt/cola/permits/1111601151_1613392701.34/0/asm-all-repackaged-2-2-0-b21-sources-1-jar/org/objectweb/asm/tree/TryCatchBlockNode.java
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1.624 array-extended 0.0.11

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1.625 kerby-kerb-identity 1.0.1

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1.626 d3-array 1.2.1

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1.631 asm 5.0.4

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1.632 hadoop-yarn-common 3.3.1

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hadoop-common-project/hadoop-common/src/main/native/gtest/gtest-all.cc
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hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/libhdfspp/third_party/protobuf/cpp_helpers.h
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hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/resources/TERMINAL

uriparser2 (hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/libhdfspp/third_party/uriparser2)
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/native/container-executor/impl/utls/cJSON.[ch]

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asio-1.10.2 (hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/libhdfspp/third_party/asio-1.10.2)
rapidxml-1.13 (hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/libhdfspp/third_party/rapidxml-1.13)
tr2 (hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/libhdfspp/third_party/tr2)

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1.634 ognl 3.1.28

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```
/*@bgen(jjtree) Generated By:JJTree: Do not edit this line. src/java/ognl/ognl.jj */
/*@egen*///-----
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// THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
// DAMAGE.
//-----

/*
 * This file defines the syntax of OGNL, the Object-Graph Navigation Language. This
 * language was devised by Drew Davidson, who called it Key-Value Coding Language. Luke
 * Blanshard then made up the new name and reimplemented it using ANTLR, refining and
 * polishing the language a bit on the way. Drew maintained the system for a couple of
 * years; then Luke converted the ANTLR grammar to JavaCC, to eliminate the run-time
 * dependency on ANTLR.
 *
 * See package.html for a description of the language.
 */

options {
    // Parser options
    LOOKAHEAD      = 1;
    STATIC         = false;
    JAVA_UNICODE_ESCAPE = true;
    UNICODE_INPUT  = true;
}

PARSER_BEGIN(OgnlParser)

package ognl;

```

```

import java.math.*;

/**
 * OgnlParser is a JavaCC parser class; it translates OGNL expressions into abstract
 * syntax trees (ASTs) that can then be interpreted by the getValue and setValue methods.
 */
public class OgnlParser/*@bgen(jjtree)*/implements OgnlParserTreeConstants/*@egen*/
{/*@bgen(jjtree)*/
    protected JJTOgnlParserState jjtree = new JJTOgnlParserState();

    /*@egen*/
}

```

PARSER_END(OgnlParser)

```

/**
 * This is the top-level construct of OGNL.
 */
Node topLevelExpression() : {}
{
    expression() <EOF> { return jjtree.rootNode(); }
}

// sequence (level 14)
void expression() : {}
{
    assignmentExpression() ( " , "/*@bgen(jjtree) #Sequence( 2) */
        {
            ASTSequence jjtn001 = new ASTSequence(JJTSEQUENCE);
            boolean jjtc001 = true;
            jjtree.openNodeScope(jjtn001);
        }
        try {
/*@egen*/ assignmentExpression()/*@bgen(jjtree)*/
        } catch (Throwable jjte001) {
            if (jjtc001) {
                jjtree.clearNodeScope(jjtn001);
                jjtc001 = false;
            } else {
                jjtree.popNode();
            }
            if (jjte001 instanceof RuntimeException) {
                throw (RuntimeException)jjte001;
            }
            if (jjte001 instanceof ParseException) {

```

```

        throw (ParseException)jjte001;
    }
    throw (Error)jjte001;
} finally {
    if (jjtc001) {
        jjtree.closeNodeScope(jjtn001, 2);
    }
}
/*@egen*/    )*
}

// assignment expression (level 13)
void assignmentExpression() : {}
{
    conditionalTestExpression() [ "="/*@bgen(jjtree) #Assign( 2) */
        {
            ASTAssign jjtn001 = new ASTAssign(JJTASSIGN);
            boolean jjtc001 = true;
            jjtree.openNodeScope(jjtn001);
        }
        try {
/*@egen*/ assignmentExpression()/*@bgen(jjtree)*/
        } catch (Throwable jjte001) {
            if (jjtc001) {
                jjtree.clearNodeScope(jjtn001);
                jjtc001 = false;
            } else {
                jjtree.popNode();
            }
            if (jjte001 instanceof RuntimeException) {
                throw (RuntimeException)jjte001;
            }
            if (jjte001 instanceof ParseException) {
                throw (ParseException)jjte001;
            }
            throw (Error)jjte001;
        } finally {
            if (jjtc001) {
                jjtree.closeNodeScope(jjtn001, 2);
            }
        }
    ]
/*@egen*/
}

```

```

// conditional test (level 12)
void conditionalTestExpression() : {}
{
    logicalOrExpression()

```

```

[ "?" conditionalTestExpression() ":"/*@bgen(jjtree) #Test( 3) */
    {
        ASTTest jjtn001 = new ASTTest(JJTTEST);
        boolean jjtc001 = true;
        jjtree.openNodeScope(jjtn001);
    }
    try {
/*@egen*/ conditionalTestExpression()/*@bgen(jjtree)*/
        } catch (Throwable jjte001) {
            if (jjtc001) {
                jjtree.clearNodeScope(jjtn001);
                jjtc001 = false;
            } else {
                jjtree.popNode();
            }
            if (jjte001 instanceof RuntimeException) {
                throw (RuntimeException)jjte001;
            }
            if (jjte001 instanceof ParseException) {
                throw (ParseException)jjte001;
            }
            throw (Error)jjte001;
        } finally {
            if (jjtc001) {
                jjtree.closeNodeScope(jjtn001, 3);
            }
        }
/*@egen*/    ]
}

```

// logical or (||) (level 11)

```
void logicalOrExpression() : { }
```

```
{
```

```
    logicalAndExpression() ("||" | "or")/*@bgen(jjtree) #Or( 2) */
```

```
    {
```

```
        ASTOr jjtn001 = new ASTOr(JJTOR);
```

```
        boolean jjtc001 = true;
```

```
        jjtree.openNodeScope(jjtn001);
```

```
    }
```

```
    try {
```

```
/*@egen*/ logicalAndExpression()/*@bgen(jjtree)*/
```

```
    } catch (Throwable jjte001) {
```

```
        if (jjtc001) {
```

```
            jjtree.clearNodeScope(jjtn001);
```

```
            jjtc001 = false;
```

```
        } else {
```

```
            jjtree.popNode();
```

```
        }
```

```

        if (jjte001 instanceof RuntimeException) {
            throw (RuntimeException)jjte001;
        }
        if (jjte001 instanceof ParseException) {
            throw (ParseException)jjte001;
        }
        throw (Error)jjte001;
    } finally {
        if (jjtc001) {
            jjtree.closeNodeScope(jjtn001, 2);
        }
    }
}

/*@egen*/    )*
}

// logical and (&&) (level 10)
void logicalAndExpression() : {}
{
    inclusiveOrExpression(("&&" | "and")/*@bgen(jjtree) #And( 2) */
        {
            ASTAnd jjtn001 = new ASTAnd(JJTAND);
            boolean jjtc001 = true;
            jjtree.openNodeScope(jjtn001);
        }
        try {
/*@egen*/ inclusiveOrExpression()/*@bgen(jjtree)*/
            } catch (Throwable jjte001) {
                if (jjtc001) {
                    jjtree.clearNodeScope(jjtn001);
                    jjtc001 = false;
                } else {
                    jjtree.popNode();
                }
            }
            if (jjte001 instanceof RuntimeException) {
                throw (RuntimeException)jjte001;
            }
            if (jjte001 instanceof ParseException) {
                throw (ParseException)jjte001;
            }
            throw (Error)jjte001;
        } finally {
            if (jjtc001) {
                jjtree.closeNodeScope(jjtn001, 2);
            }
        }
    }
}

/*@egen*/    )*
}

```



```

// bitwise or non-short-circuiting or (|) (level 9)
void inclusiveOrExpression() : {}
{
    exclusiveOrExpression() (("|" | "bor")/*@bgen(jjtree) #BitOr( 2) */
        {
            ASTBitOr jjtn001 = new ASTBitOr(JJTBITOR);
            boolean jjtc001 = true;
            jjtree.openNodeScope(jjtn001);
        }
        try {
/*@egen*/ exclusiveOrExpression()/*@bgen(jjtree)*/
        } catch (Throwable jjte001) {
            if (jjtc001) {
                jjtree.clearNodeScope(jjtn001);
                jjtc001 = false;
            } else {
                jjtree.popNode();
            }
            if (jjte001 instanceof RuntimeException) {
                throw (RuntimeException)jjte001;
            }
            if (jjte001 instanceof ParseException) {
                throw (ParseException)jjte001;
            }
            throw (Error)jjte001;
        } finally {
            if (jjtc001) {
                jjtree.closeNodeScope(jjtn001, 2);
            }
        }
/*@egen*/    )
}

```

```

// exclusive or (^) (level 8)
void exclusiveOrExpression() : {}
{
    andExpression() (("^" | "xor")/*@bgen(jjtree) #Xor( 2) */
        {
            ASTXor jjtn001 = new ASTXor(JJTXOR);
            boolean jjtc001 = true;
            jjtree.openNodeScope(jjtn001);
        }
        try {
/*@egen*/ andExpression()/*@bgen(jjtree)*/
        } catch (Throwable jjte001) {

```

```

        if (jjtc001) {
            jjtree.clearNodeScope(jjtn001);
            jjtc001 = false;
        } else {
            jjtree.popNode();
        }
        if (jjte001 instanceof RuntimeException) {
            throw (RuntimeException)jjte001;
        }
        if (jjte001 instanceof ParseException) {
            throw (ParseException)jjte001;
        }
        throw (Error)jjte001;
    } finally {
        if (jjtc001) {
            jjtree.closeNodeScope(jjtn001, 2);
        }
    }
}

/*@egen*/      )*
}

// bitwise or non-short-circuiting and (&) (level 7)
void andExpression() : {}
{
    equalityExpression() ("&" | "band")/*@bgen(jjtree) #BitAnd( 2) */
    {
        ASTBitAnd jjtn001 = new ASTBitAnd(JJTBITAND);
        boolean jjtc001 = true;
        jjtree.openNodeScope(jjtn001);
    }
    try {
/*@egen*/ equalityExpression()/*@bgen(jjtree)*/
    } catch (Throwable jjte001) {
        if (jjtc001) {
            jjtree.clearNodeScope(jjtn001);
            jjtc001 = false;
        } else {
            jjtree.popNode();
        }
        if (jjte001 instanceof RuntimeException) {
            throw (RuntimeException)jjte001;
        }
        if (jjte001 instanceof ParseException) {
            throw (ParseException)jjte001;
        }
        throw (Error)jjte001;
    } finally {

```

```

        if (jjtc001) {
            jjtree.closeNodeScope(jjtn001, 2);
        }
    }
}

/*@egen*/
}

// equality/inequality (==/!=) (level 6)
void equalityExpression() : {}
{
    relationalExpression()
    (
        ("==" | "eq")/*@bgen(jjtree) #Eq( 2) */
        {
            ASTEq jjtn001 = new ASTEq(JJTEQ);
            boolean jjtc001 = true;
            jjtree.openNodeScope(jjtn001);
        }
        try {
/*@egen*/ relationalExpression()/*@bgen(jjtree)*/
        } catch (Throwable jjte001) {
            if (jjtc001) {
                jjtree.clearNodeScope(jjtn001);
                jjtc001 = false;
            } else {
                jjtree.popNode();
            }
            if (jjte001 instanceof RuntimeException) {
                throw (RuntimeException)jjte001;
            }
            if (jjte001 instanceof ParseException) {
                throw (ParseException)jjte001;
            }
            throw (Error)jjte001;
        } finally {
            if (jjtc001) {
                jjtree.closeNodeScope(jjtn001, 2);
            }
        }
    }
}

/*@egen*/
|
    ("!=" | "neq")/*@bgen(jjtree) #NotEq( 2) */
    {
        ASTNotEq jjtn002 = new ASTNotEq(JJTNOTEQ);
        boolean jjtc002 = true;
        jjtree.openNodeScope(jjtn002);
    }
}

```

```

        try {
/*@egen*/ relationalExpression()/*@bgen(jjtree)*/
        } catch (Throwable jjte002) {
            if (jjtc002) {
                jjtree.clearNodeScope(jjtn002);
                jjtc002 = false;
            } else {
                jjtree.popNode();
            }
            if (jjte002 instanceof RuntimeException) {
                throw (RuntimeException)jjte002;
            }
            if (jjte002 instanceof ParseException) {
                throw (ParseException)jjte002;
            }
            throw (Error)jjte002;
        } finally {
            if (jjtc002) {
                jjtree.closeNodeScope(jjtn002, 2);
            }
        }
/*@egen*/
    )*
}

```

```

// boolean relational expressions (level 5)
void relationalExpression() : {}
{
    shiftExpression()
    (
        ("<" | "lt")/*@bgen(jjtree) #Less( 2) */
        {
            ASTLess jjtn001 = new ASTLess(JJTLESS);
            boolean jjtc001 = true;
            jjtree.openNodeScope(jjtn001);
        }
        try {
/*@egen*/ shiftExpression()/*@bgen(jjtree)*/
        } catch (Throwable jjte001) {
            if (jjtc001) {
                jjtree.clearNodeScope(jjtn001);
                jjtc001 = false;
            } else {
                jjtree.popNode();
            }
            if (jjte001 instanceof RuntimeException) {
                throw (RuntimeException)jjte001;
            }

```

```

    }
    if (jjte001 instanceof ParseException) {
        throw (ParseException)jjte001;
    }
    throw (Error)jjte001;
} finally {
    if (jjtc001) {
        jjtree.closeNodeScope(jjtn001, 2);
    }
}
}
/*@egen*/
|
(">" | "gt")/*@bgen(jjtree) #Greater( 2) */
{
    ASTGreater jjtn002 = new ASTGreater(JITGREATER);
    boolean jjtc002 = true;
    jjtree.openNodeScope(jjtn002);
}
try {
/*@egen*/ shiftExpression()/*@bgen(jjtree)*/
} catch (Throwable jjte002) {
    if (jjtc002) {
        jjtree.clearNodeScope(jjtn002);
        jjtc002 = false;
    } else {
        jjtree.popNode();
    }
    if (jjte002 instanceof RuntimeException) {
        throw (RuntimeException)jjte002;
    }
    if (jjte002 instanceof ParseException) {
        throw (ParseException)jjte002;
    }
    throw (Error)jjte002;
} finally {
    if (jjtc002) {
        jjtree.closeNodeScope(jjtn002, 2);
    }
}
}
/*@egen*/
|
("<=" | "lte")/*@bgen(jjtree) #LessEq( 2) */
{
    ASTLessEq jjtn003 = new ASTLessEq(JITLESSEQ);
    boolean jjtc003 = true;
    jjtree.openNodeScope(jjtn003);
}
try {

```

```

/*@egen*/ shiftExpression()/*@bgen(jjtree)*/
    } catch (Throwable jjte003) {
    if (jjtc003) {
        jjtree.clearNodeScope(jjtn003);
        jjtc003 = false;
    } else {
        jjtree.popNode();
    }
    if (jjte003 instanceof RuntimeException) {
        throw (RuntimeException)jjte003;
    }
    if (jjte003 instanceof ParseException) {
        throw (ParseException)jjte003;
    }
    throw (Error)jjte003;
} finally {
    if (jjtc003) {
        jjtree.closeNodeScope(jjtn003, 2);
    }
}
/*@egen*/
|
(">=" | "gte")/*@bgen(jjtree) #GreaterEq( 2) */
{
    ASTGreaterEq jjtn004 = new ASTGreaterEq(JJTGREATEREQ);
    boolean jjtc004 = true;
    jjtree.openNodeScope(jjtn004);
}
try {
/*@egen*/ shiftExpression()/*@bgen(jjtree)*/
    } catch (Throwable jjte004) {
    if (jjtc004) {
        jjtree.clearNodeScope(jjtn004);
        jjtc004 = false;
    } else {
        jjtree.popNode();
    }
    if (jjte004 instanceof RuntimeException) {
        throw (RuntimeException)jjte004;
    }
    if (jjte004 instanceof ParseException) {
        throw (ParseException)jjte004;
    }
    throw (Error)jjte004;
} finally {
    if (jjtc004) {
        jjtree.closeNodeScope(jjtn004, 2);
    }
}

```

```

    }
/*@egen*/
|
  "in"/*@bgen(jjtree) #In( 2) */
  {
    ASTIn jjtn005 = new ASTIn(JJTIN);
    boolean jjtc005 = true;
    jjtree.openNodeScope(jjtn005);
  }
  try {
/*@egen*/ shiftExpression()/*@bgen(jjtree)*/
  } catch (Throwable jjte005) {
    if (jjtc005) {
      jjtree.clearNodeScope(jjtn005);
      jjtc005 = false;
    } else {
      jjtree.popNode();
    }
    if (jjte005 instanceof RuntimeException) {
      throw (RuntimeException)jjte005;
    }
    if (jjte005 instanceof ParseException) {
      throw (ParseException)jjte005;
    }
    throw (Error)jjte005;
  } finally {
    if (jjtc005) {
      jjtree.closeNodeScope(jjtn005, 2);
    }
  }
/*@egen*/
|
  "not" "in"/*@bgen(jjtree) #NotIn( 2) */
  {
    ASTNotIn jjtn006 = new ASTNotIn(JJTNOTIN);
    boolean jjtc006 = true;
    jjtree.openNodeScope(jjtn006);
  }
  try {
/*@egen*/ shiftExpression()/*@bgen(jjtree)*/
  } catch (Throwable jjte006) {
    if (jjtc006) {
      jjtree.clearNodeScope(jjtn006);
      jjtc006 = false;
    } else {
      jjtree.popNode();
    }
    if (jjte006 instanceof RuntimeException) {

```

```

        throw (RuntimeException)jjte006;
    }
    if (jjte006 instanceof ParseException) {
        throw (ParseException)jjte006;
    }
    throw (Error)jjte006;
} finally {
    if (jjtc006) {
        jjtree.closeNodeScope(jjtn006, 2);
    }
}
/*@egen*/
)*
}

// bit shift expressions (level 4)
void shiftExpression() : {}
{
    additiveExpression()
    (
        ("<<" | "shl")/*@bgen(jjtree) #ShiftLeft( 2) */
        {
            ASTShiftLeft jjtn001 = new ASTShiftLeft(JJTSHIFTLEFT);
            boolean jjtc001 = true;
            jjtree.openNodeScope(jjtn001);
        }
        try {
/*@egen*/ additiveExpression()/*@bgen(jjtree)*/
        } catch (Throwable jjte001) {
            if (jjtc001) {
                jjtree.clearNodeScope(jjtn001);
                jjtc001 = false;
            } else {
                jjtree.popNode();
            }
            if (jjte001 instanceof RuntimeException) {
                throw (RuntimeException)jjte001;
            }
            if (jjte001 instanceof ParseException) {
                throw (ParseException)jjte001;
            }
            throw (Error)jjte001;
        } finally {
            if (jjtc001) {
                jjtree.closeNodeScope(jjtn001, 2);
            }
        }
    )
}

```



```

/*@egen*/
|
  (">>" | "shr")/*@bgen(jtree) #ShiftRight( 2) */
  {
    ASTShiftRight jjtn002 = new ASTShiftRight(JJTSHIFTRIGHT);
    boolean jjtc002 = true;
    jjtree.openNodeScope(jjtn002);
  }
  try {
/*@egen*/ additiveExpression()/*@bgen(jtree)*/
  } catch (Throwable jjte002) {
    if (jjtc002) {
      jjtree.clearNodeScope(jjtn002);
      jjtc002 = false;
    } else {
      jjtree.popNode();
    }
    if (jjte002 instanceof RuntimeException) {
      throw (RuntimeException)jjte002;
    }
    if (jjte002 instanceof ParseException) {
      throw (ParseException)jjte002;
    }
    throw (Error)jjte002;
  } finally {
    if (jjtc002) {
      jjtree.closeNodeScope(jjtn002, 2);
    }
  }
}

/*@egen*/
|
  (">>>" | "ushr")/*@bgen(jtree) #UnsignedShiftRight( 2) */
  {
    ASTUnsignedShiftRight jjtn003 = new ASTUnsignedShiftRight(JJTUNSIGNEDSHIFTRIGHT);
    boolean jjtc003 = true;
    jjtree.openNodeScope(jjtn003);
  }
  try {
/*@egen*/ additiveExpression()/*@bgen(jtree)*/
  } catch (Throwable jjte003) {
    if (jjtc003) {
      jjtree.clearNodeScope(jjtn003);
      jjtc003 = false;
    } else {
      jjtree.popNode();
    }
    if (jjte003 instanceof RuntimeException) {
      throw (RuntimeException)jjte003;
    }
  }
}

```

```

    }
    if (jjte003 instanceof ParseException) {
        throw (ParseException)jjte003;
    }
    throw (Error)jjte003;
} finally {
    if (jjtc003) {
        jjtree.closeNodeScope(jjtn003, 2);
    }
}
}
/*@egen*/
)*
}

```

```

// binary addition/subtraction (level 3)
void additiveExpression() : {}
{
    multiplicativeExpression()
    (
        "+"/*@bgen(jjtree) #Add( 2) */
        {
            ASTAdd jjtn001 = new ASTAdd(JJTADD);
            boolean jjtc001 = true;
            jjtree.openNodeScope(jjtn001);
        }
        try {
/*@egen*/ multiplicativeExpression()/*@bgen(jjtree)*/
        } catch (Throwable jjte001) {
            if (jjtc001) {
                jjtree.clearNodeScope(jjtn001);
                jjtc001 = false;
            } else {
                jjtree.popNode();
            }
            if (jjte001 instanceof RuntimeException) {
                throw (RuntimeException)jjte001;
            }
            if (jjte001 instanceof ParseException) {
                throw (ParseException)jjte001;
            }
            throw (Error)jjte001;
        } finally {
            if (jjtc001) {
                jjtree.closeNodeScope(jjtn001, 2);
            }
        }
    )
}
/*@egen*/

```

```

|
"-"/*@bgen(jjtree) #Subtract( 2) */
{
    ASTSubtract jjtn002 = new ASTSubtract(JJTSUBTRACT);
    boolean jjtc002 = true;
    jjtree.openNodeScope(jjtn002);
}
try {
/*@egen*/ multiplicativeExpression()/*@bgen(jjtree)*/
} catch (Throwable jjte002) {
    if (jjtc002) {
        jjtree.clearNodeScope(jjtn002);
        jjtc002 = false;
    } else {
        jjtree.popNode();
    }
    if (jjte002 instanceof RuntimeException) {
        throw (RuntimeException)jjte002;
    }
    if (jjte002 instanceof ParseException) {
        throw (ParseException)jjte002;
    }
    throw (Error)jjte002;
} finally {
    if (jjtc002) {
        jjtree.closeNodeScope(jjtn002, 2);
    }
}
/*@egen*/
)*
}

```

```

// multiplication/division/remainder (level 2)
void multiplicativeExpression() : { }
{
    unaryExpression()
    (
        "*"/*@bgen(jjtree) #Multiply( 2) */
        {
            ASTMultiply jjtn001 = new ASTMultiply(JJTMULTIPLY);
            boolean jjtc001 = true;
            jjtree.openNodeScope(jjtn001);
        }
        try {
/*@egen*/ unaryExpression()/*@bgen(jjtree)*/
        } catch (Throwable jjte001) {
            if (jjtc001) {

```

```

        jjtree.clearNodeScope(jjtn001);
        jjtc001 = false;
    } else {
        jjtree.popNode();
    }
    if (jjte001 instanceof RuntimeException) {
        throw (RuntimeException)jjte001;
    }
    if (jjte001 instanceof ParseException) {
        throw (ParseException)jjte001;
    }
    throw (Error)jjte001;
} finally {
    if (jjtc001) {
        jjtree.closeNodeScope(jjtn001, 2);
    }
}
/*@egen*/
|
    "/"@bgen(jjtree) #Divide( 2) */
    {
        ASTDivide jjtn002 = new ASTDivide(JJTDIVIDE);
        boolean jjtc002 = true;
        jjtree.openNodeScope(jjtn002);
    }
    try {
/*@egen*/ unaryExpression()/*@bgen(jjtree)*/
    } catch (Throwable jjte002) {
        if (jjtc002) {
            jjtree.clearNodeScope(jjtn002);
            jjtc002 = false;
        } else {
            jjtree.popNode();
        }
        if (jjte002 instanceof RuntimeException) {
            throw (RuntimeException)jjte002;
        }
        if (jjte002 instanceof ParseException) {
            throw (ParseException)jjte002;
        }
        throw (Error)jjte002;
    } finally {
        if (jjtc002) {
            jjtree.closeNodeScope(jjtn002, 2);
        }
    }
}
/*@egen*/
|

```

```

"% "/*@bgen(jjtree) #Remainder( 2) */
{
    ASTRemainder jjtn003 = new ASTRemainder(JJTREMAINDER);
    boolean jjtc003 = true;
    jjtree.openNodeScope(jjtn003);
}
try {
/*@egen*/ unaryExpression()/*@bgen(jjtree)*/
} catch (Throwable jjte003) {
    if (jjtc003) {
        jjtree.clearNodeScope(jjtn003);
        jjtc003 = false;
    } else {
        jjtree.popNode();
    }
    if (jjte003 instanceof RuntimeException) {
        throw (RuntimeException)jjte003;
    }
    if (jjte003 instanceof ParseException) {
        throw (ParseException)jjte003;
    }
    throw (Error)jjte003;
} finally {
    if (jjtc003) {
        jjtree.closeNodeScope(jjtn003, 2);
    }
}
/*@egen*/
)*
}

// unary (level 1)
void unaryExpression() : {
    StringBuffer sb;
    Token t;
    ASTInstanceof ionode;
}
{
(
    "- "/*@bgen(jjtree) #Negate( 1) */
    {
        ASTNegate jjtn001 = new ASTNegate(JJTNEGATE);
        boolean jjtc001 = true;
        jjtree.openNodeScope(jjtn001);
    }
    try {
/*@egen*/ unaryExpression()/*@bgen(jjtree)*/
    } catch (Throwable jjte001) {

```

```

    if (jjtc001) {
        jjtree.clearNodeScope(jjtn001);
        jjtc001 = false;
    } else {
        jjtree.popNode();
    }
    if (jjte001 instanceof RuntimeException) {
        throw (RuntimeException)jjte001;
    }
    if (jjte001 instanceof ParseException) {
        throw (ParseException)jjte001;
    }
    throw (Error)jjte001;
} finally {
    if (jjtc001) {
        jjtree.closeNodeScope(jjtn001, 1);
    }
}
/*@egen*/
|
| "+" unaryExpression() // Just leave it there
|
| "~"/*@bgen(jjtree) #BitNegate( 1) */
| {
|     ASTBitNegate jjtn002 = new ASTBitNegate(JJTBITNEGATE);
|     boolean jjtc002 = true;
|     jjtree.openNodeScope(jjtn002);
| }
| try {
/*@egen*/ unaryExpression()/*@bgen(jjtree)*/
} catch (Throwable jjte002) {
    if (jjtc002) {
        jjtree.clearNodeScope(jjtn002);
        jjtc002 = false;
    } else {
        jjtree.popNode();
    }
    if (jjte002 instanceof RuntimeException) {
        throw (RuntimeException)jjte002;
    }
    if (jjte002 instanceof ParseException) {
        throw (ParseException)jjte002;
    }
    throw (Error)jjte002;
} finally {
    if (jjtc002) {
        jjtree.closeNodeScope(jjtn002, 1);
    }
}

```

```

    }
/*@egen*/
|
    ("!" | "not")/*@bgen(jjtree) #Not( 1) */
    {
        ASTNot jjtn003 = new ASTNot(JJTNOT);
        boolean jjtc003 = true;
        jjtree.openNodeScope(jjtn003);
    }
    try {
/*@egen*/ unaryExpression()/*@bgen(jjtree)*/
    } catch (Throwable jjte003) {
        if (jjtc003) {
            jjtree.clearNodeScope(jjtn003);
            jjtc003 = false;
        } else {
            jjtree.popNode();
        }
        if (jjte003 instanceof RuntimeException) {
            throw (RuntimeException)jjte003;
        }
        if (jjte003 instanceof ParseException) {
            throw (ParseException)jjte003;
        }
        throw (Error)jjte003;
    } finally {
        if (jjtc003) {
            jjtree.closeNodeScope(jjtn003, 1);
        }
    }
/*@egen*/
|
    navigationChain()
    [
        "instanceof"
        t = <IDENT>/*@bgen(jjtree) #Instanceof( 1) */
        {
            ASTInstanceof jjtn004 = new ASTInstanceof(JJTINSTANCEOF);
            boolean jjtc004 = true;
            jjtree.openNodeScope(jjtn004);
        }
        try {
/*@egen*//*@bgen(jjtree)*/
        {
            jjtree.closeNodeScope(jjtn004, 1);
            jjtc004 = false;
        }
/*@egen*/ { sb = new StringBuffer(t.image); ionode = jjtn004; }/*@bgen(jjtree)*/

```

```

        } finally {
            if (jjtc004) {
                jjtree.closeNodeScope(jjtn004, 1);
            }
        }
    }
}

/*@egen*/
( "." t = <IDENT>      { sb.append('.').append( t.image ); }
)*                    { ionode.setTargetType( new String(sb) ); }
]
)
}

// navigation chain: property references, method calls, projections, selections, etc.
void navigationChain() : {}
{
    primaryExpression()
    ( "./*@bgen(jjtree) #Chain( 2) */
    {
        ASTChain jjtn001 = new ASTChain(JJTCHAIN);
        boolean jjtc001 = true;
        jjtree.openNodeScope(jjtn001);
    }
    try {
/*@egen*/
        ( /* Prevent the "eval" ambiguity from issuing a warning; see discussion below. */
        ( LOOKAHEAD(2) methodCall() | propertyName() )
        // Also handle "{", which requires a lookahead of 2.
        | ( LOOKAHEAD(2) projection() | selection() )
        | "(" expression() ")"
        )/*@bgen(jjtree)*/
    } catch (Throwable jjte001) {
        if (jjtc001) {
            jjtree.clearNodeScope(jjtn001);
            jjtc001 = false;
        } else {
            jjtree.popNode();
        }
        if (jjte001 instanceof RuntimeException) {
            throw (RuntimeException)jjte001;
        }
        if (jjte001 instanceof ParseException) {
            throw (ParseException)jjte001;
        }
        throw (Error)jjte001;
    } finally {
        if (jjtc001) {
            jjtree.closeNodeScope(jjtn001, 2);
        }
    }
}

```



```

    }
    }
/*@egen*/

|/*@bgen(jjtree) #Chain( 2) */
{
    ASTChain jjtn002 = new ASTChain(JJTCHAIN);
    boolean jjtc002 = true;
    jjtree.openNodeScope(jjtn002);
}
try {
/*@egen*/ index()/*@bgen(jjtree)*/
} catch (Throwable jjte002) {
    if (jjtc002) {
        jjtree.clearNodeScope(jjtn002);
        jjtc002 = false;
    } else {
        jjtree.popNode();
    }
    if (jjte002 instanceof RuntimeException) {
        throw (RuntimeException)jjte002;
    }
    if (jjte002 instanceof ParseException) {
        throw (ParseException)jjte002;
    }
    throw (Error)jjte002;
} finally {
    if (jjtc002) {
        jjtree.closeNodeScope(jjtn002, 2);
    }
}
/*@egen*/

| "(" expression()/*@bgen(jjtree) #Eval( 2) */
{
    ASTEval jjtn003 = new ASTEval(JJTEVAL);
    boolean jjtc003 = true;
    jjtree.openNodeScope(jjtn003);
}
try {
/*@egen*/ ")"/*@bgen(jjtree)*/
} finally {
    if (jjtc003) {
        jjtree.closeNodeScope(jjtn003, 2);
    }
}
/*@egen*/

```

/* Using parentheses to indicate evaluation of the current object makes this language ambiguous, because the expression "ident(args)" could be seen as a single method call or as a property name followed by an evaluation. We always put the method call first and turn off the ambiguity warning; we always want to interpret this as a method call. */

```

)*
}

void primaryExpression() : {
    Token t;
    String className = null;
}
{
    (
        (<CHAR_LITERAL> | <BACK_CHAR_LITERAL> | <STRING_LITERAL> | <INT_LITERAL> |
        <FLT_LITERAL>)/**@bgen(jjtree) #Const( 0) */
        {
            ASTConst jjtn001 = new ASTConst(JJTCONST);
            boolean jjtc001 = true;
            jjtree.openNodeScope(jjtn001);
        }
        try {
            /**@egen**/@bgen(jjtree)*/
            {
                jjtree.closeNodeScope(jjtn001, 0);
                jjtc001 = false;
            }
            /**@egen*/
            { jjtn001.setValue( token_source.literalValue ); /**@bgen(jjtree)*/
            } finally {
                if (jjtc001) {
                    jjtree.closeNodeScope(jjtn001, 0);
                }
            }
        }
        /**@egen*/
        |
        "true"/**@bgen(jjtree) #Const( 0) */
        {
            ASTConst jjtn002 = new ASTConst(JJTCONST);
            boolean jjtc002 = true;
            jjtree.openNodeScope(jjtn002);
        }
        try {
            /**@egen**/@bgen(jjtree)*/

```

```

        {
            jjtree.closeNodeScope(jjtn002, 0);
            jjtc002 = false;
        }
/*@egen*/
        { jjtn002.setValue( Boolean.TRUE ); }/*@bgen(jjtree)*/
    } finally {
        if (jjtc002) {
            jjtree.closeNodeScope(jjtn002, 0);
        }
    }
}

/*@egen*/
|
    "false"/*@bgen(jjtree) #Const( 0) */
    {
        ASTConst jjtn003 = new ASTConst(JJTCONST);
        boolean jjtc003 = true;
        jjtree.openNodeScope(jjtn003);
    }
    try {
/*@egen*//*@bgen(jjtree)*/
        {
            jjtree.closeNodeScope(jjtn003, 0);
            jjtc003 = false;
        }
/*@egen*/
        { jjtn003.setValue( Boolean.FALSE ); }/*@bgen(jjtree)*/
    } finally {
        if (jjtc003) {
            jjtree.closeNodeScope(jjtn003, 0);
        }
    }
}

/*@egen*/
|/*@bgen(jjtree) #Const( 0) */
    {
        ASTConst jjtn004 = new ASTConst(JJTCONST);
        boolean jjtc004 = true;
        jjtree.openNodeScope(jjtn004);
    }
    try {
/*@egen*/
        "null"/*@bgen(jjtree)*/
    } finally {
        if (jjtc004) {
            jjtree.closeNodeScope(jjtn004, 0);
        }
    }
}

/*@egen*/
// Null is the default value in an ASTConst
|
    LOOKAHEAD(2) "#this"/*@bgen(jjtree) #ThisVarRef( 0) */

```

```

        {
            ASTThisVarRef jjtn005 = new ASTThisVarRef(JTTHISVARREF);
            boolean jjtc005 = true;
            jjtree.openNodeScope(jjtn005);
        }
        try {
/*@egen*//*@bgen(jjtree)*/
            {
                jjtree.closeNodeScope(jjtn005, 0);
                jjtc005 = false;
            }
/*@egen*/        { jjtn005.setName( "this" ); }/*@bgen(jjtree)*/
            } finally {
                if (jjtc005) {
                    jjtree.closeNodeScope(jjtn005, 0);
                }
            }
/*@egen*/
|
    LOOKAHEAD(2) "#root"/*@bgen(jjtree) #RootVarRef( 0) */
        {
            ASTRootVarRef jjtn006 = new ASTRootVarRef(JTROOTVARREF);
            boolean jjtc006 = true;
            jjtree.openNodeScope(jjtn006);
        }
        try {
/*@egen*//*@bgen(jjtree)*/
            {
                jjtree.closeNodeScope(jjtn006, 0);
                jjtc006 = false;
            }
/*@egen*/        { jjtn006.setName( "root" ); }/*@bgen(jjtree)*/
            } finally {
                if (jjtc006) {
                    jjtree.closeNodeScope(jjtn006, 0);
                }
            }
/*@egen*/
|
    LOOKAHEAD(2) "#" t=<IDENT>/*@bgen(jjtree) #VarRef( 0) */
        {
            ASTVarRef jjtn007 = new ASTVarRef(JTVARREF);
            boolean jjtc007 = true;
            jjtree.openNodeScope(jjtn007);
        }
        try {
/*@egen*//*@bgen(jjtree)*/
            {

```

```

        jjtree.closeNodeScope(jjtn007, 0);
        jjtc007 = false;
    }
/*@egen*/    { jjtn007.setName( t.image ); }/*@bgen(jjtree)*/
    } finally {
        if (jjtc007) {
            jjtree.closeNodeScope(jjtn007, 0);
        }
    }
/*@egen*/
|
    LOOKAHEAD(2) ":" "[" expression() "]"/*@bgen(jjtree) #Const( 1) */
    {
        ASTConst jjtn008 = new ASTConst(JJTCONST);
        boolean jjtc008 = true;
        jjtree.openNodeScope(jjtn008);
    }
    try {
/*@egen*//*@bgen(jjtree)*/
        {
            jjtree.closeNodeScope(jjtn008, 1);
            jjtc008 = false;
        }
/*@egen*/ { jjtn008.setValue( jjtn008.jjtGetChild(0) ); }/*@bgen(jjtree)*/
    } finally {
        if (jjtc008) {
            jjtree.closeNodeScope(jjtn008, 1);
        }
    }
/*@egen*/
|
    staticReference()
|
    LOOKAHEAD(2) constructorCall()
|
    // Prevent the "eval" ambiguity from issuing a warning; see discussion elsewhere.
    ( LOOKAHEAD(2) methodCall() | propertyName() )
|
    index()
|
    "(" expression() ")"
|
    "{"/*@bgen(jjtree) List */
    {
        ASTList jjtn009 = new ASTList(JJTLIST);
        boolean jjtc009 = true;
        jjtree.openNodeScope(jjtn009);
    }

```

```

    try {
/*@egen*/ [assignmentExpression() ("," assignmentExpression())]*/*@bgen(jjtree)*/
    } catch (Throwable jjte009) {
    if (jjtc009) {
        jjtree.clearNodeScope(jjtn009);
        jjtc009 = false;
    } else {
        jjtree.popNode();
    }
    if (jjte009 instanceof RuntimeException) {
        throw (RuntimeException)jjte009;
    }
    if (jjte009 instanceof ParseException) {
        throw (ParseException)jjte009;
    }
    throw (Error)jjte009;
} finally {
    if (jjtc009) {
        jjtree.closeNodeScope(jjtn009, true);
    }
}
/*@egen*/    "}"
|
    LOOKAHEAD(2)*/*@bgen(jjtree) Map */
    {
        ASTMap jjtn010 = new ASTMap(JJTMAP);
        boolean jjtc010 = true;
        jjtree.openNodeScope(jjtn010);
    }
    try {
/*@egen*/ ( "#" (className=classReference())? "{" [keyValueExpression() ("," keyValueExpression())]* {
jjtn010.setClassName(className); } "}")*/*@bgen(jjtree)*/
    } catch (Throwable jjte010) {
    if (jjtc010) {
        jjtree.clearNodeScope(jjtn010);
        jjtc010 = false;
    } else {
        jjtree.popNode();
    }
    if (jjte010 instanceof RuntimeException) {
        throw (RuntimeException)jjte010;
    }
    if (jjte010 instanceof ParseException) {
        throw (ParseException)jjte010;
    }
    throw (Error)jjte010;
} finally {
    if (jjtc010) {

```

```

        jjtree.closeNodeScope(jjtn010, true);
    }
}
/*@egen*/
)
}

void keyValueExpression() : {
/*@bgen(jjtree) KeyValue */
{
    ASTKeyValue jjtn001 = new ASTKeyValue(JJTKEYVALUE);
    boolean jjtc001 = true;
    jjtree.openNodeScope(jjtn001);
}
try {
/*@egen*/
    ( assignmentExpression( ":" assignmentExpression()? )/*@bgen(jjtree)*/
    } catch (Throwable jjte001) {
        if (jjtc001) {
            jjtree.clearNodeScope(jjtn001);
            jjtc001 = false;
        } else {
            jjtree.popNode();
        }
        if (jjte001 instanceof RuntimeException) {
            throw (RuntimeException)jjte001;
        }
        if (jjte001 instanceof ParseException) {
            throw (ParseException)jjte001;
        }
        throw (Error)jjte001;
    } finally {
        if (jjtc001) {
            jjtree.closeNodeScope(jjtn001, true);
        }
    }
/*@egen*/
}

void staticReference() : {
    String className = "java.lang.Math";
    Token t;
}
{
    className=classReference()
    (// Prevent the "eval" ambiguity from issuing a warning; see discussion elsewhere.
    LOOKAHEAD(2)
    staticMethodCall( className )

```

```

|
  t=<IDENT>/*@bgen(jjtree) #StaticField( 0) */
      {
          ASTStaticField jjtn001 = new ASTStaticField(JJTSTATICFIELD);
          boolean jjtc001 = true;
          jjtree.openNodeScope(jjtn001);
      }
      try {
/*@egen*//*@bgen(jjtree)*/
          {
              jjtree.closeNodeScope(jjtn001, 0);
              jjtc001 = false;
          }
/*@egen*/          { jjtn001.init( className, t.image ); }/*@bgen(jjtree)*/
          } finally {
              if (jjtc001) {
                  jjtree.closeNodeScope(jjtn001, 0);
              }
          }
      }
/*@egen*/
    )
}

String classReference(): {
    String    result = "java.lang.Math";
}
{
    @" ( result=className() )? @" { return result; }
}

String className(): {
    Token t;
    StringBuffer result;
}
{
    t=<IDENT>          { result = new StringBuffer( t.image ); }
    ( "." t=<IDENT>    { result.append('.').append( t.image ); }
)*
    { return new String(result); }
}

void constructorCall() : {/*@bgen(jjtree) Ctor */
    ASTCtor jjtn000 = new ASTCtor(JJTCTOR);
    boolean jjtc000 = true;
    jjtree.openNodeScope(jjtn000);
/*@egen*/
    String className;
    Token t;
    StringBuffer sb;
}

```



```

}
/*@bgen(jjtree) Ctor */
try {
/*@egen*/
"new" className=className()
(
LOOKAHEAD(2) (
"[" [ assignmentExpression() ( "," assignmentExpression() )* ] ")/*@bgen(jjtree)*/
{
jjtree.closeNodeScope(jjtn000, true);
jjtc000 = false;
}
/*@egen*/
{
jjtn000.setClassName(className);
}
)
|
LOOKAHEAD(2) (
"[" "]" " {" /*@bgen(jjtree) List */
{
ASTList jjtn001 = new ASTList(JJTLIST);
boolean jjtc001 = true;
jjtree.openNodeScope(jjtn001);
}
try {
/*@egen*/ [assignmentExpression() ("," assignmentExpression())*]/*@bgen(jjtree)*/
} catch (Throwable jjte001) {
if (jjtc001) {
jjtree.clearNodeScope(jjtn001);
jjtc001 = false;
} else {
jjtree.popNode();
}
if (jjte001 instanceof RuntimeException) {
throw (RuntimeException)jjte001;
}
if (jjte001 instanceof ParseException) {
throw (ParseException)jjte001;
}
throw (Error)jjte001;
} finally {
if (jjtc001) {
jjtree.closeNodeScope(jjtn001, true);
}
}
}
/*@egen*/ "}" /*@bgen(jjtree)*/
{

```

```

        jjtree.closeNodeScope(jjtn000, true);
        jjtc000 = false;
    }
/*@egen*/
    {
        jjtn000.setClassName(className);
        jjtn000.setArray(true);
    }
)
|
LOOKAHEAD(2) (
    "[" assignmentExpression() "]"/*@bgen(jjtree)*/
    {
        jjtree.closeNodeScope(jjtn000, true);
        jjtc000 = false;
    }
/*@egen*/
    {
        jjtn000.setClassName(className);
        jjtn000.setArray(true);
    }
)
)/*@bgen(jjtree)*/
} catch (Throwable jjte000) {
    if (jjtc000) {
        jjtree.clearNodeScope(jjtn000);
        jjtc000 = false;
    } else {
        jjtree.popNode();
    }
    if (jjte000 instanceof RuntimeException) {
        throw (RuntimeException)jjte000;
    }
    if (jjte000 instanceof ParseException) {
        throw (ParseException)jjte000;
    }
    throw (Error)jjte000;
} finally {
    if (jjtc000) {
        jjtree.closeNodeScope(jjtn000, true);
    }
}
/*@egen*/
}

void propertyName()      : {/*@bgen(jjtree) Property */
    ASTProperty jjtn000 = new ASTProperty(JJTPROPERTY);
    boolean jjtc000 = true;

```

```

    jjtree.openNodeScope(jjtn000);
/* @egen */
    Token t;
}
/* @bgen(jjtree) Property */
    try {
/* @egen */
        t=<IDENT> /* @bgen(jjtree) Const */
            {
                ASTConst jjtn001 = new ASTConst(JJTCONST);
                boolean jjtc001 = true;
                jjtree.openNodeScope(jjtn001);
            }
            try {
/* @egen */ /* @bgen(jjtree) */
                {
                    jjtree.closeNodeScope(jjtn001, true);
                    jjtc001 = false;
                }
            }
/* @egen */ { jjtn001.setValue( t.image ); } /* @bgen(jjtree) */
            } finally {
                if (jjtc001) {
                    jjtree.closeNodeScope(jjtn001, true);
                }
            }
/* @egen */ /* @bgen(jjtree) */
            } finally {
                if (jjtc000) {
                    jjtree.closeNodeScope(jjtn000, true);
                }
            }
/* @egen */
    }

void staticMethodCall( String className ) : { /* @bgen(jjtree) StaticMethod */
    ASTStaticMethod jjtn000 = new ASTStaticMethod(JJTSTATICMETHOD);
    boolean jjtc000 = true;
    jjtree.openNodeScope(jjtn000);
/* @egen */
    Token t;
}
/* @bgen(jjtree) StaticMethod */
    try {
/* @egen */
        t=<IDENT> "(" [ assignmentExpression() ( "," assignmentExpression() )* ] ")" /* @bgen(jjtree) */
            {
                jjtree.closeNodeScope(jjtn000, true);
                jjtc000 = false;
            }
    }
}

```

```

        }
/*@egen*/
        { jjtn000.init( className, t.image ); }/*@bgen(jjtree)*/
    } catch (Throwable jjte000) {
        if (jjtc000) {
            jjtree.clearNodeScope(jjtn000);
            jjtc000 = false;
        } else {
            jjtree.popNode();
        }
        if (jjte000 instanceof RuntimeException) {
            throw (RuntimeException)jjte000;
        }
        if (jjte000 instanceof ParseException) {
            throw (ParseException)jjte000;
        }
        throw (Error)jjte000;
    } finally {
        if (jjtc000) {
            jjtree.closeNodeScope(jjtn000, true);
        }
    }
/*@egen*/
}

void methodCall() : {/*@bgen(jjtree) Method */
    ASTMethod jjtn000 = new ASTMethod(JJTMETHOD);
    boolean jjtc000 = true;
    jjtree.openNodeScope(jjtn000);
/*@egen*/
    Token t;
}
{/*@bgen(jjtree) Method */
    try {
/*@egen*/
        t=<IDENT> "(" [ assignmentExpression() ( "," assignmentExpression() )* ] )"/*@bgen(jjtree)*/
            {
                jjtree.closeNodeScope(jjtn000, true);
                jjtc000 = false;
            }
/*@egen*/
            { jjtn000.setMethodName( t.image ); }/*@bgen(jjtree)*/
    } catch (Throwable jjte000) {
        if (jjtc000) {
            jjtree.clearNodeScope(jjtn000);
            jjtc000 = false;
        } else {
            jjtree.popNode();
        }
    }
}

```

```

    }
    if (jjte000 instanceof RuntimeException) {
        throw (RuntimeException)jjte000;
    }
    if (jjte000 instanceof ParseException) {
        throw (ParseException)jjte000;
    }
    throw (Error)jjte000;
} finally {
    if (jjtc000) {
        jjtree.closeNodeScope(jjtn000, true);
    }
}
/*@egen*/
}

/**
 * Apply an expression to all elements of a collection, creating a new collection
 * as the result.
 */
void projection()      : {/*@bgen(jjtree) Project */
    ASTProject jjtn000 = new ASTProject(JJTPROJECT);
    boolean jjtc000 = true;
    jjtree.openNodeScope(jjtn000);
    /*@egen*/}
    {/*@bgen(jjtree) Project */
        try {
            /*@egen*/
            "{" expression() " }"/*@bgen(jjtree)*/
        } catch (Throwable jjte000) {
            if (jjtc000) {
                jjtree.clearNodeScope(jjtn000);
                jjtc000 = false;
            } else {
                jjtree.popNode();
            }
            if (jjte000 instanceof RuntimeException) {
                throw (RuntimeException)jjte000;
            }
            if (jjte000 instanceof ParseException) {
                throw (ParseException)jjte000;
            }
            throw (Error)jjte000;
        } finally {
            if (jjtc000) {
                jjtree.closeNodeScope(jjtn000, true);
            }
        }
    }
}

```

```

/*@egen*/
}

void selection() : {}
{
    LOOKAHEAD(2) selectAll()
    |
    LOOKAHEAD(2) selectFirst()
    |
    LOOKAHEAD(2) selectLast()
}

/**
 * Apply a boolean expression to all elements of a collection, creating a new collection
 * containing those elements for which the expression returned true.
 */
void selectAll() : {/*@bgen(jjtree) Select */
    ASTSelect jjtn000 = new ASTSelect(JJTSELECT);
    boolean jjtc000 = true;
    jjtree.openNodeScope(jjtn000);
/*@egen*/}
    {/*@bgen(jjtree) Select */
        try {
/*@egen*/
            "{" "?" expression() "}"/*@bgen(jjtree)*/
        } catch (Throwable jjte000) {
            if (jjtc000) {
                jjtree.clearNodeScope(jjtn000);
                jjtc000 = false;
            } else {
                jjtree.popNode();
            }
            if (jjte000 instanceof RuntimeException) {
                throw (RuntimeException)jjte000;
            }
            if (jjte000 instanceof ParseException) {
                throw (ParseException)jjte000;
            }
            throw (Error)jjte000;
        } finally {
            if (jjtc000) {
                jjtree.closeNodeScope(jjtn000, true);
            }
        }
/*@egen*/
    }

/**

```

* Apply a boolean expression to all elements of a collection, creating a new collection
* containing those elements for the first element for which the expression returned true.

*/

```
void selectFirst()          : {/*@bgen(jjtree) SelectFirst */
ASTSelectFirst jjtn000 = new ASTSelectFirst(JJTSELECTFIRST);
boolean jjtc000 = true;
jjtree.openNodeScope(jjtn000);
/*@egen*/}
{/*@bgen(jjtree) SelectFirst */
  try {
/*@egen*/
    "{" "^" expression() "}"/*@bgen(jjtree)*/
  } catch (Throwable jjte000) {
    if (jjtc000) {
      jjtree.clearNodeScope(jjtn000);
      jjtc000 = false;
    } else {
      jjtree.popNode();
    }
    if (jjte000 instanceof RuntimeException) {
      throw (RuntimeException)jjte000;
    }
    if (jjte000 instanceof ParseException) {
      throw (ParseException)jjte000;
    }
    throw (Error)jjte000;
  } finally {
    if (jjtc000) {
      jjtree.closeNodeScope(jjtn000, true);
    }
  }
/*@egen*/
}
```

/**

* Apply a boolean expression to all elements of a collection, creating a new collection
* containing those elements for the first element for which the expression returned true.

*/

```
void selectLast()         : {/*@bgen(jjtree) SelectLast */
ASTSelectLast jjtn000 = new ASTSelectLast(JJTSELECTLAST);
boolean jjtc000 = true;
jjtree.openNodeScope(jjtn000);
/*@egen*/}
{/*@bgen(jjtree) SelectLast */
  try {
/*@egen*/
    "{" "$" expression() "}"/*@bgen(jjtree)*/
  } catch (Throwable jjte000) {
```

```

    if (jjtc000) {
        jjtree.clearNodeScope(jjtn000);
        jjtc000 = false;
    } else {
        jjtree.popNode();
    }
    if (jjte000 instanceof RuntimeException) {
        throw (RuntimeException)jjte000;
    }
    if (jjte000 instanceof ParseException) {
        throw (ParseException)jjte000;
    }
    throw (Error)jjte000;
} finally {
    if (jjtc000) {
        jjtree.closeNodeScope(jjtn000, true);
    }
}
/*@egen*/
}

void index()      : {/*@bgen(jjtree) Property */
    ASTProperty jjtn000 = new ASTProperty(JJTPROPERTY);
    boolean jjtc000 = true;
    jjtree.openNodeScope(jjtn000);
    /*@egen*/}
    {/*@bgen(jjtree) Property */
        try {
            /*@egen*/
            "[" expression() "]"/*@bgen(jjtree)*/
                {
                    jjtree.closeNodeScope(jjtn000, true);
                    jjtc000 = false;
                }
        }
        /*@egen*/ { jjtn000.setIndexedAccess(true); }
    |
    <DYNAMIC_SUBSCRIPT>/*@bgen(jjtree) Const */
        {
            ASTConst jjtn001 = new ASTConst(JJTCONST);
            boolean jjtc001 = true;
            jjtree.openNodeScope(jjtn001);
        }
        try {
            /*@egen*//*@bgen(jjtree)*/
                {
                    jjtree.closeNodeScope(jjtn001, true);
                    jjtc001 = false;
                }
        }

```



```

/*@egen*/ { jjtn001.setValue( token_source.literalValue ); }/*@bgen(jjtree)*/
    } finally {
        if (jjtc001) {
            jjtree.closeNodeScope(jjtn001, true);
        }
    }
}
/*@egen*/ /*@bgen(jjtree)*/
{
    jjtree.closeNodeScope(jjtn000, true);
    jjtc000 = false;
}
/*@egen*/
{
    jjtn000.setIndexedAccess(true);
}/*@bgen(jjtree)*/
} catch (Throwable jjte000) {
    if (jjtc000) {
        jjtree.clearNodeScope(jjtn000);
        jjtc000 = false;
    } else {
        jjtree.popNode();
    }
    if (jjte000 instanceof RuntimeException) {
        throw (RuntimeException)jjte000;
    }
    if (jjte000 instanceof ParseException) {
        throw (ParseException)jjte000;
    }
    throw (Error)jjte000;
} finally {
    if (jjtc000) {
        jjtree.closeNodeScope(jjtn000, true);
    }
}
}
/*@egen*/
}

```

// LEXER PRODUCTIONS

TOKEN_MGR_DECLS:

```

{
    /** Holds the last value computed by a constant token. */
    Object literalValue;
    /** Holds the last character escaped or in a character literal. */
    private char charValue;
    /** Holds char literal start token. */
    private char charLiteralStartQuote;
    /** Holds the last string literal parsed. */

```

```

private StringBuffer stringBuffer;

/** Converts an escape sequence into a character value. */
private char escapeChar()
{
    int ofs = image.length() - 1;
    switch ( image.charAt(ofs) ) {
        case 'n': return '\n';
        case 'r': return '\r';
        case 't': return '\t';
        case 'b': return '\b';
        case 'f': return '\f';
        case '\\': return '\\';
        case '\"': return '\"';
        case '\"': return '\"';
    }

    // Otherwise, it's an octal number. Find the backslash and convert.
    while ( image.charAt(--ofs) != '\\' )
        {}
    int value = 0;
    while ( ++ofs < image.length() )
        value = (value << 3) | (image.charAt(ofs) - '0');
    return (char) value;
}

private Object makeInt()
{
    Object result;
    String s = image.toString();
    int base = 10;

    if ( s.charAt(0) == '0' )
        base = (s.length() > 1 && (s.charAt(1) == 'x' || s.charAt(1) == 'X'))? 16 : 8;
    if ( base == 16 )
        s = s.substring(2); // Trim the 0x off the front
    switch ( s.charAt(s.length()-1) ) {
        case 'l': case 'L':
            result = Long.valueOf( s.substring(0,s.length()-1), base );
            break;

        case 'h': case 'H':
            result = new BigInteger( s.substring(0,s.length()-1), base );
            break;

        default:
            result = Integer.valueOf( s, base );
            break;
    }
}

```

```

    }
    return result;
}

private Object makeFloat()
{
    String s = image.toString();
    switch ( s.charAt(s.length()-1) ) {
        case 'f': case 'F':
            return Float.valueOf( s );

        case 'b': case 'B':
            return new BigDecimal( s.substring(0,s.length()-1) );

        case 'd': case 'D':
        default:
            return Double.valueOf( s );
    }
}
}

```

// Whitespace -- ignored

SKIP:

```
{ " " | "\t" | "\f" | "\r" | "\n" }
```

// An identifier.

TOKEN:

```
{
< IDENT: <LETTER> (<LETTER>|<DIGIT>)* >
|

```

< #LETTER: [

"\$",

"A"-"Z",

"_",

"a"-"z",

"\u00c0"-" \u00d6",

"\u00d8"-" \u00f6",

"\u00f8"-" \u00ff",

"\u0100"-" \u1fff",

"\u3040"-" \u318f",

"\u3300"-" \u337f",

"\u3400"-" \u3d2d",

"\u4e00"-" \u9fff",

"\uf900"-" \ufaff"

] >

|

< #DIGIT:

[

```

"0"-"9",
"\u0660"-"u0669",
"\u06f0"-"u06f9",
"\u0966"-"u096f",
"\u09e6"-"u09ef",
"\u0a66"-"u0a6f",
"\u0ae6"-"u0aef",
"\u0b66"-"u0b6f",
"\u0be7"-"u0bef",
"\u0c66"-"u0c6f",
"\u0ce6"-"u0cef",
"\u0d66"-"u0d6f",
"\u0e50"-"u0e59",
"\u0ed0"-"u0ed9",
"\u1040"-"u1049"
] >
}

/**
 * Token for "dynamic subscripts", which are one of: [^], [], [$], and [*]. The
 * appropriate constant from the DynamicSubscript class is stored in the token manager's
 * "value" field.
 */
TOKEN:
{
  < DYNAMIC_SUBSCRIPT: "[" ["^","|","$","*"] "]" >
  {
    switch (image.charAt(1)) {
      case '^': literalValue = DynamicSubscript.first; break;
      case '|': literalValue = DynamicSubscript.mid; break;
      case '$': literalValue = DynamicSubscript.last; break;
      case '*': literalValue = DynamicSubscript.all; break;
    }
  }
}

/**
 * Character and string literals, whose object value is stored in the token manager's
 * "literalValue" field.
 */
MORE:
{
  "" : WithinBackCharLiteral
|
  "" { stringBuffer = new StringBuffer(); } : WithinCharLiteral
|
  "" { stringBuffer = new StringBuffer(); } : WithinStringLiteral
}

```

<WithinCharLiteral> MORE:

```
{
  < ESC: "\" ( [\"n\", \"r\", \"t\", \"b\", \"f\", \"\\\", \"\", \"^\", \"\\\" ]
    | ([\"0\"-\"3\"])? [\"0\"-\"7\"] ([\"0\"-\"7\"])?
    )
  >
  { charValue = escapeChar(); stringBuffer.append(charValue); }
|
  < (~[\"\", \"\\\"] ) >
  { charValue = image.charAt( image.length()-1 ); stringBuffer.append(charValue); }
}
```

<WithinCharLiteral> TOKEN:

```
{
  < CHAR_LITERAL: \"\" >
  {
    if (stringBuffer.length() == 1) {
      literalValue = new Character( charValue );
    } else {
      literalValue = new String( stringBuffer );
    }
  }
  : DEFAULT
}
```

<WithinBackCharLiteral> MORE:

```
{
  < BACK_CHAR_ESC: <ESC> >
  { charValue = escapeChar(); }
|
  < (~[\"\", \"\\\"] ) >
  { charValue = image.charAt( image.length()-1 ); }
}
```

<WithinBackCharLiteral> TOKEN:

```
{
  < BACK_CHAR_LITERAL: \"\" >
  { literalValue = new Character( charValue ); }; DEFAULT
}
```

<WithinStringLiteral> MORE:

```
{
  < STRING_ESC: <ESC> >
  { stringBuffer.append( escapeChar() ); }
|
  < (~[\"\", \"\\\"] ) >
  { stringBuffer.append( image.charAt(image.length()-1) ); }
```

```

}

<WithinStringLiteral> TOKEN:
{
  <STRING_LITERAL: "\"" >
    { literalValue = new String( stringBuffer ); }
  : DEFAULT
}

/**
 * Integer or real Numeric literal, whose object value is stored in the token manager's
 * "literalValue" field.
 */
TOKEN:
{
  < INT_LITERAL:
    ( "0" ([ "0"-"7" ])* | [ "1"-"9" ] ([ "0"-"9" ])* | "0" [ "x", "X" ] ([ "0"-"9", "a"-"f", "A"-"F" ])+ )
    ([ "l", "L", "h", "H" ])?
  >
  { literalValue =
    makeInt(); }
|
  < FLT_LITERAL:
    ( <DEC_FLT> <EXPONENT>)? <FLT_SUFF>?
    | <DEC_DIGITS> <EXPONENT> <FLT_SUFF>?
    | <DEC_DIGITS> <FLT_SUFF>
  )
  >
  { literalValue = makeFloat(); }

| < #DEC_FLT: ([ "0"-"9" ])+ "." ([ "0"-"9" ])* | "." ([ "0"-"9" ])+ >
| < #DEC_DIGITS: ([ "0"-"9" ])+ >
| < #EXPONENT: [ "e", "E" ] ([ "+", "-" ])? ([ "0"-"9" ])+ >
| < #FLT_SUFF: [ "d", "D", "f", "F", "b", "B" ] >
}

```

Found in path(s):

* /opt/cola/permits/1239972974_1639111673.14/0/ognl-3-1-28-sources-jar/ognl/ognl.jj

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* /opt/cola/permits/1239972974_1639111673.14/0/ognl-3-1-28-sources-jar/ognl/enhance/EnhancedClassLoader.java
* /opt/cola/permits/1239972974_1639111673.14/0/ognl-3-1-28-sources-jar/ognl/OgnlInvokePermission.java

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* /opt/cola/permits/1239972974_1639111673.14/0/ognl-3-1-28-sources-jar/ognl/AccessibleObjectHandlerJDK9Plus.java
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* /opt/cola/permits/1239972974_1639111673.14/0/ognl-3-1-28-sources-jar/ognl/ObjectNullHandler.java
* /opt/cola/permits/1239972974_1639111673.14/0/ognl-3-1-28-sources-jar/ognl/IteratorElementsAccessor.java
* /opt/cola/permits/1239972974_1639111673.14/0/ognl-3-1-28-sources-jar/ognl/NoSuchPropertyException.java
* /opt/cola/permits/1239972974_1639111673.14/0/ognl-3-1-28-sources-jar/ognl/ASTLessEq.java
* /opt/cola/permits/1239972974_1639111673.14/0/ognl-3-1-28-sources-jar/ognl/ASTMultiply.java
* /opt/cola/permits/1239972974_1639111673.14/0/ognl-3-1-28-sources-jar/ognl/ASTRemainder.java
* /opt/cola/permits/1239972974_1639111673.14/0/ognl-3-1-28-sources-jar/ognl/MethodAccessor.java
* /opt/cola/permits/1239972974_1639111673.14/0/ognl-3-1-28-sources-jar/ognl/ASTNot.java
* /opt/cola/permits/1239972974_1639111673.14/0/ognl-3-1-28-sources-jar/ognl/ASTGreater.java
* /opt/cola/permits/1239972974_1639111673.14/0/ognl-3-1-28-sources-jar/ognl/ASTShiftRight.java
* /opt/cola/permits/1239972974_1639111673.14/0/ognl-3-1-28-sources-jar/ognl/ASTBitAnd.java
* /opt/cola/permits/1239972974_1639111673.14/0/ognl-3-1-28-sources-jar/ognl/ASTEq.java
* /opt/cola/permits/1239972974_1639111673.14/0/ognl-3-1-28-sources-jar/ognl/DynamicSubscript.java

* /opt/cola/permits/1239972974_1639111673.14/0/ognl-3-1-28-sources-jar/ognl/ASTAnd.java
* /opt/cola/permits/1239972974_1639111673.14/0/ognl-3-1-28-sources-jar/ognl/ASTLess.java
* /opt/cola/permits/1239972974_1639111673.14/0/ognl-3-1-28-sources-jar/ognl/ASTBitOr.java
* /opt/cola/permits/1239972974_1639111673.14/0/ognl-3-1-28-sources-jar/ognl/ASTSelectFirst.java
* /opt/cola/permits/1239972974_1639111673.14/0/ognl-3-1-28-sources-jar/ognl/EnumerationElementsAccessor.java
* /opt/cola/permits/1239972974_1639111673.14/0/ognl-3-1-28-sources-jar/ognl/ASTNotEq.java
* /opt/cola/permits/1239972974_1639111673.14/0/ognl-3-1-28-sources-jar/ognl/ASTUnsignedShiftRight.java
* /opt/cola/permits/1239972974_1639111673.14/0/ognl-3-1-28-sources-jar/ognl/ASTNotIn.java
* /opt/cola/permits/1239972974_1639111673.14/0/ognl-3-1-28-sources-jar/ognl/ASTDivide.java
* /opt/cola/permits/1239972974_1639111673.14/0/ognl-3-1-28-sources-jar/ognl/ASTNegate.java
* /opt/cola/permits/1239972974_1639111673.14/0/ognl-3-1-28-sources-jar/ognl/ASTSelectLast.java
* /opt/cola/permits/1239972974_1639111673.14/0/ognl-3-1-28-sources-jar/ognl/DefaultTypeConverter.java
* /opt/cola/permits/1239972974_1639111673.14/0/ognl-3-1-28-sources-jar/ognl/IteratorPropertyAccessor.java
* /opt/cola/permits/1239972974_1639111673.14/0/ognl-3-1-28-sources-jar/ognl/OgnlException.java
* /opt/cola/permits/1239972974_1639111673.14/0/ognl-3-1-28-sources-jar/ognl/ASTIn.java
* /opt/cola/permits/1239972974_1639111673.14/0/ognl-3-1-28-sources-jar/ognl/ElementsAccessor.java
* /opt/cola/permits/1239972974_1639111673.14/0/ognl-3-1-28-sources-jar/ognl/TypeConverter.java
* /opt/cola/permits/1239972974_1639111673.14/0/ognl-3-1-28-sources-jar/ognl/ASTSequence.java
* /opt/cola/permits/1239972974_1639111673.14/0/ognl-3-1-28-sources-jar/ognl/CollectionElementsAccessor.java
* /opt/cola/permits/1239972974_1639111673.14/0/ognl-3-1-28-sources-jar/ognl/ArrayElementsAccessor.java
* /opt/cola/permits/1239972974_1639111673.14/0/ognl-3-1-28-sources-jar/ognl/ObjectElementsAccessor.java
* /opt/cola/permits/1239972974_1639111673.14/0/ognl-3-1-28-sources-jar/ognl/NullHandler.java
* /opt/cola/permits/1239972974_1639111673.14/0/ognl-3-1-28-sources-jar/ognl/IteratorEnumeration.java
* /opt/cola/permits/1239972974_1639111673.14/0/ognl-3-1-28-sources-jar/ognl/ExpressionSyntaxException.java
* /opt/cola/permits/1239972974_1639111673.14/0/ognl-3-1-28-sources-jar/ognl/ASTOr.java
* /opt/cola/permits/1239972974_1639111673.14/0/ognl-3-1-28-sources-jar/ognl/InappropriateExpressionException.java
* /opt/cola/permits/1239972974_1639111673.14/0/ognl-3-1-28-sources-jar/ognl/DefaultClassResolver.java
* /opt/cola/permits/1239972974_1639111673.14/0/ognl-3-1-28-sources-jar/ognl/ASTAssign.java
* /opt/cola/permits/1239972974_1639111673.14/0/ognl-3-1-28-sources-jar/ognl/SetPropertyAccessor.java
* /opt/cola/permits/1239972974_1639111673.14/0/ognl-3-1-28-sources-jar/ognl/ASTSubtract.java
* /opt/cola/permits/1239972974_1639111673.14/0/ognl-3-1-28-sources-jar/ognl/ASTInstanceOf.java
* /opt/cola/permits/1239972974_1639111673.14/0/ognl-3-1-28-sources-jar/ognl/MemberAccess.java
* /opt/cola/permits/1239972974_1639111673.14/0/ognl-3-1-28-sources-jar/ognl/EvaluationPool.java
* /opt/cola/permits/1239972974_1639111673.14/0/ognl-3-1-28-sources-jar/ognl/ObjectIndexedPropertyDescriptor.java
* /opt/cola/permits/1239972974_1639111673.14/0/ognl-3-1-28-sources-jar/ognl/NumericTypes.java
* /opt/cola/permits/1239972974_1639111673.14/0/ognl-3-1-28-sources-jar/ognl/ASTBitNegate.java
* /opt/cola/permits/1239972974_1639111673.14/0/ognl-3-1-28-sources-jar/ognl/DefaultMemberAccess.java
* /opt/cola/permits/1239972974_1639111673.14/0/ognl-3-1-28-sources-jar/ognl/MapElementsAccessor.java
* /opt/cola/permits/1239972974_1639111673.14/0/ognl-3-1-28-sources-jar/ognl/EnumerationIterator.java
* /opt/cola/permits/1239972974_1639111673.14/0/ognl-3-1-28-sources-jar/ognl/ASTAdd.java
* /opt/cola/permits/1239972974_1639111673.14/0/ognl-3-1-28-sources-jar/ognl/ASTKeyValue.java
* /opt/cola/permits/1239972974_1639111673.14/0/ognl-3-1-28-sources-jar/ognl/ExpressionNode.java
* /opt/cola/permits/1239972974_1639111673.14/0/ognl-3-1-28-sources-jar/ognl/ClassResolver.java
* /opt/cola/permits/1239972974_1639111673.14/0/ognl-3-1-28-sources-jar/ognl/Node.java
* /opt/cola/permits/1239972974_1639111673.14/0/ognl-3-1-28-sources-jar/ognl/ObjectArrayPool.java

```
* /opt/cola/permits/1239972974_1639111673.14/0/ognl-3-1-28-sources-jar/ognl/IntHashMap.java
* /opt/cola/permits/1239972974_1639111673.14/0/ognl-3-1-28-sources-jar/ognl/MethodFailedException.java
* /opt/cola/permits/1239972974_1639111673.14/0/ognl-3-1-28-sources-jar/ognl/NumberElementsAccessor.java
* /opt/cola/permits/1239972974_1639111673.14/0/ognl-3-1-28-sources-jar/ognl/EnumerationPropertyAccessor.java
* /opt/cola/permits/1239972974_1639111673.14/0/ognl-3-1-28-sources-jar/ognl/ASTTest.java
* /opt/cola/permits/1239972974_1639111673.14/0/ognl-3-1-28-sources-jar/ognl/ASTGreaterEq.java
* /opt/cola/permits/1239972974_1639111673.14/0/ognl-3-1-28-sources-jar/ognl/ASTShiftLeft.java
* /opt/cola/permits/1239972974_1639111673.14/0/ognl-3-1-28-sources-jar/ognl/ASTXor.java
```

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

```
/**
```

```
* Thrown during bytecode enhancement conversions of ognl expressions to indicate
* that a certain expression isn't currently supported as a pure java bytecode enhanced
* version.
```

```
*
```

```
* <p>
```

```
* If this exception is thrown it is expected that ognl will fall back to default ognl
* evaluation of the expression.
```

```
* </p>
```

```
*
```

```
* @author jkuhnert
```

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1239972974_1639111673.14/0/ognl-3-1-28-sources-
jar/ognl/enhance/UnsupportedCompilationException.java
```

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

```
//All rights reserved.
```

```
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```

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//without specific prior written permission.
```

Found in path(s):

```
* /opt/cola/permits/1239972974_1639111673.14/0/ognl-3-1-28-sources-jar/ognl/ASTMethod.java
```

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

```
//-----
```

```
// Copyright (c) 1998-2004, Drew Davidson and Luke Blanshard
```

```
// All rights reserved.
```

```
//
```

```
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```

```

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// AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY,
// OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF
// THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
// DAMAGE.
//-----

```

```

/*
* This file defines the syntax of OGNL, the Object-Graph Navigation Language. This
* language was devised by Drew Davidson, who called it Key-Value Coding Language. Luke
* Blanshard then made up the new name and reimplemented it using ANTLR, refining and
* polishing the language a bit on the way. Drew maintained the system for a couple of
* years; then Luke converted the ANTLR grammar to JavaCC, to eliminate the run-time
* dependency on ANTLR.
*
* See package.html for a description of the language.
*/

```

```

options {
    // Parser options
    LOOKAHEAD      = 1;
    STATIC         = false;
    JAVA_UNICODE_ESCAPE = true;
    UNICODE_INPUT  = true;

    // Tree options
    MULTI          = true;
    NODE_DEFAULT_VOID = true;
}

```

PARSER_BEGIN(OgnlParser)

```
package ognl;
```

```
import java.math.*;
```

```
/**
```

```
* OgnlParser is a JavaCC parser class; it translates OGNL expressions into abstract  
* syntax trees (ASTs) that can then be interpreted by the getValue and setValue methods.
```

```
*/
```

```
public class OgnlParser
```

```
{  
}
```

PARSER_END(OgnlParser)

```
/**
```

```
* This is the top-level construct of OGNL.
```

```
*/
```

```
Node topLevelExpression() : {}
```

```
{  
    expression() <EOF> { return jjtree.rootNode(); }  
}
```

```
// sequence (level 14)
```

```
void expression() : {}
```

```
{  
    assignmentExpression() ( "," assignmentExpression() #Sequence(2) ) *  
}
```

```
// assignment expression (level 13)
```

```
void assignmentExpression() : {}
```

```
{  
    conditionalTestExpression() [ "=" assignmentExpression() #Assign(2) ]  
}
```

```
// conditional test (level 12)
```

```
void conditionalTestExpression() : {}
```

```
{  
    logicalOrExpression()  
        [ "?" conditionalTestExpression() ":" conditionalTestExpression() #Test(3) ]  
}
```

```
// logical or (||) (level 11)
```

```

void logicalOrExpression() : { }
{
    logicalAndExpression() (("||" | "or") logicalAndExpression() #Or(2) )*
}

// logical and (&&) (level 10)
void logicalAndExpression() : { }
{
    inclusiveOrExpression() ("&&" | "and") inclusiveOrExpression() #And(2) )*
}

// bitwise or non-short-circuiting or (|) (level 9)
void inclusiveOrExpression() : { }
{
    exclusiveOrExpression() ("|" | "bor") exclusiveOrExpression() #BitOr(2) )*
}

// exclusive or (^) (level 8)
void exclusiveOrExpression() : { }
{
    andExpression() ("^" | "xor") andExpression() #Xor(2) )*
}

// bitwise or non-short-circuiting and (&) (level 7)
void andExpression() : { }
{
    equalityExpression() ("&" | "band") equalityExpression() #BitAnd(2) )*
}

// equality/inequality (==/!=) (level 6)
void equalityExpression() : { }
{
    relationalExpression()
    (
        ("==" | "eq") relationalExpression() #Eq(2)
        |
        ("!=" | "neq") relationalExpression() #NotEq(2)
    )*
}

// boolean relational expressions (level 5)
void relationalExpression() : { }

```

```

{
  shiftExpression()
  (
   ("<" | "lt") shiftExpression() #Less(2)
    |
   (">" | "gt") shiftExpression() #Greater(2)
    |
   ("<=" | "lte") shiftExpression() #LessEq(2)
    |
   (">=" | "gte") shiftExpression() #GreaterEq(2)
    |
    "in" shiftExpression() #In(2)
    |
    "not" "in" shiftExpression() #NotIn(2)
  )*
}

// bit shift expressions (level 4)
void shiftExpression() : {}
{
  additiveExpression()
  (
   ("<<" | "shl") additiveExpression() #ShiftLeft(2)
    |
   (">>" | "shr") additiveExpression() #ShiftRight(2)
    |
   (">>>" | "ushr") additiveExpression() #UnsignedShiftRight(2)
  )*
}

// binary addition/subtraction (level 3)
void additiveExpression() : {}
{
  multiplicativeExpression()
  (
    "+" multiplicativeExpression() #Add(2)
    |
    "-" multiplicativeExpression() #Subtract(2)
  )*
}

// multiplication/division/remainder (level 2)
void multiplicativeExpression() : {}
{
  unaryExpression()

```

```

(
  "*" unaryExpression() #Multiply(2)
  |
  "/" unaryExpression() #Divide(2)
  |
  "%" unaryExpression() #Remainder(2)
)*
}

// unary (level 1)
void unaryExpression() : {
  StringBuffer sb;
  Token t;
  ASTInstanceof ionode;
}
{
  (
    "-" unaryExpression() #Negate(1)
    |
    "+" unaryExpression() // Just leave it there
    |
    "~" unaryExpression() #BitNegate(1)
    |
    ("!" | "not") unaryExpression() #Not(1)
    |
    navigationChain()
    [
      "instanceof"
      t = <IDENT> { sb = new StringBuffer(t.image); ionode = jjtThis; } #Instanceof(1)
      ( "." t = <IDENT>      { sb.append('.').append( t.image ); }
      )*                    { ionode.setTargetType( new String(sb) ); }
    ]
  )
}

// navigation chain: property references, method calls, projections, selections, etc.
void navigationChain() : {}
{
  primaryExpression()
  ( "."
    ( /* Prevent the "eval" ambiguity from issuing a warning; see discussion below. */
      ( LOOKAHEAD(2) methodCall() | propertyName() )
      // Also handle "{", which requires a lookahead of 2.
      | ( LOOKAHEAD(2) projection() | selection() )
      | "(" expression() ")"
    ) #Chain(2)
  )
}

```

```

| index() #Chain(2)

| "(" expression() ")" #Eval(2)

    /* Using parentheses to indicate evaluation of the current
       object makes this language ambiguous, because the
       expression "ident(args)" could be seen as a single
       method call or as a property name followed by an
       evaluation. We always put the method call first and
       turn off the ambiguity warning; we always want to
       interpret this as a method call. */

)*
}

void primaryExpression() : {
    Token t;
    String className = null;
}
{
    (
        (<CHAR_LITERAL> | <BACK_CHAR_LITERAL> | <STRING_LITERAL> | <INT_LITERAL> |
<FLT_LITERAL>)
            { jjtThis.setValue( token_source.literalValue ); } #Const(0)
        |
        "true"
            { jjtThis.setValue( Boolean.TRUE ); } #Const(0)
        |
        "false"
            { jjtThis.setValue( Boolean.FALSE ); } #Const(0)
        |
        "null" #Const(0) // Null is the default value in an ASTConst
        |
        LOOKAHEAD(2) "#this"
            { jjtThis.setName( "this" ); } #ThisVarRef(0)
        |
        LOOKAHEAD(2) "#root"
            { jjtThis.setName( "root" ); } #RootVarRef(0)
        |
        LOOKAHEAD(2) "#" t=<IDENT>
            { jjtThis.setName( t.image ); } #VarRef(0)
        |
        LOOKAHEAD(2) ":" "[" expression() "]"
            { jjtThis.setValue( jjtThis.jjtGetChild(0) ); } #Const(1)
        |
        staticReference()
        |
        LOOKAHEAD(2) constructorCall()
        |
        // Prevent the "eval" ambiguity from issuing a warning; see discussion elsewhere.
        ( LOOKAHEAD(2) methodCall() | propertyName() )
        |
        index()

```



```

|
|  "(" expression() )"
|
|  "{" [assignmentExpression() ("," assignmentExpression())*] #List "}"
|
|  LOOKAHEAD(2) ( "#" (className=classReference())? "{" [keyValueExpression() (","
keyValueExpression())*] { jjtThis.setClassName(className); } "}" ) #Map
)
}

```

```

void keyValueExpression() : { }
{
    ( assignmentExpression() (":" assignmentExpression())? ) #KeyValue
}

```

```

void staticReference() : {
    String className = "java.lang.Math";
    Token t;
}
{
    className=classReference()
    ( // Prevent the "eval" ambiguity from issuing a warning; see discussion elsewhere.
      LOOKAHEAD(2)
      staticMethodCall( className )
    |
      t=<IDENT>          { jjtThis.init( className, t.image ); } #StaticField(0)
    )
}

```

```

String classReference(): {
    String result = "java.lang.Math";
}
{
    "@ ( result=className() )? @" { return result; }
}

```

```

String className(): {
    Token t;
    StringBuffer result;
}
{
    t=<IDENT>          { result = new StringBuffer( t.image ); }
    ( "." t=<IDENT>    { result.append('.').append( t.image ); }
  )*
    { return new String(result); }
}

```

```

void constructorCall() #Ctor : {
    String className;

```

```

Token t;
StringBuffer sb;
}
{
"new" className=className()
(
  LOOKAHEAD(2) (
    "(" [ assignmentExpression() ( "," assignmentExpression() )* ] ")"
    {
      jjtThis.setClassName(className);
    }
  )
  |
  LOOKAHEAD(2) (
    "[" "]" " " [ assignmentExpression() ( "," assignmentExpression() )* ] #List "}"
    {
      jjtThis.setClassName(className);
      jjtThis.setArray(true);
    }
  )
  |
  LOOKAHEAD(2) (
    "[" assignmentExpression() "]"
    {
      jjtThis.setClassName(className);
      jjtThis.setArray(true);
    }
  )
)
)
}

```

```

void propertyName() #Property : {
  Token t;
}
{
  t=<IDENT> { jjtThis.setValue( t.image ); } #Const
}

```

```

void staticMethodCall( String className ) #StaticMethod : {
  Token t;
}
{
  t=<IDENT> "(" [ assignmentExpression() ( "," assignmentExpression() )* ] ")"
  { jjtThis.init( className, t.image ); }
}

```

```

void methodCall() #Method : {
  Token t;

```

```

}
{
    t=<IDENT> "(" [ assignmentExpression() ( "," assignmentExpression() )* ] ")"
        { jjtThis.setMethodName( t.image ); }
}

/**
 * Apply an expression to all elements of a collection, creating a new collection
 * as the result.
 */
void projection() #Project : { }
{
    "{" expression() "}"
}

void selection() : { }
{
    LOOKAHEAD(2) selectAll()
    |
    LOOKAHEAD(2) selectFirst()
    |
    LOOKAHEAD(2) selectLast()
}

/**
 * Apply a boolean expression to all elements of a collection, creating a new collection
 * containing those elements for which the expression returned true.
 */
void selectAll() #Select : { }
{
    "{" "?" expression() "}"
}

/**
 * Apply a boolean expression to all elements of a collection, creating a new collection
 * containing those elements for the first element for which the expression returned true.
 */
void selectFirst() #SelectFirst : { }
{
    "{" "^" expression() "}"
}

/**
 * Apply a boolean expression to all elements of a collection, creating a new collection
 * containing those elements for the first element for which the expression returned true.
 */
void selectLast() #SelectLast : { }
{

```

```

    "{" "$" expression() "}"
}

void index() #Property : {}
{
    "[" expression() "]" { jjtThis.setIndexedAccess(true); }
|
<DYNAMIC_SUBSCRIPT> { jjtThis.setValue( token_source.literalValue ); } #Const
{
    jjtThis.setIndexedAccess(true);
}
}

```

// LEXER PRODUCTIONS

TOKEN_MGR_DECLS:

```

{
    /** Holds the last value computed by a constant token. */
    Object literalValue;
    /** Holds the last character escaped or in a character literal. */
    private char charValue;
    /** Holds char literal start token. */
    private char charLiteralStartQuote;
    /** Holds the last string literal parsed. */
    private StringBuffer stringBuffer;

    /** Converts an escape sequence into a character value. */
    private char escapeChar()
    {
        int ofs = image.length() - 1;
        switch ( image.charAt(ofs) ) {
            case 'n': return '\n';
            case 'r': return '\r';
            case 't': return '\t';
            case 'b': return '\b';
            case 'f': return '\f';
            case '\\': return '\\';
            case '\"': return '\"';
            case '\"': return '\"';
        }

        // Otherwise, it's an octal number. Find the backslash and convert.
        while ( image.charAt(--ofs) != '\\' )
            {}
        int value = 0;
        while ( ++ofs < image.length() )
            value = (value << 3) | (image.charAt(ofs) - '0');
        return (char) value;
    }
}

```

```

}

private Object makeInt()
{
    Object result;
    String s = image.toString();
    int base = 10;

    if ( s.charAt(0) == '0' )
        base = (s.length() > 1 && (s.charAt(1) == 'x' || s.charAt(1) == 'X'))? 16 : 8;
    if ( base == 16 )
        s = s.substring(2); // Trim the 0x off the front
    switch ( s.charAt(s.length()-1) ) {
        case 'l': case 'L':
            result = Long.valueOf( s.substring(0,s.length()-1), base );
            break;

        case 'h': case 'H':
            result = new BigInteger( s.substring(0,s.length()-1), base );
            break;

        default:
            result = Integer.valueOf( s, base );
            break;
    }
    return result;
}

private Object makeFloat()
{
    String s = image.toString();
    switch ( s.charAt(s.length()-1) ) {
        case 'f': case 'F':
            return Float.valueOf( s );

        case 'b': case 'B':
            return new BigDecimal( s.substring(0,s.length()-1) );

        case 'd': case 'D':
        default:
            return Double.valueOf( s );
    }
}

// Whitespace -- ignored
SKIP:
{ " " | "\t" | "\f" | "\r" | "\n" }

```

```

// An identifier.
TOKEN:
{
  < IDENT: <LETTER> (<LETTER>|<DIGIT>)* >
|
  < #LETTER: [
    "\u0024",
    "\u0041"-"\u005a",
    "\u005f",
    "\u0061"-"\u007a",
    "\u00c0"-"\u00d6",
    "\u00d8"-"\u00f6",
    "\u00f8"-"\u00ff",
    "\u0100"-"\u01ff",
    "\u3040"-"\u318f",
    "\u3300"-"\u337f",
    "\u3400"-"\u3d2d",
    "\u4e00"-"\u9fff",
    "\uf900"-"\uffaf"
  ] >
|
  < #DIGIT:
  [
    "\u0030"-"\u0039",
    "\u0060"-"\u0069",
    "\u00f0"-"\u00f9",
    "\u0966"-"\u096f",
    "\u09e6"-"\u09ef",
    "\u0a66"-"\u0a6f",
    "\u0ae6"-"\u0aef",
    "\u0b66"-"\u0b6f",
    "\u0be7"-"\u0bef",
    "\u0c66"-"\u0c6f",
    "\u0ce6"-"\u0cef",
    "\u0d66"-"\u0d6f",
    "\u0e50"-"\u0e59",
    "\u0ed0"-"\u0ed9",
    "\u1040"-"\u1049"
  ] >
}

/**
 * Token for "dynamic subscripts", which are one of: [^], [], [$], and [*]. The
 * appropriate constant from the DynamicSubscript class is stored in the token manager's
 * "value" field.
 */
TOKEN:

```

```

{
  < DYNAMIC_SUBSCRIPT: "[" ["^","|","$","*"] "]" >
  {
    switch (image.charAt(1)) {
      case '^': literalValue = DynamicSubscript.first; break;
      case '|': literalValue = DynamicSubscript.mid; break;
      case '$': literalValue = DynamicSubscript.last; break;
      case '*': literalValue = DynamicSubscript.all; break;
    }
  }
}

/**
 * Character and string literals, whose object value is stored in the token manager's
 * "literalValue" field.
 */
MORE:
{
  "" : WithinBackCharLiteral
|
  "" { stringBuffer = new StringBuffer(); }: WithinCharLiteral
|
  "" { stringBuffer = new StringBuffer(); }: WithinStringLiteral
}

<WithinCharLiteral> MORE:
{
  < ESC: "\" ( [\"n\", \"r\", \"t\", \"b\", \"f\", \"\\\", \"\", \"^\", \"\"]
    | ([\"0\"-\"3\"])? [\"0\"-\"7\"] ([\"0\"-\"7\"])?
    )
  >
  { charValue = escapeChar(); stringBuffer.append(charValue); }
|
  < (~[\"\", \"\\\"] ) >
  { charValue = image.charAt( image.length()-1 ); stringBuffer.append(charValue); }
}

<WithinCharLiteral> TOKEN:
{
  < CHAR_LITERAL: "" >
  {
    if (stringBuffer.length() == 1) {
      literalValue = new Character( charValue );
    } else {
      literalValue = new String( stringBuffer );
    }
  }
}
: DEFAULT

```

```
}
```

```
<WithinBackCharLiteral> MORE:
```

```
{  
  < BACK_CHAR_ESC: <ESC> >  
    { charValue = escapeChar(); }  
  |  
  < (~["^", "\\"]) >  
    { charValue = image.charAt( image.length()-1 ); }  
}
```

```
<WithinBackCharLiteral> TOKEN:
```

```
{  
  < BACK_CHAR_LITERAL: "" >  
    { literalValue = new Character( charValue ); }; DEFAULT  
}
```

```
<WithinStringLiteral> MORE:
```

```
{  
  < STRING_ESC: <ESC> >  
    { stringBuffer.append( escapeChar() ); }  
  |  
  < (~["\\"", "\\"]) >  
    { stringBuffer.append( image.charAt(image.length()-1) ); }  
}
```

```
<WithinStringLiteral> TOKEN:
```

```
{  
  <STRING_LITERAL: "\"" >  
    { literalValue = new String( stringBuffer ); }  
    : DEFAULT  
}
```

```
/**
```

```
* Integer or real Numeric literal, whose object value is stored in the token manager's
```

```
* "literalValue" field.
```

```
*/
```

```
TOKEN:
```

```
{  
  < INT_LITERAL:  
    ( "0" ([ "0"-"7" ])* | [ "1"-"9" ] ([ "0"-"9" ])* | "0" [ "x", "X" ] ([ "0"-"9", "a"-"f", "A"-"F" ])+ )  
    ([ "l", "L", "h", "H" ])?  
  >  
    { literalValue =  
      makeInt(); }  
  |  
  < FLT_LITERAL:  
    ( <DEC_FLT> (<EXPONENT>)? (<FLT_SUFF>)?
```



```

    | <DEC_DIGITS> <EXPONENT> (<FLT_SUFF>)?
    | <DEC_DIGITS> <FLT_SUFF>
    )
>
    { literalValue = makeFloat(); }

| < #DEC_FLT: ([0"-9"])+ "." ([0"-9"])* | "." ([0"-9"])+ >
| < #DEC_DIGITS: ([0"-9"])+ >
| < #EXPONENT: ["e","E"] ([+,"-"])? ([0"-9"])+ >
| < #FLT_SUFF: ["d","D","f","F","b","B"] >
}

```

Found in path(s):

* /opt/cola/permits/1239972974_1639111673.14/0/ognl-3-1-28-sources-jar/ognl/ognl.jjt

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```

Found in path(s):

```

* /opt/cola/permits/1239972974_1639111673.14/0/ognl-3-1-28-sources-jar/ognl/ASTProperty.java
* /opt/cola/permits/1239972974_1639111673.14/0/ognl-3-1-28-sources-jar/ognl/OgnlOps.java
* /opt/cola/permits/1239972974_1639111673.14/0/ognl-3-1-28-sources-jar/ognl/MapPropertyAccessor.java
* /opt/cola/permits/1239972974_1639111673.14/0/ognl-3-1-28-sources-jar/ognl/ASTEval.java
* /opt/cola/permits/1239972974_1639111673.14/0/ognl-3-1-28-sources-jar/ognl/ASTThisVarRef.java
* /opt/cola/permits/1239972974_1639111673.14/0/ognl-3-1-28-sources-jar/ognl/ASTStaticField.java
* /opt/cola/permits/1239972974_1639111673.14/0/ognl-3-1-28-sources-jar/ognl/ASTSelect.java
* /opt/cola/permits/1239972974_1639111673.14/0/ognl-3-1-28-sources-jar/ognl/SimpleNode.java
* /opt/cola/permits/1239972974_1639111673.14/0/ognl-3-1-28-sources-jar/ognl/ASTRootVarRef.java
* /opt/cola/permits/1239972974_1639111673.14/0/ognl-3-1-28-sources-jar/ognl/ArrayPropertyAccessor.java
* /opt/cola/permits/1239972974_1639111673.14/0/ognl-3-1-28-sources-jar/ognl/ListPropertyAccessor.java
* /opt/cola/permits/1239972974_1639111673.14/0/ognl-3-1-28-sources-jar/ognl/ObjectMethodAccessor.java
* /opt/cola/permits/1239972974_1639111673.14/0/ognl-3-1-28-sources-jar/ognl/ASTList.java
* /opt/cola/permits/1239972974_1639111673.14/0/ognl-3-1-28-sources-jar/ognl/Ognl.java
* /opt/cola/permits/1239972974_1639111673.14/0/ognl-3-1-28-sources-jar/ognl/ObjectPropertyAccessor.java
* /opt/cola/permits/1239972974_1639111673.14/0/ognl-3-1-28-sources-jar/ognl/ASTMap.java
* /opt/cola/permits/1239972974_1639111673.14/0/ognl-3-1-28-sources-jar/ognl/ASTStaticMethod.java
* /opt/cola/permits/1239972974_1639111673.14/0/ognl-3-1-28-sources-jar/ognl/ASTProject.java
* /opt/cola/permits/1239972974_1639111673.14/0/ognl-3-1-28-sources-jar/ognl/ASTChain.java
* /opt/cola/permits/1239972974_1639111673.14/0/ognl-3-1-28-sources-jar/ognl/OgnlContext.java

```

* /opt/cola/permits/1239972974_1639111673.14/0/ognl-3-1-28-sources-jar/ognl/ASTConst.java
* /opt/cola/permits/1239972974_1639111673.14/0/ognl-3-1-28-sources-jar/ognl/ASTCtor.java
* /opt/cola/permits/1239972974_1639111673.14/0/ognl-3-1-28-sources-jar/ognl/PropertyAccessor.java
* /opt/cola/permits/1239972974_1639111673.14/0/ognl-3-1-28-sources-jar/ognl/ASTVarRef.java
* /opt/cola/permits/1239972974_1639111673.14/0/ognl-3-1-28-sources-jar/ognl/OgnlRuntime.java

1.635 source-map 0.5.7

1.636 woodstox 6.2.4

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1.637 findbugs-jsr305 1.3.9

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```
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* Official home: http://www.jcip.net  
*/
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1010092589_1591857556.34/0/jsr305-1-3-9-
```

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

1.638 io-swagger-swagger-annotations 1.5.20

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```
Manifest-Version: 1.0
Bnd-LastModified: 1527173913242
Build-Jdk: 1.8.0_144
Built-By: ron.ratovsky
Bundle-Description: Sonatype helps open source projects to set up Maven repositories on https://oss.sonatype.org/
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.html
Bundle-ManifestVersion: 2
Bundle-Name: swagger-annotations
Bundle-SymbolicName: io.swagger.annotations
Bundle-Version: 1.5.20
Created-By: Apache Maven Bundle Plugin
Export-Package: io.swagger.annotations;version="1.5.20"
implementation-version: 1.5.20
mode: development
package: io.swagger
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.7))"
Tool: Bnd-3.3.0.201609221906
url: https://github.com/swagger-api/swagger-core/modules/swagger-annotations
```

Found in path(s):

```
* /opt/cola/permits/1131003388_1612875366.16/0/swagger-annotations-1-5-20-jar/META-INF/MANIFEST.MF
```

1.639 aws-java-sdk 1.11.172

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1.641 jopt-simple 5.0.2

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1.642 d3-request 1.0.6

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1.643 presto-parser 0.202

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```

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1.644 avalon-framework-api 4.1.3

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1.645 java-classmate 1.3.0

1.645.1 Available under license :

Java ClassMate library was originally written by Tatu Saloranta (tatu.saloranta@iki.fi)

Other developers who have contributed code are:

* Brian Langel

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1.646 slf4j-api-module 1.6.3

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1.647 d3-hierarchy 1.1.9

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1.649 jackson-core 2.12.4

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* /opt/cola/permits/1145328583_1616162983.99/0/spring-aspects-4-3-11-release-sources-1-jar/org/springframework/transaction/aspectj/AbstractTransactionAspect.aj

* /opt/cola/permits/1145328583_1616162983.99/0/spring-aspects-4-3-11-release-sources-1-jar/org/springframework/cache/aspectj/AnnotationCacheAspect.aj

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* /opt/cola/permits/1145328583_1616162983.99/0/spring-aspects-4-3-11-release-sources-1-jar/org/springframework/beans/factory/aspectj/ConfigurableObject.java

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* /opt/cola/permits/1145328583_1616162983.99/0/spring-aspects-4-3-11-release-sources-1-jar/org/springframework/cache/aspectj/AspectJCCachingConfiguration.java

* /opt/cola/permits/1145328583_1616162983.99/0/spring-aspects-4-3-11-release-sources-1-jar/org/springframework/scheduling/aspectj/AnnotationAsyncExecutionAspect.aj

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- * /opt/cola/permits/1145328583_1616162983.99/0/spring-aspects-4-3-11-release-sources-1-jar/org/springframework/mock/staticmock/AnnotationDrivenStaticEntityMockingControl.aj
- * /opt/cola/permits/1145328583_1616162983.99/0/spring-aspects-4-3-11-release-sources-1-jar/org/springframework/transaction/aspectj/AspectJTransactionManagementConfiguration.java
- * /opt/cola/permits/1145328583_1616162983.99/0/spring-aspects-4-3-11-release-sources-1-jar/org/springframework/cache/aspectj/AbstractCacheAspect.aj
- * /opt/cola/permits/1145328583_1616162983.99/0/spring-aspects-4-3-11-release-sources-1-jar/org/springframework/orm/jpa/aspectj/JpaExceptionTranslatorAspect.aj
- * /opt/cola/permits/1145328583_1616162983.99/0/spring-aspects-4-3-11-release-sources-1-jar/org/springframework/scheduling/aspectj/AspectJAsyncConfiguration.java
- * /opt/cola/permits/1145328583_1616162983.99/0/spring-aspects-4-3-11-release-sources-1-jar/org/springframework/cache/aspectj/JCacheCacheAspect.aj
- * /opt/cola/permits/1145328583_1616162983.99/0/spring-aspects-4-3-11-release-sources-1-jar/org/springframework/beans/factory/aspectj/AbstractInterfaceDrivenDependencyInjectionAspect.aj
- * /opt/cola/permits/1145328583_1616162983.99/0/spring-aspects-4-3-11-release-sources-1-jar/org/springframework/cache/aspectj/AspectJCacheConfiguration.java
- * /opt/cola/permits/1145328583_1616162983.99/0/spring-aspects-4-3-11-release-sources-1-jar/org/springframework/beans/factory/aspectj/AbstractDependencyInjectionAspect.aj
- * /opt/cola/permits/1145328583_1616162983.99/0/spring-aspects-4-3-11-release-sources-1-jar/org/springframework/beans/factory/aspectj/AnnotationBeanConfigurerAspect.aj
- * /opt/cola/permits/1145328583_1616162983.99/0/spring-aspects-4-3-11-release-sources-1-jar/org/springframework/mock/staticmock/AbstractMethodMockingControl.aj

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1.655 protocol-buffer-java-api 3.1.0

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* Small patch to fix Python CallMethod().

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* Small optimizations to Python serialization.

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* VI syntax highlighting tweaks.

* Fix compiler to not make output executable.

Dilip Joseph <dilip.antony.joseph@gmail.com>

* Heuristic detection of sub-messages when printing unknown fields in text format.

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* Added @Override annotation to generated Java code where appropriate.

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* Solaris 10 + Sun Studio fixes.

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* Slicing support for repeated scalar fields for the Python API.

Oleg Smolsky <oleg.smolsky@gmail.com>
* MS Visual Studio error format option.
* Detect unordered_map in stl_hash.m4.

Brian Olson <brianolson@google.com>
* gzip/zlib I/O support.

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* Fixed warnings about generated constructors not explicitly initializing all fields (only present with certain compiler settings).
* Added generation of field number constants.

Wink Saville <wink@google.com>
* Fixed initialization ordering problem in logging code.

Will Pierce <willp@nuclei.com>
* Small patch improving performance of in Python serialization.

Alexandre Vassalotti <alexandre@peadrop.com>
* Emacs mode for Protocol Buffers (editors/protobuf-mode.el).

Scott Stafford <scott.stafford@gmail.com>
* Added Swap(), SwapElements(), and RemoveLast() to Reflection interface.

Alexander Melnikov <alm@sibmail.ru>
* HPUX support.

Oliver Jowett <oliver.jowett@gmail.com>
* Detect whether zlib is new enough in configure script.
* Fixes for Solaris 10 32/64-bit confusion.

Evan Jones <evanj@mit.edu>
* Optimize Java serialization code when writing a small message to a stream.
* Optimize Java serialization of strings so that UTF-8 encoding happens only once per string per serialization call.
* Clean up some Java warnings.
* Fix bug with permanent callbacks that delete themselves when run.

Michael Kucharski <m.kucharski@gmail.com>
* Added CodedInputStream.getTotalBytesRead().

Kacper Kowalik <xarthisius.kk@gmail.com>
* Fixed m4/acx_pthread.m4 problem for some Linux distributions.

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* Fixed detection of sched_yield on Solaris.
* Added atomicops for Solaris

Andrew Paprocki <andrew@ishiboo.com>
* Fixed minor IBM xLC compiler build issues
* Added atomicops for AIX (POWER)

1.656 quick-json 1.0.4

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*
*
*/

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* /opt/cola/permits/1239972999_1639111677.87/0/quick-json-1-0-4-sources-jar/com/codesnippets4all/json/constants/JSONConstants.java
* /opt/cola/permits/1239972999_1639111677.87/0/quick-json-1-0-4-sources-jar/com/codesnippets4all/json/serializers/IterableDataSerializer.java
* /opt/cola/permits/1239972999_1639111677.87/0/quick-json-1-0-4-sources-jar/com/codesnippets4all/json/parsers/JsonParserFactory.java
* /opt/cola/permits/1239972999_1639111677.87/0/quick-json-1-0-4-sources-jar/com/codesnippets4all/json/config/handlers/ConfigHandler.java
* /opt/cola/permits/1239972999_1639111677.87/0/quick-json-1-0-4-sources-jar/com/codesnippets4all/json/serializers/MapSerializer.java
* /opt/cola/permits/1239972999_1639111677.87/0/quick-json-1-0-4-sources-jar/com/codesnippets4all/json/types/DefaultCollectionType.java
* /opt/cola/permits/1239972999_1639111677.87/0/quick-json-1-0-4-sources-jar/com/codesnippets4all/json/serializers/JsonSerializer.java
* /opt/cola/permits/1239972999_1639111677.87/0/quick-json-1-0-4-sources-jar/com/codesnippets4all/json/serializers/pojos/SerializerOptions.java
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* /opt/cola/permits/1239972999_1639111677.87/0/quick-json-1-0-4-sources-jar/com/codesnippets4all/json/types/CollectionTypes.java
* /opt/cola/permits/1239972999_1639111677.87/0/quick-json-1-0-4-sources-jar/com/codesnippets4all/json/exceptions/JSONParsingException.java
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* /opt/cola/permits/1239972999_1639111677.87/0/quick-json-1-0-4-sources-

```
jar/com/codesnippets4all/json/serializers/SetSerializer.java
* /opt/cola/permits/1239972999_1639111677.87/0/quick-json-1-0-4-sources-
jar/com/codesnippets4all/json/utils/ClassUtils.java
* /opt/cola/permits/1239972999_1639111677.87/0/quick-json-1-0-4-sources-
jar/com/codesnippets4all/json/parsers/JSONParser.java
* /opt/cola/permits/1239972999_1639111677.87/0/quick-json-1-0-4-sources-
jar/com/codesnippets4all/json/serializers/PropertiesSerializer.java
* /opt/cola/permits/1239972999_1639111677.87/0/quick-json-1-0-4-sources-
jar/com/codesnippets4all/json/validations/custom/PatternValidator.java
* /opt/cola/permits/1239972999_1639111677.87/0/quick-json-1-0-4-sources-
jar/com/codesnippets4all/json/generators/JsonGeneratorFactory.java
* /opt/cola/permits/1239972999_1639111677.87/0/quick-json-1-0-4-sources-
jar/com/codesnippets4all/json/utils/CachedInstances.java
* /opt/cola/permits/1239972999_1639111677.87/0/quick-json-1-0-4-sources-
jar/com/codesnippets4all/json/validations/custom/SpecialValidator.java
* /opt/cola/permits/1239972999_1639111677.87/0/quick-json-1-0-4-sources-
jar/com/codesnippets4all/json/exceptions/JSONConfigInitializationException.java
* /opt/cola/permits/1239972999_1639111677.87/0/quick-json-1-0-4-sources-
jar/com/codesnippets4all/json/serializers/ClassSerializer.java
* /opt/cola/permits/1239972999_1639111677.87/0/quick-json-1-0-4-sources-
jar/com/codesnippets4all/json/config/handlers/ValidationConfigType.java
* /opt/cola/permits/1239972999_1639111677.87/0/quick-json-1-0-4-sources-
jar/com/codesnippets4all/json/serializers/ListSerializer.java
* /opt/cola/permits/1239972999_1639111677.87/0/quick-json-1-0-4-sources-
jar/com/codesnippets4all/json/config/handlers/JsonConfigHandler.java
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```

```
*
*
*/
```

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

```
* /opt/cola/permits/1239972999_1639111677.87/0/quick-json-1-0-4-sources-
jar/com/codesnippets4all/json/serializers/ArraySerializer.java
* /opt/cola/permits/1239972999_1639111677.87/0/quick-json-1-0-4-sources-
```

1.657 d3-time-format 2.3.0

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1.659 apache-poi-ooxml 3.8-beta4

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1.661 aws-java-sdk-for-aws-kms 1.11.257

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1.662 kerby-kerb-admin 1.0.1

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Protocol Buffers - Google's data interchange format

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1.663 apache-hadoop 3.3.1

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sha@2.0.1

URL: <https://github.com/ForbesLindesay/sha.git>

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xmldom@0.1.31

URL: [git://github.com/xmldom/xmldom.git](https://github.com/xmldom/xmldom.git)

VendorName: jindw

VendorUrl: <https://github.com/xmldom/xmldom>

(MIT AND JSON)

jshint@2.10.3

URL: <https://github.com/jshint/jshint.git>

VendorName: Anton Kovalyov

VendorUrl: <http://jshint.com/>

(MIT OR Apache-2.0)

ember-test-helpers@0.5.34

URL: <https://github.com/switchfly/ember-test-helpers.git>

(WTFPL OR MIT)

opener@1.4.3

URL: <https://github.com/domenic/opener.git>

VendorName: Domenic Denicola

VendorUrl: <https://domenic.me/>

path-is-inside@1.0.2

URL: <https://github.com/domenic/path-is-inside.git>

VendorName: Domenic Denicola

VendorUrl: <https://domenic.me>

Apache-2.0

aws-sign2@0.6.0

URL: <https://github.com/mikeal/aws-sign>

VendorName: Mikeal Rogers

VendorUrl: <http://www.futurealooof.com>

aws-sign2@0.7.0

URL: <https://github.com/mikeal/aws-sign>

VendorName: Mikeal Rogers

VendorUrl: <http://www.futurealooof.com>

bser@2.1.1

URL: <https://github.com/facebook/watchman>

VendorName: Wez Furlong

VendorUrl: <https://facebook.github.io/watchman/docs/bser.html>

caseless@0.11.0

URL: <https://github.com/mikeal/caseless>

VendorName: Mikeal Rogers

caseless@0.12.0

URL: <https://github.com/mikeal/caseless>

VendorName: Mikeal Rogers

fb-watchman@2.0.1

URL: <git@github.com:facebook/watchman.git>

VendorName: Wez Furlong

VendorUrl: <https://facebook.github.io/watchman/>

forever-agent@0.6.1

URL: <https://github.com/mikeal/forever-agent>

VendorName: Mikeal Rogers

VendorUrl: <http://www.futurealooof.com>

kew@0.7.0

URL: <https://github.com/Medium/kew.git>

VendorUrl: <https://github.com/Medium/kew>

less@2.7.3

URL: <https://github.com/less/less.js.git>
VendorName: Alexis Sellier
VendorUrl: <http://lesscss.org/>
oauth-sign@0.8.2
URL: <https://github.com/mikeal/oauth-sign>
VendorName: Mikeal Rogers
VendorUrl: <http://www.futurealooof.com>
oauth-sign@0.9.0
URL: <https://github.com/mikeal/oauth-sign>
VendorName: Mikeal Rogers
VendorUrl: <http://www.futurealooof.com>
phantomjs-prebuilt@2.1.13
URL: <git://github.com/Medium/phantomjs.git>
VendorName: Dan Papius
VendorUrl: <https://github.com/Medium/phantomjs>
request@2.65.0
URL: <https://github.com/request/request.git>
VendorName: Mikeal Rogers
request@2.74.0
URL: <https://github.com/request/request.git>
VendorName: Mikeal Rogers
request@2.81.0
URL: <https://github.com/request/request.git>
VendorName: Mikeal Rogers
request@2.88.0
URL: <https://github.com/request/request.git>
VendorName: Mikeal Rogers
spdx-correct@3.1.0
URL: <https://github.com/jslicense/spdx-correct.js.git>
VendorName: Kyle E. Mitchell
VendorUrl: <https://kemitchell.com>
spdx@0.4.3
URL: <https://github.com/kemitchell/spdx.js.git>
VendorName: Kyle E. Mitchell
VendorUrl: <https://github.com/kemitchell/spdx.js>
true-case-path@1.0.3
URL: <git+https://github.com/barsh/true-case-path.git>
VendorName: barsh
VendorUrl: <https://github.com/barsh/true-case-path#readme>
tunnel-agent@0.4.3
URL: <https://github.com/mikeal/tunnel-agent>
VendorName: Mikeal Rogers
VendorUrl: <http://www.futurealooof.com>
tunnel-agent@0.6.0
URL: <https://github.com/mikeal/tunnel-agent>
VendorName: Mikeal Rogers
VendorUrl: <http://www.futurealooof.com>
validate-npm-package-license@3.0.4

URL: <https://github.com/kemitchell/validate-npm-package-license.js.git>
VendorName: Kyle E. Mitchell
VendorUrl: <https://kemitchell.com>
walker@1.0.7
URL: <https://github.com/daaku/nodejs-walker>
VendorName: Naitik Shah
VendorUrl: <https://github.com/daaku/nodejs-walker>
websocket-driver@0.7.3
URL: <git://github.com/faye/websocket-driver-node.git>
VendorName: James Coglan
VendorUrl: <https://github.com/faye/websocket-driver-node>
workerpool@2.3.3
URL: <git://github.com/josdejong/workerpool.git>
VendorName: Jos de Jong
VendorUrl: <https://github.com/josdejong/workerpool>
Apache*
watch@0.10.0
URL: <git://github.com/mikeal/watch.git>
VendorName: Mikeal Rogers
VendorUrl: <https://github.com/mikeal/watch>
Artistic-2.0
npm@2.14.10
URL: <https://github.com/npm/npm>
VendorName: Isaac Z. Schlueter
VendorUrl: <https://docs.npmjs.com/>
BSD
graceful-fs@2.0.3
URL: <git://github.com/isaacs/node-graceful-fs.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me>
mute-stream@0.0.4
URL: <git://github.com/isaacs/mute-stream>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>
osenv@0.0.3
URL: <git://github.com/isaacs/osenv>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>
tar@1.0.3
URL: <git://github.com/isaacs/node-tar.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>
BSD-2-Clause
cmd-shim@2.0.2
URL: <https://github.com/ForbesLindesay/cmd-shim.git>
configstore@1.2.1
URL: <https://github.com/yeoman/configstore.git>
VendorName: Sindre Sorhus

VendorUrl: sindresorhus.com
domelementtype@1.3.1
URL: [git://github.com/fb55/domelementtype.git](https://github.com/fb55/domelementtype.git)
VendorName: Felix Boehm

domelementtype@2.0.1
URL: [git://github.com/fb55/domelementtype.git](https://github.com/fb55/domelementtype.git)
VendorName: Felix Boehm

domhandler@2.3.0
URL: [git://github.com/fb55/DomHandler.git](https://github.com/fb55/DomHandler.git)
VendorName: Felix Boehm

domutils@1.5.1
URL: [git://github.com/FB55/domutils.git](https://github.com/FB55/domutils.git)
VendorName: Felix Boehm

entities@1.0.0
URL: [git://github.com/fb55/node-entities.git](https://github.com/fb55/node-entities.git)
VendorName: Felix Boehm

entities@1.1.2
URL: [git://github.com/fb55/entities.git](https://github.com/fb55/entities.git)
VendorName: Felix Boehm

entities@2.0.0
URL: [git://github.com/fb55/entities.git](https://github.com/fb55/entities.git)
VendorName: Felix Boehm

esprima@2.7.3
URL: <https://github.com/jquery/esprima.git>
VendorName: Ariya Hidayat
VendorUrl: <http://esprima.org/>

esprima@3.1.3
URL: <https://github.com/jquery/esprima.git>
VendorName: Ariya Hidayat
VendorUrl: <http://esprima.org/>

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URL: <https://github.com/jquery/esprima.git>
VendorName: Ariya Hidayat
VendorUrl: <http://esprima.org/>

esutils@2.0.3
URL: <http://github.com/estools/esutils.git>
VendorUrl: <https://github.com/estools/esutils>

extract-zip@1.5.0
URL: [git+ssh://git@github.com/maxogden/extract-zip.git](https://github.com/maxogden/extract-zip.git)
VendorName: max ogden
VendorUrl: <https://github.com/maxogden/extract-zip>

github-url-from-username-repo@1.0.2
URL: [git@github.com:robertkowalski/github-url-from-username-repo.git](https://github.com/robertkowalski/github-url-from-username-repo.git)
VendorName: Robert Kowalski

normalize-package-data@2.3.8
URL: [git://github.com/npm/normalize-package-data.git](https://github.com/npm/normalize-package-data.git)
VendorName: Meryn Stol

normalize-package-data@2.5.0

URL: [git://github.com/npm/normalize-package-data.git](https://github.com/npm/normalize-package-data.git)
VendorName: Meryn Stol
npm-install-checks@1.0.7
URL: [git://github.com/npm/npm-install-checks.git](https://github.com/npm/npm-install-checks.git)
VendorName: Robert Kowalski
VendorUrl: <https://github.com/npm/npm-install-checks>
npm-user-validate@0.1.5
URL: [git://github.com/npm/npm-user-validate.git](https://github.com/npm/npm-user-validate.git)
VendorName: Robert Kowalski
regenerator@0.8.40
URL: [git://github.com/facebook/regenerator.git](https://github.com/facebook/regenerator.git)
VendorName: Ben Newman
VendorUrl: <http://github.com/facebook/regenerator>
regjsparser@0.1.5
URL: [git@github.com:jviereck/regjsparser.git](https://github.com:jviereck/regjsparser.git)
VendorName: 'Julian Viereck'
VendorUrl: <https://github.com/jviereck/regjsparser>
uglify-js@2.8.29
URL: <https://github.com/mishoo/UglifyJS2.git>
VendorName: Mihai Bazon
VendorUrl: <http://lisperator.net/uglifyjs>
uri-js@4.2.2
URL: <http://github.com/garycourt/uri-js>
VendorName: Gary Court
VendorUrl: <https://github.com/garycourt/uri-js>
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bcrypt-pbkdf@1.0.2
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boom@2.10.1
URL: [git://github.com/hapijs/boom](https://github.com/hapijs/boom)
cpr@0.4.2
URL: <http://github.com/davglass/cpr.git>
VendorName: Dav Glass
cryptiles@2.0.5
URL: [git://github.com/hapijs/cryptiles](https://github.com/hapijs/cryptiles)
hawk@3.1.3
URL: [git://github.com/hueniverse/hawk](https://github.com/hueniverse/hawk)
VendorName: Eran Hammer
VendorUrl: <http://hueniverse.com>
hoek@2.16.3
URL: [git://github.com/hapijs/hoek](https://github.com/hapijs/hoek)
js-base64@2.5.1
URL: [git://github.com/dankogai/js-base64.git](https://github.com/dankogai/js-base64.git)
VendorName: Dan Kogai
makeerror@1.0.11
URL: <https://github.com/daaku/nodejs-makeerror>
VendorName: Naitik Shah
printf@0.2.5

URL: <https://github.com/wdavidw/node-printf.git>
VendorName: David Worms
VendorUrl: <http://www.adaltas.com/projects/node-printf>

qs@5.1.0
URL: <https://github.com/hapijs/qs.git>
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URL: <https://github.com/ljharb/qs.git>
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qs@6.7.0
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VendorUrl: <https://github.com/ljharb/qs>

shelljs@0.3.0
URL: <git://github.com/arturadib/shelljs.git>
VendorName: Artur Adib
VendorUrl: <http://github.com/arturadib/shelljs>

source-map@0.1.32
URL: <http://github.com/mozilla/source-map.git>
VendorName: Nick Fitzgerald
VendorUrl: <https://github.com/mozilla/source-map>

source-map@0.1.43
URL: <http://github.com/mozilla/source-map.git>
VendorName: Nick Fitzgerald
VendorUrl: <https://github.com/mozilla/source-map>

source-map@0.4.4
URL: <http://github.com/mozilla/source-map.git>
VendorName: Nick Fitzgerald
VendorUrl: <https://github.com/mozilla/source-map>

source-map@0.5.7
URL: <http://github.com/mozilla/source-map.git>
VendorName: Nick Fitzgerald
VendorUrl: <https://github.com/mozilla/source-map>

sprintf-js@1.0.3
URL: <https://github.com/alexei/sprintf.js.git>
VendorName: Alexandru Marasteanu
VendorUrl: <http://alexei.ro/>

sprintf-js@1.1.2
URL: <https://github.com/alexei/sprintf.js.git>
VendorName: Alexandru Mrteanu

tmpl@1.0.4
URL: <https://github.com/daaku/nodejs-tmpl>
VendorName: Naitik Shah
VendorUrl: <https://github.com/nshah/nodejs-tmpl>

tough-cookie@2.2.2
URL: <git://github.com/SalesforceEng/tough-cookie.git>
VendorName: Jeremy Stashewsky
VendorUrl: <https://github.com/SalesforceEng/tough-cookie>

tough-cookie@2.3.4
URL: <git://github.com/salesforce/tough-cookie.git>
VendorName: Jeremy Stashewsky
VendorUrl: <https://github.com/salesforce/tough-cookie>

tough-cookie@2.4.3
URL: <git://github.com/salesforce/tough-cookie.git>
VendorName: Jeremy Stashewsky
VendorUrl: <https://github.com/salesforce/tough-cookie>

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amdefine@1.0.1
URL: <https://github.com/jrburke/amdefine.git>
VendorName: James Burke
VendorUrl: <http://github.com/jrburke/amdefine>

BSD*

diff@1.4.0
URL: <git://github.com/kpdecker/jsdiff.git>

esprima-fb@12001.1.0-dev-harmony-fb
URL: <http://github.com/facebook/esprima.git>
VendorName: Ariya Hidayat
VendorUrl: <https://github.com/facebook/esprima/tree/fb-harmony>

esprima-fb@15001.1001.0-dev-harmony-fb
URL: <http://github.com/facebook/esprima.git>
VendorName: Ariya Hidayat
VendorUrl: <https://github.com/facebook/esprima/tree/fb-harmony>

json-schema@0.2.3
URL: <http://github.com/kriszyp/json-schema>
VendorName: Kris Zyp

CC-BY-3.0

spdx-exceptions@2.2.0
URL: <https://github.com/kemitchell/spdx-exceptions.json.git>
VendorName: The Linux Foundation

CC0-1.0

spdx-license-ids@3.0.5
URL: <https://github.com/shinnn/spdx-license-ids.git>
VendorName: Shinnosuke Watanabe
VendorUrl: <https://github.com/shinnn>

ISC

abbrev@1.0.9
URL: <http://github.com/isaacs/abbrev-js>
VendorName: Isaac Z. Schlueter

abbrev@1.1.1
URL: <http://github.com/isaacs/abbrev-js>
VendorName: Isaac Z. Schlueter

anymatch@1.3.2
URL: <https://github.com/es128/anymatch>
VendorName: Elan Shanker
VendorUrl: <https://github.com/es128/anymatch>

aproba@1.2.0
URL: <https://github.com/iarna/aproba>
VendorName: Rebecca Turner
VendorUrl: <https://github.com/iarna/aproba>

are-we-there-yet@1.0.6
URL: <https://github.com/iarna/are-we-there-yet.git>
VendorName: Rebecca Turner
VendorUrl: <https://github.com/iarna/are-we-there-yet>

are-we-there-yet@1.1.5
URL: <https://github.com/iarna/are-we-there-yet.git>
VendorName: Rebecca Turner
VendorUrl: <https://github.com/iarna/are-we-there-yet>

async-some@1.0.2
URL: <https://github.com/othiym23/async-some.git>
VendorName: Forrest L Norvell
VendorUrl: <https://github.com/othiym23/async-some>

block-stream@0.0.8
URL: <git://github.com/isaacs/block-stream.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

block-stream@0.0.9
URL: <git://github.com/isaacs/block-stream.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

broccoli-viz@2.0.1
URL: <https://github.com/stefanpenner/broccoli-viz.git>
VendorName: Stefan Penner
VendorUrl: <https://github.com/stefanpenner/broccoli-viz>

char-spinner@1.0.1
URL: <git://github.com/isaacs/char-spinner>
VendorName: Isaac Z. Schlueter
VendorUrl: <https://github.com/isaacs/char-spinner>

chmodr@1.0.2
URL: <git://github.com/isaacs/chmodr.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

chownr@1.0.1
URL: <git://github.com/isaacs/chownr.git>

VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>
chownr@1.1.3
URL: <git://github.com/isaacs/chownr.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>
clean-base-url@1.0.0
URL: <git+ssh://git@github.com/stefanpenner/clean-base-url.git>
VendorName: Stefan Penner
VendorUrl: <https://github.com/stefanpenner/clean-base-url#readme>
cliui@2.1.0
URL: <http://github.com/bcoe/cliui.git>
VendorName: Ben Coe
cliui@3.2.0
URL: <http://github.com/yargs/cliui.git>
VendorName: Ben Coe
console-control-strings@1.1.0
URL: <https://github.com/iarna/console-control-strings>
VendorName: Rebecca Turner
VendorUrl: <http://re-becca.org/>
d@1.0.1
URL: <git://github.com/medikoo/d.git>
VendorName: Mariusz Nowak
VendorUrl: <http://www.medikoo.com/>
dezalgo@1.0.3
URL: <https://github.com/npm/dezalgo>
VendorName: Isaac Z. Schlueter
VendorUrl: <https://github.com/npm/dezalgo>
ember-cli-get-dependency-depth@1.0.0
URL: <git+https://github.com/ember-cli/get-dependency-depth.git>
VendorName: ember-cli Contributors
VendorUrl: <https://github.com/ember-cli/get-dependency-depth#readme>
ember-cli-is-package-missing@1.0.0
URL: <git+https://github.com/ember-cli/ember-cli.git>
VendorName: ember-cli contributors
VendorUrl: <https://github.com/ember-cli/ember-cli#readme>
ember-cli-normalize-entity-name@1.0.0
URL: <git+https://github.com/ember-cli/ember-cli.git>
VendorName: ember-cli contributors
VendorUrl: <https://github.com/ember-cli/ember-cli#readme>
ember-cli-path-utils@1.0.0
URL: <git+https://github.com/ember-cli/ember-cli-path-utils.git>
VendorName: ember-cli contributors
VendorUrl: <https://github.com/ember-cli/ember-cli-path-utils#readme>
ember-cli-preprocess-registry@1.1.0
URL: <git+https://github.com/ember-cli/ember-cli-preprocessor-registry.git>
VendorName: ember-cli Contributors
VendorUrl: <https://github.com/ember-cli/ember-cli-preprocessor-registry#readme>

ember-cli-string-utils@1.1.0
URL: git+https://github.com/ember-cli/ember-cli-string-utils.git
VendorName: ember-cli contributors
VendorUrl: https://github.com/ember-cli/ember-cli-string-utils#readme

ember-cli-test-info@1.0.0
URL: git+https://github.com/ember-cli/ember-cli-test-info.git
VendorName: ember-cli contributors
VendorUrl: https://github.com/ember-cli/ember-cli-test-info#readme

ensure-posix-path@1.1.1
URL: git+https://github.com/stefanpenner/ensure-posix-path.git
VendorName: Stefan Penner
VendorUrl: https://github.com/stefanpenner/ensure-posix-path#readme

es5-ext@0.10.53
URL: https://github.com/medikoo/es5-ext.git
VendorName: Mariusz Nowak
VendorUrl: http://www.medikoo.com/

es6-symbol@3.1.3
URL: git://github.com/medikoo/es6-symbol.git
VendorName: Mariusz Nowak
VendorUrl: http://www.medikoo.com/

events-to-array@1.1.2
URL: https://github.com/isaacs/events-to-array
VendorName: Isaac Z. Schlueter
VendorUrl: https://github.com/isaacs/events-to-array

exists-sync@0.0.3
URL: git+https://github.com/ember-cli/exists-sync.git
VendorName: Jake Bixby
VendorUrl: https://github.com/ember-cli/exists-sync#readme

exists-sync@0.0.4
URL: git+https://github.com/ember-cli/exists-sync.git
VendorName: Jake Bixby
VendorUrl: https://github.com/ember-cli/exists-sync#readme

ext@1.4.0
URL: https://github.com/medikoo/es5-ext/tree/ext
VendorName: Mariusz Nowak
VendorUrl: http://www.medikoo.com/

fast-ordered-set@1.0.3

fs-monitor-stack@1.1.1
URL: git+https://github.com/stefanpenner/fs-monitor-stack.git
VendorName: Stefan Penner
VendorUrl: https://github.com/stefanpenner/fs-monitor-stack#readme

fs-vacuum@1.2.10
URL: https://github.com/npm/fs-vacuum.git
VendorName: Forrest L Norvell
VendorUrl: https://github.com/npm/fs-vacuum

fs-write-stream-atomic@1.0.10
URL: https://github.com/npm/fs-write-stream-atomic
VendorName: Isaac Z. Schlueter

VendorUrl: <https://github.com/npm/fs-write-stream-atomic>
fs.realpath@1.0.0
URL: <git+https://github.com/isaacs/fs.realpath.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

fstream-ignore@1.0.5
URL: <git://github.com/isaacs/fstream-ignore.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

fstream-npm@1.0.7
URL: <https://github.com/npm/fstream-npm.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

fstream@1.0.12
URL: <https://github.com/npm/fstream.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

gauge@1.2.7
URL: <https://github.com/iarna/gauge>
VendorName: Rebecca Turner
VendorUrl: <https://github.com/iarna/gauge>

gauge@2.7.4
URL: <https://github.com/iarna/gauge>
VendorName: Rebecca Turner
VendorUrl: <https://github.com/iarna/gauge>

get-caller-file@1.0.3
URL: <git+https://github.com/stefanpenner/get-caller-file.git>
VendorName: Stefan Penner
VendorUrl: <https://github.com/stefanpenner/get-caller-file#readme>

glob-parent@2.0.0
URL: <https://github.com/es128/glob-parent>
VendorName: Elan Shanker
VendorUrl: <https://github.com/es128/glob-parent>

glob@4.3.5
URL: <git://github.com/isaacs/node-glob.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

glob@4.5.3
URL: <git://github.com/isaacs/node-glob.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

glob@5.0.13
URL: <git://github.com/isaacs/node-glob.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

glob@5.0.15
URL: <git://github.com/isaacs/node-glob.git>
VendorName: Isaac Z. Schlueter

VendorUrl: <http://blog.izs.me/>
glob@6.0.4
URL: <git://github.com/isaacs/node-glob.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>
glob@7.1.6
URL: <git://github.com/isaacs/node-glob.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>
graceful-fs@3.0.12
URL: <git://github.com/isaacs/node-graceful-fs.git>
VendorName: Isaac Z. Schlueter
VendorUrl: http://blog.izs.me
graceful-fs@4.1.15
URL: <https://github.com/isaacs/node-graceful-fs>
graceful-fs@4.2.3
URL: <https://github.com/isaacs/node-graceful-fs>
har-schema@1.0.5
URL: <https://github.com/ahmadnassri/har-schema.git>
VendorName: Ahmad Nassri
VendorUrl: <https://github.com/ahmadnassri/har-schema>
har-schema@2.0.0
URL: <https://github.com/ahmadnassri/har-schema.git>
VendorName: Ahmad Nassri
VendorUrl: <https://github.com/ahmadnassri/har-schema>
har-validator@2.0.6
URL: <https://github.com/ahmadnassri/har-validator.git>
VendorName: Ahmad Nassri
VendorUrl: <https://github.com/ahmadnassri/har-validator>
har-validator@4.2.1
URL: <https://github.com/ahmadnassri/har-validator.git>
VendorName: Ahmad Nassri
VendorUrl: <https://github.com/ahmadnassri/har-validator>
has-binary-data@0.1.3
VendorName: Kevin Roark
has-unicode@2.0.1
URL: <https://github.com/iarna/has-unicode>
VendorName: Rebecca Turner
VendorUrl: <https://github.com/iarna/has-unicode>
hash-for-dep@1.5.1
URL: <git+https://github.com/stefanpenner/hash-for-dep.git>
VendorName: Stefan Penner
VendorUrl: <https://github.com/stefanpenner/hash-for-dep#readme>
hosted-git-info@2.1.5
URL: <git+https://github.com/npm/hosted-git-info.git>
VendorName: Rebecca Turner
VendorUrl: <https://github.com/npm/hosted-git-info>
hosted-git-info@2.8.5

URL: [git+https://github.com/npm/hosted-git-info.git](https://github.com/npm/hosted-git-info.git)
VendorName: Rebecca Turner
VendorUrl: <https://github.com/npm/hosted-git-info>
in-publish@2.0.0
URL: <https://github.com/iarna/in-publish>
VendorName: Rebecca Turner
VendorUrl: <https://github.com/iarna/in-publish>
inflight@1.0.6
URL: <https://github.com/npm/inflight.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <https://github.com/isaacs/inflight>
inherits@2.0.3
URL: [git://github.com/isaacs/inherits](https://github.com/isaacs/inherits)
inherits@2.0.4
URL: [git://github.com/isaacs/inherits](https://github.com/isaacs/inherits)
ini@1.3.5
URL: [git://github.com/isaacs/ini.git](https://github.com/isaacs/ini.git)
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>
init-package-json@1.9.6
URL: <https://github.com/npm/init-package-json.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>
isexe@2.0.0
URL: [git+https://github.com/isaacs/isexe.git](https://github.com/isaacs/isexe.git)
VendorName: Isaac Z. Schlueter
VendorUrl: <https://github.com/isaacs/isexe#readme>
json-stringify-safe@5.0.1
URL: [git://github.com/isaacs/json-stringify-safe](https://github.com/isaacs/json-stringify-safe)
VendorName: Isaac Z. Schlueter
VendorUrl: <https://github.com/isaacs/json-stringify-safe>
lockfile@1.0.4
URL: <https://github.com/npm/lockfile.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>
lru-cache@2.7.3
URL: [git://github.com/isaacs/node-lru-cache.git](https://github.com/isaacs/node-lru-cache.git)
VendorName: Isaac Z. Schlueter
lru-cache@4.1.5
URL: [git://github.com/isaacs/node-lru-cache.git](https://github.com/isaacs/node-lru-cache.git)
VendorName: Isaac Z. Schlueter
matcher-collection@1.1.2
URL: [git+https://github.com/stefanpenner/matcher-collection.git](https://github.com/stefanpenner/matcher-collection.git)
VendorName: Stefan Penner
VendorUrl: <https://github.com/stefanpenner/matcher-collection#readme>
minimatch@2.0.10
URL: [git://github.com/isaacs/minimatch.git](https://github.com/isaacs/minimatch.git)
VendorName: Isaac Z. Schlueter

VendorUrl: <http://blog.izs.me>
minimatch@3.0.4
URL: <git://github.com/isaacs/minimatch.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me>
mute-stream@0.0.8
URL: <git://github.com/isaacs/mute-stream>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>
natives@1.1.6
URL: <git+https://github.com/addaleax/natives.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <https://github.com/addaleax/natives#readme>
node-modules-path@1.0.2
URL: <git+https://github.com/ember-cli/node-modules-path.git>
VendorName: Stefan Penner
VendorUrl: <https://github.com/ember-cli/node-modules-path#readme>
nopt@3.0.6
URL: <https://github.com/npm/nopt.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>
normalize-git-url@3.0.2
URL: <https://github.com/npm/normalize-git-url.git>
VendorName: Forrest L Norvell
VendorUrl: <https://github.com/npm/normalize-git-url>
npm-cache-filename@1.0.2
URL: <git://github.com/npm/npm-cache-filename>
VendorName: Isaac Z. Schlueter
VendorUrl: <https://github.com/npm/npm-cache-filename>
npm-normalize-package-bin@1.0.1
URL: <git+https://github.com/npm/npm-normalize-package-bin>
VendorName: Isaac Z. Schlueter
VendorUrl: <https://izs.me>
npm-package-arg@4.0.2
URL: <https://github.com/npm/npm-package-arg>
VendorName: Isaac Z. Schlueter
VendorUrl: <https://github.com/npm/npm-package-arg>
npm-package-arg@4.2.1
URL: <https://github.com/npm/npm-package-arg>
VendorName: Isaac Z. Schlueter
VendorUrl: <https://github.com/npm/npm-package-arg>
npm-package-arg@5.1.2
URL: <https://github.com/npm/npm-package-arg>
VendorName: Isaac Z. Schlueter
VendorUrl: <https://github.com/npm/npm-package-arg>
npm-registry-client@7.0.9
URL: <https://github.com/npm/npm-registry-client.git>
VendorName: Isaac Z. Schlueter

VendorUrl: <http://blog.izs.me/>
npmlog@1.2.1
URL: <git://github.com/isaacs/npmlog.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

npmlog@2.0.4
URL: <https://github.com/npm/npmlog.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

npmlog@4.1.2
URL: <https://github.com/npm/npmlog.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

once@1.3.3
URL: <git://github.com/isaacs/once>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

once@1.4.0
URL: <git://github.com/isaacs/once>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

osenv@0.1.5
URL: <https://github.com/npm/osenv>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

path-posix@1.0.0
URL: <git@github.com:jden/node-path-posix.git>
VendorName: jden

pleasant-progress@1.1.0
URL: <https://github.com/stefanpenner/pleasant-progress.git>
VendorName: Stefan Penner
VendorUrl: <https://github.com/stefanpenner/pleasant-progress>

process-relative-require@1.0.0
URL: <git+https://github.com/ember-cli/process-relative-require.git>
VendorName: Stefan Penner
VendorUrl: <https://github.com/ember-cli/process-relative-require#readme>

promzard@0.3.0
URL: <git://github.com/isaacs/promzard>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

proto-list@1.2.4
URL: <https://github.com/isaacs/proto-list>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

pseudomap@1.0.2
URL: <git+https://github.com/isaacs/pseudomap.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <https://github.com/isaacs/pseudomap#readme>

read-installed@4.0.3
URL: [git://github.com/isaacs/read-installed](https://github.com/isaacs/read-installed)
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

read-package-json@2.0.13
URL: <https://github.com/npm/read-package-json.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

read-package-json@2.1.1
URL: <https://github.com/npm/read-package-json.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

read@1.0.7
URL: [git://github.com/isaacs/read.git](https://github.com/isaacs/read.git)
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

readdir-scoped-modules@1.1.0
URL: <https://github.com/npm/readdir-scoped-modules>
VendorName: Isaac Z. Schlueter
VendorUrl: <https://github.com/npm/readdir-scoped-modules>

realize-package-specifier@3.0.3
URL: <https://github.com/npm/realize-package-specifier.git>
VendorName: Rebecca Turner
VendorUrl: <https://github.com/npm/realize-package-specifier>

remove-trailing-separator@1.1.0
URL: [git+https://github.com/darsain/remove-trailing-separator.git](https://github.com/darsain/remove-trailing-separator.git)
VendorName: darsain
VendorUrl: <https://github.com/darsain/remove-trailing-separator#readme>

require-main-filename@1.0.1
URL: [git+ssh://git@github.com/yargs/require-main-filename.git](https://github.com/yargs/require-main-filename.git)
VendorName: Ben Coe
VendorUrl: <https://github.com/yargs/require-main-filename#readme>

rimraf@2.4.5
URL: [git://github.com/isaacs/rimraf.git](https://github.com/isaacs/rimraf.git)
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

rimraf@2.7.1
URL: [git://github.com/isaacs/rimraf.git](https://github.com/isaacs/rimraf.git)
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

semver@4.3.6
URL: [git://github.com/npm/node-semver.git](https://github.com/npm/node-semver.git)

semver@5.0.3
URL: <https://github.com/npm/node-semver>

semver@5.3.0
URL: <https://github.com/npm/node-semver>

semver@5.7.1
URL: <https://github.com/npm/node-semver>

set-blocking@2.0.0
URL: [git+https://github.com/yargs/set-blocking.git](https://github.com/yargs/set-blocking.git)
VendorName: Ben Coe
VendorUrl: <https://github.com/yargs/set-blocking#readme>

setprototypeof@1.1.1
URL: <https://github.com/wesleytodd/setprototypeof.git>
VendorName: Wes Todd
VendorUrl: <https://github.com/wesleytodd/setprototypeof>

sigmund@1.0.1
URL: [git://github.com/isaacs/sigmund](https://github.com/isaacs/sigmund)
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

signal-exit@3.0.2
URL: <https://github.com/tapjs/signal-exit.git>
VendorName: Ben Coe
VendorUrl: <https://github.com/tapjs/signal-exit>

silent-error@1.1.1
URL: [git+https://github.com/stefanpenner/silent-error.git](https://github.com/stefanpenner/silent-error.git)
VendorName: Stefan Penner
VendorUrl: <https://github.com/stefanpenner/silent-error#readme>

slide@1.1.6
URL: [git://github.com/isaacs/slide-flow-control.git](https://github.com/isaacs/slide-flow-control.git)
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

tar@2.2.2
URL: [git://github.com/isaacs/node-tar.git](https://github.com/isaacs/node-tar.git)
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

timers-ext@0.1.7
URL: [git://github.com/medikoo/timers-ext.git](https://github.com/medikoo/timers-ext.git)
VendorName: Mariusz Nowak
VendorUrl: <http://www.medikoo.com/>

tree-sync@1.4.0
URL: <https://github.com/stefanpenner/tree-sync/>
VendorName: Stefan Penner

type@1.2.0
URL: <https://github.com/medikoo/type.git>
VendorName: Mariusz Nowak
VendorUrl: <https://www.medikoo.com/>

type@2.0.0
URL: <https://github.com/medikoo/type.git>
VendorName: Mariusz Nowak
VendorUrl: <https://www.medikoo.com/>

uid-number@0.0.6
URL: [git://github.com/isaacs/uid-number.git](https://github.com/isaacs/uid-number.git)
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

validate-npm-package-name@2.2.2

URL: <https://github.com/npm/validate-npm-package-name>
VendorName: zeke
VendorUrl: <https://github.com/npm/validate-npm-package-name>
validate-npm-package-name@3.0.0
URL: <https://github.com/npm/validate-npm-package-name>
VendorName: zeke
VendorUrl: <https://github.com/npm/validate-npm-package-name>
which-module@1.0.0
URL: <git+https://github.com/nexdrew/which-module.git>
VendorName: nexdrew
VendorUrl: <https://github.com/nexdrew/which-module#readme>
which@1.2.14
URL: <git://github.com/isaacs/node-which.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me>
which@1.3.1
URL: <git://github.com/isaacs/node-which.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me>
wide-align@1.1.3
URL: <https://github.com/iarna/wide-align>
VendorName: Rebecca Turner
VendorUrl: <http://re-becca.org/>
wrappy@1.0.2
URL: <https://github.com/npm/wrappy>
VendorName: Isaac Z. Schlueter
VendorUrl: <https://github.com/npm/wrappy>
write-file-atomic@1.1.4
URL: <git@github.com:iarna/write-file-atomic.git>
VendorName: Rebecca Turner
VendorUrl: <https://github.com/iarna/write-file-atomic>
write-file-atomic@1.3.4
URL: <git@github.com:iarna/write-file-atomic.git>
VendorName: Rebecca Turner
VendorUrl: <https://github.com/iarna/write-file-atomic>
y18n@3.2.2
URL: <git@github.com:yargs/y18n.git>
VendorName: Ben Coe
VendorUrl: <https://github.com/yargs/y18n>
yallist@2.1.2
URL: <git+https://github.com/isaacs/yallist.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>
yargs-parser@5.0.0
URL: <git@github.com:yargs/yargs-parser.git>
VendorName: Ben Coe

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@sailshq/lodash@3.10.4

URL: [git://github.com/treelinehq/lodash.git](https://github.com/treelinehq/lodash.git)
VendorName: Mike McNeil
accepts@1.3.7
URL: <https://github.com/jshttp/accepts.git>
acorn@5.7.3
URL: <https://github.com/acornjs/acorn.git>
VendorUrl: <https://github.com/acornjs/acorn>
ajv@4.11.8
URL: <https://github.com/epoberezkin/ajv.git>
VendorName: Evgeny Poberezkin
VendorUrl: <https://github.com/epoberezkin/ajv>
ajv@6.10.2
URL: <https://github.com/epoberezkin/ajv.git>
VendorName: Evgeny Poberezkin
VendorUrl: <https://github.com/epoberezkin/ajv>
align-text@0.1.4
URL: [git://github.com/jonschlinkert/align-text.git](https://github.com/jonschlinkert/align-text.git)
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/align-text>
alter@0.2.0
URL: <https://github.com/olov/alter.git>
VendorName: Olov Lassus
amd-name-resolver@0.0.2
VendorName: Ember CLI contributors
ansi-regex@0.2.1
URL: <https://github.com/sindresorhus/ansi-regex.git>
VendorName: Sindre Sorhus
VendorUrl: <http://sindresorhus.com>
ansi-regex@1.1.1
URL: <https://github.com/sindresorhus/ansi-regex.git>
VendorName: Sindre Sorhus
VendorUrl: <http://sindresorhus.com>
ansi-regex@2.1.1
URL: <https://github.com/chalk/ansi-regex.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
ansi-regex@3.0.0
URL: <https://github.com/chalk/ansi-regex.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
ansi-styles@1.0.0
URL: [git://github.com/sindresorhus/ansi-styles.git](https://github.com/sindresorhus/ansi-styles.git)
VendorName: Sindre Sorhus
VendorUrl: <https://github.com/sindresorhus/ansi-styles>
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URL: <https://github.com/sindresorhus/ansi-styles.git>
VendorName: Sindre Sorhus
VendorUrl: <http://sindresorhus.com>

ansi-styles@2.2.1
URL: <https://github.com/chalk/ansi-styles.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

ansi-styles@3.2.1
URL: <https://github.com/chalk/ansi-styles.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

ansi@0.3.1
URL: <git://github.com/TooTallNate/ansi.js.git>
VendorName: Nathan Rajlich
VendorUrl: <http://tootallnate.net>

ansicolors@0.2.1
URL: <git://github.com/thlorenz/ansicolors.git>
VendorName: Thorsten Lorenz
VendorUrl: thlorenz.com

ansicolors@0.3.2
URL: <git://github.com/thlorenz/ansicolors.git>
VendorName: Thorsten Lorenz
VendorUrl: thlorenz.com

ansistyles@0.1.3
URL: <git://github.com/thlorenz/ansistyles.git>
VendorName: Thorsten Lorenz
VendorUrl: thlorenz.com

archy@1.0.0
URL: <http://github.com/substack/node-archy.git>
VendorName: James Halliday
VendorUrl: <http://substack.net>

argparse@1.0.10
URL: <https://github.com/nodeca/argparse.git>

arr-diff@2.0.0
URL: <https://github.com/jonschlinkert/arr-diff.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/arr-diff>

arr-flatten@1.1.0
URL: <https://github.com/jonschlinkert/arr-flatten.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/arr-flatten>

array-equal@1.0.0
URL: <https://github.com/component/array-equal.git>
VendorName: Jonathan Ong
VendorUrl: <http://jongleberry.com>

array-find-index@1.0.2
URL: <https://github.com/sindresorhus/array-find-index.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

array-flatten@1.1.1
URL: <git://github.com/blakeembrey/array-flatten.git>

VendorName: Blake Embrey
VendorUrl: <https://github.com/blakeembrey/array-flatten>
array-index@1.0.0
URL: <git://github.com/TooTallNate/array-index.git>
VendorName: Nathan Rajlich
VendorUrl: <http://tootallnate.net>
array-unique@0.2.1
URL: <git://github.com/jonschlinkert/array-unique.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/array-unique>
arraybuffer.slice@0.0.6
URL: <git@github.com:rase-/arraybuffer.slice.git>
VendorUrl: <https://github.com/rase-/arraybuffer.slice>
asap@2.0.6
URL: <https://github.com/kriskowal/asap.git>
asn1@0.1.11
URL: <git://github.com/mcavage/node-asn1.git>
VendorName: Mark Cavage
asn1@0.2.4
URL: <git://github.com/joyent/node-asn1.git>
VendorName: Joyent
VendorUrl: joyent.com
assert-plus@0.2.0
URL: <https://github.com/mcavage/node-assert-plus.git>
VendorName: Mark Cavage
assert-plus@1.0.0
URL: <https://github.com/mcavage/node-assert-plus.git>
VendorName: Mark Cavage
ast-traverse@0.1.1
URL: <https://github.com/olov/ast-traverse.git>
VendorName: Olov Lassus
ast-types@0.8.12
URL: <git://github.com/benjamn/ast-types.git>
VendorName: Ben Newman
VendorUrl: <http://github.com/benjamn/ast-types>
ast-types@0.8.15
URL: <git://github.com/benjamn/ast-types.git>
VendorName: Ben Newman
VendorUrl: <http://github.com/benjamn/ast-types>
ast-types@0.9.6
URL: <git://github.com/benjamn/ast-types.git>
VendorName: Ben Newman
VendorUrl: <http://github.com/benjamn/ast-types>
async-disk-cache@1.3.5
URL: <https://github.com/stefanpenner/async-disk-cache.git>
VendorName: Stefan Penner
async-promise-queue@1.0.5
URL: <https://github.com/stefanpenner/async-promise-queue>

VendorName: Stefan Penner
async@0.2.10
URL: <https://github.com/caolan/async.git>
VendorName: Caolan McMahon
async@0.8.0
URL: <https://github.com/caolan/async.git>
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async@0.9.0
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async@1.5.2
URL: <https://github.com/caolan/async.git>
VendorName: Caolan McMahon
async@2.6.3
URL: <https://github.com/caolan/async.git>
VendorName: Caolan McMahon
VendorUrl: <https://caolan.github.io/async/>
asynckit@0.4.0
URL: <git+https://github.com/alexindigo/asynckit.git>
VendorName: Alex Indigo
VendorUrl: <https://github.com/alexindigo/asynckit#readme>
aws4@1.9.0
URL: <https://github.com/mhart/aws4.git>
VendorName: Michael Hart
VendorUrl: <http://github.com/mhart>
babel-core@5.8.38
URL: <https://github.com/babel/babel.git>
VendorName: Sebastian McKenzie
VendorUrl: <https://babeljs.io/>
babel-plugin-constant-folding@1.0.1
URL: <https://github.com/babel-plugins/babel-plugin-constant-folding.git>
babel-plugin-dead-code-elimination@1.0.2
URL: <https://github.com/babel-plugins/babel-plugin-dead-code-elimination.git>
babel-plugin-eval@1.0.1
URL: <https://github.com/babel-plugins/babel-plugin-eval.git>
babel-plugin-htmlbars-inline-precompile@0.0.5
URL: <https://github.com/pangratz/babel-plugin-htmlbars-inline-precompile>
VendorName: Clemens Miller
babel-plugin-inline-environment-variables@1.0.1
URL: <https://github.com/babel-plugins/babel-plugin-inline-environment-variables.git>
babel-plugin-jscript@1.0.4
URL: <https://github.com/babel-plugins/babel-plugin-jscript.git>
babel-plugin-member-expression-literals@1.0.1
URL: <https://github.com/babel-plugins/babel-plugin-member-expression-literals.git>
babel-plugin-property-literals@1.0.1
URL: <https://github.com/babel-plugins/babel-plugin-property-literals.git>
babel-plugin-proto-to-assign@1.0.4
URL: <https://github.com/babel-plugins/babel-plugin-proto-to-assign.git>

babel-plugin-react-constant-elements@1.0.3
URL: <https://github.com/babel-plugins/babel-plugin-react-constant-elements.git>

babel-plugin-react-display-name@1.0.3
URL: <https://github.com/babel-plugins/babel-plugin-react-display-name.git>

babel-plugin-remove-console@1.0.1
URL: <https://github.com/babel-plugins/babel-plugin-remove-console.git>

babel-plugin-remove-debugger@1.0.1
URL: <https://github.com/babel-plugins/babel-plugin-remove-debugger.git>

babel-plugin-runtime@1.0.7
URL: <https://github.com/babel-plugins/babel-plugin-runtime.git>

babel-plugin-undeclared-variables-check@1.0.2
URL: <https://github.com/babel-plugins/babel-plugin-undeclared-variables-check.git>

babel-plugin-undefined-to-void@1.1.6
URL: <https://github.com/babel-plugins/babel-plugin-undefined-to-void.git>

babel@5.8.38
URL: <https://github.com/babel/babel.git>
VendorName: Sebastian McKenzie
VendorUrl: <https://babeljs.io/>

backbone@1.4.0
URL: <https://github.com/jashkenas/backbone.git>
VendorName: Jeremy Ashkenas

backo2@1.0.2
URL: <https://github.com/mokescok/mokescok/backo.git>

balanced-match@1.0.0
URL: <git://github.com/juliangruber/balanced-match.git>
VendorName: Julian Gruber
VendorUrl: <https://github.com/juliangruber/balanced-match>

base64-arraybuffer@0.1.2
URL: <https://github.com/niklasvh/base64-arraybuffer>
VendorName: Niklas von Hertzen
VendorUrl: <https://github.com/niklasvh/base64-arraybuffer>

basic-auth@2.0.1
URL: <https://github.com/jshhttp/basic-auth.git>

benchmark@1.0.0
URL: <https://github.com/bestiejs/benchmark.js.git>
VendorName: Mathias Bynens
VendorUrl: <http://benchmarkjs.com/>

better-assert@1.0.2
URL: <https://github.com/visionmedia/better-assert.git>
VendorName: TJ Holowaychuk

binaryextensions@2.2.0
URL: <https://github.com/bevry/binaryextensions.git>
VendorName: 2013+ Bevry Pty Ltd
VendorUrl: <https://github.com/bevry/binaryextensions>

bl@1.0.3
URL: <https://github.com/rvagg/bl.git>
VendorUrl: <https://github.com/rvagg/bl>

bl@1.1.2

URL: <https://github.com/rvagg/bl.git>
VendorUrl: <https://github.com/rvagg/bl>
blank-object@1.0.2
URL: <git+https://github.com/stefanpenner/blank-object.git>
VendorName: Stefan Penner
VendorUrl: <https://github.com/stefanpenner/blank-object#readme>
bluebird@2.11.0
URL: <git://github.com/petkaantonov/bluebird.git>
VendorName: Petka Antonov
VendorUrl: <https://github.com/petkaantonov/bluebird>
body-parser@1.14.2
URL: <https://github.com/expressjs/body-parser.git>
body-parser@1.19.0
URL: <https://github.com/expressjs/body-parser.git>
bower-config@0.6.1
URL: <git://github.com/bower/config.git>
VendorName: Twitter
VendorUrl: <http://bower.io/>
bower-endpoint-parser@0.2.2
URL: <git://github.com/bower/endpoint-parser.git>
VendorName: Twitter
bower-shrinkwrap-resolver-ext@0.1.0
URL: <https://github.com/sreenaths/bower-shrinkwrap-resolver-ext>
bower@1.8.8
URL: <https://github.com/bower/bower.git>
VendorName: Twitter
VendorUrl: <http://bower.io/>
brace-expansion@1.1.11
URL: <git://github.com/juliangruber/brace-expansion.git>
VendorName: Julian Gruber
VendorUrl: <https://github.com/juliangruber/brace-expansion>
braces@1.8.5
URL: <https://github.com/jonschlinkert/braces.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/braces>
breakable@1.0.0
URL: <https://github.com/olov/breakable.git>
VendorName: Olov Lassus
broccoli-asset-rev@2.4.2
URL: <git://github.com/rickharrison/broccoli-asset-rev>
VendorName: Rick Harrison
VendorUrl: <https://github.com/rickharrison/broccoli-asset-rev>
broccoli-asset-rewrite@1.1.0
URL: <git://github.com/rickharrison/broccoli-asset-rewrite>
VendorName: Rick Harrison
VendorUrl: <https://github.com/rickharrison/broccoli-asset-rewrite>
broccoli-babel-transpiler@5.7.4
URL: <https://github.com/babel/broccoli-babel-transpiler.git>

VendorName: nightire
VendorUrl: <https://github.com/babel/broccoli-babel-transpiler>
broccoli-caching-writer@2.3.1
URL: <https://github.com/ember-cli/broccoli-caching-writer.git>
VendorName: Robert Jackson
broccoli-caching-writer@3.0.3
URL: <https://github.com/ember-cli/broccoli-caching-writer.git>
VendorName: Robert Jackson
broccoli-clean-css@0.2.0
URL: <https://github.com/shinnn/broccoli-clean-css.git>
VendorName: Shinnosuke Watanabe
VendorUrl: <https://github.com/shinnn/broccoli-clean-css>
broccoli-config-loader@1.0.1
URL: <git+https://github.com/ember-cli/broccoli-config-loader.git>
VendorName: yaymukund
VendorUrl: <https://github.com/ember-cli/broccoli-config-loader#readme>
broccoli-config-replace@1.1.2
URL: <https://github.com/ember-cli/broccoli-config-replace>
VendorName: yaymukund
VendorUrl: <https://github.com/ember-cli/broccoli-config-replace#readme>
broccoli-debug@0.6.5
URL: <https://github.com/broccolijs/broccoli-debug.git>
VendorName: Robert Jackson
VendorUrl: [http:](http://)
broccoli-filter@0.1.14
URL: <https://github.com/broccolijs/broccoli-filter>
VendorName: Jo Liss
broccoli-filter@1.3.0
URL: <https://github.com/broccolijs/broccoli-filter>
broccoli-funnel@1.0.1
URL: <https://github.com/broccolijs/broccoli-funnel.git>
VendorName: Robert Jackson
broccoli-funnel@1.2.0
URL: <https://github.com/broccolijs/broccoli-funnel.git>
VendorName: Robert Jackson
broccoli-funnel@2.0.2
URL: <https://github.com/broccolijs/broccoli-funnel.git>
VendorName: Robert Jackson
broccoli-jshint@1.2.0
URL: <https://github.com/rwjbblue/broccoli-jshint.git>
VendorName: Robert Jackson
broccoli-kitchen-sink-helpers@0.2.9
URL: <https://github.com/broccolijs/broccoli-kitchen-sink-helpers>
VendorName: Jo Liss
broccoli-kitchen-sink-helpers@0.3.1
URL: <https://github.com/broccolijs/broccoli-kitchen-sink-helpers>
VendorName: Jo Liss
broccoli-less-single@0.6.4

URL: <https://github.com/gabrielgrant/broccoli-less-single>
VendorName: Gabriel Grant
VendorUrl: <https://github.com/gabrielgrant/broccoli-less-single>
broccoli-merge-trees@1.1.1
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VendorName: Jo Liss
broccoli-merge-trees@1.2.4
URL: <https://github.com/broccolijs/broccoli-merge-trees>
VendorName: Jo Liss
broccoli-merge-trees@2.0.1
URL: <https://github.com/broccolijs/broccoli-merge-trees>
VendorName: Jo Liss
broccoli-persistent-filter@1.4.6
URL: <git+https://github.com/stefanpenner/broccoli-persistent-filter.git>
VendorName: Stefan Penner
VendorUrl: <https://github.com/stefanpenner/broccoli-persistent-filter#readme>
broccoli-plugin@1.1.0
URL: <https://github.com/broccolijs/broccoli-plugin>
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broccoli-plugin@1.3.1
URL: <https://github.com/broccolijs/broccoli-plugin>
VendorName: Jo Liss
broccoli-sane-watcher@1.1.5
URL: <https://github.com/broccolijs/broccoli-sane-watcher.git>
VendorName: Kris Selden
VendorUrl: <https://github.com/broccolijs/broccoli-sane-watcher>
broccoli-sass-source-maps@2.2.0
URL: <https://github.com/aexmachina/broccoli-sass-source-maps>
VendorName: Jo Liss
broccoli-slow-trees@1.1.0
URL: <https://github.com/rwjblue/broccoli-slow-trees.git>
VendorName: Robert Jackson
VendorUrl: <https://github.com/rwjblue/broccoli-slow-trees>
broccoli-source@1.1.0
URL: <https://github.com/broccolijs/broccoli-source>
VendorName: Jo Liss
broccoli-sourcemap-concat@1.1.6
URL: <https://github.com/ef4/broccoli-sourcemap-concat>
VendorName: Edward Faulkner
broccoli-sourcemap-concat@2.0.2
URL: <https://github.com/ef4/broccoli-sourcemap-concat>
VendorName: Edward Faulkner
broccoli-sri-hash@1.2.2
URL: <https://github.com/jonathanKingston/broccoli-sri-hash.git>
VendorName: Jonathan Kingston
broccoli-stew@1.6.0
URL: <https://github.com/stefanpenner/broccoli-stew.git>
VendorName: Stefan Penner & Robert Jackson

VendorUrl: <https://github.com/stefanpenner/broccoli-stew>
broccoli-uglify-sourcemap@1.5.2
URL: <git+https://github.com/ember-cli/broccoli-uglify-sourcemap.git>
VendorName: Edward Faulkner
VendorUrl: <https://github.com/ember-cli/broccoli-uglify-sourcemap#readme>
broccoli-unwatched-tree@0.1.3
URL: <https://github.com/rjackson/broccoli-unwatched-tree.git>
VendorName: Robert Jackson
broccoli-writer@0.1.1
URL: <https://github.com/joliss/broccoli-writer>
VendorName: Jo Liss
broccoli@0.16.8
URL: <https://github.com/broccolijs/broccoli>
VendorName: Jo Liss
VendorUrl: <https://github.com/broccolijs/broccoli>
buffer-from@1.1.1
URL: <https://github.com/LinusU/buffer-from.git>
builtin-modules@1.1.1
URL: <https://github.com/sindresorhus/builtin-modules.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
builtins@0.0.7
URL: <https://github.com/juliangruber/builtins.git>
builtins@1.0.3
URL: <https://github.com/juliangruber/builtins.git>
bytes@2.2.0
URL: <https://github.com/visionmedia/bytes.js.git>
VendorName: TJ Holowaychuk
VendorUrl: <http://tjholowaychuk.com>
bytes@2.4.0
URL: <https://github.com/visionmedia/bytes.js.git>
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VendorUrl: <http://tjholowaychuk.com>
bytes@3.0.0
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VendorName: TJ Holowaychuk
VendorUrl: <http://tjholowaychuk.com>
camelcase-keys@2.1.0
URL: <https://github.com/sindresorhus/camelcase-keys.git>
VendorName: Sindre Sorhus
VendorUrl: <http://sindresorhus.com>
camelcase@1.2.1
URL: <https://github.com/sindresorhus/camelcase.git>
VendorName: Sindre Sorhus

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VendorUrl: <http://sindresorhus.com>
camelcase@3.0.0
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VendorName: Sindre Sorhus
VendorUrl: <http://sindresorhus.com>
can-symlink@1.0.0
URL: <https://github.com/raytiley/can-symlink>
VendorName: raytiley
cardinal@0.5.0
URL: <git://github.com/thlorenz/cardinal.git>
VendorName: Thorsten Lorenz
VendorUrl: thlorenz.com
center-align@0.1.3
URL: <https://github.com/jonschlinkert/center-align.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/center-align>
chalk@0.4.0
URL: <https://github.com/sindresorhus/chalk.git>
VendorName: Sindre Sorhus
VendorUrl: <http://sindresorhus.com>
chalk@0.5.1
URL: <https://github.com/sindresorhus/chalk.git>
chalk@1.1.0
URL: <https://github.com/chalk/chalk.git>
chalk@1.1.3
URL: <https://github.com/chalk/chalk.git>
chalk@2.4.2
URL: <https://github.com/chalk/chalk.git>
charm@1.0.2
URL: <http://github.com/substack/node-charm.git>
VendorName: James Halliday
VendorUrl: <http://substack.net>
clean-css@2.2.23
URL: <https://github.com/GoalSmashers/clean-css.git>
VendorName: Jakub Pawlowicz
VendorUrl: <https://github.com/GoalSmashers/clean-css>
cli-color@0.3.3
URL: <git://github.com/medikoo/cli-color.git>
VendorName: Mariusz Nowak
VendorUrl: <http://www.medikoo.com/>
cli-table@0.3.1
URL: <https://github.com/Automattic/cli-table.git>
VendorName: Guillermo Rauch
cli@1.0.1

URL: <http://github.com/node-js-libs/cli.git>
VendorName: Chris O'Hara
VendorUrl: <http://github.com/node-js-libs/cli>
clone@0.2.0

URL: <git://github.com/pvorb/node-clone.git>
VendorName: Paul Vorbach
VendorUrl: <http://paul.vorba.ch/>
clone@1.0.4

URL: <git://github.com/pvorb/node-clone.git>
VendorName: Paul Vorbach
VendorUrl: <http://paul.vorba.ch/>
clone@2.1.2

URL: <git://github.com/pvorb/node-clone.git>
VendorName: Paul Vorbach
VendorUrl: <http://paul.vorba.ch/>
co@4.6.0

URL: <https://github.com/tj/co.git>
code-point-at@1.1.0

URL: <https://github.com/sindresorhus/code-point-at.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

color-convert@1.9.3

URL: <https://github.com/Qix-/color-convert.git>
VendorName: Heather Arthur

color-name@1.1.3

URL: <git@github.com:dfcreative/color-name.git>
VendorName: DY
VendorUrl: <https://github.com/dfcreative/color-name>

colors@1.0.3

URL: <http://github.com/Marak/colors.js.git>
VendorName: Marak Squires
VendorUrl: <https://github.com/Marak/colors.js>

columnify@1.5.4

URL: <git://github.com/timoxley/columnify.git>
VendorName: Tim Oxley
VendorUrl: <https://github.com/timoxley/columnify>

combined-stream@1.0.8

URL: <git://github.com/felixge/node-combined-stream.git>
VendorName: Felix Geisendrfer
VendorUrl: <https://github.com/felixge/node-combined-stream>

commander@2.1.0

URL: <https://github.com/visionmedia/commander.js.git>
VendorName: TJ Holowaychuk

commander@2.2.0

URL: <https://github.com/visionmedia/commander.js.git>
VendorName: TJ Holowaychuk

commander@2.20.3

URL: <https://github.com/tj/commander.js.git>

VendorName: TJ Holowaychuk
commoner@0.10.8
URL: [git://github.com/benjamn/commoner.git](https://github.com/benjamn/commoner.git)
VendorName: Ben Newman
VendorUrl: <http://github.com/benjamn/commoner>
compressible@2.0.17
URL: <https://github.com/jshttp/compressible.git>
compression@1.7.4
URL: <https://github.com/expressjs/compression.git>
concat-map@0.0.1
URL: [git://github.com/substack/node-concat-map.git](https://github.com/substack/node-concat-map.git)
VendorName: James Halliday
VendorUrl: <http://substack.net>
concat-stream@1.5.0
URL: <http://github.com/maxogden/concat-stream.git>
VendorName: Max Ogden
concat-stream@1.6.2
URL: <http://github.com/maxogden/concat-stream.git>
VendorName: Max Ogden
config-chain@1.1.12
URL: <https://github.com/dominictarr/config-chain.git>
VendorName: Dominic Tarr
VendorUrl: <http://github.com/dominictarr/config-chain>
connect@3.7.0
URL: <https://github.com/senchalabs/connect.git>
VendorName: TJ Holowaychuk
VendorUrl: <http://tjholowaychuk.com>
console-browserify@1.1.0
URL: [git://github.com/Raynos/console-browserify.git](https://github.com/Raynos/console-browserify.git)
VendorName: Raynos
VendorUrl: <https://github.com/Raynos/console-browserify>
consolidate@0.13.1
URL: <https://github.com/visionmedia/consolidate.js.git>
VendorName: TJ Holowaychuk
content-disposition@0.5.3
URL: <https://github.com/jshttp/content-disposition.git>
VendorName: Douglas Christopher Wilson
content-type@1.0.4
URL: <https://github.com/jshttp/content-type.git>
VendorName: Douglas Christopher Wilson
convert-source-map@1.7.0
URL: [git://github.com/thlorenz/convert-source-map.git](https://github.com/thlorenz/convert-source-map.git)
VendorName: Thorsten Lorenz
VendorUrl: <https://github.com/thlorenz/convert-source-map>
cookie-signature@1.0.6
URL: <https://github.com/visionmedia/node-cookie-signature.git>
VendorName: TJ Holowaychuk
cookie@0.4.0

URL: <https://github.com/jshttp/cookie.git>
VendorName: Roman Shtylman
copy-dereference@1.0.0
URL: <https://github.com/broccolijs/node-copy-dereference>
VendorName: Jo Liss
core-js@1.2.7
URL: <https://github.com/zloirock/core-js.git>
core-object@0.0.2
URL: https://github.com/stefanpenner/core_object.git
VendorName: Ember core team and ember cli contributors
VendorUrl: https://github.com/stefanpenner/core_object
core-util-is@1.0.2
URL: <git://github.com/isaacs/core-util-is>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>
cross-spawn-async@2.2.5
URL: <git://github.com/IndigoUnited/node-cross-spawn-async.git>
VendorName: IndigoUnited
VendorUrl: <http://indigounited.com>
cross-spawn@3.0.1
URL: <git://github.com/IndigoUnited/node-cross-spawn.git>
VendorName: IndigoUnited
VendorUrl: <http://indigounited.com>
ctype@0.5.3
URL: <https://github.com/rmustacc/node-ctype.git>
VendorName: Robert Mustacchi
VendorUrl: <https://github.com/rmustacc/node-ctype>
currently-unhandled@0.4.1
URL: <https://github.com/jamestalmage/currently-unhandled.git>
VendorName: James Talmage
VendorUrl: github.com/jamestalmage
d@0.1.1
URL: <git://github.com/medikoo/d.git>
VendorName: Mariusz Nowak
VendorUrl: <http://www.medikoo.com/>
dashdash@1.14.1
URL: <git://github.com/trentm/node-dashdash.git>
VendorName: Trent Mick
VendorUrl: <http://trentm.com>
date-now@0.1.4
URL: <git://github.com/Colingo/date-now.git>
VendorName: Raynos
VendorUrl: <https://github.com/Colingo/date-now>
debug@0.7.4
URL: <git://github.com/visionmedia/debug.git>
VendorName: TJ Holowaychuk
debug@1.0.2
URL: <git://github.com/visionmedia/debug.git>

VendorName: TJ Holowaychuk
debug@1.0.3
URL: [git://github.com/visionmedia/debug.git](https://github.com/visionmedia/debug.git)
VendorName: TJ Holowaychuk
debug@1.0.4
URL: [git://github.com/visionmedia/debug.git](https://github.com/visionmedia/debug.git)
VendorName: TJ Holowaychuk
debug@2.1.0
URL: [git://github.com/visionmedia/debug.git](https://github.com/visionmedia/debug.git)
VendorName: TJ Holowaychuk
debug@2.2.0
URL: [git://github.com/visionmedia/debug.git](https://github.com/visionmedia/debug.git)
VendorName: TJ Holowaychuk
debug@2.6.9
URL: [git://github.com/visionmedia/debug.git](https://github.com/visionmedia/debug.git)
VendorName: TJ Holowaychuk
debug@3.2.6
URL: [git://github.com/visionmedia/debug.git](https://github.com/visionmedia/debug.git)
VendorName: TJ Holowaychuk
debuglog@1.0.1
URL: <https://github.com/sam-github/node-debuglog.git>
VendorName: Sam Roberts
decamelize@1.2.0
URL: <https://github.com/sindresorhus/decamelize.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
defaults@1.0.3
URL: [git://github.com/tmpvar/defaults.git](https://github.com/tmpvar/defaults.git)
VendorName: Elijah Insua
defined@1.0.0
URL: [git://github.com/substack/defined.git](https://github.com/substack/defined.git)
VendorName: James Halliday
VendorUrl: <https://github.com/substack/defined>
defs@1.1.1
URL: <https://github.com/olov/defs.git>
VendorName: Olov Lassus
delayed-stream@1.0.0
URL: [git://github.com/felixge/node-delayed-stream.git](https://github.com/felixge/node-delayed-stream.git)
VendorName: Felix Geisendrfer
VendorUrl: <https://github.com/felixge/node-delayed-stream>
delegates@1.0.0
URL: <https://github.com/visionmedia/node-delegates.git>
depd@1.1.2
URL: <https://github.com/dougwilson/nodejs-depd.git>
VendorName: Douglas Christopher Wilson
destroy@1.0.4
URL: <https://github.com/stream-utils/destroy.git>
VendorName: Jonathan Ong

VendorUrl: <http://jongleberry.com>
detect-indent@3.0.1
URL: <https://github.com/sindresorhus/detect-indent.git>
VendorName: Sindre Sorhus
VendorUrl: <http://sindresorhus.com>
detective@4.7.1
URL: <git://github.com/browserify/detective.git>
VendorName: James Halliday
VendorUrl: <http://substack.net>
did_it_work@0.0.6
VendorName: Toby Ho
dom-serializer@0.2.2
URL: <git://github.com/cheeriojs/dom-renderer.git>
VendorName: Felix Boehm
ecc-jsbn@0.1.2
URL: <https://github.com/quartzjer/ecc-jsbn.git>
VendorName: Jeremie Miller
VendorUrl: <https://github.com/quartzjer/ecc-jsbn>
editions@1.3.4
URL: <https://github.com/bevry/editions.git>
VendorName: 2016+ Bevry Pty Ltd
VendorUrl: <https://github.com/bevry/editions>
editor@1.0.0
URL: <git://github.com/substack/node-editor.git>
VendorName: James Halliday
VendorUrl: <https://github.com/substack/node-editor>
ee-first@1.1.1
URL: <https://github.com/jonathanong/ee-first.git>
VendorName: Jonathan Ong
VendorUrl: <http://jongleberry.com>
em-helpers@0.8.0
URL: <https://github.com/sreenaths/em-helpers.git>
VendorName: Sreenath Somarajapuram
em-table@0.12.0
URL: <https://github.com/sreenaths/em-table.git>
VendorName: Sreenath Somarajapuram
ember-array-contains-helper@1.0.2
URL: <https://github.com/bmeurant/ember-array-contains-helper>
VendorName: Baptiste Meurant
ember-bootstrap@0.5.1
URL: <https://github.com/kaliber5/ember-bootstrap>
VendorName: Simon Ihmig
VendorUrl: <http://kaliber5.github.io/ember-bootstrap/>
ember-cli-app-version@1.0.0
URL: <https://github.com/embersherpa/ember-cli-app-version.git>
VendorName: Taras Mankovski
ember-cli-babel@5.1.6
URL: <git://github.com/babel/ember-cli-babel.git>

VendorName: Gordon Kristan
VendorUrl: <https://github.com/babel/ember-cli-babel>
ember-cli-babel@5.2.8
URL: <git://github.com/babel/ember-cli-babel.git>

VendorName: Gordon Kristan
ember-cli-content-security-policy@0.4.0
URL: <https://github.com/rwjblue/ember-cli-content-security-policy>
ember-cli-copy-dereference@1.0.0
URL: <https://github.com/broccolijs/node-copy-dereference>

VendorName: Jo Liss
ember-cli-dependency-checker@1.2.0
URL: <https://github.com/quaertym/ember-cli-dependency-checker.git>

VendorName: Emre Unal
ember-cli-htmlbars-inline-precompile@0.3.1
URL: <https://github.com/pangratz/ember-cli-htmlbars-inline-precompile>

VendorName: Clemens Miller
ember-cli-htmlbars@0.7.6
URL: <git@github.com:ember-cli/ember-cli-htmlbars.git>

VendorName: Jonathan Jackson & Chase McCarthy
VendorUrl: <https://github.com/ember-cli/ember-cli-htmlbars>
ember-cli-htmlbars@1.0.2
URL: <git@github.com:ember-cli/ember-cli-htmlbars.git>

VendorName: Jonathan Jackson & Chase McCarthy
VendorUrl: <https://github.com/ember-cli/ember-cli-htmlbars>
ember-cli-htmlbars@1.3.5
URL: <git@github.com:ember-cli/ember-cli-htmlbars.git>

VendorName: Jonathan Jackson & Chase McCarthy
VendorUrl: <https://github.com/ember-cli/ember-cli-htmlbars>
ember-cli-ic-ajax@0.2.1
URL: <https://github.com/rjackson/ember-cli-ic-ajax>

VendorName: Robert Jackson
VendorUrl: <https://github.com/rjackson/ember-cli-ic-ajax>
ember-cli-inject-live-reload@1.4.0
URL: <git://github.com/rwjblue/ember-cli-inject-live-reload.git>

VendorName: Robert Jackson
VendorUrl: <https://github.com/rwjblue/ember-cli-inject-live-reload>
ember-cli-jquery-ui@0.0.20
URL: <https://github.com/gaurav0/ember-cli-jquery-ui>

VendorName: Gaurav Munjal
ember-cli-less@1.5.7
URL: <https://github.com/gdub22/ember-cli-less>

VendorName: Garth Poitras
ember-cli-moment-shim@0.7.3
URL: <git://github.com/jasonmit/ember-cli-moment-shim.git>

VendorName: Jason Mitchell
VendorUrl: <https://github.com/jasonmit/ember-cli-moment-shim>
ember-cli-node-assets@0.1.6
URL: <https://github.com/dfreeman/ember-cli-node-assets.git>

VendorName: Dan Freeman
ember-cli-numeral@0.2.0
URL: <http://github.com/josemarluedke/ember-cli-numeral>
VendorName: Jay Phelps
VendorUrl: <https://github.com/josemarluedke/ember-cli-numeral>
ember-cli-qunit@1.2.1
URL: <https://github.com/ember-cli/ember-cli-qunit.git>
VendorName: Jake Craige
VendorUrl: <https://github.com/ember-cli/ember-cli-qunit>
ember-cli-release@0.2.8
URL: <https://github.com/lytics/ember-cli-release.git>
VendorName: Steven Lindberg
ember-cli-sass@7.0.0
URL: <git://github.com/aexmachina/ember-cli-sass.git>
VendorName: @aexmachina
VendorUrl: <https://github.com/aexmachina/ember-cli-sass>
ember-cli-sri@1.2.1
URL: <https://github.com/jonathanKingston/ember-cli-sri>
VendorName: Jonathan Kingston
ember-cli-uglify@1.2.0
URL: <https://github.com/ember-cli/ember-cli-uglify.git>
ember-cli-version-checker@1.3.1
URL: <https://github.com/rwjblue/ember-cli-version-checker.git>
VendorName: Robert Jackson
VendorUrl: <https://github.com/rwjblue/ember-cli-version-checker>
ember-cli@1.13.14
URL: <https://github.com/ember-cli/ember-cli.git>
VendorName: Stefan Penner, Robert Jackson and ember-cli contributors
ember-d3@0.1.0
URL: <https://github.com/brzpegasus/ember-d3>
VendorName: Estelle DeBlois
ember-data@2.1.0
URL: <git://github.com/emberjs/data.git>
ember-disable-proxy-controllers@1.0.1
URL: <https://github.com/cibernox/ember-disable-proxy-controllers>
VendorName: Miguel Camba
ember-export-application-global@1.0.5
URL: <https://github.com/ember-cli/ember-export-application-global.git>
VendorName: Robert Jackson
VendorUrl: <https://github.com/ember-cli/ember-export-application-global>
ember-lodash@0.0.10
URL: <https://github.com/levanto-financial/ember-lodash.git>
VendorName: Mike North
VendorUrl: <https://github.com/levanto-financial/ember-lodash>
ember-qunit@0.4.24
URL: <https://github.com/rwjblue/ember-qunit.git>
ember-resolver@2.0.3
URL: <git+https://github.com/ember-cli/ember-resolver.git>

VendorName: Robert Jackson
VendorUrl: <https://github.com/ember-cli/ember-resolver#readme>
ember-router-generator@1.2.3
URL: <https://github.com/ember-cli/ember-router-generator.git>
VendorName: Adolfo Builes
VendorUrl: <https://github.com/ember-cli/ember-router-generator>
ember-spin-spinner@0.2.3
URL: <https://github.com/rsschermer/ember-spin-spinner>
VendorName: Roland Schermer
VendorUrl: <https://github.com/rsschermer/ember-spin-spinner>
ember-truth-helpers@1.3.0
URL: <https://github.com/jmurphyau/ember-truth-helpers>
VendorName: James Murphy
ember-wormhole@0.3.6
URL: <https://github.com/yapplabs/ember-wormhole.git>
VendorName: Yapp Labs
encodeurl@1.0.2
URL: <https://github.com/pillarjs/encodeurl.git>
engine.io-parser@1.2.2
URL: <git@github.com:Automattic/engine.io-parser.git>
VendorUrl: <https://github.com/Automattic/engine.io-parser>
engine.io-pure@1.5.9
URL: <git@github.com:Automattic/engine.io.git>
VendorName: Guillermo Rauch
VendorUrl: <https://github.com/LearnBoost/engine.io>
errno@0.1.7
URL: <https://github.com/rvagg/node-errno.git>
error-ex@1.3.2
URL: <https://github.com/qix-/node-error-ex.git>
es6-iterator@0.1.3
URL: <git://github.com/medikoo/es6-iterator.git>
VendorName: Mariusz Nowak
VendorUrl: <http://www.medikoo.com/>
es6-iterator@2.0.3
URL: <git://github.com/medikoo/es6-iterator.git>
VendorName: Mariusz Nowak
VendorUrl: <http://www.medikoo.com/>
es6-promise@4.0.5
URL: <git://github.com/stefanpenner/es6-promise.git>
VendorName: Yehuda Katz, Tom Dale, Stefan Penner and contributors
VendorUrl: Conversion to ES6 API by Jake Archibald
es6-symbol@2.0.1
URL: <git://github.com/medikoo/es6-symbol.git>
VendorName: Mariusz Nowak
VendorUrl: <http://www.medikoo.com/>
es6-weak-map@0.1.4
URL: <git://github.com/medikoo/es6-weak-map.git>
VendorName: Mariusz Nowak

VendorUrl: <http://www.medikoo.com/>
escape-html@1.0.3
URL: <https://github.com/component/escape-html.git>
escape-string-regexp@1.0.5
URL: <https://github.com/sindresorhus/escape-string-regexp.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
etag@1.8.1
URL: <https://github.com/jshttp/etag.git>
event-emitter@0.3.5
URL: <git://github.com/medikoo/event-emitter.git>
VendorName: Mariusz Nowak
VendorUrl: <http://www.medikoo.com/>
eventemitter3@4.0.0
URL: <git://github.com/primus/eventemitter3.git>
VendorName: Arnout Kazemier
exec-sh@0.2.2
URL: <git://github.com:tsertkov/exec-sh.git>
VendorName: Aleksandr Tsertkov
exit@0.1.2
URL: <git://github.com/cowboy/node-exit.git>
VendorName: "Cowboy" Ben Alman
VendorUrl: <https://github.com/cowboy/node-exit>
expand-brackets@0.1.5
URL: <https://github.com/jonschlinkert/expand-brackets.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/expand-brackets>
expand-range@1.8.2
URL: <https://github.com/jonschlinkert/expand-range.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/expand-range>
express@4.17.1
URL: <https://github.com/expressjs/express.git>
VendorName: TJ Holowaychuk
VendorUrl: <http://expressjs.com/>
extend@3.0.2
URL: <https://github.com/justmoon/node-extend.git>
VendorName: Stefan Thomas
VendorUrl: <http://www.justmoon.net>
extglob@0.3.2
URL: <git://github.com/jonschlinkert/extglob.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/extglob>
extsprintf@1.3.0
URL: <git://github.com/davepacheco/node-extsprintf.git>
extsprintf@1.4.0
URL: <git://github.com/davepacheco/node-extsprintf.git>
fast-deep-equal@2.0.1

URL: [git+https://github.com/epoberezkin/fast-deep-equal.git](https://github.com/epoberezkin/fast-deep-equal.git)
VendorName: Evgeny Poberezkin
VendorUrl: <https://github.com/epoberezkin/fast-deep-equal#readme>
fast-json-stable-stringify@2.1.0
URL: [git://github.com/epoberezkin/fast-json-stable-stringify.git](https://github.com/epoberezkin/fast-json-stable-stringify.git)
VendorName: James Halliday
VendorUrl: <https://github.com/epoberezkin/fast-json-stable-stringify>
fast-sourcemap-concat@0.2.7
URL: <https://github.com/ef4/fast-sourcemap-concat>
VendorName: Edward Faulkner
faye-websocket@0.10.0
URL: [git://github.com/faye/faye-websocket-node.git](https://github.com/faye/faye-websocket-node.git)
VendorName: James Coglan
VendorUrl: <http://github.com/faye/faye-websocket-node>
fd-slicer@1.0.1
URL: [git://github.com/andrewrk/node-fd-slicer.git](https://github.com/andrewrk/node-fd-slicer.git)
VendorName: Andrew Kelley
filename-regexp@2.0.1
URL: <https://github.com/regexhq/filename-regexp.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/regexhq/filename-regexp>
fileset@0.2.1
URL: [git://github.com/mklabs/node-fileset.git](https://github.com/mklabs/node-fileset.git)
VendorName: mklabs
VendorUrl: <https://github.com/mklabs/node-fileset>
fill-range@2.2.4
URL: <https://github.com/jonschlinkert/fill-range.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/fill-range>
finalhandler@1.1.2
URL: <https://github.com/pillarjs/finalhandler.git>
VendorName: Douglas Christopher Wilson
find-up@1.1.2
URL: <https://github.com/sindresorhus/find-up.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
findup-sync@0.2.1
URL: [git://github.com/cowboy/node-findup-sync.git](https://github.com/cowboy/node-findup-sync.git)
VendorName: "Cowboy" Ben Alman
VendorUrl: <https://github.com/cowboy/node-findup-sync>
findup-sync@0.3.0
URL: [git://github.com/cowboy/node-findup-sync.git](https://github.com/cowboy/node-findup-sync.git)
VendorName: "Cowboy" Ben Alman
VendorUrl: <https://github.com/cowboy/node-findup-sync>
findup@0.1.5
URL: <https://github.com/Filirom1/findup.git>
VendorName: Filirom1
fireworm@0.6.6

URL: [git@github.com:airportyh/fireworm.git](https://github.com/airportyh/fireworm.git)
VendorName: Toby Ho
follow-redirects@1.9.0
URL: [git@github.com:follow-redirects/follow-redirects.git](https://github.com/follow-redirects/follow-redirects.git)
VendorName: Ruben Verborgh
VendorUrl: <https://github.com/follow-redirects/follow-redirects>
for-in@1.0.2
URL: <https://github.com/jonschlinkert/for-in.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/for-in>
for-own@0.1.5
URL: <https://github.com/jonschlinkert/for-own.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/for-own>
form-data@1.0.1
URL: [git://github.com/form-data/form-data.git](https://github.com/form-data/form-data.git)
VendorName: Felix Geisendrfer
VendorUrl: <http://debuggable.com/>
form-data@2.1.4
URL: [git://github.com/form-data/form-data.git](https://github.com/form-data/form-data.git)
VendorName: Felix Geisendrfer
VendorUrl: <http://debuggable.com/>
form-data@2.3.3
URL: [git://github.com/form-data/form-data.git](https://github.com/form-data/form-data.git)
VendorName: Felix Geisendrfer
VendorUrl: <http://debuggable.com/>
forwarded@0.1.2
URL: <https://github.com/jshttp/forwarded.git>
fresh@0.5.2
URL: <https://github.com/jshttp/fresh.git>
VendorName: TJ Holowaychuk
VendorUrl: <http://tjholowaychuk.com>
fs-extra@0.16.5
URL: <https://github.com/jprichardson/node-fs-extra>
VendorName: JP Richardson
VendorUrl: <https://github.com/jprichardson/node-fs-extra>
fs-extra@0.22.1
URL: <https://github.com/jprichardson/node-fs-extra>
VendorName: JP Richardson
VendorUrl: <https://github.com/jprichardson/node-fs-extra>
fs-extra@0.24.0
URL: <https://github.com/jprichardson/node-fs-extra>
VendorName: JP Richardson
VendorUrl: <https://github.com/jprichardson/node-fs-extra>
fs-extra@0.30.0
URL: <https://github.com/jprichardson/node-fs-extra>
VendorName: JP Richardson
VendorUrl: <https://github.com/jprichardson/node-fs-extra>

fs-extra@5.0.0
URL: <https://github.com/jprichardson/node-fs-extra>
VendorName: JP Richardson
VendorUrl: <https://github.com/jprichardson/node-fs-extra>

fs-readdir-recursive@0.1.2
URL: <https://github.com/fs-utils/fs-readdir-recursive.git>
VendorName: Jonathan Ong
VendorUrl: <http://jongleberry.com>

fs-tree-diff@0.3.1
VendorName: Stefan Penner, David J. Hamilton, Chad Hietala

fs-tree-diff@0.4.4
VendorName: Stefan Penner, David J. Hamilton, Chad Hietala

fs-tree-diff@0.5.9
URL: <git://github.com/stefanpenner/fs-tree-diff.git>
VendorName: Stefan Penner, David J. Hamilton, Chad Hietala

gaze@1.1.3
URL: <https://github.com/shama/gaze.git>
VendorName: Kyle Robinson Young
VendorUrl: <https://github.com/shama/gaze>

generate-function@2.3.1
URL: <https://github.com/mafintosh/generate-function>
VendorName: Mathias Buus
VendorUrl: <https://github.com/mafintosh/generate-function>

generate-object-property@1.2.0
URL: <https://github.com/mafintosh/generate-object-property>
VendorName: Mathias Buus
VendorUrl: <https://github.com/mafintosh/generate-object-property>

get-stdin@4.0.1
URL: <https://github.com/sindresorhus/get-stdin.git>
VendorName: Sindre Sorhus
VendorUrl: <http://sindresorhus.com>

getpass@0.1.7
URL: <https://github.com/arekinath/node-getpass.git>
VendorName: Alex Wilson

git-repo-info@1.4.1
URL: <https://github.com/rwjblue/git-repo-info.git>
VendorName: Robert Jackson
VendorUrl: <https://github.com/rwjblue/git-repo-info>

git-repo-version@0.3.0
URL: <https://github.com/cibernox/git-repo-version>
VendorName: Miguel Camba

github-url-from-git@1.4.0
URL: <https://github.com/visionmedia/node-github-url-from-git.git>
VendorName: TJ Holowaychuk

glob-base@0.3.0
URL: <git://github.com/jonschlinkert/glob-base.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/glob-base>

globals@6.4.1
URL: <https://github.com/sindresorhus/globals.git>
VendorName: Sindre Sorhus
VendorUrl: <http://sindresorhus.com>

globule@1.3.0
URL: <git://github.com/cowboy/node-globule.git>
VendorName: "Cowboy" Ben Alman
VendorUrl: <https://github.com/cowboy/node-globule>

growl@1.10.5
URL: <git://github.com/tj/node-growl.git>
VendorName: TJ Holowaychuk

handlebars@3.0.7
URL: <https://github.com/wycats/handlebars.js.git>
VendorName: Yehuda Katz
VendorUrl: <http://www.handlebarsjs.com/>

har-validator@5.1.3
URL: <https://github.com/ahmadnassri/node-har-validator.git>
VendorName: Ahmad Nassri
VendorUrl: <https://github.com/ahmadnassri/node-har-validator>

has-ansi@0.1.0
URL: <https://github.com/sindresorhus/has-ansi.git>
VendorName: Sindre Sorhus
VendorUrl: <http://sindresorhus.com>

has-ansi@2.0.0
URL: <https://github.com/sindresorhus/has-ansi.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

has-binary@0.1.6
VendorName: Kevin Roark

has-color@0.1.7
URL: <https://github.com/sindresorhus/has-color.git>
VendorName: Sindre Sorhus
VendorUrl: <http://sindresorhus.com>

has-cors@1.1.0
URL: <git://github.com/component/has-cors.git>
VendorName: Nathan Rajlich
VendorUrl: <http://n8.io/>

has-flag@3.0.0
URL: <https://github.com/sindresorhus/has-flag.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

hasha@2.2.0
URL: <https://github.com/sindresorhus/hasha.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

heimdalljs-logger@0.1.10
URL: <git+https://github.com/heimdalljs/heimdalljs-logger.git>
VendorName: David J. Hamilton

VendorUrl: <https://github.com/heimdalljs/heimdalljs-logger#README.md>
heimdalljs@0.2.6
URL: <git+https://github.com/heimdalljs/heimdalljs-lib.git>
VendorUrl: <https://github.com/hjdivad/heimdalljs-lib#readme>
home-or-tmp@1.0.0
URL: <https://github.com/sindresorhus/home-or-tmp.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
htmlparser2@3.8.3
URL: <https://github.com/fb55/htmlparser2.git>
VendorName: Felix Boehm
http-errors@1.3.1
URL: <https://github.com/jshttp/http-errors.git>
VendorName: Jonathan Ong
VendorUrl: <http://jongleberry.com>
http-errors@1.7.2
URL: <https://github.com/jshttp/http-errors.git>
VendorName: Jonathan Ong
VendorUrl: <http://jongleberry.com>
http-errors@1.7.3
URL: <https://github.com/jshttp/http-errors.git>
VendorName: Jonathan Ong
VendorUrl: <http://jongleberry.com>
http-parser-js@0.4.10
URL: <https://github.com/creationix/http-parser-js.git>
VendorName: Tim Caswell
VendorUrl: <https://github.com/creationix>
http-proxy@1.18.0
URL: <https://github.com/http-party/node-http-proxy.git>
VendorName: Charlie Robbins
http-signature@0.11.0
URL: <https://github.com/joyent/node-http-signature.git>
VendorName: Joyent, Inc
VendorUrl: <https://github.com/joyent/node-http-signature/>
http-signature@1.1.1
URL: <https://github.com/joyent/node-http-signature.git>
VendorName: Joyent, Inc
VendorUrl: <https://github.com/joyent/node-http-signature/>
http-signature@1.2.0
URL: <https://github.com/joyent/node-http-signature.git>
VendorName: Joyent, Inc
VendorUrl: <https://github.com/joyent/node-http-signature/>
ic-ajax@2.0.2
URL: <https://github.com/instructure/ic-ajax.git>
VendorName: Ryan Florence
VendorUrl: <https://github.com/instructure/ic-ajax>
iconv-lite@0.4.13
URL: <https://github.com/ashtuchkin/iconv-lite.git>

VendorName: Alexander Shtuchkin
VendorUrl: <https://github.com/ashtuchkin/iconv-lite>
iconv-lite@0.4.24
URL: <git://github.com/ashtuchkin/iconv-lite.git>

VendorName: Alexander Shtuchkin
VendorUrl: <https://github.com/ashtuchkin/iconv-lite>
iferr@0.1.5
URL: <https://github.com/shesek/iferr>

VendorName: Nadav Ivgi
VendorUrl: <https://github.com/shesek/iferr>
image-size@0.5.5
URL: <https://github.com/image-size/image-size.git>

VendorName: netroy
VendorUrl: <http://netroy.in/>
imurmurhash@0.1.4
URL: <https://github.com/jensyt/imurmurhash-js>

VendorName: Jens Taylor
VendorUrl: <https://github.com/jensyt/imurmurhash-js>
include-path-searcher@0.1.0
URL: <https://github.com/joliss/include-path-searcher>

VendorName: Jo Liss
indent-string@2.1.0
URL: <https://github.com/sindresorhus/indent-string.git>

VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
inflection@1.12.0
URL: <https://github.com/dreamerslab/node.inflection.git>

VendorName: dreamerslab
inquirer@0.5.1
URL: <git://github.com/SBoudrias/Inquirer.js.git>

VendorName: Simon Boudrias
invert-kv@1.0.0
URL: <https://github.com/sindresorhus/invert-kv.git>

VendorName: Sindre Sorhus
VendorUrl: <http://sindresorhus.com>
ipaddr.js@1.9.0
URL: <git://github.com/whitequark/ipaddr.js>

VendorName: whitequark
is-arrayish@0.2.1
URL: <https://github.com/qix-/node-is-arrayish.git>

VendorName: Qix
VendorUrl: <http://github.com/qix->
is-buffer@1.1.6
URL: <git://github.com/feross/is-buffer.git>

VendorName: Feross Aboukhadijeh
VendorUrl: <http://feross.org/>
is-builtin-module@1.0.0
URL: <https://github.com/sindresorhus/is-builtin-module.git>

VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
is-dotfile@1.0.3
URL: <https://github.com/jonschlinkert/is-dotfile.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/is-dotfile>
is-equal-shallow@0.1.3
URL: <git://github.com/jonschlinkert/is-equal-shallow.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/is-equal-shallow>
is-extendable@0.1.1
URL: <https://github.com/jonschlinkert/is-extendable.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/is-extendable>
is-extglob@1.0.0
URL: <https://github.com/jonschlinkert/is-extglob.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/is-extglob>
is-finite@1.0.2
URL: <https://github.com/sindresorhus/is-finite.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
is-fullwidth-code-point@1.0.0
URL: <https://github.com/sindresorhus/is-fullwidth-code-point.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
is-fullwidth-code-point@2.0.0
URL: <https://github.com/sindresorhus/is-fullwidth-code-point.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
is-git-url@0.2.0
URL: <git://github.com/jonschlinkert/is-git-url.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/is-git-url>
is-git-url@0.2.3
URL: <https://github.com/jonschlinkert/is-git-url.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/is-git-url>
is-glob@2.0.1
URL: <https://github.com/jonschlinkert/is-glob.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/is-glob>
is-my-ip-valid@1.0.0
URL: <https://github.com/LinusU/is-my-ip-valid.git>
is-my-json-valid@2.20.0
URL: <https://github.com/mafintosh/is-my-json-valid.git>
is-number@2.1.0
URL: <https://github.com/jonschlinkert/is-number.git>

VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/is-number>
is-number@4.0.0
URL: <https://github.com/jonschlinkert/is-number.git>

VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/is-number-is-posix-bracket>
is-posix-bracket@0.1.1
URL: <https://github.com/jonschlinkert/is-posix-bracket.git>

VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/is-posix-bracket-is-primitive>
is-primitive@2.0.0
URL: <git://github.com/jonschlinkert/is-primitive.git>

VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/is-primitive-is-property>
is-property@1.0.2
URL: <git://github.com/mikolalysenko/is-property.git>

VendorName: Mikola Lysenko
is-stream@1.1.0
URL: <https://github.com/sindresorhus/is-stream.git>

VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

is-type@0.0.1
URL: <git://github.com/juliangruber/is-type.git>

VendorName: Julian Gruber
VendorUrl: <https://github.com/juliangruber/is-type>

is-typedarray@1.0.0
URL: <git://github.com/hughsk/is-typedarray.git>

VendorName: Hugh Kennedy
VendorUrl: <https://github.com/hughsk/is-typedarray>

is-utf8@0.2.1
URL: <https://github.com/wayfind/is-utf8.git>

VendorName: wayfind
isarray@0.0.1
URL: <git://github.com/juliangruber/isarray.git>

VendorName: Julian Gruber
VendorUrl: <https://github.com/juliangruber/isarray>

isarray@1.0.0
URL: <git://github.com/juliangruber/isarray.git>

VendorName: Julian Gruber
VendorUrl: <https://github.com/juliangruber/isarray>

isbinaryfile@2.0.4
URL: <https://github.com/gjtorikian/isBinaryFile>

isobject@2.1.0
URL: <https://github.com/jonschlinkert/isobject.git>

VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/isobject>

isstream@0.1.2
URL: <https://github.com/rvagg/isstream.git>

VendorName: Rod Vagg
VendorUrl: <https://github.com/rvagg/istream>
istream@2.1.0
URL: <http://github.com/bevry/istream>.git
VendorName: 2012+ Bevry Pty Ltd
VendorUrl: <https://github.com/bevry/istream>
js-tokens@1.0.1
URL: <https://github.com/lydell/js-tokens>.git
VendorName: Simon Lydell
js-yaml@3.13.1
URL: <https://github.com/nodeca/js-yaml>.git
VendorName: Vladimir Zapparov
VendorUrl: <https://github.com/nodeca/js-yaml>
jsbn@0.1.1
URL: <https://github.com/andyperlitch/jsbn>.git
VendorName: Tom Wu
jsesc@0.5.0
URL: <https://github.com/mathiasbynens/jsesc>.git
VendorName: Mathias Bynens
VendorUrl: <http://mths.be/jsesc>
json-parse-better-errors@1.0.2
URL: <https://github.com/zkat/json-parse-better-errors>
VendorName: Kat Marchn
json-schema-traverse@0.4.1
URL: <git+https://github.com/epoberezkin/json-schema-traverse>.git
VendorName: Evgeny Poberezkin
VendorUrl: <https://github.com/epoberezkin/json-schema-traverse#readme>
json-stable-stringify@1.0.1
URL: <git://github.com/substack/json-stable-stringify>.git
VendorName: James Halliday
VendorUrl: <https://github.com/substack/json-stable-stringify>
json3@3.2.6
URL: <git://github.com/bestiejs/json3>.git
VendorName: Kit Cambridge
VendorUrl: <http://bestiejs.github.io/json3>
json5@0.4.0
URL: <https://github.com/aseemk/json5>.git
VendorName: Aseem Kishore
VendorUrl: <http://json5.org/>
jsonfile@2.4.0
URL: <git@github.com:jprichardson/node-jsonfile>.git
VendorName: JP Richardson
jsonfile@4.0.0
URL: <git@github.com:jprichardson/node-jsonfile>.git
VendorName: JP Richardson
jsonpointer@4.0.1
URL: <http://github.com/janl/node-jsonpointer>.git
VendorName: Jan Lehnardt

jsprim@1.4.1
URL: [git://github.com/joyent/node-jsprim.git](https://github.com/joyent/node-jsprim.git)

kind-of@3.2.2
URL: <https://github.com/jonschlinkert/kind-of.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/kind-of>

kind-of@6.0.2
URL: <https://github.com/jonschlinkert/kind-of.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/kind-of>

klassy@0.1.3
URL: <https://github.com/cerebris/klassy.js.git>

klaw@1.3.1
URL: [git+https://github.com/jprichardson/node-klaw.git](https://github.com/jprichardson/node-klaw.git)
VendorName: JP Richardson
VendorUrl: <https://github.com/jprichardson/node-klaw#readme>

lazy-cache@1.0.4
URL: <https://github.com/jonschlinkert/lazy-cache.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/lazy-cache>

lcid@1.0.0
URL: <https://github.com/sindresorhus/lcid.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

leek@0.0.18
URL: <https://github.com/twokul/leek>
VendorName: Alex Navasardyan
VendorUrl: <http://twokul.io>

leven@1.0.2
URL: <https://github.com/sindresorhus/leven.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

linkify-it@1.2.4
URL: <https://github.com/markdown-it/linkify-it.git>

livereload-js@2.4.0
URL: [git://github.com/livereload/livereload-js.git](https://github.com/livereload/livereload-js.git)
VendorUrl: <https://github.com/livereload/livereload-js>

load-json-file@1.1.0
URL: <https://github.com/sindresorhus/load-json-file.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

loader.js@4.2.3
URL: <https://github.com/ember-cli/loader.js.git>
VendorUrl: <https://github.com/ember-cli/loader.js>

lodash-es@3.10.1
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/custom-builds>

lodash-node@2.4.1
URL: <https://github.com/lodash/lodash-node.git>
VendorName: John-David Dalton
VendorUrl: <http://lodash.com/custom-builds>

lodash-node@3.10.2
URL: <https://github.com/lodash/lodash-node.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>

lodash._arraycopy@3.0.0
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>

lodash._arrayeach@3.0.0
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>

lodash._baseassign@3.2.0
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>

lodash._basecallback@3.3.1
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>

lodash._basecopy@3.0.1
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>

lodash._basefor@3.0.3
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>

lodash._baseindexof@3.1.0
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>

lodash._baseisequal@3.0.7
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>

lodash._baseuniq@3.0.3
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>

lodash._bindcallback@3.0.1
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>

lodash._cacheindexof@3.0.2
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>

lodash._createassigner@3.1.1
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>

lodash._createcache@3.1.2
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>

lodash._getnative@3.9.1
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>

lodash._isiterateecall@3.0.9
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>

lodash.assign@3.2.0
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>

lodash.defaults@3.1.2
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>

lodash.isarguments@3.1.0
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>

lodash.isarray@3.0.4
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>

lodash.isplainobject@3.2.0
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>

lodash.istypedarray@3.0.6
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>

lodash.keys@3.1.2
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>

lodash.keysin@3.0.8
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>

lodash.merge@3.3.2
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>

lodash.merge@4.6.2
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>

lodash.pad@4.5.1
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>

lodash.padend@4.6.1
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>

lodash.padstart@4.6.1
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>

lodash.pairs@3.0.1
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>

lodash.restparam@3.6.1
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>

lodash.toplainobject@3.0.0
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>

lodash.uniq@3.2.2
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>

lodash@2.3.0
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <http://lodash.com/>

lodash@2.4.2
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <http://lodash.com/>

lodash@3.10.1
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>

lodash@4.17.15
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>

longest@1.0.1
URL: <https://github.com/jonschlinkert/longest.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/longest>

loud-rejection@1.6.0
URL: <https://github.com/sindresorhus/loud-rejection.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

lru-queue@0.1.0
URL: <git://github.com/medikoo/lru-queue.git>
VendorName: Mariusz Nowak
VendorUrl: <http://www.medikoo.com/>

make-array@0.1.2
URL: <git://github.com/kaelzhang/make-array.git>
VendorName: kael

map-obj@1.0.1
URL: <https://github.com/sindresorhus/map-obj.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

markdown-it-terminal@0.0.2
URL: <http://github.com/trabus/markdown-it-terminal>
VendorName: Jake Bixby
VendorUrl: <https://github.com/trabus/markdown-it-terminal>

markdown-it@4.3.0
URL: <https://github.com/markdown-it/markdown-it.git>
VendorUrl: <https://github.com/markdown-it/markdown-it>

markdown-it@4.4.0
URL: <https://github.com/markdown-it/markdown-it.git>
VendorUrl: <https://github.com/markdown-it/markdown-it>

math-random@1.0.4
URL: <https://github.com/michaelrhodes/math-random.git>
VendorName: Michael Rhodes

mdurl@1.0.1
URL: <https://github.com/markdown-it/mdurl.git>

media-typer@0.3.0
URL: <https://github.com/jshttp/media-typer.git>
VendorName: Douglas Christopher Wilson

memoizee@0.3.10
URL: <git://github.com/medikoo/memoizee.git>
VendorName: Mariusz Nowak

VendorUrl: <http://www.medikoo.com/>
meow@3.7.0
URL: <https://github.com/sindresorhus/meow.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

merge-defaults@0.2.2
URL: [git://github.com/mikermcneil/merge-defaults.git](https://github.com/mikermcneil/merge-defaults.git)
VendorName: Mike McNeil
VendorUrl: <https://github.com/mikermcneil/merge-defaults>

merge-descriptors@1.0.1
URL: <https://github.com/component/merge-descriptors.git>
VendorName: Jonathan Ong
VendorUrl: <http://jongleberry.com>

merge-trees@1.0.1
URL: <https://github.com/broccolijs/node-merge-trees>
VendorName: Jo Liss

merge@1.2.1
URL: <https://github.com/yeikos/js.merge.git>
VendorName: yeikos
VendorUrl: <https://github.com/yeikos/js.merge>

methods@1.1.2
URL: <https://github.com/jshttp/methods.git>

micromatch@2.3.11
URL: <https://github.com/jonschlinkert/micromatch.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/micromatch>

mime-db@1.42.0
URL: <https://github.com/jshttp/mime-db.git>

mime-types@2.1.25
URL: <https://github.com/jshttp/mime-types.git>

mime@1.6.0
URL: <https://github.com/broofa/node-mime>
VendorName: Robert Kieffer
VendorUrl: <http://github.com/broofa>

minimatch@0.2.14
URL: [git://github.com/isaacs/minimatch.git](https://github.com/isaacs/minimatch.git)
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me>

minimatch@1.0.0
URL: [git://github.com/isaacs/minimatch.git](https://github.com/isaacs/minimatch.git)
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me>

minimist@0.0.10
URL: [git://github.com/substack/minimist.git](https://github.com/substack/minimist.git)
VendorName: James Halliday
VendorUrl: <https://github.com/substack/minimist>

minimist@0.0.8
URL: [git://github.com/substack/minimist.git](https://github.com/substack/minimist.git)

VendorName: James Halliday
VendorUrl: <https://github.com/substack/minimist>
minimist@1.2.0
URL: <git://github.com/substack/minimist.git>

VendorName: James Halliday
VendorUrl: <https://github.com/substack/minimist>
mkdirp@0.3.5
URL: <http://github.com/substack/node-mkdirp.git>

VendorName: James Halliday
VendorUrl: <http://substack.net>
mkdirp@0.4.2
URL: <https://github.com/substack/node-mkdirp.git>

VendorName: James Halliday
VendorUrl: <http://substack.net>
mkdirp@0.5.0
URL: <https://github.com/substack/node-mkdirp.git>

VendorName: James Halliday
VendorUrl: <http://substack.net>
mkdirp@0.5.1
URL: <https://github.com/substack/node-mkdirp.git>

VendorName: James Halliday
VendorUrl: <http://substack.net>
mktemp@0.3.5
URL: <git://github.com/sasaplus1/mktemp.git>

VendorName: sasa+1
mktemp@0.4.0
URL: <git://github.com/sasaplus1/mktemp.git>

VendorName: sasa+1
moment-timezone@0.3.1
URL: <https://github.com/moment/moment-timezone.git>

VendorName: Tim Wood
VendorUrl: <http://momentjs.com/timezone/>
moment@2.24.0
URL: <https://github.com/moment/moment.git>

VendorName: Iskren Ivov Chernev
VendorUrl: <http://momentjs.com/>
morgan@1.9.1
URL: <https://github.com/expressjs/morgan.git>

mout@0.9.1
URL: <git://github.com/mout/mout.git>

VendorUrl: <http://moutjs.com/>
ms@0.7.1
URL: <git://github.com/guille/ms.js.git>

ms@2.0.0
URL: <https://github.com/zeit/ms.git>

ms@2.1.1
URL: <https://github.com/zeit/ms.git>

ms@2.1.2

URL: <https://github.com/zeit/ms.git>
mustache@2.3.2
URL: <https://github.com/janl/mustache.js.git>
VendorName: mustache.js Authors
VendorUrl: <https://github.com/janl/mustache.js>
nan@2.14.0
URL: <git://github.com/nodejs/nan.git>
negotiator@0.6.2
URL: <https://github.com/jshttp/negotiator.git>
next-tick@0.2.2
URL: <git://github.com/medikoo/next-tick.git>
VendorName: Mariusz Nowak
VendorUrl: <http://www.medikoo.com/>
next-tick@1.0.0
URL: <git://github.com/medikoo/next-tick.git>
VendorName: Mariusz Nowak
VendorUrl: <http://www.medikoo.com/>
node-gyp@3.0.3
URL: <git://github.com/nodejs/node-gyp.git>
VendorName: Nathan Rajlich
VendorUrl: <http://tootallnate.net>
node-gyp@3.8.0
URL: <git://github.com/nodejs/node-gyp.git>
VendorName: Nathan Rajlich
VendorUrl: <http://tootallnate.net>
node-int64@0.4.0
URL: <https://github.com/broofa/node-int64>
VendorName: Robert Kieffer
node-sass@4.13.0
URL: <https://github.com/sass/node-sass>
VendorName: Andrew Nesbitt
VendorUrl: <https://github.com/sass/node-sass>
node-uuid@1.4.8
URL: <https://github.com/broofa/node-uuid.git>
VendorName: Robert Kieffer
VendorUrl: <https://github.com/broofa/node-uuid>
normalize-path@2.1.1
URL: <https://github.com/jonschlinkert/normalize-path.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/normalize-path>
number-is-nan@1.0.1
URL: <https://github.com/sindresorhus/number-is-nan.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
numeral@1.5.6
URL: <https://github.com/adamwdraper/Numeral-js>
VendorName: Adam Draper
VendorUrl: <http://numeraljs.com/>

object-assign@2.1.1
URL: <https://github.com/sindresorhus/object-assign.git>
VendorName: Sindre Sorhus
VendorUrl: <http://sindresorhus.com>

object-assign@3.0.0
URL: <https://github.com/sindresorhus/object-assign.git>
VendorName: Sindre Sorhus
VendorUrl: <http://sindresorhus.com>

object-assign@4.1.1
URL: <https://github.com/sindresorhus/object-assign.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

object-keys@1.0.1
URL: <git://github.com/ljharb/object-keys.git>
VendorName: Jordan Harband

object.omit@2.0.1
URL: <https://github.com/jonschlinkert/object.omit.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/object.omit>

on-finished@2.3.0
URL: <https://github.com/jshttp/on-finished.git>

on-headers@1.0.2
URL: <https://github.com/jshttp/on-headers.git>
VendorName: Douglas Christopher Wilson

optimist@0.6.1
URL: <http://github.com/substack/node-optimist.git>
VendorName: James Halliday
VendorUrl: <http://substack.net>

options@0.0.6
URL: <git://github.com/einaros/options.js.git>
VendorName: Einar Otto Stangvik
VendorUrl: <http://2x.io>

os-homedir@1.0.2
URL: <https://github.com/sindresorhus/os-homedir.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

os-locale@1.4.0
URL: <https://github.com/sindresorhus/os-locale.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

os-tmpdir@1.0.2
URL: <https://github.com/sindresorhus/os-tmpdir.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

output-file-sync@1.1.2
URL: <https://github.com/shinnn/output-file-sync.git>
VendorName: Shinnosuke Watanabe
VendorUrl: <https://github.com/shinnn>

parse-glob@3.0.4
URL: <https://github.com/jonschlinkert/parse-glob.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/parse-glob>

parse-json@2.2.0
URL: <https://github.com/sindresorhus/parse-json.git>
VendorName: Sindre Sorhus
VendorUrl: [sindresorhus.com](https://github.com/sindresorhus.com)

parsejson@0.0.1

parseqs@0.0.2

parseuri@0.0.2

parseuri@0.0.4
URL: <https://github.com/get/parseuri.git>
VendorUrl: <https://github.com/get/parseuri>

parseurl@1.3.3
URL: <https://github.com/pillarjs/parseurl.git>

path-array@1.0.1
URL: <git://github.com/TooTallNate/node-path-array.git>
VendorName: Nathan Rajlich
VendorUrl: <https://github.com/TooTallNate/node-path-array>

path-exists@1.0.0
URL: <https://github.com/sindresorhus/path-exists.git>
VendorName: Sindre Sorhus
VendorUrl: [sindresorhus.com](https://github.com/sindresorhus.com)

path-exists@2.1.0
URL: <https://github.com/sindresorhus/path-exists.git>
VendorName: Sindre Sorhus
VendorUrl: [sindresorhus.com](https://github.com/sindresorhus.com)

path-is-absolute@1.0.1
URL: <https://github.com/sindresorhus/path-is-absolute.git>
VendorName: Sindre Sorhus
VendorUrl: [sindresorhus.com](https://github.com/sindresorhus.com)

path-parse@1.0.6
URL: <https://github.com/jbgutierrez/path-parse.git>
VendorName: Javier Blanco
VendorUrl: <https://github.com/jbgutierrez/path-parse#readme>

path-root-regex@0.1.2
URL: <https://github.com/regexhq/path-root-regex.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/regexhq/path-root-regex>

path-root@0.1.1
URL: <https://github.com/jonschlinkert/path-root.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/path-root>

path-to-regexp@0.1.7
URL: <https://github.com/component/path-to-regexp.git>

path-type@1.1.0
URL: <https://github.com/sindresorhus/path-type.git>

VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
pend@1.2.0
URL: git://github.com/andrewrk/node-pend.git
VendorName: Andrew Kelley
performance-now@0.2.0
URL: git://github.com/meryn/performance-now.git
VendorName: Meryn Stol
VendorUrl: https://github.com/meryn/performance-now
performance-now@2.1.0
URL: git://github.com/braveg1rl/performance-now.git
VendorName: Braveg1rl
VendorUrl: https://github.com/braveg1rl/performance-now
pify@2.3.0
URL: https://github.com/sindresorhus/pify.git
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
pinkie-promise@2.0.1
URL: https://github.com/floatdrop/pinkie-promise.git
VendorName: Vsevolod Strukchinsky
VendorUrl: github.com/floatdrop
pinkie@2.0.4
URL: https://github.com/floatdrop/pinkie.git
VendorName: Vsevolod Strukchinsky
VendorUrl: github.com/floatdrop
portfinder@0.4.0
URL: git@github.com:indexzero/node-portfinder.git
VendorName: Charlie Robbins
preserve@0.2.0
URL: git://github.com/jonschlinkert/preserve.git
VendorName: Jon Schlinkert
VendorUrl: https://github.com/jonschlinkert/preserve
private@0.1.8
URL: git://github.com/benjamn/private.git
VendorName: Ben Newman
VendorUrl: http://github.com/benjamn/private
process-nextick-args@1.0.7
URL: https://github.com/calvinmetcalf/process-nextick-args.git
VendorUrl: https://github.com/calvinmetcalf/process-nextick-args
process-nextick-args@2.0.1
URL: https://github.com/calvinmetcalf/process-nextick-args.git
VendorUrl: https://github.com/calvinmetcalf/process-nextick-args
progress@1.1.8
URL: git://github.com/visionmedia/node-progress
VendorName: TJ Holowaychuk
promise-map-series@0.2.3
URL: https://github.com/joliss/promise-map-series
VendorName: Jo Liss

promise@7.3.1
URL: <https://github.com/then/promise.git>
VendorName: ForbesLindesay

proxy-addr@2.0.5
URL: <https://github.com/jshttp/proxy-addr.git>
VendorName: Douglas Christopher Wilson

pr@1.0.1
URL: <https://github.com/rvagg/pr.git>
VendorName: Rod Vagg
VendorUrl: <https://github.com/rvagg/pr>

psl@1.6.0
URL: <git@github.com:lupomontero/psl.git>
VendorName: Lupo Montero
VendorUrl: <https://lupomontero.com/>

punycode@1.4.1
URL: <https://github.com/bestiejs/punycode.js.git>
VendorName: Mathias Bynens
VendorUrl: <https://mths.be/punycode>

punycode@2.1.1
URL: <https://github.com/bestiejs/punycode.js.git>
VendorName: Mathias Bynens
VendorUrl: <https://mths.be/punycode>

q@1.5.1
URL: <git://github.com/krisKowal/q.git>
VendorName: Kris Kowal
VendorUrl: <https://github.com/krisKowal/q>

quick-temp@0.1.3
URL: <https://github.com/joliss/node-quick-temp>
VendorName: Jo Liss

quick-temp@0.1.8
URL: <https://github.com/joliss/node-quick-temp>
VendorName: Jo Liss

qunitjs@1.23.1
URL: <git://github.com/jquery/qunit.git>
VendorName: jQuery Foundation and other contributors
VendorUrl: <https://qunitjs.com/>

randomatic@3.1.1
URL: <https://github.com/jonschlinkert/randomatic.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/randomatic>

range-parser@1.2.1
URL: <https://github.com/jshttp/range-parser.git>
VendorName: TJ Holowaychuk
VendorUrl: <http://tjholowaychuk.com>

raw-body@2.1.7
URL: <https://github.com/stream-utils/raw-body.git>
VendorName: Jonathan Ong
VendorUrl: <http://jongleberry.com>

raw-body@2.4.0
URL: <https://github.com/stream-utils/raw-body.git>
VendorName: Jonathan Ong
VendorUrl: <http://jongleberry.com>

read-pkg-up@1.0.1
URL: <https://github.com/sindresorhus/read-pkg-up.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

read-pkg@1.1.0
URL: <https://github.com/sindresorhus/read-pkg.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

readable-stream@1.1.13
URL: <git://github.com/isaacs/readable-stream>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

readable-stream@1.1.14
URL: <git://github.com/isaacs/readable-stream>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

readable-stream@2.0.6
URL: <git://github.com/nodejs/readable-stream>

readable-stream@2.3.6
URL: <git://github.com/nodejs/readable-stream>

readline2@0.1.1
URL: <https://github.com/SBoudrias/readline2.git>
VendorName: Simon Boudrias

recast@0.10.33
URL: <git://github.com/benjamn/recast.git>
VendorName: Ben Newman
VendorUrl: <http://github.com/benjamn/recast>

recast@0.10.43
URL: <git://github.com/benjamn/recast.git>
VendorName: Ben Newman
VendorUrl: <http://github.com/benjamn/recast>

recast@0.11.23
URL: <git://github.com/benjamn/recast.git>
VendorName: Ben Newman
VendorUrl: <http://github.com/benjamn/recast>

redent@1.0.0
URL: <https://github.com/sindresorhus/redent.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

redeyed@0.5.0
URL: <git://github.com/thlorenz/redeyed.git>
VendorName: Thorsten Lorenz
VendorUrl: thlorenz.com

regenerate@1.4.0

URL: <https://github.com/mathiasbynens/regenerate.git>
VendorName: Mathias Bynens
VendorUrl: <https://mths.be/regenerate>

regex-cache@0.4.4
URL: <https://github.com/jonschlinkert/regex-cache.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/regex-cache>

regexpu@1.3.0
URL: <https://github.com/mathiasbynens/regexpu.git>
VendorName: Mathias Bynens
VendorUrl: <https://mths.be/regexpu>

regjsgen@0.2.0
URL: <https://github.com/d10/regjsgen.git>
VendorName: Benjamin Tan
VendorUrl: <https://github.com/d10/regjsgen>

repeat-element@1.1.3
URL: <https://github.com/jonschlinkert/repeat-element.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/repeat-element>

repeat-string@1.6.1
URL: <https://github.com/jonschlinkert/repeat-string.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/repeat-string>

repeating@1.1.3
URL: <https://github.com/sindresorhus/repeating.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

repeating@2.0.1
URL: <https://github.com/sindresorhus/repeating.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

request-progress@2.0.1
URL: [git://github.com/IndigoUnited/node-request-progress](https://github.com/IndigoUnited/node-request-progress)
VendorName: IndigoUnited
VendorUrl: <http://indigounited.com>

require-directory@2.1.1
URL: [git://github.com/troygoode/node-require-directory.git](https://github.com/troygoode/node-require-directory.git)
VendorName: Troy Goode
VendorUrl: <https://github.com/troygoode/node-require-directory/>

requires-port@1.0.0
URL: <https://github.com/unshiftio/requires-port>
VendorName: Arnout Kazemier
VendorUrl: <https://github.com/unshiftio/requires-port>

resolve-package-path@1.2.7

resolve@1.14.1
URL: [git://github.com/browserify/resolve.git](https://github.com/browserify/resolve.git)
VendorName: James Halliday
VendorUrl: <http://substack.net>

retry@0.8.0
URL: [git://github.com/tim-kos/node-retry.git](https://github.com/tim-kos/node-retry.git)
VendorName: Tim Koschtzki
VendorUrl: <https://github.com/tim-kos/node-retry>

right-align@0.1.3
URL: [git://github.com/jonschlinkert/right-align.git](https://github.com/jonschlinkert/right-align.git)
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/right-align>

rimraf@2.2.8
URL: [git://github.com/isaacs/rimraf.git](https://github.com/isaacs/rimraf.git)
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

rsvp@3.0.21
URL: <https://github.com/tildeio/rsvp.js.git>
VendorName: Tilde, Inc. & Stefan Penner

rsvp@3.2.1
URL: <https://github.com/tildeio/rsvp.js.git>
VendorName: Tilde, Inc. & Stefan Penner

rsvp@3.6.2
URL: <https://github.com/tildeio/rsvp.js.git>
VendorName: Tilde, Inc. & Stefan Penner

rsvp@4.8.5
URL: <https://github.com/tildeio/rsvp.js.git>
VendorName: Tilde, Inc. & Stefan Penner
VendorUrl: <https://github.com/tildeio/rsvp.js>

safe-buffer@5.1.2
URL: [git://github.com/feross/safe-buffer.git](https://github.com/feross/safe-buffer.git)
VendorName: Feross Aboukhadijeh
VendorUrl: <https://github.com/feross/safe-buffer>

safe-buffer@5.2.0
URL: [git://github.com/feross/safe-buffer.git](https://github.com/feross/safe-buffer.git)
VendorName: Feross Aboukhadijeh
VendorUrl: <https://github.com/feross/safe-buffer>

safer-buffer@2.1.2
URL: [git+https://github.com/ChALkeR/safer-buffer.git](https://github.com/ChALkeR/safer-buffer.git)
VendorName: Nikita Skovoroda
VendorUrl: <https://github.com/ChALkeR>

sane@1.7.0
URL: <https://github.com/amasad/sane>
VendorName: amasad
VendorUrl: <https://github.com/amasad/sane>

sass-graph@2.2.4
URL: <https://github.com/xzyfer/sass-graph.git>
VendorName: xzyfer

scss-tokenizer@0.2.3
URL: <https://github.com/sasstools/scss-tokenizer.git>
VendorName: xzyfer
VendorUrl: <https://github.com/sasstools/scss-tokenizer>

select2@4.0.0
URL: [git://github.com/select2/select2.git](https://github.com/select2/select2.git)
VendorName: Kevin Brown
VendorUrl: <https://select2.github.io/>

send@0.17.1
URL: <https://github.com/pillarjs/send.git>
VendorName: TJ Holowaychuk

serve-static@1.14.1
URL: <https://github.com/expressjs/serve-static.git>
VendorName: Douglas Christopher Wilson

shebang-regex@1.0.0
URL: <https://github.com/sindresorhus/shebang-regex.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

simple-fmt@0.1.0
URL: <https://github.com/olov/simple-fmt.git>
VendorName: Olov Lassus

simple-is@0.2.0
URL: <https://github.com/olov/simple-is.git>
VendorName: Olov Lassus

slash@1.0.0
URL: <https://github.com/sindresorhus/slash.git>
VendorName: Sindre Sorhus
VendorUrl: [http://sindresorhus.com](https://sindresorhus.com)

socket.io-client-pure@1.3.12
URL: <https://github.com/Automattic/socket.io-client.git>

socket.io-parser@2.2.2
URL: <https://github.com/Automattic/socket.io-parser.git>

socket.io-parser@2.2.4
URL: <https://github.com/Automattic/socket.io-parser.git>

socket.io-pure@1.3.12
URL: [git://github.com/Automattic/socket.io](https://github.com/Automattic/socket.io)

source-map-support@0.2.10
URL: <https://github.com/evanw/node-source-map-support>

source-map-url@0.3.0
URL: <https://github.com/lydell/source-map-url.git>
VendorName: Simon Lydell

spawnback@1.0.0
URL: [git://github.com/scottgonzalez/spawnback.git](https://github.com/scottgonzalez/spawnback.git)
VendorName: Scott Gonzlez
VendorUrl: <https://github.com/scottgonzalez/spawnback>

spdx-expression-parse@3.0.0
URL: <https://github.com/jslicense/spdx-expression-parse.js.git>
VendorName: Kyle E. Mitchell
VendorUrl: <http://kemitchell.com>

sri-toolbox@0.2.0
URL: <https://github.com/neftaly/npm-sri-toolbox.git>
VendorName: Neftaly Hernandez

sshpk@1.16.1
URL: git+https://github.com/joyent/node-sshpk.git
VendorName: Joyent, Inc
VendorUrl: https://github.com/arekinath/node-sshpk#readme

stable@0.1.8
URL: https://github.com/Two-Screen/stable.git
VendorName: Angry Bytes

statuses@1.5.0
URL: https://github.com/jshttp/statuses.git

stdout-stream@1.4.1
URL: https://github.com/mafintosh/stdout-stream.git

string_decoder@0.10.31
URL: git://github.com/rvagg/string_decoder.git
VendorUrl: https://github.com/rvagg/string_decoder

string_decoder@1.1.1
URL: git://github.com/nodejs/string_decoder.git
VendorUrl: https://github.com/nodejs/string_decoder

string-width@1.0.2
URL: https://github.com/sindresorhus/string-width.git
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

string-width@2.1.1
URL: https://github.com/sindresorhus/string-width.git
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

string.prototype.endsWith@0.2.0
URL: https://github.com/mathiasbynens/String.prototype.endsWith.git
VendorName: Mathias Bynens
VendorUrl: http://mths.be/endsWith

stringmap@0.2.2
URL: https://github.com/olov/stringmap.git
VendorName: Olov Lassus

stringset@0.2.1
URL: https://github.com/olov/stringset.git
VendorName: Olov Lassus

stringstream@0.0.6
URL: https://github.com/mhart/StringStream.git
VendorName: Michael Hart
VendorUrl: http://github.com/mhart

strip-ansi@0.1.1
URL: https://github.com/sindresorhus/strip-ansi.git
VendorName: Sindre Sorhus
VendorUrl: http://sindresorhus.com

strip-ansi@0.3.0
URL: https://github.com/sindresorhus/strip-ansi.git
VendorName: Sindre Sorhus
VendorUrl: http://sindresorhus.com

strip-ansi@2.0.1

URL: <https://github.com/sindresorhus/strip-ansi.git>
VendorName: Sindre Sorhus
VendorUrl: <http://sindresorhus.com>
strip-ansi@3.0.1
URL: <https://github.com/chalk/strip-ansi.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
strip-ansi@4.0.0
URL: <https://github.com/chalk/strip-ansi.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
strip-bom@2.0.0
URL: <https://github.com/sindresorhus/strip-bom.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
strip-indent@1.0.1
URL: <https://github.com/sindresorhus/strip-indent.git>
VendorName: Sindre Sorhus
VendorUrl: <http://sindresorhus.com>
strip-json-comments@1.0.4
URL: <https://github.com/sindresorhus/strip-json-comments.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
styled_string@0.0.1
VendorName: Toby Ho
supports-color@0.2.0
URL: <https://github.com/sindresorhus/supports-color.git>
VendorName: Sindre Sorhus
VendorUrl: <http://sindresorhus.com>
supports-color@2.0.0
URL: <https://github.com/chalk/supports-color.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
supports-color@5.5.0
URL: <https://github.com/chalk/supports-color.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
symlink-or-copy@1.3.1
URL: <https://github.com/broccolijs/node-symlink-or-copy>
VendorName: Jo Liss
tap-parser@1.3.2
URL: <git://github.com/substack/tap-parser.git>
VendorName: James Halliday
VendorUrl: <https://github.com/substack/tap-parser>
temp@0.8.1
URL: <git://github.com/bruce/node-temp.git>
VendorName: Bruce Williams
testem@0.9.11

URL: [git://github.com/airportyh/testem.git](https://github.com/airportyh/testem.git)
VendorName: Toby Ho
text-table@0.2.0
URL: [git://github.com/substack/text-table.git](https://github.com/substack/text-table.git)
VendorName: James Halliday
VendorUrl: <https://github.com/substack/text-table>
textextensions@2.6.0
URL: <https://github.com/bevry/textextensions.git>
VendorName: 2013+ Bevry Pty Ltd
VendorUrl: <https://github.com/bevry/textextensions>
throttleit@1.0.0
URL: [git://github.com/component/throttle.git](https://github.com/component/throttle.git)
through@2.3.8
URL: <https://github.com/dominictarr/through.git>
VendorName: Dominic Tarr
VendorUrl: <https://github.com/dominictarr/through>
tiny-lr@0.2.0
URL: [git://github.com/mklabs/tiny-lr.git](https://github.com/mklabs/tiny-lr.git)
VendorName: mklabs
VendorUrl: <https://github.com/mklabs/tiny-lr>
tmp@0.0.28
URL: [git://github.com/raszi/node-tmp.git](https://github.com/raszi/node-tmp.git)
VendorName: KARASZI Istvn
VendorUrl: <http://github.com/raszi/node-tmp>
to-array@0.1.3
URL: [git://github.com/Raynos/to-array.git](https://github.com/Raynos/to-array.git)
VendorName: Raynos
VendorUrl: <https://github.com/Raynos/to-array>
to-fast-properties@1.0.3
URL: <https://github.com/sindresorhus/to-fast-properties.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
toidentifier@1.0.0
URL: <https://github.com/component/toidentifier.git>
VendorName: Douglas Christopher Wilson
trim-newlines@1.0.0
URL: <https://github.com/sindresorhus/trim-newlines.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
trim-right@1.0.1
URL: <https://github.com/sindresorhus/trim-right.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
try-resolve@1.0.1
URL: <https://github.com/sebmck/try-resolve.git>
VendorName: Sebastian McKenzie
tryor@0.1.2
URL: <https://github.com/olov/tryor.git>

VendorName: Olov Lassus
type-is@1.6.18
URL: <https://github.com/jshttp/type-is.git>

typedarray@0.0.6
URL: <git://github.com/substack/typedarray.git>
VendorName: James Halliday
VendorUrl: <https://github.com/substack/typedarray>

uc.micro@1.0.6
URL: <https://github.com/markdown-it/uc.micro.git>

uglify-to-browserify@1.0.2
URL: <https://github.com/ForbesLindesay/uglify-to-browserify.git>
VendorName: ForbesLindesay

ultron@1.0.2
URL: <https://github.com/unshiftio/ultron>
VendorName: Arnout Kazemier
VendorUrl: <https://github.com/unshiftio/ultron>

umask@1.1.0
URL: <https://github.com/smikes/umask.git>
VendorName: Sam Mikes
VendorUrl: <https://github.com/smikes/umask>

underscore.string@2.3.3
URL: <https://github.com/epeli/underscore.string.git>
VendorUrl: <http://epeli.github.com/underscore.string/>

underscore.string@3.3.5
URL: <https://github.com/epeli/underscore.string.git>
VendorUrl: <http://epeli.github.com/underscore.string/>

underscore@1.9.1
URL: <git://github.com/jashkenas/underscore.git>
VendorName: Jeremy Ashkenas
VendorUrl: <http://underscorejs.org/>

universalify@0.1.2
URL: <git+https://github.com/RyanZim/universalify.git>
VendorName: Ryan Zimmerman
VendorUrl: <https://github.com/RyanZim/universalify#readme>

unpipe@1.0.0
URL: <https://github.com/stream-utils/unpipe.git>
VendorName: Douglas Christopher Wilson

user-home@1.1.1
URL: <https://github.com/sindresorhus/user-home.git>
VendorName: Sindre Sorhus
VendorUrl: <http://sindresorhus.com>

username-sync@1.0.2
URL: <git@github.com:stefanpenner/username-sync>
VendorName: Stefan Penner

utf8@2.1.0
URL: <https://github.com/mathiasbynens/utf8.js.git>
VendorName: Mathias Bynens
VendorUrl: <https://mths.be/utf8js>

util-deprecate@1.0.2
URL: [git://github.com/TooTallNate/util-deprecate.git](https://github.com/TooTallNate/util-deprecate.git)
VendorName: Nathan Rajlich
VendorUrl: <https://github.com/TooTallNate/util-deprecate>

util-extend@1.0.3
URL: [git://github.com/isaacs/util-extend](https://github.com/isaacs/util-extend)

utils-merge@1.0.1
URL: [git://github.com/jaredhanson/utils-merge.git](https://github.com/jaredhanson/utils-merge.git)
VendorName: Jared Hanson
VendorUrl: <http://www.jaredhanson.net/>

uuid@2.0.3
URL: <https://github.com/defunctzombie/node-uuid.git>
VendorName: Robert Kieffer

uuid@3.3.3
URL: <https://github.com/kelektiv/node-uuid.git>

vary@1.1.2
URL: <https://github.com/jshttp/vary.git>
VendorName: Douglas Christopher Wilson

verror@1.10.0
URL: [git://github.com/davepacheco/node-verror.git](https://github.com/davepacheco/node-verror.git)

walk-sync@0.1.3
URL: <https://github.com/joliss/node-walk-sync>
VendorName: Jo Liss

walk-sync@0.2.7
URL: <https://github.com/joliss/node-walk-sync>
VendorName: Jo Liss

walk-sync@0.3.4
URL: <https://github.com/joliss/node-walk-sync>
VendorName: Jo Liss

wcwidth@1.0.1
URL: [git+https://github.com/timoxley/wcwidth.git](https://github.com/timoxley/wcwidth.git)
VendorName: Tim Oxley
VendorUrl: <https://github.com/timoxley/wcwidth#readme>

websocket-extensions@0.1.3
URL: [git://github.com/faye/websocket-extensions-node.git](https://github.com/faye/websocket-extensions-node.git)
VendorName: James Coglan
VendorUrl: <http://github.com/faye/websocket-extensions-node>

window-size@0.1.0
URL: <https://github.com/jonschlinkert/window-size.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/window-size>

window-size@0.1.4
URL: <https://github.com/jonschlinkert/window-size.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/window-size>

wordwrap@0.0.2
URL: [git://github.com/substack/node-wordwrap.git](https://github.com/substack/node-wordwrap.git)
VendorName: James Halliday

VendorUrl: <http://substack.net>
wordwrap@0.0.3
URL: <git://github.com/substack/node-wordwrap.git>
VendorName: James Halliday
VendorUrl: <http://substack.net>
wrap-ansi@2.1.0
URL: <https://github.com/chalk/wrap-ansi.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
ws-pure@0.8.0
URL: <git://github.com/patocallaghan/ws.git>
VendorName: Pat O'Callaghan
xdg-basedir@2.0.0
URL: <https://github.com/sindresorhus/xdg-basedir.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
xmlhttprequest-ssl@1.5.1
URL: <git://github.com/mjwwit/node-XMLHttpRequest.git>
VendorName: Michael de Wit
xtend@4.0.2
URL: <git://github.com/Raynos/xtend.git>
VendorName: Raynos
VendorUrl: <https://github.com/Raynos/xtend>
yam@0.0.18
URL: <https://github.com/twokul/yam>
VendorName: Alex Navasardyan
VendorUrl: <http://twokul.io>
yargs@3.10.0
URL: <http://github.com/bcoe/yargs.git>
VendorName: Alex Ford
VendorUrl: <http://CodeTunnel.com>
yargs@3.27.0
URL: <http://github.com/bcoe/yargs.git>
VendorName: Alex Ford
VendorUrl: <http://CodeTunnel.com>
yargs@7.1.0
URL: <http://github.com/yargs/yargs.git>
VendorUrl: <http://yargs.js.org/>
yauzl@2.4.1
URL: <https://github.com/thejshwolfe/yauzl.git>
VendorName: Josh Wolfe
VendorUrl: <https://github.com/thejshwolfe/yauzl>
MIT*
after@0.8.1
URL: <git://github.com/Raynos/after.git>
VendorName: Raynos
assert-plus@0.1.5
URL: <https://github.com/mcavage/node-assert-plus.git>

VendorName: Mark Cavage
async-foreach@0.1.3
URL: [git://github.com/cowboy/javascript-sync-async-foreach.git](https://github.com/cowboy/javascript-sync-async-foreach.git)
VendorName: "Cowboy" Ben Alman
VendorUrl: [http://github.com/cowboy/javascript-sync-async-foreach](https://github.com/cowboy/javascript-sync-async-foreach/blob/0.0.4)
blob@0.0.4
URL: [git@github.com:rase-/blob.git](https://github.com/rase-/blob.git)
VendorUrl: <https://github.com/rase-/blob>
callsite@1.0.0
VendorName: TJ Holowaychuk
component-bind@1.0.0
URL: <https://github.com/component/bind.git>
component-emitter@1.1.2
URL: <https://github.com/component/emitter.git>
component-inherit@0.0.3
URL: <https://github.com/component/inherit.git>
engine.io-client-pure@1.5.9
URL: <https://github.com/Automattic/engine.io-client.git>
VendorUrl: <http://socket.io/>
git-tools@0.1.4
URL: [git://github.com/scottgonzalez/node-git-tools.git](https://github.com/scottgonzalez/node-git-tools.git)
VendorName: Scott Gonzlez
VendorUrl: <https://github.com/scottgonzalez/node-git-tools>
indexof@0.0.1
ms@0.6.2
URL: [git://github.com/guille/ms.js.git](https://github.com/guille/ms.js.git)
object-component@0.0.3
socket.io-adapter@0.3.1
URL: [git://github.com/Automattic/socket.io-adapter.git](https://github.com/Automattic/socket.io-adapter.git)

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jsonify@0.0.0
URL: [http://github.com/substack/jsonify.git](https://github.com/substack/jsonify.git)
VendorName: Douglas Crockford
VendorUrl: <http://crockford.com/>

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sntp@1.0.9
URL: [git://github.com/hueniverse/sntp](https://github.com/hueniverse/sntp)
VendorName: Eran Hammer
VendorUrl: <http://hueniverse.com>

UNKNOWN

base64id@0.1.0
URL: <https://github.com/faeldt/base64id.git>
VendorName: Kristian Faeldt
colors@0.6.2
URL: [http://github.com/Marak/colors.js.git](https://github.com/Marak/colors.js.git)
VendorName: Marak Squires
VendorUrl: <https://github.com/Marak/colors.js>

Unlicense

spdx-license-ids@1.2.2

URL: <https://github.com/shinnn/spdx-license-ids.git>

VendorName: Shinnosuke Watanabe

VendorUrl: <https://github.com/shinnn>

tweetnacl@0.14.5

URL: <https://github.com/dchest/tweetnacl-js.git>

VendorName: TweetNaCl-js contributors

VendorUrl: <https://tweetnacl.js.org/>

WTFPL

sorted-object@1.0.0

URL: <git://github.com/domenic/sorted-object.git>

VendorName: Domenic Denicola

VendorUrl: <http://domenic.me/>

WTFPL OR ISC

is-integer@1.0.7

URL: <git@github.com:parshap/js-is-integer>

VendorName: Parsha Pourkhomami

Done in 0.84s.

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JUnit

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src/test/resources/CSVFileParser/test_default.txt

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src/test/resources/CSVFileParser/test_rfc4180.txt

src/test/resources/CSVFileParser/test_rfc4180_trim.txt

src/test/resources/CSVFileParser/testCSV85.csv

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org.eclipse.jetty.toolchain:jetty-schemas

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== Contributors ==

* Tatu Saloranta

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* Alec Wysoker

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jaxb-api

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LZ4 - Fast LZ compression algorithm

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uriparser - RFC 3986 URI parsing library

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hadoop-hdfs-project/hadoop-
hdfs/src/main/java/org/apache/hadoop/hdfs/server/datanode/checker/AbstractFuture.java
hadoop-hdfs-project/hadoop-
hdfs/src/main/java/org/apache/hadoop/hdfs/server/datanode/checker/TimeoutFuture.java

BSD 2-Clause

hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-client-
nativetask/src/main/native/lz4/lz4.{c|h}
hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/native/container-
executor/impl/compat/{fstatat|openat|unlinkat}.h

BSD 3-Clause

hadoop-common-project/hadoop-common/src/main/java/org/apache/hadoop/util/bloom/*
hadoop-common-project/hadoop-common/src/main/native/gtest/gtest-all.cc
hadoop-common-project/hadoop-common/src/main/native/gtest/include/gtest/gtest.h
hadoop-common-project/hadoop-common/src/main/native/src/org/apache/hadoop/util/bulk_crc32_x86.c
hadoop-hdfs-project/hadoop-hdfs-native-

client/src/main/native/libhdfspp/third_party/protobuf/protobuf/cpp_helpers.h
hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/libhdfspp/third_party/gmock-1.7.0/*.*.{cc|h}
hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/d3.v3.js
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/d3-v4.1.1.min.js

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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dataTables.bootstrap.css
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dataTables.bootstrap.js
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dust-full-2.0.0.min.js
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dust-helpers-1.1.1.min.js
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/jquery-3.5.1.min.js
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/jquery.dataTables.min.js
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/moment.min.js
hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/bootstrap.min.js
hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/jquery.js
hadoop-tools/hadoop-sls/src/main/html/css/bootstrap.min.css
hadoop-tools/hadoop-sls/src/main/html/css/bootstrap-responsive.min.css
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-applications/hadoop-yarn-applications-catalog/hadoop-yarn-applications-catalog-webapp/node_modules/.bin/r.js
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/dt-1.10.18/*
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/jquery
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/jt/jquery.jstree.js
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/resources/TERMINAL

uriparser2 (hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/libhdfspp/third_party/uriparser2)
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/native/container-executor/impl/Utils/cJSON.[ch]

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asio-1.10.2 (hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/libhdfspp/third_party/asio-1.10.2)
rapidxml-1.13 (hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/libhdfspp/third_party/rapidxml-1.13)
tr2 (hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/libhdfspp/third_party/tr2)

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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/json-bignum.js

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Hadoop Yarn Server Web Proxy uses the BouncyCastle Java cryptography APIs written by the Legion of the Bouncy Castle Inc. For portions of the native implementation of slicing-by-8 CRC calculation in `src/main/native/src/org/apache/hadoop/util`:

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*

* Abstract: The main routine

*

--*/

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roboto-fontface@0.10.0

URL: <https://github.com/choffmeister/roboto-fontface-bower.git>

VendorName: Christian Hoffmeister

VendorUrl: <https://github.com/choffmeister/roboto-fontface-bower>

BSD-2-Clause

entities@1.1.2

URL: <git://github.com/fb55/entities.git>

VendorName: Felix Boehm

BSD-3-Clause

shelljs@0.2.6

URL: <git://github.com/arturadib/shelljs.git>

VendorName: Artur Adib

VendorUrl: <http://github.com/arturadib/shelljs>

sprintf-js@1.0.3

URL: <https://github.com/alexei/sprintf.js.git>

VendorName: Alexandru Marasteanu

VendorUrl: <http://alexei.ro/>

ISC

fs.realpath@1.0.0

URL: <git+https://github.com/isaacs/fs.realpath.git>

VendorName: Isaac Z. Schlueter

VendorUrl: <http://blog.izs.me/>

glob@7.1.6

URL: <git://github.com/isaacs/node-glob.git>

VendorName: Isaac Z. Schlueter

VendorUrl: <http://blog.izs.me/>

graceful-fs@4.2.4

URL: <https://github.com/isaacs/node-graceful-fs>

inflight@1.0.6

URL: <https://github.com/npm/inflight.git>

VendorName: Isaac Z. Schlueter

VendorUrl: <https://github.com/isaacs/inflight>

inherits@2.0.4

URL: <git://github.com/isaacs/inherits>

minimatch@3.0.4

URL: [git://github.com/isaacs/minimatch.git](https://github.com/isaacs/minimatch.git)

VendorName: Isaac Z. Schlueter

VendorUrl: <http://blog.izs.me>

once@1.4.0

URL: [git://github.com/isaacs/once](https://github.com/isaacs/once)

VendorName: Isaac Z. Schlueter

VendorUrl: <http://blog.izs.me/>

semver@5.3.0

URL: <https://github.com/npm/node-semver>

wrappy@1.0.2

URL: <https://github.com/npm/wrappy>

VendorName: Isaac Z. Schlueter

VendorUrl: <https://github.com/npm/wrappy>

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angular-loader@1.6.10

URL: <https://github.com/angular/angular.js.git>

VendorName: Angular Core Team

VendorUrl: <http://angularjs.org/>

angular-mocks@1.6.10

URL: <https://github.com/angular/angular.js.git>

VendorName: Angular Core Team

VendorUrl: <http://angularjs.org/>

angular-route@1.6.10

URL: <https://github.com/angular/angular.js.git>

VendorName: Angular Core Team

VendorUrl: <http://angularjs.org/>

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URL: <https://github.com/angular/angular.js.git>

VendorName: Angular Core Team

VendorUrl: <http://angularjs.org/>

apidoc-core@0.8.3

URL: <https://github.com/apidoc/apidoc-core.git>

VendorName: Peter Rottmann

VendorUrl: <https://github.com/apidoc/apidoc-core>

apidoc@0.17.7

URL: <https://github.com/apidoc/apidoc.git>

VendorName: Peter Rottmann

VendorUrl: <http://apidocjs.com/>

argparse@1.0.10

URL: <https://github.com/nodeca/argparse.git>

async@2.6.3

URL: <https://github.com/caolan/async.git>

VendorName: Caolan McMahon

VendorUrl: <https://caolan.github.io/async/>

balanced-match@1.0.0

URL: [git://github.com/juliangruber/balanced-match.git](https://github.com/juliangruber/balanced-match.git)

VendorName: Julian Gruber

VendorUrl: <https://github.com/juliangruber/balanced-match>
bootstrap@3.3.7
URL: <https://github.com/twbs/bootstrap.git>
VendorName: Twitter, Inc.
VendorUrl: <http://getbootstrap.com/>

brace-expansion@1.1.11
URL: <git://github.com/juliangruber/brace-expansion.git>
VendorName: Julian Gruber
VendorUrl: <https://github.com/juliangruber/brace-expansion>

color-convert@1.9.3
URL: <https://github.com/Qix-/color-convert.git>
VendorName: Heather Arthur

color-name@1.1.3
URL: <git@github.com:dfcreative/color-name.git>
VendorName: DY
VendorUrl: <https://github.com/dfcreative/color-name>

color-name@1.1.4
URL: <git@github.com:colorjs/color-name.git>
VendorName: DY
VendorUrl: <https://github.com/colorjs/color-name>

color-string@1.5.3
URL: <https://github.com/Qix-/color-string.git>
VendorName: Heather Arthur

color@3.0.0
URL: <https://github.com/Qix-/color.git>

colornames@1.1.1
URL: <git://github.com/timoxley/colornames.git>
VendorName: Tim Oxley
VendorUrl: <https://github.com/timoxley/colornames#readme>

colors@1.4.0
URL: <http://github.com/Marak/colors.js.git>
VendorName: Marak Squires
VendorUrl: <https://github.com/Marak/colors.js>

colorspace@1.1.2
URL: <https://github.com/3rd-Eden/colorspace>
VendorName: Arnout Kazemier
VendorUrl: <https://github.com/3rd-Eden/colorspace>

commander@2.20.3
URL: <https://github.com/tj/commander.js.git>
VendorName: TJ Holowaychuk

concat-map@0.0.1
URL: <git://github.com/substack/node-concat-map.git>
VendorName: James Halliday
VendorUrl: <http://substack.net>

core-util-is@1.0.2
URL: <git://github.com/isaacs/core-util-is>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

diagnostics@1.1.1

URL: [git://github.com/bigpipe/diagnostics.git](https://github.com/bigpipe/diagnostics.git)

VendorName: Arnout Kazemier

VendorUrl: <https://github.com/bigpipe/diagnostics>

enabled@1.0.2

URL: [git://github.com/bigpipe/enabled.git](https://github.com/bigpipe/enabled.git)

VendorName: Arnout Kazemier

env-variable@0.0.6

URL: <https://github.com/3rd-Eden/env-variable>

VendorName: Arnout Kazemier

VendorUrl: <https://github.com/3rd-Eden/env-variable>

fast-safe-stringify@2.0.7

URL: [git+https://github.com/davidmarkclements/fast-safe-stringify.git](https://github.com/davidmarkclements/fast-safe-stringify.git)

VendorName: David Mark Clements

VendorUrl: <https://github.com/davidmarkclements/fast-safe-stringify#readme>

fecha@2.3.3

URL: <https://github.com/taylorhakes/fecha.git>

VendorName: Taylor Hakes

VendorUrl: <https://github.com/taylorhakes/fecha>

fs-extra@3.0.1

URL: <https://github.com/jprichardson/node-fs-extra>

VendorName: JP Richardson

VendorUrl: <https://github.com/jprichardson/node-fs-extra>

fs-extra@7.0.1

URL: <https://github.com/jprichardson/node-fs-extra>

VendorName: JP Richardson

VendorUrl: <https://github.com/jprichardson/node-fs-extra>

iconv-lite@0.4.24

URL: [git://github.com/ashtuchkin/iconv-lite.git](https://github.com/ashtuchkin/iconv-lite.git)

VendorName: Alexander Shtuchkin

VendorUrl: <https://github.com/ashtuchkin/iconv-lite>

is-arrayish@0.3.2

URL: <https://github.com/qix-/node-is-arrayish.git>

VendorName: Qix

VendorUrl: <http://github.com/qix->

is-stream@1.1.0

URL: <https://github.com/sindresorhus/is-stream.git>

VendorName: Sindre Sorhus

VendorUrl: sindresorhus.com

isarray@1.0.0

URL: [git://github.com/juliangruber/isarray.git](https://github.com/juliangruber/isarray.git)

VendorName: Julian Gruber

VendorUrl: <https://github.com/juliangruber/isarray>

jquery@3.3.1

URL: <https://github.com/jquery/jquery.git>

VendorName: JS Foundation and other contributors

VendorUrl: <https://jquery.com/>

jsonfile@3.0.1

URL: [git@github.com:jprichardson/node-jsonfile.git](https://github.com/jprichardson/node-jsonfile.git)
VendorName: JP Richardson
jsonfile@4.0.0
URL: [git@github.com:jprichardson/node-jsonfile.git](https://github.com/jprichardson/node-jsonfile.git)
VendorName: JP Richardson
klaw-sync@2.1.0
URL: [git+https://github.com/manidlou/node-klaw-sync.git](https://github.com/manidlou/node-klaw-sync.git)
VendorName: Mani Maghsoudlou
VendorUrl: <https://github.com/manidlou/node-klaw-sync#readme>
kuler@1.0.1
URL: <https://github.com/3rd-Eden/kuler>
VendorName: Arnout Kazemier
VendorUrl: <https://github.com/3rd-Eden/kuler>
linkify-it@2.2.0
URL: <https://github.com/markdown-it/linkify-it.git>
lodash@4.17.15
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>
logform@2.1.2
URL: [git+https://github.com/winstonjs/logform.git](https://github.com/winstonjs/logform.git)
VendorName: Charlie Robbins
VendorUrl: <https://github.com/winstonjs/logform#readme>
markdown-it@8.4.2
URL: <https://github.com/markdown-it/markdown-it.git>
mdurl@1.0.1
URL: <https://github.com/markdown-it/mdurl.git>
ms@2.1.2
URL: <https://github.com/zeit/ms.git>
one-time@0.0.4
URL: <https://github.com/unshiftio/one-time>
VendorName: Arnout Kazemier
path-is-absolute@1.0.1
URL: <https://github.com/sindresorhus/path-is-absolute.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
process-nextick-args@2.0.1
URL: <https://github.com/calvinmetcalf/process-nextick-args.git>
VendorUrl: <https://github.com/calvinmetcalf/process-nextick-args>
readable-stream@2.3.7
URL: [git://github.com/nodejs/readable-stream](https://github.com/nodejs/readable-stream)
readable-stream@3.6.0
URL: [git://github.com/nodejs/readable-stream](https://github.com/nodejs/readable-stream)
requirejs@2.3.6
URL: <https://github.com/jrburke/r.js.git>
VendorName: James Burke
VendorUrl: <http://github.com/jrburke/r.js>
safe-buffer@5.1.2

URL: [git://github.com/feross/safe-buffer.git](https://github.com/feross/safe-buffer.git)
VendorName: Feross Aboukhadijeh
VendorUrl: <https://github.com/feross/safe-buffer>
safe-buffer@5.2.0

URL: [git://github.com/feross/safe-buffer.git](https://github.com/feross/safe-buffer.git)
VendorName: Feross Aboukhadijeh
VendorUrl: <https://github.com/feross/safe-buffer>
safer-buffer@2.1.2

URL: [git+https://github.com/ChALkeR/safer-buffer.git](https://github.com/ChALkeR/safer-buffer.git)
VendorName: Nikita Skovoroda
VendorUrl: <https://github.com/ChALkeR>
simple-swizzle@0.2.2

URL: <https://github.com/qix-/node-simple-swizzle.git>
VendorName: Qix
VendorUrl: <http://github.com/qix->
stack-trace@0.0.10

URL: [git://github.com/felixge/node-stack-trace.git](https://github.com/felixge/node-stack-trace.git)
VendorName: Felix Geisendrfer
VendorUrl: <https://github.com/felixge/node-stack-trace>
string_decoder@1.1.1

URL: [git://github.com/nodejs/string_decoder.git](https://github.com/nodejs/string_decoder.git)
VendorUrl: https://github.com/nodejs/string_decoder
string_decoder@1.3.0

URL: [git://github.com/nodejs/string_decoder.git](https://github.com/nodejs/string_decoder.git)
VendorUrl: https://github.com/nodejs/string_decoder
text-hex@1.0.0

URL: <https://github.com/3rd-Eden/text-hex>
VendorName: Arnout Kazemier
VendorUrl: <https://github.com/3rd-Eden/text-hex>
triple-beam@1.3.0

URL: [git+https://github.com/winstonjs/triple-beam.git](https://github.com/winstonjs/triple-beam.git)
VendorName: Charlie Robbins
VendorUrl: <https://github.com/winstonjs/triple-beam#readme>
uc.micro@1.0.6

URL: <https://github.com/markdown-it/uc.micro.git>
universalify@0.1.2

URL: [git+https://github.com/RyanZim/universalify.git](https://github.com/RyanZim/universalify.git)
VendorName: Ryan Zimmerman
VendorUrl: <https://github.com/RyanZim/universalify#readme>
util-deprecate@1.0.2

URL: [git://github.com/TooTallNate/util-deprecate.git](https://github.com/TooTallNate/util-deprecate.git)
VendorName: Nathan Rajlich
VendorUrl: <https://github.com/TooTallNate/util-deprecate>
winston-transport@4.3.0

URL: [git@github.com:winstonjs/winston-transport.git](https://github.com/winstonjs/winston-transport.git)
VendorName: Charlie Robbins
VendorUrl: <https://github.com/winstonjs/winston-transport#readme>
winston@3.2.1

URL: <https://github.com/winstonjs/winston.git>

VendorName: Charlie Robbins

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ASM: a very small and fast Java bytecode manipulation framework

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hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/datanode/checker/AbstractFuture.java
hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/datanode/checker/TimeoutFuture.java

com.aliyun:aliyun-java-sdk-core:3.4.0
com.aliyun:aliyun-java-sdk-ecs:4.2.0
com.aliyun:aliyun-java-sdk-ram:3.0.0
com.aliyun:aliyun-java-sdk-sts:3.0.0
com.aliyun.oss:aliyun-sdk-oss:3.4.1
com.amazonaws:aws-java-sdk-bundle:1.11.901
com.cedarsoftware:java-util:1.9.0
com.cedarsoftware:json-io:2.5.1
com.fasterxml.jackson.core:jackson-annotations:2.10.5
com.fasterxml.jackson.core:jackson-core:2.10.5
com.fasterxml.jackson.core:jackson-databind:2.10.5.1
com.fasterxml.jackson.jaxrs:jackson-jaxrs-base:2.10.5
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com.fasterxml.jackson.module:jackson-module-jaxb-annotations:2.10.5
com.fasterxml.uuid:java-uuid-generator:3.1.4
com.fasterxml.woodstox:woodstox-core:5.3.0
com.github.davidmoten:rxjava-extras:0.8.0.17
com.github.stephenc.jcip:jcip-annotations:1.0-1
com.google:guice:4.0
com.google:guice-servlet:4.0
com.google.android:annotations:jar:4.1.1.4
com.google.api.grpc:proto-google-common-protos:1.12.0
com.google.code.findbugs:jsr305:3.0.2
com.google.code.gson:gson:2.2.4
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com.microsoft.azure:azure-storage:7.0.1
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com.yammer.metrics:metrics-core:2.2.0
com.zaxxer:HikariCP-java7:2.4.12
commons-beanutils:commons-beanutils:1.9.4
commons-cli:commons-cli:1.2
commons-codec:commons-codec:1.11
commons-collections:commons-collections:3.2.2
commons-daemon:commons-daemon:1.0.13
commons-io:commons-io:2.8.0
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commons-logging:commons-logging:1.1.3
commons-net:commons-net:3.6
de.ruedigermoeller:fst:2.50
io.dropwizard.metrics:metrics-core:3.2.4
io.grpc:grpc-api:1.26.0
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io.grpc:grpc-stub:1.26.0
io.netty:netty:3.10.6.Final
io.netty:netty-all:4.1.61.Final
io.opencensus:opencensus-api:0.24.0
io.opencensus:opencensus-contrib-grpc-metrics:0.24.0
io.perfmark:perfmark-api:0.19.0
io.reactivex:rxjava:1.3.8
io.reactivex:rxjava-string:1.1.1
io.reactivex:rxnetty:0.4.20
io.swagger:swagger-annotations:1.5.4
javax.inject:javax.inject:1
log4j:log4j:1.2.17
net.java.dev.jna:jna:5.2.0
net.minidev:accessors-smart:2.4.2
net.minidev:json-smart:2.4.2
org.apache.avro:avro:1.7.7
org.apache.commons:commons-collections4:4.2
org.apache.commons:commons-compress:1.19
org.apache.commons:commons-configuration2:2.1.1
org.apache.commons:commons-csv:1.0
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org.apache.commons:commons-text:1.4
org.apache.commons:commons-validator:1.6
org.apache.curator:curator-client:4.2.0
org.apache.curator:curator-framework:4.2.0
org.apache.curator:curator-recipes:4.2.0
org.apache.geronimo.specs:geronimo-jcache_1.0_spec:1.0-alpha-1
org.apache.hbase:hbase-annotations:1.4.8
org.apache.hbase:hbase-client:1.4.8
org.apache.hbase:hbase-common:1.4.8
org.apache.hbase:hbase-protocol:1.4.8
org.apache.htrace:htrace-core:3.1.0-incubating
org.apache.htrace:htrace-core4:4.1.0-incubating
org.apache.httpcomponents:httpClient:4.5.13
org.apache.httpcomponents:httpcore:4.4.13
org.apache.kafka:kafka-clients:2.4.0
org.apache.kerby:kerb-admin:1.0.1
org.apache.kerby:kerb-client:1.0.1
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org.apache.kerby:token-provider:1.0.1
org.apache.yetus:audience-annotations:0.5.0
org.apache.zookeeper:zookeeper:3.5.6
org.apache.zookeeper:zookeeper-jute:3.5.6
org.codehaus.jackson:jackson-core-asl:1.9.13
org.codehaus.jackson:jackson-jaxrs:1.9.13
org.codehaus.jackson:jackson-mapper-asl:1.9.13
org.codehaus.jackson:jackson-xc:1.9.13
org.codehaus.jettison:jettison:1.1
org.eclipse.jetty:jetty-annotations:9.4.40.v20210413
org.eclipse.jetty:jetty-client:9.4.40.v20210413
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org.eclipse.jetty:jetty-webapp:9.4.40.v20210413
org.eclipse.jetty:jetty-xml:9.4.40.v20210413
org.eclipse.jetty.websocket:javax-websocket-client-impl:9.4.40.v20210413
org.eclipse.jetty.websocket:javax-websocket-server-impl:9.4.40.v20210413
org.eclipse.jetty.websocket:websocket-api:9.4.40.v20210413
org.eclipse.jetty.websocket:websocket-client:9.4.40.v20210413
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org.eclipse.jetty.websocket:websocket-server:9.4.40.v20210413
org.eclipse.jetty.websocket:websocket-servlet:9.4.40.v20210413
org.ehcache:ehcache:3.3.1
org.lz4:lz4-java:1.7.1
org.objenesis:objenesis:2.6
org.xerial.snappy:snappy-java:1.1.8.2
org.yaml:snakeyaml:1.26
org.wildfly.openssl:wildfly-openssl:1.0.7.Final

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hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-client-nativetask/src/main/native/lz4/lz4.{c|h}
hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/native/container-executor/impl/compat/{fstata|openat|unlinkat}.h

com.github.luben:zstd-jni:1.4.3-1
dnsjava:dnsjava:2.1.7
org.codehaus.woodstox:stax2-api:4.2.1

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hadoop-common-project/hadoop-common/src/main/java/org/apache/hadoop/util/bloom/*
hadoop-common-project/hadoop-common/src/main/native/gtest/gtest-all.cc
hadoop-common-project/hadoop-common/src/main/native/gtest/include/gtest/gtest.h
hadoop-common-project/hadoop-common/src/main/native/src/org/apache/hadoop/util/bulk_crc32_x86.c
hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/libhdfspp/third_party/protobuf/cpp_helpers.h
hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/libhdfspp/third_party/gmock-1.7.0/*/*.{cc|h}

hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/d3.v3.js
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/d3-v4.1.1.min.js
leveldb v1.13

com.google.protobuf:protobuf-java:2.5.0
com.google.protobuf:protobuf-java:3.6.1
com.google.protobuf:protobuf-java:3.7.1
com.google.re2j:re2j:1.1
com.jcraft:jsch:0.1.55
com.thoughtworks.paranamer:paranamer:2.3
jakarta.activation:jakarta.activation-api:1.2.1
org.fusesource.leveldbjni:leveldbjni-all:1.8
org.jline:jline:3.9.0
org.hamcrest:hamcrest-core:1.3
org.ow2.asm:asm:5.0.4
org.ow2.asm:asm-analysis:9.0
org.ow2.asm:asm-commons:9.0
org.ow2.asm:asm-tree:9.0

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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/bootstrap-3.4.1
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dataTables.bootstrap.css
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hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/dt-1.10.18/*
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/jquery
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/jt/jquery.jstree.js
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/resources/TERMINAL

uriparser2 (hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/libhdfspp/third_party/uriparser2)

com.microsoft.azure:azure-cosmosdb:2.4.5
com.microsoft.azure:azure-cosmosdb-commons:2.4.5
com.microsoft.azure:azure-cosmosdb-direct:2.4.5

com.microsoft.azure:azure-cosmosdb-gateway:2.4.5
com.microsoft.azure:azure-data-lake-store-sdk:2.3.9
com.microsoft.azure:azure-keyvault-core:1.0.0
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org.checkerframework:checker-qual:2.5.2
org.checkerframework:checker-qual:3.8.0
org.codehaus.mojo:animal-sniffer-annotations:1.17
org.jruby.jcodings:jcodings:1.0.13
org.jruby.joni:joni:2.1.2
org.ojalgo:ojalgo:43.0
org.slf4j:jul-to-slf4j:1.7.30
org.slf4j:slf4j-api:1.7.30
org.slf4j:slf4j-log4j12:1.7.30

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com.sun.jersey:jersey-client:1.19
com.sun.jersey:jersey-core:1.19
com.sun.jersey:jersey-guice:1.19
com.sun.jersey:jersey-json:1.19
com.sun.jersey:jersey-server:1.19
com.sun.jersey:jersey-servlet:1.19
com.sun.xml.bind:jaxb-impl:2.2.3-1
javax.annotation:javax.annotation-api:1.3.2
javax.servlet:javax.servlet-api:3.1.0
javax.servlet.jsp:jsp-api:2.1
javax.websocket:javax.websocket-api:1.0
javax.websocket:javax.websocket-client-api:1.0
javax.ws.rs:jsr311-api:1.1.1
javax.xml.bind:jaxb-api:2.2.11

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junit:junit:4.13.1

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jakarta.xml.bind:jakarta.xml.bind-api:2.3.2

HSQL License

org.hsqldb:hsqldb:2.3.4

JDOM License

org.jdom:jdom:1.1

Boost Software License, Version 1.0

asio-1.10.2 (hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/libhdfspp/third_party/asio-1.10.2)
rapidxml-1.13 (hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/libhdfspp/third_party/rapidxml-1.13)
tr2 (hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/libhdfspp/third_party/tr2)

Public Domain

hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/json-bignum.js

aopalliance:aopalliance:1.0

See LICENSE-binary-yarn-ui for yarn-managed packages at hadoop-yarn-project/hadoop-yarn/hadoop-yarn-ui/src/main/webapp

See LICENSE-binary-hadoop-yarn-applications-catalog-webapp for yarn-managed packages at hadoop-yarn-project/hadoop-yarn/hadoop-yarn-applications/hadoop-yarn-applications-catalog/hadoop-yarn-applications-catalog-webapp/yarn.lock

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1.664 c3p0jdbcdatasources 0.9.1.1

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Version 3, 29 June 2007

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1.665 jetty-websocket-client 9.4.40.v20210413

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Full name: Jan Bartel

E-Mail: `janb@eclipse.com`

Mailing Address: 62 Church St Balmain NSW 2041 Australia

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Full name: Jesse C. McConnell

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=ufUh

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- * org.eclipse.jetty.orbit:javafx.mail.glassfish

The following dependencies are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

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- * javax.annotation:javax.annotation-api
- * javax.transaction:javax.transaction-api
- * javax.websocket:javax.websocket-api

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<http://openjdk.java.net/legal/gplv2+ce.html>

- * java.sun.security.ssl

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- * org.ow2.asm:asm-commons
- * org.ow2.asm:asm

The following dependencies are ASL2 licensed.

- * org.apache.taglibs:taglibs-standard-spec
- * org.apache.taglibs:taglibs-standard-impl

The following dependencies are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

- * org.mortbay.jasper:apache-jsp
- * org.apache.tomcat:tomcat-jasper
- * org.apache.tomcat:tomcat-juli
- * org.apache.tomcat:tomcat-jsp-api
- * org.apache.tomcat:tomcat-el-api
- * org.apache.tomcat:tomcat-jasper-el
- * org.apache.tomcat:tomcat-api
- * org.apache.tomcat:tomcat-util-scan
- * org.apache.tomcat:tomcat-util
- * org.mortbay.jasper:apache-el
- * org.apache.tomcat:tomcat-jasper-el
- * org.apache.tomcat:tomcat-el-api

The following artifacts are CDDL + GPLv2 with classpath exception.
<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

- * org.eclipse.jetty.toolchain:jetty-schemas

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Eclipse

The following artifacts are EPL.
* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javafx.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javafx.mail.glassfish

Oracle

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN

module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

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The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

org.ow2.asm:asm-commons

org.ow2.asm:asm

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec

org.apache.taglibs:taglibs-standard-impl

MortBay

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org.apache.tomcat:tomcat-jasper

org.apache.tomcat:tomcat-juli

org.apache.tomcat:tomcat-jsp-api

org.apache.tomcat:tomcat-el-api

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan

org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-el-api

Mortbay

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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RUIoI0BYmYpaETSqxt2oLFU=
=Tr57

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iD8DBQFE85cg9Frj/CiRIRAmuJAKCFgi4W0UOH8IU+SV6PBHRF3BnLgCcDqqC

Zokttk0bTHfwaa5TxQbScw=

=N/w/

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iD8DBQFFoniQJVhlFus9dGQRAmJmAJwL5y1loonhVQIICsparvjHMQuwqwCgiZFy
LBDVaad1bJ1v1EHY901kPcg=
=6rqm

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iQEcBAEBAGAGBQJQBb4tAAoJEMHhjBmtgF91HDcH/2nQDPuPztWFrBifnEoLF6Jl
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Date: January 30th 2006

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Version: GnuPG v1.4.1 (Darwin)

iD8DBQFD37/4dL6IZr4c+6kRAtsIAJ41tfd3lj4OM6sIMfJfTOdYdT1bxwCdGgWv
8sfMxEDZquIqhVbfZU2c76U=
=8WW7

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Full name: Nicanor Gonzalez

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Mailing Address: 37 TwinHill St., New Manila Rolling Hills, Q.C., Philippines

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Version: GnuPG v1.4.4 (MingW32)

iD8DBQFEt1ZxHR/ESK2w6H8RApbOAJ9c1eooNr2oN59WZVitJExGJjUvKgCfaKji
6etDJ6AUj0jTuS159hUsWMQ=
=HmqH

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Corporation name: Simula Labs, Inc.

Mailing Address: 4676 Admiralty Way, Suite 520
Marina Del Rey, CA 90292

Point of Contact:

Full name: Gordon King

E-Mail: gordon.king@simulalabs.com

Fax: +1 800 822 0471

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Date:

Signature:

Name: Gordon King

Positions: Chief Operational Officer

Schedule A

Name	Date added
Simone Bordet	12 September 2006
_____	_____
_____	_____

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iD8DBQFEEbh9SoT4b97cQk4RAnCMAKCuNGYLHa6n/Ot3GEdwCCLeQxsMPACdEhnE
I/stizRWWZZkeLbcglzdQCE=

=piHm

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Full name: David Jencks

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1.666 nodeca-pako 1.0.6

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1.667 string-extended 0.0.8

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1.668 mkdirp 0.5.1

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1.669 d3js v5.16.0

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1.670 byte-buddy 1.8.12

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Found in path(s):

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* /opt/cola/permits/1237463175_1638811314.65/0/byte-buddy-1-8-12-sources-
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* /opt/cola/permits/1237463175_1638811314.65/0/byte-buddy-1-8-12-sources-
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* /opt/cola/permits/1237463175_1638811314.65/0/byte-buddy-1-8-12-sources-
jar/net/bytebuddy/jar/asm/Frame.java
* /opt/cola/permits/1237463175_1638811314.65/0/byte-buddy-1-8-12-sources-
jar/net/bytebuddy/jar/asm/MethodVisitor.java
* /opt/cola/permits/1237463175_1638811314.65/0/byte-buddy-1-8-12-sources-
```

jar/net/bytebuddy/jar/asm/signature/SignatureReader.java
* /opt/cola/permits/1237463175_1638811314.65/0/byte-buddy-1-8-12-sources-
jar/net/bytebuddy/jar/asm/TypePath.java
* /opt/cola/permits/1237463175_1638811314.65/0/byte-buddy-1-8-12-sources-
jar/net/bytebuddy/jar/asm/Symbol.java
* /opt/cola/permits/1237463175_1638811314.65/0/byte-buddy-1-8-12-sources-
jar/net/bytebuddy/jar/asm/Attribute.java
* /opt/cola/permits/1237463175_1638811314.65/0/byte-buddy-1-8-12-sources-
jar/net/bytebuddy/jar/asm/Handle.java
* /opt/cola/permits/1237463175_1638811314.65/0/byte-buddy-1-8-12-sources-
jar/net/bytebuddy/jar/asm/ModuleVisitor.java
* /opt/cola/permits/1237463175_1638811314.65/0/byte-buddy-1-8-12-sources-jar/net/bytebuddy/jar/asm/Label.java
* /opt/cola/permits/1237463175_1638811314.65/0/byte-buddy-1-8-12-sources-
jar/net/bytebuddy/jar/asm/ClassVisitor.java
* /opt/cola/permits/1237463175_1638811314.65/0/byte-buddy-1-8-12-sources-
jar/net/bytebuddy/jar/asm/AnnotationVisitor.java
* /opt/cola/permits/1237463175_1638811314.65/0/byte-buddy-1-8-12-sources-jar/net/bytebuddy/jar/asm/Edge.java
* /opt/cola/permits/1237463175_1638811314.65/0/byte-buddy-1-8-12-sources-jar/net/bytebuddy/jar/asm/Type.java
* /opt/cola/permits/1237463175_1638811314.65/0/byte-buddy-1-8-12-sources-
jar/net/bytebuddy/jar/asm/SymbolTable.java

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* /opt/cola/permits/1237463175_1638811314.65/0/byte-buddy-1-8-12-sources-jar/net/bytebuddy/jar/asm/package.html
* /opt/cola/permits/1237463175_1638811314.65/0/byte-buddy-1-8-12-sources-jar/net/bytebuddy/jar/asm/signature/package.html

1.671 kerby-kerb-crypto 1.0.1

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Streaming API for XML (JSR-173) Specification

Reference Implementation

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1.675 d3-brush 1.0.4

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1.676 archiver-utils 2.1.0

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1.677 jmes-path-query-library 1.11.555

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1.678 token-provider 1.0.1

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1.679 netty-transport-native-unix-common

4.1.42.Final

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```
* /opt/ws_local/PERMITS_SQL/1014221953_1591377161.59/0/netty-transport-native-unix-common-4-1-42-final-sources-jar/io/netty/channel/unix/IovArray.java
* /opt/ws_local/PERMITS_SQL/1014221953_1591377161.59/0/netty-transport-native-unix-common-4-1-42-final-sources-jar/io/netty/channel/unix/UnixChannelOption.java
* /opt/ws_local/PERMITS_SQL/1014221953_1591377161.59/0/netty-transport-native-unix-common-4-1-42-final-sources-jar/io/netty/channel/unix/package-info.java
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* /opt/ws_local/PERMITS_SQL/1014221953_1591377161.59/0/netty-transport-native-unix-common-4-1-42-final-sources-jar/META-INF/maven/io.netty/netty-transport-native-unix-common/pom.xml

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* /opt/ws_local/PERMITS_SQL/1014221953_1591377161.59/0/netty-transport-native-unix-common-4-1-42-final-sources-jar/netty_unix_limits.h

* /opt/ws_local/PERMITS_SQL/1014221953_1591377161.59/0/netty-transport-native-unix-common-4-1-42-final-sources-jar/netty_unix_limits.c

* /opt/ws_local/PERMITS_SQL/1014221953_1591377161.59/0/netty-transport-native-unix-common-4-1-42-final-sources-jar/io/netty/channel/unix/SocketWritableByteChannel.java

* /opt/ws_local/PERMITS_SQL/1014221953_1591377161.59/0/netty-transport-native-unix-common-4-1-42-final-sources-jar/io/netty/channel/unix/LimitsStaticallyReferencedJniMethods.java

* /opt/ws_local/PERMITS_SQL/1014221953_1591377161.59/0/netty-transport-native-unix-common-4-1-42-final-sources-jar/netty_unix_util.c

* /opt/ws_local/PERMITS_SQL/1014221953_1591377161.59/0/netty-transport-native-unix-common-4-1-42-final-sources-jar/io/netty/channel/unix/ErrorsStaticallyReferencedJniMethods.java

* /opt/ws_local/PERMITS_SQL/1014221953_1591377161.59/0/netty-transport-native-unix-common-4-1-42-final-sources-jar/netty_unix_util.h

* /opt/ws_local/PERMITS_SQL/1014221953_1591377161.59/0/netty-transport-native-unix-common-4-1-42-final-sources-jar/io/netty/channel/unix/PeerCredentials.java

* /opt/ws_local/PERMITS_SQL/1014221953_1591377161.59/0/netty-transport-native-unix-common-4-1-42-final-sources-jar/io/netty/channel/unix/Limits.java

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* /opt/ws_local/PERMITS_SQL/1014221953_1591377161.59/0/netty-transport-native-unix-common-4-1-42-final-sources-jar/netty_unix_jni.h

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* /opt/ws_local/PERMITS_SQL/1014221953_1591377161.59/0/netty-transport-native-unix-common-4-1-42-final-sources-jar/io/netty/channel/unix/UnixChannel.java
* /opt/ws_local/PERMITS_SQL/1014221953_1591377161.59/0/netty-transport-native-unix-common-4-1-42-final-sources-jar/io/netty/channel/unix/ServerDomainSocketChannel.java
* /opt/ws_local/PERMITS_SQL/1014221953_1591377161.59/0/netty-transport-native-unix-common-4-1-42-final-sources-jar/netty_unix_errors.c
* /opt/ws_local/PERMITS_SQL/1014221953_1591377161.59/0/netty-transport-native-unix-common-4-1-42-final-sources-jar/io/netty/channel/unix/Errors.java
* /opt/ws_local/PERMITS_SQL/1014221953_1591377161.59/0/netty-transport-native-unix-common-4-1-42-final-sources-jar/netty_unix_filedescriptor.h
* /opt/ws_local/PERMITS_SQL/1014221953_1591377161.59/0/netty-transport-native-unix-common-4-1-42-final-

sources-jar/io/netty/channel/unix/Socket.java
* /opt/ws_local/PERMITS_SQL/1014221953_1591377161.59/0/netty-transport-native-unix-common-4-1-42-final-sources-jar/netty_unix_errors.h
* /opt/ws_local/PERMITS_SQL/1014221953_1591377161.59/0/netty-transport-native-unix-common-4-1-42-final-sources-jar/io/netty/channel/unix/DatagramSocketAddress.java
* /opt/ws_local/PERMITS_SQL/1014221953_1591377161.59/0/netty-transport-native-unix-common-4-1-42-final-sources-jar/netty_unix_socket.c
* /opt/ws_local/PERMITS_SQL/1014221953_1591377161.59/0/netty-transport-native-unix-common-4-1-42-final-sources-jar/io/netty/channel/unix/DomainSocketChannel.java
* /opt/ws_local/PERMITS_SQL/1014221953_1591377161.59/0/netty-transport-native-unix-common-4-1-42-final-sources-jar/io/netty/channel/unix/DomainSocketReadMode.java
* /opt/ws_local/PERMITS_SQL/1014221953_1591377161.59/0/netty-transport-native-unix-common-4-1-42-final-sources-jar/io/netty/channel/unix/NativeInetAddress.java
* /opt/ws_local/PERMITS_SQL/1014221953_1591377161.59/0/netty-transport-native-unix-common-4-1-42-final-sources-jar/io/netty/channel/unix/FileDescriptor.java
* /opt/ws_local/PERMITS_SQL/1014221953_1591377161.59/0/netty-transport-native-unix-common-4-1-42-final-sources-jar/netty_unix_socket.h
* /opt/ws_local/PERMITS_SQL/1014221953_1591377161.59/0/netty-transport-native-unix-common-4-1-42-final-sources-jar/io/netty/channel/unix/DomainSocketAddress.java
* /opt/ws_local/PERMITS_SQL/1014221953_1591377161.59/0/netty-transport-native-unix-common-4-1-42-final-sources-jar/io/netty/channel/unix/DomainSocketChannelConfig.java
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* /opt/ws_local/PERMITS_SQL/1014221953_1591377161.59/0/netty-transport-native-unix-common-4-1-42-final-sources-jar/netty_unix_buffer.h
* /opt/ws_local/PERMITS_SQL/1014221953_1591377161.59/0/netty-transport-native-unix-common-4-1-42-final-sources-jar/netty_unix_buffer.c
* /opt/ws_local/PERMITS_SQL/1014221953_1591377161.59/0/netty-transport-native-unix-common-4-1-42-final-sources-jar/io/netty/channel/unix/Buffer.java

1.680 jetty-java-based-http-1-x-http-2-servlet-websocket-server 9.4.40.v20210413

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* org.eclipse.jetty.orbit:javafx.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javafx.mail.glassfish

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN

module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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The following dependencies are EPL and ASL2.

- * org.eclipse.jetty.orbit:javax.security.auth.message

The following dependencies are EPL and CDDL 1.0.

- * org.eclipse.jetty.orbit:javax.mail.glassfish

The following dependencies are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

- * javax.servlet:javax.servlet-api
- * javax.annotation:javax.annotation-api
- * javax.transaction:javax.transaction-api
- * javax.websocket:javax.websocket-api

If ALPN is used to negotiate HTTP/2 connections, then the following distribution may be included in the distribution or downloaded when ALPN module is selected. These artifacts replace/modify OpenJDK classes.

The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

- * java.sun.security.ssl

The following dependencies are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

- * org.ow2.asm:asm-commons
- * org.ow2.asm:asm

The following dependencies are ASL2 licensed.

- * org.apache.taglibs:taglibs-standard-spec
- * org.apache.taglibs:taglibs-standard-impl

The following dependencies are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

- * org.mortbay.jasper:apache-jsp
- * org.apache.tomcat:tomcat-jasper
- * org.apache.tomcat:tomcat-juli
- * org.apache.tomcat:tomcat-jsp-api
- * org.apache.tomcat:tomcat-el-api
- * org.apache.tomcat:tomcat-jasper-el
- * org.apache.tomcat:tomcat-api

- * org.apache.tomcat:tomcat-util-scan
- * org.apache.tomcat:tomcat-util
- * org.mortbay.jasper:apache-el
- * org.apache.tomcat:tomcat-jasper-el
- * org.apache.tomcat:tomcat-el-api

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- * org.eclipse.jetty.toolchain:jetty-schemas

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The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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iD8DBQFE85cgaq9Frj/CIrIRAmuJAKCFgi4W0UOH8IU+SV6PBHRF3BnLgCcDqqC
Zokttk0bTHfwaa5TtxQbScw=
=N/w/

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```
iQEcBAEBAGAGBQJQBb4tAAoJEMHhJBmtgF91HDcH/2nQDPuPztWFrBifnEoLF6Jl
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=gAqN
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iD8DBQFFoniQJVhlFus9dGQRAmJmAJwL5y1loohVQIICsparvjHMQuwqwCgiZFy

LBDVaad1bJ1v1EHY901kPcg=

=6rqm

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Date: January 30th 2006

Please sign: GPG

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Version: GnuPG v1.4.1 (Darwin)

iD8DBQFD37/4dL6IZr4c+6kRAtsIAJ41tfd3lj4OM6sIMfJfTOdYdT1bxwCdGgWv
8sfMxEDZquIqhVbfZU2c76U=
=8WW7

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Hash: SHA1

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Full name: Nicanor Gonzalez

E-Mail: ngonzalez@exist.com

Mailing Address: 37 TwinHill St., New Manila Rolling Hills, Q.C., Philippines

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Date: July 14, 2006

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Version: GnuPG v1.4.4 (MingW32)

```
iD8DBQFet1ZxHR/ESK2w6H8RApbOAJ9c1eooNr2oN59WZVitJExGJjUvKgCfaKji
6etDJ6AUj0jTuS159hUsWMQ=
=HmqH
```

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Corporation name: Simula Labs, Inc.

Mailing Address: 4676 Admiralty Way, Suite 520
Marina Del Rey, CA 90292

Point of Contact:

Full name: Gordon King

E-Mail: gordon.king@simulalabs.com

Fax: +1 800 822 0471

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Date:

Signature:

Name: Gordon King

Positions: Chief Operational Officer

Schedule A

Name	Date added
Simone Bordet	12 September 2006
_____	_____
_____	_____

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Full name: David Jencks

E-Mail: david_jencks@yahoo.com

Mailing Address: 2215 SE 39th Ave, Portland OR 97214 USA

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Date: 27 June 2008

Please sign: David Jencks

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Version: GnuPG v1.4.7 (Darwin)

iD8DBQFIZT2ToF6+5Ibz4BsRAs3wAJ9puXC26Nr8nhFvTZ9oNwxDFV/DVACgnC8O
VFUWPZrfLOJesKa0/rYNJIM=
=jC7I

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Full name: Julian Anthony Fox Gosnell

E-Mail: jules@coredevelopers.net

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iD8DBQFEebh9SoT4b97cQk4RAnCMAKCuNGYLHa6n/Ot3GEdwCCLeQxsMPACdEhnE
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1.683 apache-log4j 1.2.17

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1.684 node-buffers 0.1.1

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1.685 log4j-api 2.11.1

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sha@2.0.1

URL: <https://github.com/ForbesLindesay/sha.git>

(LGPL-2.0 or MIT)

xmlDOM@0.1.31

URL: [git://github.com/xmlDOM/xmlDOM.git](https://github.com/xmlDOM/xmlDOM.git)

VendorName: jindw

VendorUrl: <https://github.com/xmlDOM/xmlDOM>

(MIT AND JSON)

jshint@2.10.3

URL: <https://github.com/jshint/jshint.git>

VendorName: Anton Kovalyov

VendorUrl: <http://jshint.com/>

(MIT OR Apache-2.0)

ember-test-helpers@0.5.34

URL: <https://github.com/switchfly/ember-test-helpers.git>

(WTFPL OR MIT)

opener@1.4.3

URL: <https://github.com/domenic/opener.git>

VendorName: Domenic Denicola

VendorUrl: <https://domenic.me/>

path-is-inside@1.0.2

URL: <https://github.com/domenic/path-is-inside.git>

VendorName: Domenic Denicola

VendorUrl: <https://domenic.me>

Apache-2.0

aws-sign2@0.6.0

URL: <https://github.com/mikeal/aws-sign>

VendorName: Mikeal Rogers

VendorUrl: <http://www.futurealooof.com>

aws-sign2@0.7.0

URL: <https://github.com/mikeal/aws-sign>

VendorName: Mikeal Rogers

VendorUrl: <http://www.futurealooof.com>

bser@2.1.1

URL: <https://github.com/facebook/watchman>

VendorName: Wez Furlong

VendorUrl: <https://facebook.github.io/watchman/docs/bser.html>

caseless@0.11.0

URL: <https://github.com/mikeal/caseless>

VendorName: Mikeal Rogers

caseless@0.12.0

URL: <https://github.com/mikeal/caseless>

VendorName: Mikeal Rogers

fb-watchman@2.0.1

URL: [git@github.com:facebook/watchman.git](https://github.com/facebook/watchman.git)

VendorName: Wez Furlong

VendorUrl: <https://facebook.github.io/watchman/>

forever-agent@0.6.1

URL: <https://github.com/mikeal/forever-agent>

VendorName: Mikeal Rogers

VendorUrl: <http://www.futurealooof.com>

kew@0.7.0
URL: <https://github.com/Medium/kew.git>
VendorUrl: <https://github.com/Medium/kew>

less@2.7.3
URL: <https://github.com/less/less.js.git>
VendorName: Alexis Sellier
VendorUrl: <http://lesscss.org/>

oauth-sign@0.8.2
URL: <https://github.com/mikeal/oauth-sign>
VendorName: Mikeal Rogers
VendorUrl: <http://www.futurealooof.com>

oauth-sign@0.9.0
URL: <https://github.com/mikeal/oauth-sign>
VendorName: Mikeal Rogers
VendorUrl: <http://www.futurealooof.com>

phantomjs-prebuilt@2.1.13
URL: <git://github.com/Medium/phantomjs.git>
VendorName: Dan Papius
VendorUrl: <https://github.com/Medium/phantomjs>

request@2.65.0
URL: <https://github.com/request/request.git>
VendorName: Mikeal Rogers

request@2.74.0
URL: <https://github.com/request/request.git>
VendorName: Mikeal Rogers

request@2.81.0
URL: <https://github.com/request/request.git>
VendorName: Mikeal Rogers

request@2.88.0
URL: <https://github.com/request/request.git>
VendorName: Mikeal Rogers

spdx-correct@3.1.0
URL: <https://github.com/jslicense/spdx-correct.js.git>
VendorName: Kyle E. Mitchell
VendorUrl: <https://kemitchell.com>

spdx@0.4.3
URL: <https://github.com/kemitchell/spdx.js.git>
VendorName: Kyle E. Mitchell
VendorUrl: <https://github.com/kemitchell/spdx.js>

true-case-path@1.0.3
URL: <git+https://github.com/barsh/true-case-path.git>
VendorName: barsh
VendorUrl: <https://github.com/barsh/true-case-path#readme>

tunnel-agent@0.4.3
URL: <https://github.com/mikeal/tunnel-agent>
VendorName: Mikeal Rogers
VendorUrl: <http://www.futurealooof.com>

tunnel-agent@0.6.0

URL: <https://github.com/mikeal/tunnel-agent>
VendorName: Mikeal Rogers
VendorUrl: <http://www.futurealooof.com>
validate-npm-package-license@3.0.4
URL: <https://github.com/kemitchell/validate-npm-package-license.js.git>
VendorName: Kyle E. Mitchell
VendorUrl: <https://kemitchell.com>
walker@1.0.7
URL: <https://github.com/daaku/nodejs-walker>
VendorName: Naitik Shah
VendorUrl: <https://github.com/daaku/nodejs-walker>
websocket-driver@0.7.3
URL: <git://github.com/faye/websocket-driver-node.git>
VendorName: James Coglan
VendorUrl: <https://github.com/faye/websocket-driver-node>
workerpool@2.3.3
URL: <git://github.com/josdejong/workerpool.git>
VendorName: Jos de Jong
VendorUrl: <https://github.com/josdejong/workerpool>
Apache*
watch@0.10.0
URL: <git://github.com/mikeal/watch.git>
VendorName: Mikeal Rogers
VendorUrl: <https://github.com/mikeal/watch>
Artistic-2.0
npm@2.14.10
URL: <https://github.com/npm/npm>
VendorName: Isaac Z. Schlueter
VendorUrl: <https://docs.npmjs.com/>
BSD
graceful-fs@2.0.3
URL: <git://github.com/isaacs/node-graceful-fs.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me>
mute-stream@0.0.4
URL: <git://github.com/isaacs/mute-stream>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>
osenv@0.0.3
URL: <git://github.com/isaacs/osenv>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>
tar@1.0.3
URL: <git://github.com/isaacs/node-tar.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>
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cmd-shim@2.0.2

URL: <https://github.com/ForbesLindesay/cmd-shim.git>
configstore@1.2.1
URL: <https://github.com/yeoman/configstore.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
domelementtype@1.3.1
URL: <git://github.com/fb55/domelementtype.git>
VendorName: Felix Boehm
domelementtype@2.0.1
URL: <git://github.com/fb55/domelementtype.git>
VendorName: Felix Boehm
domhandler@2.3.0
URL: <git://github.com/fb55/DomHandler.git>
VendorName: Felix Boehm
domutils@1.5.1
URL: <git://github.com/FB55/domutils.git>
VendorName: Felix Boehm
entities@1.0.0
URL: <git://github.com/fb55/node-entities.git>
VendorName: Felix Boehm
entities@1.1.2
URL: <git://github.com/fb55/entities.git>
VendorName: Felix Boehm
entities@2.0.0
URL: <git://github.com/fb55/entities.git>
VendorName: Felix Boehm
esprima@2.7.3
URL: <https://github.com/jquery/esprima.git>
VendorName: Ariya Hidayat
VendorUrl: <http://esprima.org/>
esprima@3.1.3
URL: <https://github.com/jquery/esprima.git>
VendorName: Ariya Hidayat
VendorUrl: <http://esprima.org/>
esprima@4.0.1
URL: <https://github.com/jquery/esprima.git>
VendorName: Ariya Hidayat
VendorUrl: <http://esprima.org/>
esutils@2.0.3
URL: <http://github.com/estools/esutils.git>
VendorUrl: <https://github.com/estools/esutils>
extract-zip@1.5.0
URL: <git+ssh://git@github.com/maxogden/extract-zip.git>
VendorName: max ogden
VendorUrl: <https://github.com/maxogden/extract-zip>
github-url-from-username-repo@1.0.2
URL: <git@github.com:robertkowalski/github-url-from-username-repo.git>
VendorName: Robert Kowalski

normalize-package-data@2.3.8
URL: [git://github.com/npm/normalize-package-data.git](https://github.com/npm/normalize-package-data.git)
VendorName: Meryn Stol

normalize-package-data@2.5.0
URL: [git://github.com/npm/normalize-package-data.git](https://github.com/npm/normalize-package-data.git)
VendorName: Meryn Stol

npm-install-checks@1.0.7
URL: [git://github.com/npm/npm-install-checks.git](https://github.com/npm/npm-install-checks.git)
VendorName: Robert Kowalski
VendorUrl: <https://github.com/npm/npm-install-checks>

npm-user-validate@0.1.5
URL: [git://github.com/npm/npm-user-validate.git](https://github.com/npm/npm-user-validate.git)
VendorName: Robert Kowalski

regenerator@0.8.40
URL: [git://github.com/facebook/regenerator.git](https://github.com/facebook/regenerator.git)
VendorName: Ben Newman
VendorUrl: <http://github.com/facebook/regenerator>

regjsparser@0.1.5
URL: [git@github.com:jviereck/regjsparser.git](https://github.com:jviereck/regjsparser.git)
VendorName: 'Julian Viereck'
VendorUrl: <https://github.com/jviereck/regjsparser>

uglify-js@2.8.29
URL: <https://github.com/mishoo/UglifyJS2.git>
VendorName: Mihai Bazon
VendorUrl: <http://lisperator.net/uglifyjs>

uri-js@4.2.2
URL: [http://github.com/garycourt/uri-js](https://github.com/garycourt/uri-js)
VendorName: Gary Court
VendorUrl: <https://github.com/garycourt/uri-js>

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bcrypt-pbkdf@1.0.2
URL: [git://github.com/joyent/node-bcrypt-pbkdf.git](https://github.com/joyent/node-bcrypt-pbkdf.git)

boom@2.10.1
URL: [git://github.com/hapijs/boom](https://github.com/hapijs/boom)

cpr@0.4.2
URL: [http://github.com/davglass/cpr.git](https://github.com/davglass/cpr.git)
VendorName: Dav Glass

cryptiles@2.0.5
URL: [git://github.com/hapijs/cryptiles](https://github.com/hapijs/cryptiles)

hawk@3.1.3
URL: [git://github.com/hueniverse/hawk](https://github.com/hueniverse/hawk)
VendorName: Eran Hammer
VendorUrl: <http://hueniverse.com>

hoek@2.16.3
URL: [git://github.com/hapijs/hoek](https://github.com/hapijs/hoek)

js-base64@2.5.1
URL: [git://github.com/dankogai/js-base64.git](https://github.com/dankogai/js-base64.git)
VendorName: Dan Kogai

makeerror@1.0.11
URL: <https://github.com/daaku/nodejs-makeerror>
VendorName: Naitik Shah

printf@0.2.5
URL: <https://github.com/wdavidw/node-printf.git>
VendorName: David Worms
VendorUrl: <http://www.adaltas.com/projects/node-printf>

qs@5.1.0
URL: <https://github.com/hapijs/qs.git>
VendorUrl: <https://github.com/hapijs/qs>

qs@5.2.0
URL: <https://github.com/hapijs/qs.git>
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qs@5.2.1
URL: <https://github.com/hapijs/qs.git>
VendorUrl: <https://github.com/hapijs/qs>

qs@6.2.3
URL: <https://github.com/ljharb/qs.git>
VendorUrl: <https://github.com/ljharb/qs>

qs@6.4.0
URL: <https://github.com/ljharb/qs.git>
VendorUrl: <https://github.com/ljharb/qs>

qs@6.5.2
URL: <https://github.com/ljharb/qs.git>
VendorUrl: <https://github.com/ljharb/qs>

qs@6.7.0
URL: <https://github.com/ljharb/qs.git>
VendorUrl: <https://github.com/ljharb/qs>

shelljs@0.3.0
URL: <git://github.com/arturadib/shelljs.git>
VendorName: Artur Adib
VendorUrl: <http://github.com/arturadib/shelljs>

source-map@0.1.32
URL: <http://github.com/mozilla/source-map.git>
VendorName: Nick Fitzgerald
VendorUrl: <https://github.com/mozilla/source-map>

source-map@0.1.43
URL: <http://github.com/mozilla/source-map.git>
VendorName: Nick Fitzgerald
VendorUrl: <https://github.com/mozilla/source-map>

source-map@0.4.4
URL: <http://github.com/mozilla/source-map.git>
VendorName: Nick Fitzgerald
VendorUrl: <https://github.com/mozilla/source-map>

source-map@0.5.7
URL: <http://github.com/mozilla/source-map.git>
VendorName: Nick Fitzgerald
VendorUrl: <https://github.com/mozilla/source-map>

sprintf-js@1.0.3
URL: <https://github.com/alexei/sprintf.js.git>
VendorName: Alexandru Marasteanu
VendorUrl: <http://alexei.ro/>

sprintf-js@1.1.2
URL: <https://github.com/alexei/sprintf.js.git>
VendorName: Alexandru Mrteanu

tmpl@1.0.4
URL: <https://github.com/daaku/nodejs-tmpl>
VendorName: Naitik Shah
VendorUrl: <https://github.com/nshah/nodejs-tmpl>

tough-cookie@2.2.2
URL: <git://github.com/SalesforceEng/tough-cookie.git>
VendorName: Jeremy Stashewsky
VendorUrl: <https://github.com/SalesforceEng/tough-cookie>

tough-cookie@2.3.4
URL: <git://github.com/salesforce/tough-cookie.git>
VendorName: Jeremy Stashewsky
VendorUrl: <https://github.com/salesforce/tough-cookie>

tough-cookie@2.4.3
URL: <git://github.com/salesforce/tough-cookie.git>
VendorName: Jeremy Stashewsky
VendorUrl: <https://github.com/salesforce/tough-cookie>

BSD-3-Clause OR MIT

amdefine@1.0.1
URL: <https://github.com/jrburke/amdefine.git>
VendorName: James Burke
VendorUrl: <http://github.com/jrburke/amdefine>

BSD*

diff@1.4.0
URL: <git://github.com/kpdecker/jsdiff.git>

esprima-fb@12001.1.0-dev-harmony-fb
URL: <http://github.com/facebook/esprima.git>
VendorName: Ariya Hidayat
VendorUrl: <https://github.com/facebook/esprima/tree/fb-harmony>

esprima-fb@15001.1001.0-dev-harmony-fb
URL: <http://github.com/facebook/esprima.git>
VendorName: Ariya Hidayat
VendorUrl: <https://github.com/facebook/esprima/tree/fb-harmony>

json-schema@0.2.3
URL: <http://github.com/kriszyp/json-schema>
VendorName: Kris Zyp

CC-BY-3.0

spdx-exceptions@2.2.0
URL: <https://github.com/kemitchell/spdx-exceptions.json.git>
VendorName: The Linux Foundation

CC0-1.0

spdx-license-ids@3.0.5

URL: <https://github.com/shinnn/spdx-license-ids.git>
VendorName: Shinnosuke Watanabe
VendorUrl: <https://github.com/shinnn>

ISC

abbrev@1.0.9
URL: <http://github.com/isaacs/abbrev-js>
VendorName: Isaac Z. Schlueter

abbrev@1.1.1
URL: <http://github.com/isaacs/abbrev-js>
VendorName: Isaac Z. Schlueter

anymatch@1.3.2
URL: <https://github.com/es128/anymatch>
VendorName: Elan Shanker
VendorUrl: <https://github.com/es128/anymatch>

aproba@1.2.0
URL: <https://github.com/iarna/aproba>
VendorName: Rebecca Turner
VendorUrl: <https://github.com/iarna/aproba>

are-we-there-yet@1.0.6
URL: <https://github.com/iarna/are-we-there-yet.git>
VendorName: Rebecca Turner
VendorUrl: <https://github.com/iarna/are-we-there-yet>

are-we-there-yet@1.1.5
URL: <https://github.com/iarna/are-we-there-yet.git>
VendorName: Rebecca Turner
VendorUrl: <https://github.com/iarna/are-we-there-yet>

async-some@1.0.2
URL: <https://github.com/othiym23/async-some.git>
VendorName: Forrest L Norvell
VendorUrl: <https://github.com/othiym23/async-some>

block-stream@0.0.8
URL: <git://github.com/isaacs/block-stream.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

block-stream@0.0.9
URL: <git://github.com/isaacs/block-stream.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

broccoli-viz@2.0.1
URL: <https://github.com/stefanpenner/broccoli-viz.git>
VendorName: Stefan Penner
VendorUrl: <https://github.com/stefanpenner/broccoli-viz>

char-spinner@1.0.1
URL: <git://github.com/isaacs/char-spinner>
VendorName: Isaac Z. Schlueter
VendorUrl: <https://github.com/isaacs/char-spinner>

chmodr@1.0.2
URL: <git://github.com/isaacs/chmodr.git>

VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>
chownr@1.0.1
URL: <git://github.com/isaacs/chownr.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>
chownr@1.1.3
URL: <git://github.com/isaacs/chownr.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>
clean-base-url@1.0.0
URL: <git+ssh://git@github.com/stefanpenner/clean-base-url.git>
VendorName: Stefan Penner
VendorUrl: <https://github.com/stefanpenner/clean-base-url#readme>
cliui@2.1.0
URL: <http://github.com/bcoe/cliui.git>
VendorName: Ben Coe
cliui@3.2.0
URL: <http://github.com/yargs/cliui.git>
VendorName: Ben Coe
console-control-strings@1.1.0
URL: <https://github.com/iarna/console-control-strings>
VendorName: Rebecca Turner
VendorUrl: <http://re-becca.org/>
d@1.0.1
URL: <git://github.com/medikoo/d.git>
VendorName: Mariusz Nowak
VendorUrl: <http://www.medikoo.com/>
dezalgo@1.0.3
URL: <https://github.com/npm/dezalgo>
VendorName: Isaac Z. Schlueter
VendorUrl: <https://github.com/npm/dezalgo>
ember-cli-get-dependency-depth@1.0.0
URL: <git+https://github.com/ember-cli/get-dependency-depth.git>
VendorName: ember-cli Contributors
VendorUrl: <https://github.com/ember-cli/get-dependency-depth#readme>
ember-cli-is-package-missing@1.0.0
URL: <git+https://github.com/ember-cli/ember-cli.git>
VendorName: ember-cli contributors
VendorUrl: <https://github.com/ember-cli/ember-cli#readme>
ember-cli-normalize-entity-name@1.0.0
URL: <git+https://github.com/ember-cli/ember-cli.git>
VendorName: ember-cli contributors
VendorUrl: <https://github.com/ember-cli/ember-cli#readme>
ember-cli-path-utils@1.0.0
URL: <git+https://github.com/ember-cli/ember-cli-path-utils.git>
VendorName: ember-cli contributors
VendorUrl: <https://github.com/ember-cli/ember-cli-path-utils#readme>

ember-cli-preprocess-registry@1.1.0
URL: git+https://github.com/ember-cli/ember-cli-preprocessor-registry.git
VendorName: ember-cli Contributors
VendorUrl: https://github.com/ember-cli/ember-cli-preprocessor-registry#readme

ember-cli-string-utils@1.1.0
URL: git+https://github.com/ember-cli/ember-cli-string-utils.git
VendorName: ember-cli contributors
VendorUrl: https://github.com/ember-cli/ember-cli-string-utils#readme

ember-cli-test-info@1.0.0
URL: git+https://github.com/ember-cli/ember-cli-test-info.git
VendorName: ember-cli contributors
VendorUrl: https://github.com/ember-cli/ember-cli-test-info#readme

ensure-posix-path@1.1.1
URL: git+https://github.com/stefanpenner/ensure-posix-path.git
VendorName: Stefan Penner
VendorUrl: https://github.com/stefanpenner/ensure-posix-path#readme

es5-ext@0.10.53
URL: https://github.com/medikoo/es5-ext.git
VendorName: Mariusz Nowak
VendorUrl: http://www.medikoo.com/

es6-symbol@3.1.3
URL: git://github.com/medikoo/es6-symbol.git
VendorName: Mariusz Nowak
VendorUrl: http://www.medikoo.com/

events-to-array@1.1.2
URL: https://github.com/isaacs/events-to-array
VendorName: Isaac Z. Schlueter
VendorUrl: https://github.com/isaacs/events-to-array

exists-sync@0.0.3
URL: git+https://github.com/ember-cli/exists-sync.git
VendorName: Jake Bixby
VendorUrl: https://github.com/ember-cli/exists-sync#readme

exists-sync@0.0.4
URL: git+https://github.com/ember-cli/exists-sync.git
VendorName: Jake Bixby
VendorUrl: https://github.com/ember-cli/exists-sync#readme

ext@1.4.0
URL: https://github.com/medikoo/es5-ext/tree/ext
VendorName: Mariusz Nowak
VendorUrl: http://www.medikoo.com/

fast-ordered-set@1.0.3

fs-monitor-stack@1.1.1
URL: git+https://github.com/stefanpenner/fs-monitor-stack.git
VendorName: Stefan Penner
VendorUrl: https://github.com/stefanpenner/fs-monitor-stack#readme

fs-vacuum@1.2.10
URL: https://github.com/npm/fs-vacuum.git
VendorName: Forrest L Norvell

VendorUrl: <https://github.com/npm/fs-vacuum>
fs-write-stream-atomic@1.0.10
URL: <https://github.com/npm/fs-write-stream-atomic>
VendorName: Isaac Z. Schlueter
VendorUrl: <https://github.com/npm/fs-write-stream-atomic>
fs.realpath@1.0.0
URL: <git+https://github.com/isaacs/fs.realpath.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>
fstream-ignore@1.0.5
URL: <git://github.com/isaacs/fstream-ignore.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>
fstream-npm@1.0.7
URL: <https://github.com/npm/fstream-npm.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>
fstream@1.0.12
URL: <https://github.com/npm/fstream.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>
gauge@1.2.7
URL: <https://github.com/iarna/gauge>
VendorName: Rebecca Turner
VendorUrl: <https://github.com/iarna/gauge>
gauge@2.7.4
URL: <https://github.com/iarna/gauge>
VendorName: Rebecca Turner
VendorUrl: <https://github.com/iarna/gauge>
get-caller-file@1.0.3
URL: <git+https://github.com/stefanpenner/get-caller-file.git>
VendorName: Stefan Penner
VendorUrl: <https://github.com/stefanpenner/get-caller-file#readme>
glob-parent@2.0.0
URL: <https://github.com/es128/glob-parent>
VendorName: Elan Shanker
VendorUrl: <https://github.com/es128/glob-parent>
glob@4.3.5
URL: <git://github.com/isaacs/node-glob.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>
glob@4.5.3
URL: <git://github.com/isaacs/node-glob.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>
glob@5.0.13
URL: <git://github.com/isaacs/node-glob.git>
VendorName: Isaac Z. Schlueter

VendorUrl: <http://blog.izs.me/>
glob@5.0.15
URL: <git://github.com/isaacs/node-glob.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>
glob@6.0.4
URL: <git://github.com/isaacs/node-glob.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>
glob@7.1.6
URL: <git://github.com/isaacs/node-glob.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>
graceful-fs@3.0.12
URL: <git://github.com/isaacs/node-graceful-fs.git>
VendorName: Isaac Z. Schlueter
VendorUrl: http://blog.izs.me
graceful-fs@4.1.15
URL: <https://github.com/isaacs/node-graceful-fs>
graceful-fs@4.2.3
URL: <https://github.com/isaacs/node-graceful-fs>
har-schema@1.0.5
URL: <https://github.com/ahmadnassri/har-schema.git>
VendorName: Ahmad Nassri
VendorUrl: <https://github.com/ahmadnassri/har-schema>
har-schema@2.0.0
URL: <https://github.com/ahmadnassri/har-schema.git>
VendorName: Ahmad Nassri
VendorUrl: <https://github.com/ahmadnassri/har-schema>
har-validator@2.0.6
URL: <https://github.com/ahmadnassri/har-validator.git>
VendorName: Ahmad Nassri
VendorUrl: <https://github.com/ahmadnassri/har-validator>
har-validator@4.2.1
URL: <https://github.com/ahmadnassri/har-validator.git>
VendorName: Ahmad Nassri
VendorUrl: <https://github.com/ahmadnassri/har-validator>
has-binary-data@0.1.3
VendorName: Kevin Roark
has-unicode@2.0.1
URL: <https://github.com/iarna/has-unicode>
VendorName: Rebecca Turner
VendorUrl: <https://github.com/iarna/has-unicode>
hash-for-dep@1.5.1
URL: <git+https://github.com/stefanpenner/hash-for-dep.git>
VendorName: Stefan Penner
VendorUrl: <https://github.com/stefanpenner/hash-for-dep#readme>
hosted-git-info@2.1.5

URL: git+https://github.com/npm/hosted-git-info.git
VendorName: Rebecca Turner
VendorUrl: https://github.com/npm/hosted-git-info
hosted-git-info@2.8.5
URL: git+https://github.com/npm/hosted-git-info.git
VendorName: Rebecca Turner
VendorUrl: https://github.com/npm/hosted-git-info
in-publish@2.0.0
URL: https://github.com/iarna/in-publish
VendorName: Rebecca Turner
VendorUrl: https://github.com/iarna/in-publish
inflight@1.0.6
URL: https://github.com/npm/inflight.git
VendorName: Isaac Z. Schlueter
VendorUrl: https://github.com/isaacs/inflight
inherits@2.0.3
URL: git://github.com/isaacs/inherits
inherits@2.0.4
URL: git://github.com/isaacs/inherits
ini@1.3.5
URL: git://github.com/isaacs/ini.git
VendorName: Isaac Z. Schlueter
VendorUrl: http://blog.izs.me/
init-package-json@1.9.6
URL: https://github.com/npm/init-package-json.git
VendorName: Isaac Z. Schlueter
VendorUrl: http://blog.izs.me/
isexe@2.0.0
URL: git+https://github.com/isaacs/isexe.git
VendorName: Isaac Z. Schlueter
VendorUrl: https://github.com/isaacs/isexe#readme
json-stringify-safe@5.0.1
URL: git://github.com/isaacs/json-stringify-safe
VendorName: Isaac Z. Schlueter
VendorUrl: https://github.com/isaacs/json-stringify-safe
lockfile@1.0.4
URL: https://github.com/npm/lockfile.git
VendorName: Isaac Z. Schlueter
VendorUrl: http://blog.izs.me/
lru-cache@2.7.3
URL: git://github.com/isaacs/node-lru-cache.git
VendorName: Isaac Z. Schlueter
lru-cache@4.1.5
URL: git://github.com/isaacs/node-lru-cache.git
VendorName: Isaac Z. Schlueter
matcher-collection@1.1.2
URL: git+https://github.com/stefanpenner/matcher-collection.git
VendorName: Stefan Penner

VendorUrl: <https://github.com/stefanpenner/matcher-collection#readme>
minimatch@2.0.10
URL: <git://github.com/isaacs/minimatch.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me>
minimatch@3.0.4
URL: <git://github.com/isaacs/minimatch.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me>
mute-stream@0.0.8
URL: <git://github.com/isaacs/mute-stream>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>
natives@1.1.6
URL: <git+https://github.com/addaleax/natives.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <https://github.com/addaleax/natives#readme>
node-modules-path@1.0.2
URL: <git+https://github.com/ember-cli/node-modules-path.git>
VendorName: Stefan Penner
VendorUrl: <https://github.com/ember-cli/node-modules-path#readme>
nopt@3.0.6
URL: <https://github.com/npm/nopt.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>
normalize-git-url@3.0.2
URL: <https://github.com/npm/normalize-git-url.git>
VendorName: Forrest L Norvell
VendorUrl: <https://github.com/npm/normalize-git-url>
npm-cache-filename@1.0.2
URL: <git://github.com/npm/npm-cache-filename>
VendorName: Isaac Z. Schlueter
VendorUrl: <https://github.com/npm/npm-cache-filename>
npm-normalize-package-bin@1.0.1
URL: <git+https://github.com/npm/npm-normalize-package-bin>
VendorName: Isaac Z. Schlueter
VendorUrl: <https://izs.me>
npm-package-arg@4.0.2
URL: <https://github.com/npm/npm-package-arg>
VendorName: Isaac Z. Schlueter
VendorUrl: <https://github.com/npm/npm-package-arg>
npm-package-arg@4.2.1
URL: <https://github.com/npm/npm-package-arg>
VendorName: Isaac Z. Schlueter
VendorUrl: <https://github.com/npm/npm-package-arg>
npm-package-arg@5.1.2
URL: <https://github.com/npm/npm-package-arg>
VendorName: Isaac Z. Schlueter

VendorUrl: <https://github.com/npm/npm-package-arg>
npm-registry-client@7.0.9
URL: <https://github.com/npm/npm-registry-client.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

npmlog@1.2.1
URL: <git://github.com/isaacs/npmlog.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

npmlog@2.0.4
URL: <https://github.com/npm/npmlog.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

npmlog@4.1.2
URL: <https://github.com/npm/npmlog.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

once@1.3.3
URL: <git://github.com/isaacs/once>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

once@1.4.0
URL: <git://github.com/isaacs/once>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

osenv@0.1.5
URL: <https://github.com/npm/osenv>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

path-posix@1.0.0
URL: <git@github.com:jden/node-path-posix.git>
VendorName: jden

pleasant-progress@1.1.0
URL: <https://github.com/stefanpenner/pleasant-progress.git>
VendorName: Stefan Penner
VendorUrl: <https://github.com/stefanpenner/pleasant-progress>

process-relative-require@1.0.0
URL: <git+https://github.com/ember-cli/process-relative-require.git>
VendorName: Stefan Penner
VendorUrl: <https://github.com/ember-cli/process-relative-require#readme>

promzard@0.3.0
URL: <git://github.com/isaacs/promzard>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

proto-list@1.2.4
URL: <https://github.com/isaacs/proto-list>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

pseudomap@1.0.2
URL: [git+https://github.com/isaacs/pseudomap.git](https://github.com/isaacs/pseudomap.git)
VendorName: Isaac Z. Schlueter
VendorUrl: <https://github.com/isaacs/pseudomap#readme>

read-installed@4.0.3
URL: [git://github.com/isaacs/read-installed](https://github.com/isaacs/read-installed)
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

read-package-json@2.0.13
URL: <https://github.com/npm/read-package-json.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

read-package-json@2.1.1
URL: <https://github.com/npm/read-package-json.git>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

read@1.0.7
URL: [git://github.com/isaacs/read.git](https://github.com/isaacs/read.git)
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

readdir-scoped-modules@1.1.0
URL: <https://github.com/npm/readdir-scoped-modules>
VendorName: Isaac Z. Schlueter
VendorUrl: <https://github.com/npm/readdir-scoped-modules>

realize-package-specifier@3.0.3
URL: <https://github.com/npm/realize-package-specifier.git>
VendorName: Rebecca Turner
VendorUrl: <https://github.com/npm/realize-package-specifier>

remove-trailing-separator@1.1.0
URL: [git+https://github.com/darsain/remove-trailing-separator.git](https://github.com/darsain/remove-trailing-separator.git)
VendorName: darsain
VendorUrl: <https://github.com/darsain/remove-trailing-separator#readme>

require-main-filename@1.0.1
URL: [git+ssh://git@github.com/yargs/require-main-filename.git](https://github.com/yargs/require-main-filename.git)
VendorName: Ben Coe
VendorUrl: <https://github.com/yargs/require-main-filename#readme>

rimraf@2.4.5
URL: [git://github.com/isaacs/rimraf.git](https://github.com/isaacs/rimraf.git)
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

rimraf@2.7.1
URL: [git://github.com/isaacs/rimraf.git](https://github.com/isaacs/rimraf.git)
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

semver@4.3.6
URL: [git://github.com/npm/node-semver.git](https://github.com/npm/node-semver.git)

semver@5.0.3
URL: <https://github.com/npm/node-semver>

semver@5.3.0
URL: <https://github.com/npm/node-semver>

semver@5.7.1
URL: <https://github.com/npm/node-semver>

set-blocking@2.0.0
URL: [git+https://github.com/yargs/set-blocking.git](https://github.com/yargs/set-blocking.git)
VendorName: Ben Coe
VendorUrl: <https://github.com/yargs/set-blocking#readme>

setprototypeof@1.1.1
URL: <https://github.com/wesleytodd/setprototypeof.git>
VendorName: Wes Todd
VendorUrl: <https://github.com/wesleytodd/setprototypeof>

sigmund@1.0.1
URL: [git://github.com/isaacs/sigmund](https://github.com/isaacs/sigmund)
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

signal-exit@3.0.2
URL: <https://github.com/tapjs/signal-exit.git>
VendorName: Ben Coe
VendorUrl: <https://github.com/tapjs/signal-exit>

silent-error@1.1.1
URL: [git+https://github.com/stefanpenner/silent-error.git](https://github.com/stefanpenner/silent-error.git)
VendorName: Stefan Penner
VendorUrl: <https://github.com/stefanpenner/silent-error#readme>

slide@1.1.6
URL: [git://github.com/isaacs/slide-flow-control.git](https://github.com/isaacs/slide-flow-control.git)
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

tar@2.2.2
URL: [git://github.com/isaacs/node-tar.git](https://github.com/isaacs/node-tar.git)
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

timers-ext@0.1.7
URL: [git://github.com/medikoo/timers-ext.git](https://github.com/medikoo/timers-ext.git)
VendorName: Mariusz Nowak
VendorUrl: <http://www.medikoo.com/>

tree-sync@1.4.0
URL: <https://github.com/stefanpenner/tree-sync/>
VendorName: Stefan Penner

type@1.2.0
URL: <https://github.com/medikoo/type.git>
VendorName: Mariusz Nowak
VendorUrl: <https://www.medikoo.com/>

type@2.0.0
URL: <https://github.com/medikoo/type.git>
VendorName: Mariusz Nowak
VendorUrl: <https://www.medikoo.com/>

uid-number@0.0.6

URL: [git://github.com/isaacs/uid-number.git](https://github.com/isaacs/uid-number.git)
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

validate-npm-package-name@2.2.2
URL: <https://github.com/npm/validate-npm-package-name>
VendorName: zeke
VendorUrl: <https://github.com/npm/validate-npm-package-name>

validate-npm-package-name@3.0.0
URL: <https://github.com/npm/validate-npm-package-name>
VendorName: zeke
VendorUrl: <https://github.com/npm/validate-npm-package-name>

which-module@1.0.0
URL: [git+https://github.com/nexdrew/which-module.git](https://github.com/nexdrew/which-module.git)
VendorName: nexdrew
VendorUrl: <https://github.com/nexdrew/which-module#readme>

which@1.2.14
URL: [git://github.com/isaacs/node-which.git](https://github.com/isaacs/node-which.git)
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me>

which@1.3.1
URL: [git://github.com/isaacs/node-which.git](https://github.com/isaacs/node-which.git)
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me>

wide-align@1.1.3
URL: <https://github.com/iarna/wide-align>
VendorName: Rebecca Turner
VendorUrl: <http://re-becca.org/>

wrappy@1.0.2
URL: <https://github.com/npm/wrappy>
VendorName: Isaac Z. Schlueter
VendorUrl: <https://github.com/npm/wrappy>

write-file-atomic@1.1.4
URL: [git@github.com:iarna/write-file-atomic.git](https://github.com/iarna/write-file-atomic.git)
VendorName: Rebecca Turner
VendorUrl: <https://github.com/iarna/write-file-atomic>

write-file-atomic@1.3.4
URL: [git@github.com:iarna/write-file-atomic.git](https://github.com/iarna/write-file-atomic.git)
VendorName: Rebecca Turner
VendorUrl: <https://github.com/iarna/write-file-atomic>

y18n@3.2.2
URL: [git@github.com:yargs/y18n.git](https://github.com/yargs/y18n.git)
VendorName: Ben Coe
VendorUrl: <https://github.com/yargs/y18n>

yallist@2.1.2
URL: [git+https://github.com/isaacs/yallist.git](https://github.com/isaacs/yallist.git)
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

yargs-parser@5.0.0

URL: [git@github.com:yargs/yargs-parser.git](https://github.com/yargs/yargs-parser.git)
VendorName: Ben Coe

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@sailshq/lodash@3.10.4
URL: [git://github.com/treelinehq/lodash.git](https://github.com/treelinehq/lodash.git)
VendorName: Mike McNeil

accepts@1.3.7
URL: <https://github.com/jshttp/accepts.git>

acorn@5.7.3
URL: <https://github.com/acornjs/acorn.git>
VendorUrl: <https://github.com/acornjs/acorn>

ajv@4.11.8
URL: <https://github.com/epoberezkin/ajv.git>
VendorName: Evgeny Poberezkin
VendorUrl: <https://github.com/epoberezkin/ajv>

ajv@6.10.2
URL: <https://github.com/epoberezkin/ajv.git>
VendorName: Evgeny Poberezkin
VendorUrl: <https://github.com/epoberezkin/ajv>

align-text@0.1.4
URL: [git://github.com/jonschlinkert/align-text.git](https://github.com/jonschlinkert/align-text.git)
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/align-text>

alter@0.2.0
URL: <https://github.com/olov/alter.git>
VendorName: Olov Lassus

amd-name-resolver@0.0.2
VendorName: Ember CLI contributors

ansi-regex@0.2.1
URL: <https://github.com/sindresorhus/ansi-regex.git>
VendorName: Sindre Sorhus
VendorUrl: <http://sindresorhus.com>

ansi-regex@1.1.1
URL: <https://github.com/sindresorhus/ansi-regex.git>
VendorName: Sindre Sorhus
VendorUrl: <http://sindresorhus.com>

ansi-regex@2.1.1
URL: <https://github.com/chalk/ansi-regex.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

ansi-regex@3.0.0
URL: <https://github.com/chalk/ansi-regex.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

ansi-styles@1.0.0
URL: [git://github.com/sindresorhus/ansi-styles.git](https://github.com/sindresorhus/ansi-styles.git)
VendorName: Sindre Sorhus
VendorUrl: <https://github.com/sindresorhus/ansi-styles>

ansi-styles@1.1.0
URL: <https://github.com/sindresorhus/ansi-styles.git>
VendorName: Sindre Sorhus
VendorUrl: <http://sindresorhus.com>

ansi-styles@2.2.1
URL: <https://github.com/chalk/ansi-styles.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

ansi-styles@3.2.1
URL: <https://github.com/chalk/ansi-styles.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

ansi@0.3.1
URL: <git://github.com/TooTallNate/ansi.js.git>
VendorName: Nathan Rajlich
VendorUrl: <http://tootallnate.net>

ansicolors@0.2.1
URL: <git://github.com/thlorenz/ansicolors.git>
VendorName: Thorsten Lorenz
VendorUrl: thlorenz.com

ansicolors@0.3.2
URL: <git://github.com/thlorenz/ansicolors.git>
VendorName: Thorsten Lorenz
VendorUrl: thlorenz.com

ansistyles@0.1.3
URL: <git://github.com/thlorenz/ansistyles.git>
VendorName: Thorsten Lorenz
VendorUrl: thlorenz.com

archy@1.0.0
URL: <http://github.com/substack/node-archy.git>
VendorName: James Halliday
VendorUrl: <http://substack.net>

argparse@1.0.10
URL: <https://github.com/nodeca/argparse.git>

arr-diff@2.0.0
URL: <https://github.com/jonschlinkert/arr-diff.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/arr-diff>

arr-flatten@1.1.0
URL: <https://github.com/jonschlinkert/arr-flatten.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/arr-flatten>

array-equal@1.0.0
URL: <https://github.com/component/array-equal.git>
VendorName: Jonathan Ong
VendorUrl: <http://jongleberry.com>

array-find-index@1.0.2
URL: <https://github.com/sindresorhus/array-find-index.git>

VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
array-flatten@1.1.1
URL: git://github.com/blakeembrey/array-flatten.git
VendorName: Blake Embrey
VendorUrl: https://github.com/blakeembrey/array-flatten

array-index@1.0.0
URL: git://github.com/TooTallNate/array-index.git
VendorName: Nathan Rajlich
VendorUrl: http://tootallnate.net

array-unique@0.2.1
URL: git://github.com/jonschlinkert/array-unique.git
VendorName: Jon Schlinkert
VendorUrl: https://github.com/jonschlinkert/array-unique

arraybuffer.slice@0.0.6
URL: git@github.com:rase-/arraybuffer.slice.git
VendorUrl: https://github.com/rase-/arraybuffer.slice

asap@2.0.6
URL: https://github.com/krisKowal/asap.git

asn1@0.1.11
URL: git://github.com/mcavage/node-asn1.git
VendorName: Mark Cavage

asn1@0.2.4
URL: git://github.com/joyent/node-asn1.git
VendorName: Joyent
VendorUrl: joyent.com

assert-plus@0.2.0
URL: https://github.com/mcavage/node-assert-plus.git
VendorName: Mark Cavage

assert-plus@1.0.0
URL: https://github.com/mcavage/node-assert-plus.git
VendorName: Mark Cavage

ast-traverse@0.1.1
URL: https://github.com/olov/ast-traverse.git
VendorName: Olov Lassus

ast-types@0.8.12
URL: git://github.com/benjamn/ast-types.git
VendorName: Ben Newman
VendorUrl: http://github.com/benjamn/ast-types

ast-types@0.8.15
URL: git://github.com/benjamn/ast-types.git
VendorName: Ben Newman
VendorUrl: http://github.com/benjamn/ast-types

ast-types@0.9.6
URL: git://github.com/benjamn/ast-types.git
VendorName: Ben Newman
VendorUrl: http://github.com/benjamn/ast-types

async-disk-cache@1.3.5

URL: <https://github.com/stefanpenner/async-disk-cache.git>
VendorName: Stefan Penner
async-promise-queue@1.0.5
URL: <https://github.com/stefanpenner/async-promise-queue>
VendorName: Stefan Penner
async@0.2.10
URL: <https://github.com/caolan/async.git>
VendorName: Caolan McMahon
async@0.8.0
URL: <https://github.com/caolan/async.git>
VendorName: Caolan McMahon
async@0.9.0
URL: <https://github.com/caolan/async.git>
VendorName: Caolan McMahon
async@1.5.2
URL: <https://github.com/caolan/async.git>
VendorName: Caolan McMahon
async@2.6.3
URL: <https://github.com/caolan/async.git>
VendorName: Caolan McMahon
VendorUrl: <https://caolan.github.io/async/>
asynckit@0.4.0
URL: <git+https://github.com/alexindigo/asynckit.git>
VendorName: Alex Indigo
VendorUrl: <https://github.com/alexindigo/asynckit#readme>
aws4@1.9.0
URL: <https://github.com/mhart/aws4.git>
VendorName: Michael Hart
VendorUrl: <http://github.com/mhart>
babel-core@5.8.38
URL: <https://github.com/babel/babel.git>
VendorName: Sebastian McKenzie
VendorUrl: <https://babeljs.io/>
babel-plugin-constant-folding@1.0.1
URL: <https://github.com/babel-plugins/babel-plugin-constant-folding.git>
babel-plugin-dead-code-elimination@1.0.2
URL: <https://github.com/babel-plugins/babel-plugin-dead-code-elimination.git>
babel-plugin-eval@1.0.1
URL: <https://github.com/babel-plugins/babel-plugin-eval.git>
babel-plugin-htmlbars-inline-precompile@0.0.5
URL: <https://github.com/pangratz/babel-plugin-htmlbars-inline-precompile>
VendorName: Clemens Miller
babel-plugin-inline-environment-variables@1.0.1
URL: <https://github.com/babel-plugins/babel-plugin-inline-environment-variables.git>
babel-plugin-jscript@1.0.4
URL: <https://github.com/babel-plugins/babel-plugin-jscript.git>
babel-plugin-member-expression-literals@1.0.1
URL: <https://github.com/babel-plugins/babel-plugin-member-expression-literals.git>

babel-plugin-property-literals@1.0.1
URL: <https://github.com/babel-plugins/babel-plugin-property-literals.git>

babel-plugin-proto-to-assign@1.0.4
URL: <https://github.com/babel-plugins/babel-plugin-proto-to-assign.git>

babel-plugin-react-constant-elements@1.0.3
URL: <https://github.com/babel-plugins/babel-plugin-react-constant-elements.git>

babel-plugin-react-display-name@1.0.3
URL: <https://github.com/babel-plugins/babel-plugin-react-display-name.git>

babel-plugin-remove-console@1.0.1
URL: <https://github.com/babel-plugins/babel-plugin-remove-console.git>

babel-plugin-remove-debugger@1.0.1
URL: <https://github.com/babel-plugins/babel-plugin-remove-debugger.git>

babel-plugin-runtime@1.0.7
URL: <https://github.com/babel-plugins/babel-plugin-runtime.git>

babel-plugin-undeclared-variables-check@1.0.2
URL: <https://github.com/babel-plugins/babel-plugin-undeclared-variables-check.git>

babel-plugin-undefined-to-void@1.1.6
URL: <https://github.com/babel-plugins/babel-plugin-undefined-to-void.git>

babel@5.8.38
URL: <https://github.com/babel/babel.git>
VendorName: Sebastian McKenzie
VendorUrl: <https://babeljs.io/>

backbone@1.4.0
URL: <https://github.com/jashkenas/backbone.git>
VendorName: Jeremy Ashkenas

backo2@1.0.2
URL: <https://github.com/mokesmokes/backo.git>

balanced-match@1.0.0
URL: <git://github.com/juliangruber/balanced-match.git>
VendorName: Julian Gruber
VendorUrl: <https://github.com/juliangruber/balanced-match>

base64-arraybuffer@0.1.2
URL: <https://github.com/niklasvh/base64-arraybuffer>
VendorName: Niklas von Hertzen
VendorUrl: <https://github.com/niklasvh/base64-arraybuffer>

basic-auth@2.0.1
URL: <https://github.com/jshttp/basic-auth.git>

benchmark@1.0.0
URL: <https://github.com/bestiejs/benchmark.js.git>
VendorName: Mathias Bynens
VendorUrl: <http://benchmarkjs.com/>

better-assert@1.0.2
URL: <https://github.com/visionmedia/better-assert.git>
VendorName: TJ Holowaychuk

binaryextensions@2.2.0
URL: <https://github.com/bevry/binaryextensions.git>
VendorName: 2013+ Bevry Pty Ltd
VendorUrl: <https://github.com/bevry/binaryextensions>

bl@1.0.3
URL: <https://github.com/rvagg/bl.git>
VendorUrl: <https://github.com/rvagg/bl>

bl@1.1.2
URL: <https://github.com/rvagg/bl.git>
VendorUrl: <https://github.com/rvagg/bl>

blank-object@1.0.2
URL: <git+https://github.com/stefanpenner/blank-object.git>
VendorName: Stefan Penner
VendorUrl: <https://github.com/stefanpenner/blank-object#readme>

bluebird@2.11.0
URL: <git://github.com/petkaantonov/bluebird.git>
VendorName: Petka Antonov
VendorUrl: <https://github.com/petkaantonov/bluebird>

body-parser@1.14.2
URL: <https://github.com/expressjs/body-parser.git>

body-parser@1.19.0
URL: <https://github.com/expressjs/body-parser.git>

bower-config@0.6.1
URL: <git://github.com/bower/config.git>
VendorName: Twitter
VendorUrl: <http://bower.io/>

bower-endpoint-parser@0.2.2
URL: <git://github.com/bower/endpoint-parser.git>
VendorName: Twitter

bower-shrinkwrap-resolver-ext@0.1.0
URL: <https://github.com/sreenaths/bower-shrinkwrap-resolver-ext>

bower@1.8.8
URL: <https://github.com/bower/bower.git>
VendorName: Twitter
VendorUrl: <http://bower.io/>

brace-expansion@1.1.11
URL: <git://github.com/juliangruber/brace-expansion.git>
VendorName: Julian Gruber
VendorUrl: <https://github.com/juliangruber/brace-expansion>

braces@1.8.5
URL: <https://github.com/jonschlinkert/braces.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/braces>

breakable@1.0.0
URL: <https://github.com/olov/breakable.git>
VendorName: Olov Lassus

broccoli-asset-rev@2.4.2
URL: <git://github.com/rickharrison/broccoli-asset-rev>
VendorName: Rick Harrison
VendorUrl: <https://github.com/rickharrison/broccoli-asset-rev>

broccoli-asset-rewrite@1.1.0
URL: <git://github.com/rickharrison/broccoli-asset-rewrite>

VendorName: Rick Harrison
VendorUrl: <https://github.com/rickharrison/broccoli-asset-rewrite>
broccoli-babel-transpiler@5.7.4
URL: <https://github.com/babel/broccoli-babel-transpiler.git>
VendorName: nightire
VendorUrl: <https://github.com/babel/broccoli-babel-transpiler>
broccoli-caching-writer@2.3.1
URL: <https://github.com/ember-cli/broccoli-caching-writer.git>
VendorName: Robert Jackson
broccoli-caching-writer@3.0.3
URL: <https://github.com/ember-cli/broccoli-caching-writer.git>
VendorName: Robert Jackson
broccoli-clean-css@0.2.0
URL: <https://github.com/shinnn/broccoli-clean-css.git>
VendorName: Shinnosuke Watanabe
VendorUrl: <https://github.com/shinnn/broccoli-clean-css>
broccoli-config-loader@1.0.1
URL: <git+https://github.com/ember-cli/broccoli-config-loader.git>
VendorName: yaymukund
VendorUrl: <https://github.com/ember-cli/broccoli-config-loader#readme>
broccoli-config-replace@1.1.2
URL: <https://github.com/ember-cli/broccoli-config-replace>
VendorName: yaymukund
VendorUrl: <https://github.com/ember-cli/broccoli-config-replace#readme>
broccoli-debug@0.6.5
URL: <https://github.com/broccolijs/broccoli-debug.git>
VendorName: Robert Jackson
VendorUrl: [http:](http://)
broccoli-filter@0.1.14
URL: <https://github.com/broccolijs/broccoli-filter>
VendorName: Jo Liss
broccoli-filter@1.3.0
URL: <https://github.com/broccolijs/broccoli-filter>
broccoli-funnel@1.0.1
URL: <https://github.com/broccolijs/broccoli-funnel.git>
VendorName: Robert Jackson
broccoli-funnel@1.2.0
URL: <https://github.com/broccolijs/broccoli-funnel.git>
VendorName: Robert Jackson
broccoli-funnel@2.0.2
URL: <https://github.com/broccolijs/broccoli-funnel.git>
VendorName: Robert Jackson
broccoli-jshint@1.2.0
URL: <https://github.com/rwjblue/broccoli-jshint.git>
VendorName: Robert Jackson
broccoli-kitchen-sink-helpers@0.2.9
URL: <https://github.com/broccolijs/broccoli-kitchen-sink-helpers>
VendorName: Jo Liss

broccoli-kitchen-sink-helpers@0.3.1
URL: <https://github.com/broccolijs/broccoli-kitchen-sink-helpers>
VendorName: Jo Liss

broccoli-less-single@0.6.4
URL: <https://github.com/gabrielgrant/broccoli-less-single>
VendorName: Gabriel Grant
VendorUrl: <https://github.com/gabrielgrant/broccoli-less-single>

broccoli-merge-trees@1.1.1
URL: <https://github.com/broccolijs/broccoli-merge-trees>
VendorName: Jo Liss

broccoli-merge-trees@1.2.4
URL: <https://github.com/broccolijs/broccoli-merge-trees>
VendorName: Jo Liss

broccoli-merge-trees@2.0.1
URL: <https://github.com/broccolijs/broccoli-merge-trees>
VendorName: Jo Liss

broccoli-persistent-filter@1.4.6
URL: <git+https://github.com/stefanpenner/broccoli-persistent-filter.git>
VendorName: Stefan Penner
VendorUrl: <https://github.com/stefanpenner/broccoli-persistent-filter#readme>

broccoli-plugin@1.1.0
URL: <https://github.com/broccolijs/broccoli-plugin>
VendorName: Jo Liss

broccoli-plugin@1.3.1
URL: <https://github.com/broccolijs/broccoli-plugin>
VendorName: Jo Liss

broccoli-sane-watcher@1.1.5
URL: <https://github.com/broccolijs/broccoli-sane-watcher.git>
VendorName: Kris Selden
VendorUrl: <https://github.com/broccolijs/broccoli-sane-watcher>

broccoli-sass-source-maps@2.2.0
URL: <https://github.com/aexmachina/broccoli-sass-source-maps>
VendorName: Jo Liss

broccoli-slow-trees@1.1.0
URL: <https://github.com/rwjblue/broccoli-slow-trees.git>
VendorName: Robert Jackson
VendorUrl: <https://github.com/rwjblue/broccoli-slow-trees>

broccoli-source@1.1.0
URL: <https://github.com/broccolijs/broccoli-source>
VendorName: Jo Liss

broccoli-sourcemap-concat@1.1.6
URL: <https://github.com/ef4/broccoli-sourcemap-concat>
VendorName: Edward Faulkner

broccoli-sourcemap-concat@2.0.2
URL: <https://github.com/ef4/broccoli-sourcemap-concat>
VendorName: Edward Faulkner

broccoli-sri-hash@1.2.2
URL: <https://github.com/jonathanKingston/broccoli-sri-hash.git>

VendorName: Jonathan Kingston
broccoli-stew@1.6.0
URL: <https://github.com/stefanpenner/broccoli-stew.git>
VendorName: Stefan Penner & Robert Jackson
VendorUrl: <https://github.com/stefanpenner/broccoli-stew>
broccoli-uglify-sourcemap@1.5.2
URL: <git+https://github.com/ember-cli/broccoli-uglify-sourcemap.git>
VendorName: Edward Faulkner
VendorUrl: <https://github.com/ember-cli/broccoli-uglify-sourcemap#readme>
broccoli-unwatched-tree@0.1.3
URL: <https://github.com/rjackson/broccoli-unwatched-tree.git>
VendorName: Robert Jackson
broccoli-writer@0.1.1
URL: <https://github.com/joliss/broccoli-writer>
VendorName: Jo Liss
broccoli@0.16.8
URL: <https://github.com/broccolijs/broccoli>
VendorName: Jo Liss
VendorUrl: <https://github.com/broccolijs/broccoli>
buffer-from@1.1.1
URL: <https://github.com/LinusU/buffer-from.git>
builtin-modules@1.1.1
URL: <https://github.com/sindresorhus/builtin-modules.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
builtins@0.0.7
URL: <https://github.com/juliangruber/builtins.git>
builtins@1.0.3
URL: <https://github.com/juliangruber/builtins.git>
bytes@2.2.0
URL: <https://github.com/visionmedia/bytes.js.git>
VendorName: TJ Holowaychuk
VendorUrl: <http://tjholowaychuk.com>
bytes@2.4.0
URL: <https://github.com/visionmedia/bytes.js.git>
VendorName: TJ Holowaychuk
VendorUrl: <http://tjholowaychuk.com>
bytes@3.0.0
URL: <https://github.com/visionmedia/bytes.js.git>
VendorName: TJ Holowaychuk
VendorUrl: <http://tjholowaychuk.com>
bytes@3.1.0
URL: <https://github.com/visionmedia/bytes.js.git>
VendorName: TJ Holowaychuk
VendorUrl: <http://tjholowaychuk.com>
camelcase-keys@2.1.0
URL: <https://github.com/sindresorhus/camelcase-keys.git>
VendorName: Sindre Sorhus

VendorUrl: <http://sindresorhus.com>
camelcase@1.2.1
URL: <https://github.com/sindresorhus/camelcase.git>
VendorName: Sindre Sorhus
VendorUrl: <http://sindresorhus.com>
camelcase@2.1.1
URL: <https://github.com/sindresorhus/camelcase.git>
VendorName: Sindre Sorhus
VendorUrl: <http://sindresorhus.com>
camelcase@3.0.0
URL: <https://github.com/sindresorhus/camelcase.git>
VendorName: Sindre Sorhus
VendorUrl: <http://sindresorhus.com>
can-symlink@1.0.0
URL: <https://github.com/raytiley/can-symlink>
VendorName: raytiley
cardinal@0.5.0
URL: <git://github.com/thlorenz/cardinal.git>
VendorName: Thorsten Lorenz
VendorUrl: thlorenz.com
center-align@0.1.3
URL: <https://github.com/jonschlinkert/center-align.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/center-align>
chalk@0.4.0
URL: <https://github.com/sindresorhus/chalk.git>
VendorName: Sindre Sorhus
VendorUrl: <http://sindresorhus.com>
chalk@0.5.1
URL: <https://github.com/sindresorhus/chalk.git>
chalk@1.1.0
URL: <https://github.com/chalk/chalk.git>
chalk@1.1.3
URL: <https://github.com/chalk/chalk.git>
chalk@2.4.2
URL: <https://github.com/chalk/chalk.git>
charm@1.0.2
URL: <http://github.com/substack/node-charm.git>
VendorName: James Halliday
VendorUrl: <http://substack.net>
clean-css@2.2.23
URL: <https://github.com/GoalSmashers/clean-css.git>
VendorName: Jakub Pawlowicz
VendorUrl: <https://github.com/GoalSmashers/clean-css>
cli-color@0.3.3
URL: <git://github.com/medikoo/cli-color.git>
VendorName: Mariusz Nowak
VendorUrl: <http://www.medikoo.com/>

cli-table@0.3.1
URL: <https://github.com/Automattic/cli-table.git>
VendorName: Guillermo Rauch

cli@1.0.1
URL: <http://github.com/node-js-libs/cli.git>
VendorName: Chris O'Hara
VendorUrl: <http://github.com/node-js-libs/cli>

clone@0.2.0
URL: <git://github.com/pvorb/node-clone.git>
VendorName: Paul Vorbach
VendorUrl: <http://paul.vorba.ch/>

clone@1.0.4
URL: <git://github.com/pvorb/node-clone.git>
VendorName: Paul Vorbach
VendorUrl: <http://paul.vorba.ch/>

clone@2.1.2
URL: <git://github.com/pvorb/node-clone.git>
VendorName: Paul Vorbach
VendorUrl: <http://paul.vorba.ch/>

co@4.6.0
URL: <https://github.com/tj/co.git>

code-point-at@1.1.0
URL: <https://github.com/sindresorhus/code-point-at.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

color-convert@1.9.3
URL: <https://github.com/Qix-/color-convert.git>
VendorName: Heather Arthur

color-name@1.1.3
URL: <git@github.com:dfcreative/color-name.git>
VendorName: DY
VendorUrl: <https://github.com/dfcreative/color-name>

colors@1.0.3
URL: <http://github.com/Marak/colors.js.git>
VendorName: Marak Squires
VendorUrl: <https://github.com/Marak/colors.js>

columnify@1.5.4
URL: <git://github.com/timoxley/columnify.git>
VendorName: Tim Oxley
VendorUrl: <https://github.com/timoxley/columnify>

combined-stream@1.0.8
URL: <git://github.com/felixge/node-combined-stream.git>
VendorName: Felix Geisendrfer
VendorUrl: <https://github.com/felixge/node-combined-stream>

commander@2.1.0
URL: <https://github.com/visionmedia/commander.js.git>
VendorName: TJ Holowaychuk

commander@2.2.0

URL: <https://github.com/visionmedia/commander.js.git>
VendorName: TJ Holowaychuk
commander@2.20.3
URL: <https://github.com/tj/commander.js.git>
VendorName: TJ Holowaychuk
commoner@0.10.8
URL: <git://github.com/benjamn/commoner.git>
VendorName: Ben Newman
VendorUrl: <http://github.com/benjamn/commoner>
compressible@2.0.17
URL: <https://github.com/jshttp/compressible.git>
compression@1.7.4
URL: <https://github.com/expressjs/compression.git>
concat-map@0.0.1
URL: <git://github.com/substack/node-concat-map.git>
VendorName: James Halliday
VendorUrl: <http://substack.net>
concat-stream@1.5.0
URL: <http://github.com/maxogden/concat-stream.git>
VendorName: Max Ogden
concat-stream@1.6.2
URL: <http://github.com/maxogden/concat-stream.git>
VendorName: Max Ogden
config-chain@1.1.12
URL: <https://github.com/dominictarr/config-chain.git>
VendorName: Dominic Tarr
VendorUrl: <http://github.com/dominictarr/config-chain>
connect@3.7.0
URL: <https://github.com/senchalabs/connect.git>
VendorName: TJ Holowaychuk
VendorUrl: <http://tjholowaychuk.com>
console-browserify@1.1.0
URL: <git://github.com/Raynos/console-browserify.git>
VendorName: Raynos
VendorUrl: <https://github.com/Raynos/console-browserify>
consolidate@0.13.1
URL: <https://github.com/visionmedia/consolidate.js.git>
VendorName: TJ Holowaychuk
content-disposition@0.5.3
URL: <https://github.com/jshttp/content-disposition.git>
VendorName: Douglas Christopher Wilson
content-type@1.0.4
URL: <https://github.com/jshttp/content-type.git>
VendorName: Douglas Christopher Wilson
convert-source-map@1.7.0
URL: <git://github.com/thlorenz/convert-source-map.git>
VendorName: Thorsten Lorenz
VendorUrl: <https://github.com/thlorenz/convert-source-map>

cookie-signature@1.0.6
URL: <https://github.com/visionmedia/node-cookie-signature.git>
VendorName: TJ Holowaychuk

cookie@0.4.0
URL: <https://github.com/jshttp/cookie.git>
VendorName: Roman Shtylman

copy-dereference@1.0.0
URL: <https://github.com/broccolijs/node-copy-dereference>
VendorName: Jo Liss

core-js@1.2.7
URL: <https://github.com/zloirock/core-js.git>

core-object@0.0.2
URL: https://github.com/stefanpenner/core_object.git
VendorName: Ember core team and ember cli contributors
VendorUrl: https://github.com/stefanpenner/core_object

core-util-is@1.0.2
URL: <git://github.com/isaacs/core-util-is>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

cross-spawn-async@2.2.5
URL: <git://github.com/IndigoUnited/node-cross-spawn-async.git>
VendorName: IndigoUnited
VendorUrl: <http://indigounited.com>

cross-spawn@3.0.1
URL: <git://github.com/IndigoUnited/node-cross-spawn.git>
VendorName: IndigoUnited
VendorUrl: <http://indigounited.com>

ctype@0.5.3
URL: <https://github.com/rmustacc/node-ctype.git>
VendorName: Robert Mustacchi
VendorUrl: <https://github.com/rmustacc/node-ctype>

currently-unhandled@0.4.1
URL: <https://github.com/jamestalmage/currently-unhandled.git>
VendorName: James Talmage
VendorUrl: github.com/jamestalmage

d@0.1.1
URL: <git://github.com/medikoo/d.git>
VendorName: Mariusz Nowak
VendorUrl: <http://www.medikoo.com/>

dashdash@1.14.1
URL: <git://github.com/trentm/node-dashdash.git>
VendorName: Trent Mick
VendorUrl: <http://trentm.com>

date-now@0.1.4
URL: <git://github.com/Colingo/date-now.git>
VendorName: Raynos
VendorUrl: <https://github.com/Colingo/date-now>

debug@0.7.4

URL: [git://github.com/visionmedia/debug.git](https://github.com/visionmedia/debug.git)
VendorName: TJ Holowaychuk
debug@1.0.2
URL: [git://github.com/visionmedia/debug.git](https://github.com/visionmedia/debug.git)
VendorName: TJ Holowaychuk
debug@1.0.3
URL: [git://github.com/visionmedia/debug.git](https://github.com/visionmedia/debug.git)
VendorName: TJ Holowaychuk
debug@1.0.4
URL: [git://github.com/visionmedia/debug.git](https://github.com/visionmedia/debug.git)
VendorName: TJ Holowaychuk
debug@2.1.0
URL: [git://github.com/visionmedia/debug.git](https://github.com/visionmedia/debug.git)
VendorName: TJ Holowaychuk
debug@2.2.0
URL: [git://github.com/visionmedia/debug.git](https://github.com/visionmedia/debug.git)
VendorName: TJ Holowaychuk
debug@2.6.9
URL: [git://github.com/visionmedia/debug.git](https://github.com/visionmedia/debug.git)
VendorName: TJ Holowaychuk
debug@3.2.6
URL: [git://github.com/visionmedia/debug.git](https://github.com/visionmedia/debug.git)
VendorName: TJ Holowaychuk
debuglog@1.0.1
URL: <https://github.com/sam-github/node-debuglog.git>
VendorName: Sam Roberts
decamelize@1.2.0
URL: <https://github.com/sindresorhus/decamelize.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
defaults@1.0.3
URL: [git://github.com/tmpvar/defaults.git](https://github.com/tmpvar/defaults.git)
VendorName: Elijah Insua
defined@1.0.0
URL: [git://github.com/substack/defined.git](https://github.com/substack/defined.git)
VendorName: James Halliday
VendorUrl: <https://github.com/substack/defined>
defs@1.1.1
URL: <https://github.com/olov/defs.git>
VendorName: Olov Lassus
delayed-stream@1.0.0
URL: [git://github.com/felixge/node-delayed-stream.git](https://github.com/felixge/node-delayed-stream.git)
VendorName: Felix Geisendrfer
VendorUrl: <https://github.com/felixge/node-delayed-stream>
delegates@1.0.0
URL: <https://github.com/visionmedia/node-delegates.git>
depd@1.1.2
URL: <https://github.com/dougwilson/nodejs-depd.git>

VendorName: Douglas Christopher Wilson
destroy@1.0.4
URL: <https://github.com/stream-utils/destroy.git>
VendorName: Jonathan Ong
VendorUrl: <http://jongleberry.com>

detect-indent@3.0.1
URL: <https://github.com/sindresorhus/detect-indent.git>
VendorName: Sindre Sorhus
VendorUrl: <http://sindresorhus.com>

detective@4.7.1
URL: <git://github.com/browserify/detective.git>
VendorName: James Halliday
VendorUrl: <http://substack.net>

did_it_work@0.0.6
VendorName: Toby Ho

dom-serializer@0.2.2
URL: <git://github.com/cheeriojs/dom-renderer.git>
VendorName: Felix Boehm

ecc-jsbn@0.1.2
URL: <https://github.com/quartzjer/ecc-jsbn.git>
VendorName: Jeremie Miller
VendorUrl: <https://github.com/quartzjer/ecc-jsbn>

editions@1.3.4
URL: <https://github.com/bevry/editions.git>
VendorName: 2016+ Bevry Pty Ltd
VendorUrl: <https://github.com/bevry/editions>

editor@1.0.0
URL: <git://github.com/substack/node-editor.git>
VendorName: James Halliday
VendorUrl: <https://github.com/substack/node-editor>

ee-first@1.1.1
URL: <https://github.com/jonathanong/ee-first.git>
VendorName: Jonathan Ong
VendorUrl: <http://jongleberry.com>

em-helpers@0.8.0
URL: <https://github.com/sreenaths/em-helpers.git>
VendorName: Sreenath Somarajapuram

em-table@0.12.0
URL: <https://github.com/sreenaths/em-table.git>
VendorName: Sreenath Somarajapuram

ember-array-contains-helper@1.0.2
URL: <https://github.com/bmeurant/ember-array-contains-helper>
VendorName: Baptiste Meurant

ember-bootstrap@0.5.1
URL: <https://github.com/kaliber5/ember-bootstrap>
VendorName: Simon Ihmig
VendorUrl: <http://kaliber5.github.io/ember-bootstrap/>

ember-cli-app-version@1.0.0

URL: <https://github.com/embersherpa/ember-cli-app-version.git>
VendorName: Taras Mankovski
ember-cli-babel@5.1.6
URL: [git://github.com/babel/ember-cli-babel.git](https://github.com/babel/ember-cli-babel.git)
VendorName: Gordon Kristan
VendorUrl: <https://github.com/babel/ember-cli-babel>
ember-cli-babel@5.2.8
URL: [git://github.com/babel/ember-cli-babel.git](https://github.com/babel/ember-cli-babel.git)
VendorName: Gordon Kristan
ember-cli-content-security-policy@0.4.0
URL: <https://github.com/rwjblue/ember-cli-content-security-policy>
ember-cli-copy-dereference@1.0.0
URL: <https://github.com/broccolijs/node-copy-dereference>
VendorName: Jo Liss
ember-cli-dependency-checker@1.2.0
URL: <https://github.com/quaertym/ember-cli-dependency-checker.git>
VendorName: Emre Unal
ember-cli-htmlbars-inline-precompile@0.3.1
URL: <https://github.com/pangratz/ember-cli-htmlbars-inline-precompile>
VendorName: Clemens Miller
ember-cli-htmlbars@0.7.6
URL: [git@github.com:ember-cli/ember-cli-htmlbars.git](https://github.com/ember-cli/ember-cli-htmlbars.git)
VendorName: Jonathan Jackson & Chase McCarthy
VendorUrl: <https://github.com/ember-cli/ember-cli-htmlbars>
ember-cli-htmlbars@1.0.2
URL: [git@github.com:ember-cli/ember-cli-htmlbars.git](https://github.com/ember-cli/ember-cli-htmlbars.git)
VendorName: Jonathan Jackson & Chase McCarthy
VendorUrl: <https://github.com/ember-cli/ember-cli-htmlbars>
ember-cli-htmlbars@1.3.5
URL: [git@github.com:ember-cli/ember-cli-htmlbars.git](https://github.com/ember-cli/ember-cli-htmlbars.git)
VendorName: Jonathan Jackson & Chase McCarthy
VendorUrl: <https://github.com/ember-cli/ember-cli-htmlbars>
ember-cli-ic-ajax@0.2.1
URL: <https://github.com/rjackson/ember-cli-ic-ajax>
VendorName: Robert Jackson
VendorUrl: <https://github.com/rjackson/ember-cli-ic-ajax>
ember-cli-inject-live-reload@1.4.0
URL: [git://github.com/rwjblue/ember-cli-inject-live-reload.git](https://github.com/rwjblue/ember-cli-inject-live-reload.git)
VendorName: Robert Jackson
VendorUrl: <https://github.com/rwjblue/ember-cli-inject-live-reload>
ember-cli-jquery-ui@0.0.20
URL: <https://github.com/gaurav0/ember-cli-jquery-ui>
VendorName: Gaurav Munjal
ember-cli-less@1.5.7
URL: <https://github.com/gdub22/ember-cli-less>
VendorName: Garth Poitras
ember-cli-moment-shim@0.7.3
URL: [git://github.com/jasonmit/ember-cli-moment-shim.git](https://github.com/jasonmit/ember-cli-moment-shim.git)

VendorName: Jason Mitchell
VendorUrl: <https://github.com/jasonmit/ember-cli-moment-shim>
ember-cli-node-assets@0.1.6
URL: <https://github.com/dfreeman/ember-cli-node-assets.git>
VendorName: Dan Freeman
ember-cli-numeral@0.2.0
URL: <http://github.com/josemarluedke/ember-cli-numeral>
VendorName: Jay Phelps
VendorUrl: <https://github.com/josemarluedke/ember-cli-numeral>
ember-cli-qunit@1.2.1
URL: <https://github.com/ember-cli/ember-cli-qunit.git>
VendorName: Jake Craige
VendorUrl: <https://github.com/ember-cli/ember-cli-qunit>
ember-cli-release@0.2.8
URL: <https://github.com/lytics/ember-cli-release.git>
VendorName: Steven Lindberg
ember-cli-sass@7.0.0
URL: <git://github.com/aexmachina/ember-cli-sass.git>
VendorName: @aexmachina
VendorUrl: <https://github.com/aexmachina/ember-cli-sass>
ember-cli-sri@1.2.1
URL: <https://github.com/jonathanKingston/ember-cli-sri>
VendorName: Jonathan Kingston
ember-cli-uglify@1.2.0
URL: <https://github.com/ember-cli/ember-cli-uglify.git>
ember-cli-version-checker@1.3.1
URL: <https://github.com/rwjblue/ember-cli-version-checker.git>
VendorName: Robert Jackson
VendorUrl: <https://github.com/rwjblue/ember-cli-version-checker>
ember-cli@1.13.14
URL: <https://github.com/ember-cli/ember-cli.git>
VendorName: Stefan Penner, Robert Jackson and ember-cli contributors
ember-d3@0.1.0
URL: <https://github.com/brzpegasus/ember-d3>
VendorName: Estelle DeBlois
ember-data@2.1.0
URL: <git://github.com/emberjs/data.git>
ember-disable-proxy-controllers@1.0.1
URL: <https://github.com/cibernox/ember-disable-proxy-controllers>
VendorName: Miguel Camba
ember-export-application-global@1.0.5
URL: <https://github.com/ember-cli/ember-export-application-global.git>
VendorName: Robert Jackson
VendorUrl: <https://github.com/ember-cli/ember-export-application-global>
ember-lodash@0.0.10
URL: <https://github.com/levanto-financial/ember-lodash.git>
VendorName: Mike North
VendorUrl: <https://github.com/levanto-financial/ember-lodash>

ember-qunit@0.4.24
URL: <https://github.com/rwjblue/ember-qunit.git>

ember-resolver@2.0.3
URL: [git+https://github.com/ember-cli/ember-resolver.git](https://github.com/ember-cli/ember-resolver.git)
VendorName: Robert Jackson
VendorUrl: <https://github.com/ember-cli/ember-resolver#readme>

ember-router-generator@1.2.3
URL: <https://github.com/ember-cli/ember-router-generator.git>
VendorName: Adolfo Builes
VendorUrl: <https://github.com/ember-cli/ember-router-generator>

ember-spin-spinner@0.2.3
URL: <https://github.com/rsshchermer/ember-spin-spinner>
VendorName: Roland Schermer
VendorUrl: <https://github.com/rsshchermer/ember-spin-spinner>

ember-truth-helpers@1.3.0
URL: <https://github.com/jmurphyau/ember-truth-helpers>
VendorName: James Murphy

ember-wormhole@0.3.6
URL: <https://github.com/yapplabs/ember-wormhole.git>
VendorName: Yapp Labs

encodeurl@1.0.2
URL: <https://github.com/pillarjs/encodeurl.git>

engine.io-parser@1.2.2
URL: [git@github.com:Automattic/engine.io-parser.git](https://github.com/Automattic/engine.io-parser.git)
VendorUrl: <https://github.com/Automattic/engine.io-parser>

engine.io-pure@1.5.9
URL: [git@github.com:Automattic/engine.io.git](https://github.com/Automattic/engine.io.git)
VendorName: Guillermo Rauch
VendorUrl: <https://github.com/LearnBoost/engine.io>

errno@0.1.7
URL: <https://github.com/rvagg/node-errno.git>

error-ex@1.3.2
URL: <https://github.com/qix-/node-error-ex.git>

es6-iterator@0.1.3
URL: [git://github.com/medikoo/es6-iterator.git](https://github.com/medikoo/es6-iterator.git)
VendorName: Mariusz Nowak
VendorUrl: <http://www.medikoo.com/>

es6-iterator@2.0.3
URL: [git://github.com/medikoo/es6-iterator.git](https://github.com/medikoo/es6-iterator.git)
VendorName: Mariusz Nowak
VendorUrl: <http://www.medikoo.com/>

es6-promise@4.0.5
URL: [git://github.com/stefanpenner/es6-promise.git](https://github.com/stefanpenner/es6-promise.git)
VendorName: Yehuda Katz, Tom Dale, Stefan Penner and contributors
VendorUrl: Conversion to ES6 API by Jake Archibald

es6-symbol@2.0.1
URL: [git://github.com/medikoo/es6-symbol.git](https://github.com/medikoo/es6-symbol.git)
VendorName: Mariusz Nowak

VendorUrl: <http://www.medikoo.com/>
es6-weak-map@0.1.4
URL: <git://github.com/medikoo/es6-weak-map.git>
VendorName: Mariusz Nowak
VendorUrl: <http://www.medikoo.com/>
escape-html@1.0.3
URL: <https://github.com/component/escape-html.git>
escape-string-regexp@1.0.5
URL: <https://github.com/sindresorhus/escape-string-regexp.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
etag@1.8.1
URL: <https://github.com/jshttp/etag.git>
event-emitter@0.3.5
URL: <git://github.com/medikoo/event-emitter.git>
VendorName: Mariusz Nowak
VendorUrl: <http://www.medikoo.com/>
eventemitter3@4.0.0
URL: <git://github.com/primus/eventemitter3.git>
VendorName: Arnout Kazemier
exec-sh@0.2.2
URL: <git://github.com:tsertkov/exec-sh.git>
VendorName: Aleksandr Tsertkov
exit@0.1.2
URL: <git://github.com/cowboy/node-exit.git>
VendorName: "Cowboy" Ben Alman
VendorUrl: <https://github.com/cowboy/node-exit>
expand-brackets@0.1.5
URL: <https://github.com/jonschlinkert/expand-brackets.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/expand-brackets>
expand-range@1.8.2
URL: <https://github.com/jonschlinkert/expand-range.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/expand-range>
express@4.17.1
URL: <https://github.com/expressjs/express.git>
VendorName: TJ Holowaychuk
VendorUrl: <http://expressjs.com/>
extend@3.0.2
URL: <https://github.com/justmoon/node-extend.git>
VendorName: Stefan Thomas
VendorUrl: <http://www.justmoon.net>
extglob@0.3.2
URL: <git://github.com/jonschlinkert/extglob.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/extglob>
extsprintf@1.3.0

URL: [git://github.com/davepacheco/node-extsprintf](https://github.com/davepacheco/node-extsprintf).git
extsprintf@1.4.0

URL: [git://github.com/davepacheco/node-extsprintf](https://github.com/davepacheco/node-extsprintf).git
fast-deep-equal@2.0.1

URL: [git+https://github.com/epoberezkin/fast-deep-equal](https://github.com/epoberezkin/fast-deep-equal).git
VendorName: Evgeny Poberezkin
VendorUrl: <https://github.com/epoberezkin/fast-deep-equal#readme>

fast-json-stable-stringify@2.1.0

URL: [git://github.com/epoberezkin/fast-json-stable-stringify](https://github.com/epoberezkin/fast-json-stable-stringify).git
VendorName: James Halliday
VendorUrl: <https://github.com/epoberezkin/fast-json-stable-stringify>

fast-sourcemap-concat@0.2.7

URL: <https://github.com/ef4/fast-sourcemap-concat>
VendorName: Edward Faulkner

faye-websocket@0.10.0

URL: [git://github.com/faye/faye-websocket-node](https://github.com/faye/faye-websocket-node).git
VendorName: James Coglan
VendorUrl: <http://github.com/faye/faye-websocket-node>

fd-slicer@1.0.1

URL: [git://github.com/andrewrk/node-fd-slicer](https://github.com/andrewrk/node-fd-slicer).git
VendorName: Andrew Kelley

filename-regex@2.0.1

URL: <https://github.com/regexhq/filename-regex>.git
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/regexhq/filename-regex>

fileset@0.2.1

URL: [git://github.com/mklabs/node-fileset](https://github.com/mklabs/node-fileset).git
VendorName: mklabs
VendorUrl: <https://github.com/mklabs/node-fileset>

fill-range@2.2.4

URL: <https://github.com/jonschlinkert/fill-range>.git
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/fill-range>

finalhandler@1.1.2

URL: <https://github.com/pillarjs/finalhandler>.git
VendorName: Douglas Christopher Wilson

find-up@1.1.2

URL: <https://github.com/sindresorhus/find-up>.git
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

findup-sync@0.2.1

URL: [git://github.com/cowboy/node-findup-sync](https://github.com/cowboy/node-findup-sync).git
VendorName: "Cowboy" Ben Alman
VendorUrl: <https://github.com/cowboy/node-findup-sync>

findup-sync@0.3.0

URL: [git://github.com/cowboy/node-findup-sync](https://github.com/cowboy/node-findup-sync).git
VendorName: "Cowboy" Ben Alman
VendorUrl: <https://github.com/cowboy/node-findup-sync>

findup@0.1.5
URL: <https://github.com/Filirom1/findup.git>
VendorName: Filirom1

fireworm@0.6.6
URL: <git@github.com:airportyh/fireworm.git>
VendorName: Toby Ho

follow-redirects@1.9.0
URL: <git@github.com:follow-redirects/follow-redirects.git>
VendorName: Ruben Verborgh
VendorUrl: <https://github.com/follow-redirects/follow-redirects>

for-in@1.0.2
URL: <https://github.com/jonschlinkert/for-in.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/for-in>

for-own@0.1.5
URL: <https://github.com/jonschlinkert/for-own.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/for-own>

form-data@1.0.1
URL: <git://github.com/form-data/form-data.git>
VendorName: Felix Geisendrfer
VendorUrl: <http://debuggable.com/>

form-data@2.1.4
URL: <git://github.com/form-data/form-data.git>
VendorName: Felix Geisendrfer
VendorUrl: <http://debuggable.com/>

form-data@2.3.3
URL: <git://github.com/form-data/form-data.git>
VendorName: Felix Geisendrfer
VendorUrl: <http://debuggable.com/>

forwarded@0.1.2
URL: <https://github.com/jshttp/forwarded.git>

fresh@0.5.2
URL: <https://github.com/jshttp/fresh.git>
VendorName: TJ Holowaychuk
VendorUrl: <http://tjholowaychuk.com>

fs-extra@0.16.5
URL: <https://github.com/jprichardson/node-fs-extra>
VendorName: JP Richardson
VendorUrl: <https://github.com/jprichardson/node-fs-extra>

fs-extra@0.22.1
URL: <https://github.com/jprichardson/node-fs-extra>
VendorName: JP Richardson
VendorUrl: <https://github.com/jprichardson/node-fs-extra>

fs-extra@0.24.0
URL: <https://github.com/jprichardson/node-fs-extra>
VendorName: JP Richardson
VendorUrl: <https://github.com/jprichardson/node-fs-extra>

fs-extra@0.30.0
URL: <https://github.com/jprichardson/node-fs-extra>
VendorName: JP Richardson
VendorUrl: <https://github.com/jprichardson/node-fs-extra>

fs-extra@5.0.0
URL: <https://github.com/jprichardson/node-fs-extra>
VendorName: JP Richardson
VendorUrl: <https://github.com/jprichardson/node-fs-extra>

fs-readdir-recursive@0.1.2
URL: <https://github.com/fs-utils/fs-readdir-recursive.git>
VendorName: Jonathan Ong
VendorUrl: <http://jongleberry.com>

fs-tree-diff@0.3.1
VendorName: Stefan Penner, David J. Hamilton, Chad Hietala

fs-tree-diff@0.4.4
VendorName: Stefan Penner, David J. Hamilton, Chad Hietala

fs-tree-diff@0.5.9
URL: <git://github.com/stefanpenner/fs-tree-diff.git>
VendorName: Stefan Penner, David J. Hamilton, Chad Hietala

gaze@1.1.3
URL: <https://github.com/shama/gaze.git>
VendorName: Kyle Robinson Young
VendorUrl: <https://github.com/shama/gaze>

generate-function@2.3.1
URL: <https://github.com/mafintosh/generate-function>
VendorName: Mathias Buus
VendorUrl: <https://github.com/mafintosh/generate-function>

generate-object-property@1.2.0
URL: <https://github.com/mafintosh/generate-object-property>
VendorName: Mathias Buus
VendorUrl: <https://github.com/mafintosh/generate-object-property>

get-stdin@4.0.1
URL: <https://github.com/sindresorhus/get-stdin.git>
VendorName: Sindre Sorhus
VendorUrl: <http://sindresorhus.com>

getpass@0.1.7
URL: <https://github.com/arekinath/node-getpass.git>
VendorName: Alex Wilson

git-repo-info@1.4.1
URL: <https://github.com/rwjblue/git-repo-info.git>
VendorName: Robert Jackson
VendorUrl: <https://github.com/rwjblue/git-repo-info>

git-repo-version@0.3.0
URL: <https://github.com/cibernox/git-repo-version>
VendorName: Miguel Camba

github-url-from-git@1.4.0
URL: <https://github.com/visionmedia/node-github-url-from-git.git>
VendorName: TJ Holwaychuk

glob-base@0.3.0
URL: [git://github.com/jonschlinkert/glob-base.git](https://github.com/jonschlinkert/glob-base.git)
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/glob-base>

globals@6.4.1
URL: <https://github.com/sindresorhus/globals.git>
VendorName: Sindre Sorhus
VendorUrl: <http://sindresorhus.com>

globule@1.3.0
URL: [git://github.com/cowboy/node-globule.git](https://github.com/cowboy/node-globule.git)
VendorName: "Cowboy" Ben Alman
VendorUrl: <https://github.com/cowboy/node-globule>

growl@1.10.5
URL: [git://github.com/tj/node-growl.git](https://github.com/tj/node-growl.git)
VendorName: TJ Holowaychuk

handlebars@3.0.7
URL: <https://github.com/wycats/handlebars.js.git>
VendorName: Yehuda Katz
VendorUrl: <http://www.handlebarsjs.com/>

har-validator@5.1.3
URL: <https://github.com/ahmadnassri/node-har-validator.git>
VendorName: Ahmad Nassri
VendorUrl: <https://github.com/ahmadnassri/node-har-validator>

has-ansi@0.1.0
URL: <https://github.com/sindresorhus/has-ansi.git>
VendorName: Sindre Sorhus
VendorUrl: <http://sindresorhus.com>

has-ansi@2.0.0
URL: <https://github.com/sindresorhus/has-ansi.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

has-binary@0.1.6
VendorName: Kevin Roark

has-color@0.1.7
URL: <https://github.com/sindresorhus/has-color.git>
VendorName: Sindre Sorhus
VendorUrl: <http://sindresorhus.com>

has-cors@1.1.0
URL: [git://github.com/component/has-cors.git](https://github.com/component/has-cors.git)
VendorName: Nathan Rajlich
VendorUrl: <http://n8.io/>

has-flag@3.0.0
URL: <https://github.com/sindresorhus/has-flag.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

hasha@2.2.0
URL: <https://github.com/sindresorhus/hasha.git>
VendorName: Sindre Sorhus

VendorUrl: sindresorhus.com
heimdalljs-logger@0.1.10
URL: git+https://github.com/heimdalljs/heimdalljs-logger.git
VendorName: David J. Hamilton
VendorUrl: https://github.com/heimdalljs/heimdalljs-logger#README.md
heimdalljs@0.2.6
URL: git+https://github.com/heimdalljs/heimdalljs-lib.git
VendorUrl: https://github.com/hjdivad/heimdalljs-lib#readme
home-or-tmp@1.0.0
URL: https://github.com/sindresorhus/home-or-tmp.git
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
htmlparser2@3.8.3
URL: git://github.com/fb55/htmlparser2.git
VendorName: Felix Boehm
http-errors@1.3.1
URL: https://github.com/jshttp/http-errors.git
VendorName: Jonathan Ong
VendorUrl: http://jongleberry.com
http-errors@1.7.2
URL: https://github.com/jshttp/http-errors.git
VendorName: Jonathan Ong
VendorUrl: http://jongleberry.com
http-errors@1.7.3
URL: https://github.com/jshttp/http-errors.git
VendorName: Jonathan Ong
VendorUrl: http://jongleberry.com
http-parser-js@0.4.10
URL: git://github.com/creationix/http-parser-js.git
VendorName: Tim Caswell
VendorUrl: https://github.com/creationix
http-proxy@1.18.0
URL: https://github.com/http-party/node-http-proxy.git
VendorName: Charlie Robbins
http-signature@0.11.0
URL: git://github.com/joyent/node-http-signature.git
VendorName: Joyent, Inc
VendorUrl: https://github.com/joyent/node-http-signature/
http-signature@1.1.1
URL: git://github.com/joyent/node-http-signature.git
VendorName: Joyent, Inc
VendorUrl: https://github.com/joyent/node-http-signature/
http-signature@1.2.0
URL: git://github.com/joyent/node-http-signature.git
VendorName: Joyent, Inc
VendorUrl: https://github.com/joyent/node-http-signature/
ic-ajax@2.0.2
URL: https://github.com/instructure/ic-ajax.git

VendorName: Ryan Florence
VendorUrl: <https://github.com/instructure/ic-ajax>
iconv-lite@0.4.13
URL: <git://github.com/ashtuchkin/iconv-lite.git>
VendorName: Alexander Shtuchkin
VendorUrl: <https://github.com/ashtuchkin/iconv-lite>
iconv-lite@0.4.24
URL: <git://github.com/ashtuchkin/iconv-lite.git>
VendorName: Alexander Shtuchkin
VendorUrl: <https://github.com/ashtuchkin/iconv-lite>
iferr@0.1.5
URL: <https://github.com/shesek/iferr>
VendorName: Nadav Ivgi
VendorUrl: <https://github.com/shesek/iferr>
image-size@0.5.5
URL: <https://github.com/image-size/image-size.git>
VendorName: netroy
VendorUrl: <http://netroy.in/>
imurmurhash@0.1.4
URL: <https://github.com/jensyt/imurmurhash-js>
VendorName: Jens Taylor
VendorUrl: <https://github.com/jensyt/imurmurhash-js>
include-path-searcher@0.1.0
URL: <https://github.com/joliss/include-path-searcher>
VendorName: Jo Liss
indent-string@2.1.0
URL: <https://github.com/sindresorhus/indent-string.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
inflection@1.12.0
URL: <https://github.com/dreamerslab/node.inflection.git>
VendorName: dreamerslab
inquirer@0.5.1
URL: <git://github.com/SBoudrias/Inquirer.js.git>
VendorName: Simon Boudrias
invert-kv@1.0.0
URL: <https://github.com/sindresorhus/invert-kv.git>
VendorName: Sindre Sorhus
VendorUrl: <http://sindresorhus.com>
ipaddr.js@1.9.0
URL: <git://github.com/whitequark/ipaddr.js>
VendorName: whitequark
is-arrayish@0.2.1
URL: <https://github.com/qix-/node-is-arrayish.git>
VendorName: Qix
VendorUrl: <http://github.com/qix->
is-buffer@1.1.6
URL: <git://github.com/feross/is-buffer.git>

VendorName: Feross Aboukhadijeh
VendorUrl: <http://feross.org/>
is-builtin-module@1.0.0
URL: <https://github.com/sindresorhus/is-builtin-module.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

is-dotfile@1.0.3
URL: <https://github.com/jonschlinkert/is-dotfile.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/is-dotfile>

is-equal-shallow@0.1.3
URL: [git://github.com/jonschlinkert/is-equal-shallow.git](https://github.com/jonschlinkert/is-equal-shallow.git)
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/is-equal-shallow>

is-extendable@0.1.1
URL: <https://github.com/jonschlinkert/is-extendable.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/is-extendable>

is-extglob@1.0.0
URL: <https://github.com/jonschlinkert/is-extglob.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/is-extglob>

is-finite@1.0.2
URL: <https://github.com/sindresorhus/is-finite.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

is-fullwidth-code-point@1.0.0
URL: <https://github.com/sindresorhus/is-fullwidth-code-point.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

is-fullwidth-code-point@2.0.0
URL: <https://github.com/sindresorhus/is-fullwidth-code-point.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

is-git-url@0.2.0
URL: [git://github.com/jonschlinkert/is-git-url.git](https://github.com/jonschlinkert/is-git-url.git)
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/is-git-url>

is-git-url@0.2.3
URL: <https://github.com/jonschlinkert/is-git-url.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/is-git-url>

is-glob@2.0.1
URL: <https://github.com/jonschlinkert/is-glob.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/is-glob>

is-my-ip-valid@1.0.0
URL: <https://github.com/LinusU/is-my-ip-valid.git>

is-my-json-valid@2.20.0
URL: <https://github.com/mafintosh/is-my-json-valid.git>

is-number@2.1.0
URL: <https://github.com/jonschlinkert/is-number.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/is-number>

is-number@4.0.0
URL: <https://github.com/jonschlinkert/is-number.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/is-number>

is-posix-bracket@0.1.1
URL: <https://github.com/jonschlinkert/is-posix-bracket.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/is-posix-bracket>

is-primitive@2.0.0
URL: <git://github.com/jonschlinkert/is-primitive.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/is-primitive>

is-property@1.0.2
URL: <git://github.com/mikolajsenko/is-property.git>
VendorName: Mikola Lysenko

is-stream@1.1.0
URL: <https://github.com/sindresorhus/is-stream.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

is-type@0.0.1
URL: <git://github.com/juliangruber/is-type.git>
VendorName: Julian Gruber
VendorUrl: <https://github.com/juliangruber/is-type>

is-typedarray@1.0.0
URL: <git://github.com/hughsk/is-typedarray.git>
VendorName: Hugh Kennedy
VendorUrl: <https://github.com/hughsk/is-typedarray>

is-utf8@0.2.1
URL: <https://github.com/wayfind/is-utf8.git>
VendorName: wayfind

isarray@0.0.1
URL: <git://github.com/juliangruber/isarray.git>
VendorName: Julian Gruber
VendorUrl: <https://github.com/juliangruber/isarray>

isarray@1.0.0
URL: <git://github.com/juliangruber/isarray.git>
VendorName: Julian Gruber
VendorUrl: <https://github.com/juliangruber/isarray>

isbinaryfile@2.0.4
URL: <https://github.com/gjtorikian/isBinaryFile>

isobject@2.1.0
URL: <https://github.com/jonschlinkert/isobject.git>

VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/isobject>
isstream@0.1.2
URL: <https://github.com/rvagg/isstream.git>
VendorName: Rod Vagg
VendorUrl: <https://github.com/rvagg/isstream>
istextorbinary@2.1.0
URL: <http://github.com/bevry/istextorbinary.git>
VendorName: 2012+ Bevry Pty Ltd
VendorUrl: <https://github.com/bevry/istextorbinary>
js-tokens@1.0.1
URL: <https://github.com/lydell/js-tokens.git>
VendorName: Simon Lydell
js-yaml@3.13.1
URL: <https://github.com/nodeca/js-yaml.git>
VendorName: Vladimir Zapparov
VendorUrl: <https://github.com/nodeca/js-yaml>
jsbn@0.1.1
URL: <https://github.com/andyperlitch/jsbn.git>
VendorName: Tom Wu
jsesc@0.5.0
URL: <https://github.com/mathiasbynens/jsesc.git>
VendorName: Mathias Bynens
VendorUrl: <http://mths.be/jsesc>
json-parse-better-errors@1.0.2
URL: <https://github.com/zkat/json-parse-better-errors>
VendorName: Kat Marchn
json-schema-traverse@0.4.1
URL: <git+https://github.com/epoberezkin/json-schema-traverse.git>
VendorName: Evgeny Poberezkin
VendorUrl: <https://github.com/epoberezkin/json-schema-traverse#readme>
json-stable-stringify@1.0.1
URL: <git://github.com/substack/json-stable-stringify.git>
VendorName: James Halliday
VendorUrl: <https://github.com/substack/json-stable-stringify>
json3@3.2.6
URL: <git://github.com/bestiejs/json3.git>
VendorName: Kit Cambridge
VendorUrl: <http://bestiejs.github.io/json3>
json5@0.4.0
URL: <https://github.com/aseemk/json5.git>
VendorName: Aseem Kishore
VendorUrl: <http://json5.org/>
jsonfile@2.4.0
URL: <git@github.com:jprichardson/node-jsonfile.git>
VendorName: JP Richardson
jsonfile@4.0.0
URL: <git@github.com:jprichardson/node-jsonfile.git>

VendorName: JP Richardson
jsonpointer@4.0.1
URL: <http://github.com/janl/node-jsonpointer.git>
VendorName: Jan Lehnardt
jsprim@1.4.1
URL: <git://github.com/joyent/node-jsprim.git>
kind-of@3.2.2
URL: <https://github.com/jonschlinkert/kind-of.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/kind-of>
kind-of@6.0.2
URL: <https://github.com/jonschlinkert/kind-of.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/kind-of>
klassy@0.1.3
URL: <https://github.com/cerebris/klassy.js.git>
klaw@1.3.1
URL: <git+https://github.com/jprichardson/node-klaw.git>
VendorName: JP Richardson
VendorUrl: <https://github.com/jprichardson/node-klaw#readme>
lazy-cache@1.0.4
URL: <https://github.com/jonschlinkert/lazy-cache.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/lazy-cache>
lcid@1.0.0
URL: <https://github.com/sindresorhus/lcid.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
leek@0.0.18
URL: <https://github.com/twokul/leek>
VendorName: Alex Navasardyan
VendorUrl: <http://twokul.io>
leven@1.0.2
URL: <https://github.com/sindresorhus/leven.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
linkify-it@1.2.4
URL: <https://github.com/markdown-it/linkify-it.git>
livereload-js@2.4.0
URL: <git://github.com/livereload/livereload-js.git>
VendorUrl: <https://github.com/livereload/livereload-js>
load-json-file@1.1.0
URL: <https://github.com/sindresorhus/load-json-file.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
loader.js@4.2.3
URL: <https://github.com/ember-cli/loader.js.git>
VendorUrl: <https://github.com/ember-cli/loader.js>

lodash-es@3.10.1
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/custom-builds>

lodash-node@2.4.1
URL: <https://github.com/lodash/lodash-node.git>
VendorName: John-David Dalton
VendorUrl: <http://lodash.com/custom-builds>

lodash-node@3.10.2
URL: <https://github.com/lodash/lodash-node.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>

lodash._arraycopy@3.0.0
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>

lodash._arrayeach@3.0.0
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>

lodash._baseassign@3.2.0
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>

lodash._basecallback@3.3.1
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>

lodash._basecopy@3.0.1
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>

lodash._basefor@3.0.3
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>

lodash._baseindexof@3.1.0
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>

lodash._baseisequal@3.0.7
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>

lodash._baseuniq@3.0.3
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>

lodash._bindcallback@3.0.1
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>

lodash._cacheindexof@3.0.2
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>

lodash._createassigner@3.1.1
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>

lodash._createcache@3.1.2
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>

lodash._getnative@3.9.1
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>

lodash._isiterateecall@3.0.9
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>

lodash.assign@3.2.0
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>

lodash.defaults@3.1.2
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>

lodash.isarguments@3.1.0
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>

lodash.isarray@3.0.4
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>

lodash.isplainobject@3.2.0
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>

lodash.istypedarray@3.0.6
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>

lodash.keys@3.1.2
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>

lodash.keysin@3.0.8
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>

lodash.merge@3.3.2
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>

lodash.merge@4.6.2
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>

lodash.pad@4.5.1
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>

lodash.padend@4.6.1
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>

lodash.padstart@4.6.1
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>

lodash.pairs@3.0.1
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>

lodash.restparam@3.6.1
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>

lodash.toplainobject@3.0.0
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>

lodash.uniq@3.2.2
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>

lodash@2.3.0
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <http://lodash.com/>

lodash@2.4.2
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <http://lodash.com/>

lodash@3.10.1
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>

lodash@4.17.15
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>

longest@1.0.1
URL: <https://github.com/jonschlinkert/longest.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/longest>

loud-rejection@1.6.0
URL: <https://github.com/sindresorhus/loud-rejection.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

lru-queue@0.1.0
URL: <git://github.com/medikoo/lru-queue.git>
VendorName: Mariusz Nowak
VendorUrl: <http://www.medikoo.com/>

make-array@0.1.2
URL: <git://github.com/kaelzhang/make-array.git>
VendorName: kael

map-obj@1.0.1
URL: <https://github.com/sindresorhus/map-obj.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

markdown-it-terminal@0.0.2
URL: <http://github.com/trabus/markdown-it-terminal>
VendorName: Jake Bixby
VendorUrl: <https://github.com/trabus/markdown-it-terminal>

markdown-it@4.3.0
URL: <https://github.com/markdown-it/markdown-it.git>
VendorUrl: <https://github.com/markdown-it/markdown-it>

markdown-it@4.4.0
URL: <https://github.com/markdown-it/markdown-it.git>
VendorUrl: <https://github.com/markdown-it/markdown-it>

math-random@1.0.4
URL: <https://github.com/michaelrhodes/math-random.git>
VendorName: Michael Rhodes

mdurl@1.0.1
URL: <https://github.com/markdown-it/mdurl.git>

media-typer@0.3.0
URL: <https://github.com/jshttp/media-typer.git>

VendorName: Douglas Christopher Wilson
memoizee@0.3.10
URL: git://github.com/medikoo/memoizee.git
VendorName: Mariusz Nowak
VendorUrl: http://www.medikoo.com/
meow@3.7.0
URL: https://github.com/sindresorhus/meow.git
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
merge-defaults@0.2.2
URL: git://github.com/mikermcneil/merge-defaults.git
VendorName: Mike McNeil
VendorUrl: https://github.com/mikermcneil/merge-defaults
merge-descriptors@1.0.1
URL: https://github.com/component/merge-descriptors.git
VendorName: Jonathan Ong
VendorUrl: http://jongleberry.com
merge-trees@1.0.1
URL: https://github.com/broccolijs/node-merge-trees
VendorName: Jo Liss
merge@1.2.1
URL: https://github.com/yeikos/js.merge.git
VendorName: yeikos
VendorUrl: https://github.com/yeikos/js.merge
methods@1.1.2
URL: https://github.com/jshttp/methods.git
micromatch@2.3.11
URL: https://github.com/jonschlinkert/micromatch.git
VendorName: Jon Schlinkert
VendorUrl: https://github.com/jonschlinkert/micromatch
mime-db@1.42.0
URL: https://github.com/jshttp/mime-db.git
mime-types@2.1.25
URL: https://github.com/jshttp/mime-types.git
mime@1.6.0
URL: https://github.com/broofa/node-mime
VendorName: Robert Kieffer
VendorUrl: http://github.com/broofa
minimatch@0.2.14
URL: git://github.com/isaacs/minimatch.git
VendorName: Isaac Z. Schlueter
VendorUrl: http://blog.izs.me
minimatch@1.0.0
URL: git://github.com/isaacs/minimatch.git
VendorName: Isaac Z. Schlueter
VendorUrl: http://blog.izs.me
minimist@0.0.10
URL: git://github.com/substack/minimist.git

VendorName: James Halliday
VendorUrl: <https://github.com/substack/minimist>
minimist@0.0.8
URL: <git://github.com/substack/minimist.git>
VendorName: James Halliday
VendorUrl: <https://github.com/substack/minimist>
minimist@1.2.0
URL: <git://github.com/substack/minimist.git>
VendorName: James Halliday
VendorUrl: <https://github.com/substack/minimist>
mkdirp@0.3.5
URL: <http://github.com/substack/node-mkdirp.git>
VendorName: James Halliday
VendorUrl: <http://substack.net>
mkdirp@0.4.2
URL: <https://github.com/substack/node-mkdirp.git>
VendorName: James Halliday
VendorUrl: <http://substack.net>
mkdirp@0.5.0
URL: <https://github.com/substack/node-mkdirp.git>
VendorName: James Halliday
VendorUrl: <http://substack.net>
mkdirp@0.5.1
URL: <https://github.com/substack/node-mkdirp.git>
VendorName: James Halliday
VendorUrl: <http://substack.net>
mktemp@0.3.5
URL: <git://github.com/sasaplus1/mktemp.git>
VendorName: sasa+1
mktemp@0.4.0
URL: <git://github.com/sasaplus1/mktemp.git>
VendorName: sasa+1
moment-timezone@0.3.1
URL: <https://github.com/moment/moment-timezone.git>
VendorName: Tim Wood
VendorUrl: <http://momentjs.com/timezone/>
moment@2.24.0
URL: <https://github.com/moment/moment.git>
VendorName: Iskren Ivov Chernev
VendorUrl: <http://momentjs.com/>
morgan@1.9.1
URL: <https://github.com/expressjs/morgan.git>
mout@0.9.1
URL: <git://github.com/mout/mout.git>
VendorUrl: <http://moutjs.com/>
ms@0.7.1
URL: <git://github.com/guille/ms.js.git>
ms@2.0.0

URL: <https://github.com/zeit/ms.git>
ms@2.1.1
URL: <https://github.com/zeit/ms.git>
ms@2.1.2
URL: <https://github.com/zeit/ms.git>
mustache@2.3.2
URL: <https://github.com/janl/mustache.js.git>
VendorName: mustache.js Authors
VendorUrl: <https://github.com/janl/mustache.js>
nan@2.14.0
URL: <git://github.com/nodejs/nan.git>
negotiator@0.6.2
URL: <https://github.com/jshttp/negotiator.git>
next-tick@0.2.2
URL: <git://github.com/medikoo/next-tick.git>
VendorName: Mariusz Nowak
VendorUrl: <http://www.medikoo.com/>
next-tick@1.0.0
URL: <git://github.com/medikoo/next-tick.git>
VendorName: Mariusz Nowak
VendorUrl: <http://www.medikoo.com/>
node-gyp@3.0.3
URL: <git://github.com/nodejs/node-gyp.git>
VendorName: Nathan Rajlich
VendorUrl: <http://tootallnate.net>
node-gyp@3.8.0
URL: <git://github.com/nodejs/node-gyp.git>
VendorName: Nathan Rajlich
VendorUrl: <http://tootallnate.net>
node-int64@0.4.0
URL: <https://github.com/broofa/node-int64>
VendorName: Robert Kieffer
node-sass@4.13.0
URL: <https://github.com/sass/node-sass>
VendorName: Andrew Nesbitt
VendorUrl: <https://github.com/sass/node-sass>
node-uuid@1.4.8
URL: <https://github.com/broofa/node-uuid.git>
VendorName: Robert Kieffer
VendorUrl: <https://github.com/broofa/node-uuid>
normalize-path@2.1.1
URL: <https://github.com/jonschlinkert/normalize-path.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/normalize-path>
number-is-nan@1.0.1
URL: <https://github.com/sindresorhus/number-is-nan.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

numeral@1.5.6
URL: <https://github.com/adamwdraper/Numeral-js>
VendorName: Adam Draper
VendorUrl: <http://numeraljs.com/>

object-assign@2.1.1
URL: <https://github.com/sindresorhus/object-assign.git>
VendorName: Sindre Sorhus
VendorUrl: <http://sindresorhus.com>

object-assign@3.0.0
URL: <https://github.com/sindresorhus/object-assign.git>
VendorName: Sindre Sorhus
VendorUrl: <http://sindresorhus.com>

object-assign@4.1.1
URL: <https://github.com/sindresorhus/object-assign.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

object-keys@1.0.1
URL: <git://github.com/ljharb/object-keys.git>
VendorName: Jordan Harband

object.omit@2.0.1
URL: <https://github.com/jonschlinkert/object.omit.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/object.omit>

on-finished@2.3.0
URL: <https://github.com/jshttp/on-finished.git>

on-headers@1.0.2
URL: <https://github.com/jshttp/on-headers.git>
VendorName: Douglas Christopher Wilson

optimist@0.6.1
URL: <http://github.com/substack/node-optimist.git>
VendorName: James Halliday
VendorUrl: <http://substack.net>

options@0.0.6
URL: <git://github.com/einaros/options.js.git>
VendorName: Einar Otto Stangvik
VendorUrl: <http://2x.io>

os-homedir@1.0.2
URL: <https://github.com/sindresorhus/os-homedir.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

os-locale@1.4.0
URL: <https://github.com/sindresorhus/os-locale.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

os-tmpdir@1.0.2
URL: <https://github.com/sindresorhus/os-tmpdir.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

output-file-sync@1.1.2
URL: <https://github.com/shinnn/output-file-sync.git>
VendorName: Shinnosuke Watanabe
VendorUrl: <https://github.com/shinnn>

parse-glob@3.0.4
URL: <https://github.com/jonschlinkert/parse-glob.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/parse-glob>

parse-json@2.2.0
URL: <https://github.com/sindresorhus/parse-json.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

parsejson@0.0.1

parseqs@0.0.2

parseuri@0.0.2

parseuri@0.0.4
URL: <https://github.com/get/parseuri.git>
VendorUrl: <https://github.com/get/parseuri>

parseurl@1.3.3
URL: <https://github.com/pillarjs/parseurl.git>

path-array@1.0.1
URL: <git://github.com/TooTallNate/node-path-array.git>
VendorName: Nathan Rajlich
VendorUrl: <https://github.com/TooTallNate/node-path-array>

path-exists@1.0.0
URL: <https://github.com/sindresorhus/path-exists.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

path-exists@2.1.0
URL: <https://github.com/sindresorhus/path-exists.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

path-is-absolute@1.0.1
URL: <https://github.com/sindresorhus/path-is-absolute.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

path-parse@1.0.6
URL: <https://github.com/jbgutierrez/path-parse.git>
VendorName: Javier Blanco
VendorUrl: <https://github.com/jbgutierrez/path-parse#readme>

path-root-regex@0.1.2
URL: <https://github.com/regexhq/path-root-regex.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/regexhq/path-root-regex>

path-root@0.1.1
URL: <https://github.com/jonschlinkert/path-root.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/path-root>

path-to-regexp@0.1.7
URL: <https://github.com/component/path-to-regexp.git>

path-type@1.1.0
URL: <https://github.com/sindresorhus/path-type.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

pend@1.2.0
URL: <git://github.com/andrewrk/node-pend.git>
VendorName: Andrew Kelley

performance-now@0.2.0
URL: <git://github.com/meryn/performance-now.git>
VendorName: Meryn Stol
VendorUrl: <https://github.com/meryn/performance-now>

performance-now@2.1.0
URL: <git://github.com/braveg1rl/performance-now.git>
VendorName: Braveg1rl
VendorUrl: <https://github.com/braveg1rl/performance-now>

pify@2.3.0
URL: <https://github.com/sindresorhus/pify.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

pinkie-promise@2.0.1
URL: <https://github.com/floatdrop/pinkie-promise.git>
VendorName: Vsevolod Strukchinsky
VendorUrl: github.com/floatdrop

pinkie@2.0.4
URL: <https://github.com/floatdrop/pinkie.git>
VendorName: Vsevolod Strukchinsky
VendorUrl: github.com/floatdrop

portfinder@0.4.0
URL: <git@github.com:indexzero/node-portfinder.git>
VendorName: Charlie Robbins

preserve@0.2.0
URL: <git://github.com/jonschlinkert/preserve.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/preserve>

private@0.1.8
URL: <git://github.com/benjamn/private.git>
VendorName: Ben Newman
VendorUrl: <http://github.com/benjamn/private>

process-nextick-args@1.0.7
URL: <https://github.com/calvinmetcalf/process-nextick-args.git>
VendorUrl: <https://github.com/calvinmetcalf/process-nextick-args>

process-nextick-args@2.0.1
URL: <https://github.com/calvinmetcalf/process-nextick-args.git>
VendorUrl: <https://github.com/calvinmetcalf/process-nextick-args>

progress@1.1.8
URL: <git://github.com/visionmedia/node-progress>

VendorName: TJ Holowaychuk
promise-map-series@0.2.3
URL: <https://github.com/joliss/promise-map-series>
VendorName: Jo Liss
promise@7.3.1
URL: <https://github.com/then/promise.git>
VendorName: ForbesLindesay
proxy-addr@2.0.5
URL: <https://github.com/jshttp/proxy-addr.git>
VendorName: Douglas Christopher Wilson
pr@1.0.1
URL: <https://github.com/rvagg/pr.git>
VendorName: Rod Vagg
VendorUrl: <https://github.com/rvagg/pr>
psl@1.6.0
URL: <git@github.com:lupomontero/psl.git>
VendorName: Lupo Montero
VendorUrl: <https://lupomontero.com/>
punycode@1.4.1
URL: <https://github.com/bestiejs/punycode.js.git>
VendorName: Mathias Bynens
VendorUrl: <https://mths.be/punycode>
punycode@2.1.1
URL: <https://github.com/bestiejs/punycode.js.git>
VendorName: Mathias Bynens
VendorUrl: <https://mths.be/punycode>
q@1.5.1
URL: <git://github.com/kriskowal/q.git>
VendorName: Kris Kowal
VendorUrl: <https://github.com/kriskowal/q>
quick-temp@0.1.3
URL: <https://github.com/joliss/node-quick-temp>
VendorName: Jo Liss
quick-temp@0.1.8
URL: <https://github.com/joliss/node-quick-temp>
VendorName: Jo Liss
qunitjs@1.23.1
URL: <git://github.com/jquery/qunit.git>
VendorName: jQuery Foundation and other contributors
VendorUrl: <https://qunitjs.com/>
randomatic@3.1.1
URL: <https://github.com/jonschlinkert/randomatic.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/randomatic>
range-parser@1.2.1
URL: <https://github.com/jshttp/range-parser.git>
VendorName: TJ Holowaychuk
VendorUrl: <http://tjholowaychuk.com>

raw-body@2.1.7
URL: <https://github.com/stream-utils/raw-body.git>
VendorName: Jonathan Ong
VendorUrl: <http://jongleberry.com>

raw-body@2.4.0
URL: <https://github.com/stream-utils/raw-body.git>
VendorName: Jonathan Ong
VendorUrl: <http://jongleberry.com>

read-pkg-up@1.0.1
URL: <https://github.com/sindresorhus/read-pkg-up.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

read-pkg@1.1.0
URL: <https://github.com/sindresorhus/read-pkg.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

readable-stream@1.1.13
URL: <git://github.com/isaacs/readable-stream>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

readable-stream@1.1.14
URL: <git://github.com/isaacs/readable-stream>
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

readable-stream@2.0.6
URL: <git://github.com/nodejs/readable-stream>

readable-stream@2.3.6
URL: <git://github.com/nodejs/readable-stream>

readline2@0.1.1
URL: <https://github.com/SBoudrias/readline2.git>
VendorName: Simon Boudrias

recast@0.10.33
URL: <git://github.com/benjamn/recast.git>
VendorName: Ben Newman
VendorUrl: <http://github.com/benjamn/recast>

recast@0.10.43
URL: <git://github.com/benjamn/recast.git>
VendorName: Ben Newman
VendorUrl: <http://github.com/benjamn/recast>

recast@0.11.23
URL: <git://github.com/benjamn/recast.git>
VendorName: Ben Newman
VendorUrl: <http://github.com/benjamn/recast>

redent@1.0.0
URL: <https://github.com/sindresorhus/redent.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

redeyed@0.5.0

URL: [git://github.com/thlorenz/redeyed.git](https://github.com/thlorenz/redeyed.git)
VendorName: Thorsten Lorenz
VendorUrl: thlorenz.com

regenerate@1.4.0
URL: <https://github.com/mathiasbynens/regenerate.git>
VendorName: Mathias Bynens
VendorUrl: <https://mths.be/regenerate>

regex-cache@0.4.4
URL: <https://github.com/jonschlinkert/regex-cache.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/regex-cache>

regexpu@1.3.0
URL: <https://github.com/mathiasbynens/regexpu.git>
VendorName: Mathias Bynens
VendorUrl: <https://mths.be/regexpu>

regjsgen@0.2.0
URL: <https://github.com/d10/regjsgen.git>
VendorName: Benjamin Tan
VendorUrl: <https://github.com/d10/regjsgen>

repeat-element@1.1.3
URL: <https://github.com/jonschlinkert/repeat-element.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/repeat-element>

repeat-string@1.6.1
URL: <https://github.com/jonschlinkert/repeat-string.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/repeat-string>

repeating@1.1.3
URL: <https://github.com/sindresorhus/repeating.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

repeating@2.0.1
URL: <https://github.com/sindresorhus/repeating.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

request-progress@2.0.1
URL: [git://github.com/IndigoUnited/node-request-progress](https://github.com/IndigoUnited/node-request-progress)
VendorName: IndigoUnited
VendorUrl: <http://indigounited.com>

require-directory@2.1.1
URL: [git://github.com/troygoode/node-require-directory.git](https://github.com/troygoode/node-require-directory.git)
VendorName: Troy Goode
VendorUrl: <https://github.com/troygoode/node-require-directory/>

requires-port@1.0.0
URL: <https://github.com/unshiftio/requires-port>
VendorName: Arnout Kazemier
VendorUrl: <https://github.com/unshiftio/requires-port>

resolve-package-path@1.2.7

resolve@1.14.1
URL: [git://github.com/browserify/resolve.git](https://github.com/browserify/resolve.git)
VendorName: James Halliday
VendorUrl: <http://substack.net>

retry@0.8.0
URL: [git://github.com/tim-kos/node-retry.git](https://github.com/tim-kos/node-retry.git)
VendorName: Tim Koschitzki
VendorUrl: <https://github.com/tim-kos/node-retry>

right-align@0.1.3
URL: [git://github.com/jonschlinkert/right-align.git](https://github.com/jonschlinkert/right-align.git)
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/right-align>

rimraf@2.2.8
URL: [git://github.com/isaacs/rimraf.git](https://github.com/isaacs/rimraf.git)
VendorName: Isaac Z. Schlueter
VendorUrl: <http://blog.izs.me/>

rsvp@3.0.21
URL: <https://github.com/tildeio/rsvp.js.git>
VendorName: Tilde, Inc. & Stefan Penner

rsvp@3.2.1
URL: <https://github.com/tildeio/rsvp.js.git>
VendorName: Tilde, Inc. & Stefan Penner

rsvp@3.6.2
URL: <https://github.com/tildeio/rsvp.js.git>
VendorName: Tilde, Inc. & Stefan Penner

rsvp@4.8.5
URL: <https://github.com/tildeio/rsvp.js.git>
VendorName: Tilde, Inc. & Stefan Penner
VendorUrl: <https://github.com/tildeio/rsvp.js>

safe-buffer@5.1.2
URL: [git://github.com/feross/safe-buffer.git](https://github.com/feross/safe-buffer.git)
VendorName: Feross Aboukhadijeh
VendorUrl: <https://github.com/feross/safe-buffer>

safe-buffer@5.2.0
URL: [git://github.com/feross/safe-buffer.git](https://github.com/feross/safe-buffer.git)
VendorName: Feross Aboukhadijeh
VendorUrl: <https://github.com/feross/safe-buffer>

safer-buffer@2.1.2
URL: [git+https://github.com/ChALkeR/safer-buffer.git](https://github.com/ChALkeR/safer-buffer.git)
VendorName: Nikita Skovoroda
VendorUrl: <https://github.com/ChALkeR>

sane@1.7.0
URL: <https://github.com/amasad/sane>
VendorName: amasad
VendorUrl: <https://github.com/amasad/sane>

sass-graph@2.2.4
URL: <https://github.com/xzyfer/sass-graph.git>
VendorName: xzyfer

scss-tokenizer@0.2.3
URL: <https://github.com/sasstools/scss-tokenizer.git>
VendorName: xzyfer
VendorUrl: <https://github.com/sasstools/scss-tokenizer>

select2@4.0.0
URL: <git://github.com/select2/select2.git>
VendorName: Kevin Brown
VendorUrl: <https://select2.github.io/>

send@0.17.1
URL: <https://github.com/pillarjs/send.git>
VendorName: TJ Holowaychuk

serve-static@1.14.1
URL: <https://github.com/expressjs/serve-static.git>
VendorName: Douglas Christopher Wilson

shebang-regex@1.0.0
URL: <https://github.com/sindresorhus/shebang-regex.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

simple-fmt@0.1.0
URL: <https://github.com/olov/simple-fmt.git>
VendorName: Olov Lassus

simple-is@0.2.0
URL: <https://github.com/olov/simple-is.git>
VendorName: Olov Lassus

slash@1.0.0
URL: <https://github.com/sindresorhus/slash.git>
VendorName: Sindre Sorhus
VendorUrl: <http://sindresorhus.com>

socket.io-client-pure@1.3.12
URL: <https://github.com/Automattic/socket.io-client.git>

socket.io-parser@2.2.2
URL: <https://github.com/Automattic/socket.io-parser.git>

socket.io-parser@2.2.4
URL: <https://github.com/Automattic/socket.io-parser.git>

socket.io-pure@1.3.12
URL: <git://github.com/Automattic/socket.io>

source-map-support@0.2.10
URL: <https://github.com/evanw/node-source-map-support>

source-map-url@0.3.0
URL: <https://github.com/lydell/source-map-url.git>
VendorName: Simon Lydell

spawnback@1.0.0
URL: <git://github.com/scottgonzalez/spawnback.git>
VendorName: Scott Gonzlez
VendorUrl: <https://github.com/scottgonzalez/spawnback>

spdx-expression-parse@3.0.0
URL: <https://github.com/jslicense/spdx-expression-parse.js.git>
VendorName: Kyle E. Mitchell

VendorUrl: <http://kemitchell.com>
sri-toolbox@0.2.0
URL: <https://github.com/neftaly/npm-sri-toolbox.git>
VendorName: Neftaly Hernandez
sshpk@1.16.1
URL: <git+https://github.com/joyent/node-sshpk.git>
VendorName: Joyent, Inc
VendorUrl: <https://github.com/arekinath/node-sshpk#readme>
stable@0.1.8
URL: <https://github.com/Two-Screen/stable.git>
VendorName: Angry Bytes
statuses@1.5.0
URL: <https://github.com/jshttp/statuses.git>
stdout-stream@1.4.1
URL: <https://github.com/mafintosh/stdout-stream.git>
string_decoder@0.10.31
URL: git://github.com/rvagg/string_decoder.git
VendorUrl: https://github.com/rvagg/string_decoder
string_decoder@1.1.1
URL: git://github.com/nodejs/string_decoder.git
VendorUrl: https://github.com/nodejs/string_decoder
string-width@1.0.2
URL: <https://github.com/sindresorhus/string-width.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
string-width@2.1.1
URL: <https://github.com/sindresorhus/string-width.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
string.prototype.endsWith@0.2.0
URL: <https://github.com/mathiasbynens/String.prototype.endsWith.git>
VendorName: Mathias Bynens
VendorUrl: <http://mths.be/endsWith>
stringmap@0.2.2
URL: <https://github.com/olov/stringmap.git>
VendorName: Olov Lassus
stringset@0.2.1
URL: <https://github.com/olov/stringset.git>
VendorName: Olov Lassus
stringstream@0.0.6
URL: <https://github.com/mhart/StringStream.git>
VendorName: Michael Hart
VendorUrl: <http://github.com/mhart>
strip-ansi@0.1.1
URL: <https://github.com/sindresorhus/strip-ansi.git>
VendorName: Sindre Sorhus
VendorUrl: <http://sindresorhus.com>
strip-ansi@0.3.0

URL: <https://github.com/sindresorhus/strip-ansi.git>
VendorName: Sindre Sorhus
VendorUrl: <http://sindresorhus.com>
strip-ansi@2.0.1
URL: <https://github.com/sindresorhus/strip-ansi.git>
VendorName: Sindre Sorhus
VendorUrl: <http://sindresorhus.com>
strip-ansi@3.0.1
URL: <https://github.com/chalk/strip-ansi.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
strip-ansi@4.0.0
URL: <https://github.com/chalk/strip-ansi.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
strip-bom@2.0.0
URL: <https://github.com/sindresorhus/strip-bom.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
strip-indent@1.0.1
URL: <https://github.com/sindresorhus/strip-indent.git>
VendorName: Sindre Sorhus
VendorUrl: <http://sindresorhus.com>
strip-json-comments@1.0.4
URL: <https://github.com/sindresorhus/strip-json-comments.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
styled_string@0.0.1
VendorName: Toby Ho
supports-color@0.2.0
URL: <https://github.com/sindresorhus/supports-color.git>
VendorName: Sindre Sorhus
VendorUrl: <http://sindresorhus.com>
supports-color@2.0.0
URL: <https://github.com/chalk/supports-color.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
supports-color@5.5.0
URL: <https://github.com/chalk/supports-color.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
symlink-or-copy@1.3.1
URL: <https://github.com/broccolijs/node-symlink-or-copy>
VendorName: Jo Liss
tap-parser@1.3.2
URL: [git://github.com/substack/tap-parser.git](https://github.com/substack/tap-parser.git)
VendorName: James Halliday
VendorUrl: <https://github.com/substack/tap-parser>

temp@0.8.1
URL: [git://github.com/bruce/node-temp.git](https://github.com/bruce/node-temp.git)
VendorName: Bruce Williams

testem@0.9.11
URL: [git://github.com/airportyh/testem.git](https://github.com/airportyh/testem.git)
VendorName: Toby Ho

text-table@0.2.0
URL: [git://github.com/substack/text-table.git](https://github.com/substack/text-table.git)
VendorName: James Halliday
VendorUrl: <https://github.com/substack/text-table>

textextensions@2.6.0
URL: <https://github.com/bevry/textextensions.git>
VendorName: 2013+ Bevry Pty Ltd
VendorUrl: <https://github.com/bevry/textextensions>

throttleit@1.0.0
URL: [git://github.com/component/throttle.git](https://github.com/component/throttle.git)

through@2.3.8
URL: <https://github.com/dominictarr/through.git>
VendorName: Dominic Tarr
VendorUrl: <https://github.com/dominictarr/through>

tiny-lr@0.2.0
URL: [git://github.com/mklabs/tiny-lr.git](https://github.com/mklabs/tiny-lr.git)
VendorName: mklabs
VendorUrl: <https://github.com/mklabs/tiny-lr>

tmp@0.0.28
URL: [git://github.com/raszi/node-tmp.git](https://github.com/raszi/node-tmp.git)
VendorName: KARASZI Istvn
VendorUrl: <http://github.com/raszi/node-tmp>

to-array@0.1.3
URL: [git://github.com/Raynos/to-array.git](https://github.com/Raynos/to-array.git)
VendorName: Raynos
VendorUrl: <https://github.com/Raynos/to-array>

to-fast-properties@1.0.3
URL: <https://github.com/sindresorhus/to-fast-properties.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

toidentifier@1.0.0
URL: <https://github.com/component/toidentifier.git>
VendorName: Douglas Christopher Wilson

trim-newlines@1.0.0
URL: <https://github.com/sindresorhus/trim-newlines.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

trim-right@1.0.1
URL: <https://github.com/sindresorhus/trim-right.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

try-resolve@1.0.1

URL: <https://github.com/sebmck/try-resolve.git>
VendorName: Sebastian McKenzie
tryor@0.1.2
URL: <https://github.com/olov/tryor.git>
VendorName: Olov Lassus
type-is@1.6.18
URL: <https://github.com/jshttp/type-is.git>
typedarray@0.0.6
URL: <git://github.com/substack/typedarray.git>
VendorName: James Halliday
VendorUrl: <https://github.com/substack/typedarray>
uc.micro@1.0.6
URL: <https://github.com/markdown-it/uc.micro.git>
uglify-to-browserify@1.0.2
URL: <https://github.com/ForbesLindesay/uglify-to-browserify.git>
VendorName: ForbesLindesay
ultron@1.0.2
URL: <https://github.com/unshiftio/ultron>
VendorName: Arnout Kazemier
VendorUrl: <https://github.com/unshiftio/ultron>
umask@1.1.0
URL: <https://github.com/smikes/umask.git>
VendorName: Sam Mikes
VendorUrl: <https://github.com/smikes/umask>
underscore.string@2.3.3
URL: <https://github.com/epeli/underscore.string.git>
VendorUrl: <http://epeli.github.com/underscore.string/>
underscore.string@3.3.5
URL: <https://github.com/epeli/underscore.string.git>
VendorUrl: <http://epeli.github.com/underscore.string/>
underscore@1.9.1
URL: <git://github.com/jashkenas/underscore.git>
VendorName: Jeremy Ashkenas
VendorUrl: <http://underscorejs.org/>
universalify@0.1.2
URL: <git+https://github.com/RyanZim/universalify.git>
VendorName: Ryan Zimmerman
VendorUrl: <https://github.com/RyanZim/universalify#readme>
unpipe@1.0.0
URL: <https://github.com/stream-utils/unpipe.git>
VendorName: Douglas Christopher Wilson
user-home@1.1.1
URL: <https://github.com/sindresorhus/user-home.git>
VendorName: Sindre Sorhus
VendorUrl: <http://sindresorhus.com>
username-sync@1.0.2
URL: <git@github.com:stefanpenner/username-sync>
VendorName: Stefan Penner

utf8@2.1.0
URL: <https://github.com/mathiasbynens/utf8.js.git>
VendorName: Mathias Bynens
VendorUrl: <https://mths.be/utf8js>

util-deprecate@1.0.2
URL: <git://github.com/TooTallNate/util-deprecate.git>
VendorName: Nathan Rajlich
VendorUrl: <https://github.com/TooTallNate/util-deprecate>

util-extend@1.0.3
URL: <git://github.com/isaacs/util-extend>

utils-merge@1.0.1
URL: <git://github.com/jaredhanson/utils-merge.git>
VendorName: Jared Hanson
VendorUrl: <http://www.jaredhanson.net/>

uuid@2.0.3
URL: <https://github.com/defunctzombie/node-uuid.git>
VendorName: Robert Kieffer

uuid@3.3.3
URL: <https://github.com/kelektiv/node-uuid.git>

vary@1.1.2
URL: <https://github.com/jshttp/vary.git>
VendorName: Douglas Christopher Wilson

verror@1.10.0
URL: <git://github.com/davepacheco/node-verror.git>

walk-sync@0.1.3
URL: <https://github.com/joliss/node-walk-sync>
VendorName: Jo Liss

walk-sync@0.2.7
URL: <https://github.com/joliss/node-walk-sync>
VendorName: Jo Liss

walk-sync@0.3.4
URL: <https://github.com/joliss/node-walk-sync>
VendorName: Jo Liss

wcwidth@1.0.1
URL: <git+https://github.com/timoxley/wcwidth.git>
VendorName: Tim Oxley
VendorUrl: <https://github.com/timoxley/wcwidth#readme>

websocket-extensions@0.1.3
URL: <git://github.com/faye/websocket-extensions-node.git>
VendorName: James Coglan
VendorUrl: <http://github.com/faye/websocket-extensions-node>

window-size@0.1.0
URL: <https://github.com/jonschlinkert/window-size.git>
VendorName: Jon Schlinkert
VendorUrl: <https://github.com/jonschlinkert/window-size>

window-size@0.1.4
URL: <https://github.com/jonschlinkert/window-size.git>
VendorName: Jon Schlinkert

VendorUrl: <https://github.com/jonschlinkert/window-size>
wordwrap@0.0.2
URL: <git://github.com/substack/node-wordwrap.git>
VendorName: James Halliday
VendorUrl: <http://substack.net>

wordwrap@0.0.3
URL: <git://github.com/substack/node-wordwrap.git>
VendorName: James Halliday
VendorUrl: <http://substack.net>

wrap-ansi@2.1.0
URL: <https://github.com/chalk/wrap-ansi.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

ws-pure@0.8.0
URL: <git://github.com/patocallaghan/ws.git>
VendorName: Pat O'Callaghan

xdg-basedir@2.0.0
URL: <https://github.com/sindresorhus/xdg-basedir.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

xmlhttprequest-ssl@1.5.1
URL: <git://github.com/mjwwit/node-XMLHttpRequest.git>
VendorName: Michael de Wit

xtend@4.0.2
URL: <git://github.com/Raynos/xtend.git>
VendorName: Raynos
VendorUrl: <https://github.com/Raynos/xtend>

yam@0.0.18
URL: <https://github.com/twokul/yam>
VendorName: Alex Navasardyan
VendorUrl: <http://twokul.io>

yargs@3.10.0
URL: <http://github.com/bcoe/yargs.git>
VendorName: Alex Ford
VendorUrl: <http://CodeTunnel.com>

yargs@3.27.0
URL: <http://github.com/bcoe/yargs.git>
VendorName: Alex Ford
VendorUrl: <http://CodeTunnel.com>

yargs@7.1.0
URL: <http://github.com/yargs/yargs.git>
VendorUrl: <http://yargs.js.org/>

yauzl@2.4.1
URL: <https://github.com/thejoshwolfe/yauzl.git>
VendorName: Josh Wolfe
VendorUrl: <https://github.com/thejoshwolfe/yauzl>

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after@0.8.1

URL: [git://github.com/Raynos/after.git](https://github.com/Raynos/after.git)
VendorName: Raynos
assert-plus@0.1.5
URL: <https://github.com/mcavage/node-assert-plus.git>
VendorName: Mark Cavage
async-foreach@0.1.3
URL: [git://github.com/cowboy/javascript-sync-async-foreach.git](https://github.com/cowboy/javascript-sync-async-foreach.git)
VendorName: "Cowboy" Ben Alman
VendorUrl: <http://github.com/cowboy/javascript-sync-async-foreach>
blob@0.0.4
URL: [git@github.com:rase-/blob.git](https://github.com/rase-/blob.git)
VendorUrl: <https://github.com/rase-/blob>
callsite@1.0.0
VendorName: TJ Holowaychuk
component-bind@1.0.0
URL: <https://github.com/component/bind.git>
component-emitter@1.1.2
URL: <https://github.com/component/emitter.git>
component-inherit@0.0.3
URL: <https://github.com/component/inherit.git>
engine.io-client-pure@1.5.9
URL: <https://github.com/Automattic/engine.io-client.git>
VendorUrl: <http://socket.io/>
git-tools@0.1.4
URL: [git://github.com/scottgonzalez/node-git-tools.git](https://github.com/scottgonzalez/node-git-tools.git)
VendorName: Scott Gonzlez
VendorUrl: <https://github.com/scottgonzalez/node-git-tools>
indexof@0.0.1
ms@0.6.2
URL: [git://github.com/guille/ms.js.git](https://github.com/guille/ms.js.git)
object-component@0.0.3
socket.io-adapter@0.3.1
URL: [git://github.com/Automattic/socket.io-adapter.git](https://github.com/Automattic/socket.io-adapter.git)
Public Domain
jsonify@0.0.0
URL: <http://github.com/substack/jsonify.git>
VendorName: Douglas Crockford
VendorUrl: <http://crockford.com/>
SEE LICENSE IN LICENSE
sntp@1.0.9
URL: [git://github.com/hueniverse/sntp](https://github.com/hueniverse/sntp)
VendorName: Eran Hammer
VendorUrl: <http://hueniverse.com>
UNKNOWN
base64id@0.1.0
URL: <https://github.com/faeldt/base64id.git>
VendorName: Kristian Faeldt
colors@0.6.2

URL: <http://github.com/Marak/colors.js.git>
VendorName: Marak Squires
VendorUrl: <https://github.com/Marak/colors.js>

Unlicense

spdx-license-ids@1.2.2
URL: <https://github.com/shinnn/spdx-license-ids.git>
VendorName: Shinnosuke Watanabe
VendorUrl: <https://github.com/shinnn>

tweetnacl@0.14.5
URL: <https://github.com/dchest/tweetnacl-js.git>
VendorName: TweetNaCl-js contributors
VendorUrl: <https://tweetnacl.js.org/>

WTFPL

sorted-object@1.0.0
URL: <git://github.com/domenic/sorted-object.git>
VendorName: Domenic Denicola
VendorUrl: <http://domenic.me/>

WTFPL OR ISC

is-integer@1.0.7
URL: <git://github.com:parshap/js-is-integer>
VendorName: Parsha Pourkhomami

Done in 0.84s.

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src/test/resources/CSVFileParser/test_default.txt

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src/test/resources/CSVFileParser/test_rfc4180.txt

src/test/resources/CSVFileParser/test_rfc4180_trim.txt

src/test/resources/CSVFileParser/testCSV85.csv

src/test/resources/CSVFileParser/testCSV85_default.txt

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* org.eclipse.jetty.orbit:javafx.mail.glassfish

Oracle

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

* javax.servlet:javax.servlet-api

* javax.annotation:javax.annotation-api

* javax.transaction:javax.transaction-api

* javax.websocket:javax.websocket-api

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* java.sun.security.ssl

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<http://openjdk.java.net/legal/gplv2+ce.html>

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org.ow2.asm:asm-commons

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org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper

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org.apache.tomcat:tomcat-jsp-api

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org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan

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org.eclipse.jetty.toolchain:jetty-schemas

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jaxb-api

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Zstd-jni: JNI bindings to Zstd Library

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LZ4 - Fast LZ compression algorithm

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hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/datanode/checker/AbstractFuture.java
hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/datanode/checker/TimeoutFuture.java

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hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-client-nativetask/src/main/native/lz4/lz4.{c|h}
hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/native/container-executor/impl/compat/{fstatat|openat|unlinkat}.h

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hadoop-common-project/hadoop-common/src/main/java/org/apache/hadoop/util/bloom/*
hadoop-common-project/hadoop-common/src/main/native/gtest/gtest-all.cc

hadoop-common-project/hadoop-common/src/main/native/gtest/include/gtest/gtest.h
hadoop-common-project/hadoop-common/src/main/native/src/org/apache/hadoop/util/bulk_crc32_x86.c
hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/libhdfspp/third_party/protobuf/cpp_helpers.h
hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/libhdfspp/third_party/gmock-1.7.0/*/*.{cc|h}
hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/d3.v3.js
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/d3-v4.1.1.min.js

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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dataTables.bootstrap.css
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dataTables.bootstrap.js
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dust-full-2.0.0.min.js
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dust-helpers-1.1.1.min.js
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/jquery-3.5.1.min.js
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/jquery.dataTables.min.js
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/moment.min.js
hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/bootstrap.min.js
hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/jquery.js
hadoop-tools/hadoop-sls/src/main/html/css/bootstrap.min.css
hadoop-tools/hadoop-sls/src/main/html/css/bootstrap-responsive.min.css
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-applications/hadoop-yarn-applications-catalog/hadoop-yarn-applications-catalog-webapp/node_modules/.bin/r.js
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/dt-1.10.18/*
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/jquery
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/jt/jquery.jstree.js
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/resources/TERMINAL

uriparser2 (hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/libhdfspp/third_party/uriparser2)
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/native/container-executor/impl/utils/cJSON.[ch]

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asio-1.10.2 (hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/libhdfspp/third_party/asio-1.10.2)
rapidxml-1.13 (hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/libhdfspp/third_party/rapidxml-1.13)
tr2 (hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/libhdfspp/third_party/tr2)

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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/json-bignum.js
For portions of the native implementation of slicing-by-8 CRC calculation
in src/main/native/src/org/apache/hadoop/util:

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*

* Abstract: The main routine

*

--*/

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VendorName: Christian Hoffmeister

VendorUrl: <https://github.com/choffmeister/roboto-fontface-bower>

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URL: <git://github.com/fb55/entities.git>

VendorName: Felix Boehm

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URL: <git://github.com/arturadib/shelljs.git>

VendorName: Artur Adib

VendorUrl: <http://github.com/arturadib/shelljs>

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URL: <https://github.com/alexexi/sprintf.js.git>

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VendorName: Isaac Z. Schlueter

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URL: <git://github.com/isaacs/node-glob.git>

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URL: <git@github.com:colorjs/color-name.git>
VendorName: DY
VendorUrl: <https://github.com/colorjs/color-name>
color-string@1.5.3
URL: <https://github.com/Qix-/color-string.git>
VendorName: Heather Arthur
color@3.0.0
URL: <https://github.com/Qix-/color.git>
colornames@1.1.1
URL: <git://github.com/timoxley/colornames.git>
VendorName: Tim Oxley
VendorUrl: <https://github.com/timoxley/colornames#readme>
colors@1.4.0
URL: <http://github.com/Marak/colors.js.git>
VendorName: Marak Squires
VendorUrl: <https://github.com/Marak/colors.js>
colorspace@1.1.2
URL: <https://github.com/3rd-Eden/colorspace>
VendorName: Arnout Kazemier
VendorUrl: <https://github.com/3rd-Eden/colorspace>
commander@2.20.3
URL: <https://github.com/tj/commander.js.git>
VendorName: TJ Holowaychuk
concat-map@0.0.1
URL: <git://github.com/substack/node-concat-map.git>
VendorName: James Halliday
VendorUrl: <http://substack.net>

core-util-is@1.0.2

URL: [git://github.com/isaacs/core-util-is](https://github.com/isaacs/core-util-is)

VendorName: Isaac Z. Schlueter

VendorUrl: <http://blog.izs.me/>

diagnostics@1.1.1

URL: [git://github.com/bigpipe/diagnostics](https://github.com/bigpipe/diagnostics).git

VendorName: Arnout Kazemier

VendorUrl: <https://github.com/bigpipe/diagnostics>

enabled@1.0.2

URL: [git://github.com/bigpipe/enabled](https://github.com/bigpipe/enabled).git

VendorName: Arnout Kazemier

env-variable@0.0.6

URL: <https://github.com/3rd-Eden/env-variable>

VendorName: Arnout Kazemier

VendorUrl: <https://github.com/3rd-Eden/env-variable>

fast-safe-stringify@2.0.7

URL: [git+https://github.com/davidmarkclements/fast-safe-stringify](https://github.com/davidmarkclements/fast-safe-stringify).git

VendorName: David Mark Clements

VendorUrl: <https://github.com/davidmarkclements/fast-safe-stringify#readme>

fecha@2.3.3

URL: [https://taylorhakes@github.com/taylorhakes/fecha](https://github.com/taylorhakes/fecha).git

VendorName: Taylor Hakes

VendorUrl: <https://github.com/taylorhakes/fecha>

fs-extra@3.0.1

URL: <https://github.com/jprichardson/node-fs-extra>

VendorName: JP Richardson

VendorUrl: <https://github.com/jprichardson/node-fs-extra>

fs-extra@7.0.1

URL: <https://github.com/jprichardson/node-fs-extra>

VendorName: JP Richardson

VendorUrl: <https://github.com/jprichardson/node-fs-extra>

iconv-lite@0.4.24

URL: [git://github.com/ashtuchkin/iconv-lite](https://github.com/ashtuchkin/iconv-lite).git

VendorName: Alexander Shtuchkin

VendorUrl: <https://github.com/ashtuchkin/iconv-lite>

is-arrayish@0.3.2

URL: <https://github.com/qix-/node-is-arrayish>.git

VendorName: Qix

VendorUrl: <http://github.com/qix->

is-stream@1.1.0

URL: <https://github.com/sindresorhus/is-stream>.git

VendorName: Sindre Sorhus

VendorUrl: sindresorhus.com

isarray@1.0.0

URL: [git://github.com/juliangruber/isarray](https://github.com/juliangruber/isarray).git

VendorName: Julian Gruber

VendorUrl: <https://github.com/juliangruber/isarray>

jquery@3.3.1

URL: <https://github.com/jquery/jquery.git>
VendorName: JS Foundation and other contributors
VendorUrl: <https://jquery.com/>

jsonfile@3.0.1
URL: <git@github.com:jprichardson/node-jsonfile.git>
VendorName: JP Richardson

jsonfile@4.0.0
URL: <git@github.com:jprichardson/node-jsonfile.git>
VendorName: JP Richardson

klaw-sync@2.1.0
URL: <git+https://github.com/manidlou/node-klaw-sync.git>
VendorName: Mani Maghsoudlou
VendorUrl: <https://github.com/manidlou/node-klaw-sync#readme>

kuler@1.0.1
URL: <https://github.com/3rd-Eden/kuler>
VendorName: Arnout Kazemier
VendorUrl: <https://github.com/3rd-Eden/kuler>

linkify-it@2.2.0
URL: <https://github.com/markdown-it/linkify-it.git>

lodash@4.17.15
URL: <https://github.com/lodash/lodash.git>
VendorName: John-David Dalton
VendorUrl: <https://lodash.com/>

logform@2.1.2
URL: <git+https://github.com/winstonjs/logform.git>
VendorName: Charlie Robbins
VendorUrl: <https://github.com/winstonjs/logform#readme>

markdown-it@8.4.2
URL: <https://github.com/markdown-it/markdown-it.git>

mdurl@1.0.1
URL: <https://github.com/markdown-it/mdurl.git>

ms@2.1.2
URL: <https://github.com/zeit/ms.git>

one-time@0.0.4
URL: <https://github.com/unshiftio/one-time>
VendorName: Arnout Kazemier

path-is-absolute@1.0.1
URL: <https://github.com/sindresorhus/path-is-absolute.git>
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

process-nextick-args@2.0.1
URL: <https://github.com/calvinmetcalf/process-nextick-args.git>
VendorUrl: <https://github.com/calvinmetcalf/process-nextick-args>

readable-stream@2.3.7
URL: <git://github.com/nodejs/readable-stream>

readable-stream@3.6.0
URL: <git://github.com/nodejs/readable-stream>

requirejs@2.3.6

URL: <https://github.com/jrburke/r.js.git>
VendorName: James Burke
VendorUrl: <http://github.com/jrburke/r.js>
safe-buffer@5.1.2
URL: <git://github.com/feross/safe-buffer.git>
VendorName: Feross Aboukhadijeh
VendorUrl: <https://github.com/feross/safe-buffer>
safe-buffer@5.2.0
URL: <git://github.com/feross/safe-buffer.git>
VendorName: Feross Aboukhadijeh
VendorUrl: <https://github.com/feross/safe-buffer>
safer-buffer@2.1.2
URL: <git+https://github.com/ChALkeR/safer-buffer.git>
VendorName: Nikita Skovoroda
VendorUrl: <https://github.com/ChALkeR>
simple-swizzle@0.2.2
URL: <https://github.com/qix-/node-simple-swizzle.git>
VendorName: Qix
VendorUrl: <http://github.com/qix->
stack-trace@0.0.10
URL: <git://github.com/felixge/node-stack-trace.git>
VendorName: Felix Geisendrfer
VendorUrl: <https://github.com/felixge/node-stack-trace>
string_decoder@1.1.1
URL: git://github.com/nodejs/string_decoder.git
VendorUrl: https://github.com/nodejs/string_decoder
string_decoder@1.3.0
URL: git://github.com/nodejs/string_decoder.git
VendorUrl: https://github.com/nodejs/string_decoder
text-hex@1.0.0
URL: <https://github.com/3rd-Eden/text-hex>
VendorName: Arnout Kazemier
VendorUrl: <https://github.com/3rd-Eden/text-hex>
triple-beam@1.3.0
URL: <git+https://github.com/winstonjs/triple-beam.git>
VendorName: Charlie Robbins
VendorUrl: <https://github.com/winstonjs/triple-beam#readme>
uc.micro@1.0.6
URL: <https://github.com/markdown-it/uc.micro.git>
universalify@0.1.2
URL: <git+https://github.com/RyanZim/universalify.git>
VendorName: Ryan Zimmerman
VendorUrl: <https://github.com/RyanZim/universalify#readme>
util-deprecate@1.0.2
URL: <git://github.com/TooTallNate/util-deprecate.git>
VendorName: Nathan Rajlich
VendorUrl: <https://github.com/TooTallNate/util-deprecate>
winston-transport@4.3.0

URL: [git@github.com:winstonjs/winston-transport.git](https://github.com/winstonjs/winston-transport.git)
VendorName: Charlie Robbins
VendorUrl: <https://github.com/winstonjs/winston-transport#readme>
winston@3.2.1
URL: <https://github.com/winstonjs/winston.git>
VendorName: Charlie Robbins

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ASM: a very small and fast Java bytecode manipulation framework

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hadoop-hdfs-project/hadoop-
hdfs/src/main/java/org/apache/hadoop/hdfs/server/datanode/checker/TimeoutFuture.java

com.aliyun:aliyun-java-sdk-core:3.4.0
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com.aliyun:aliyun-java-sdk-ram:3.0.0
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com.fasterxml.jackson.core:jackson-databind:2.10.5.1
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com.fasterxml.woodstox:woodstox-core:5.3.0
com.github.davidmoten:rxjava-extras:0.8.0.17
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com.google:guice-servlet:4.0
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javax.inject:javax.inject:1
log4j:log4j:1.2.17
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org.eclipse.jetty:jetty-util:9.4.40.v20210413
org.eclipse.jetty:jetty-util-ajax:9.4.40.v20210413
org.eclipse.jetty:jetty-webapp:9.4.40.v20210413
org.eclipse.jetty:jetty-xml:9.4.40.v20210413
org.eclipse.jetty.websocket:javax-websocket-client-impl:9.4.40.v20210413
org.eclipse.jetty.websocket:javax-websocket-server-impl:9.4.40.v20210413
org.eclipse.jetty.websocket:websocket-api:9.4.40.v20210413
org.eclipse.jetty.websocket:websocket-client:9.4.40.v20210413
org.eclipse.jetty.websocket:websocket-common:9.4.40.v20210413
org.eclipse.jetty.websocket:websocket-server:9.4.40.v20210413
org.eclipse.jetty.websocket:websocket-servlet:9.4.40.v20210413
org.ehcache:ehcache:3.3.1
org.lz4:lz4-java:1.7.1
org.objenesis:objenesis:2.6
org.xerial.snappy:snappy-java:1.1.8.2
org.yaml:snakeyaml:1.26
org.wildfly.openssl:wildfly-openssl:1.0.7.Final

This product bundles various third-party components under other open source licenses. This section summarizes those components and their licenses. See [licenses-binary/](#) for text of these licenses.

BSD 2-Clause

hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-client-nativetask/src/main/native/lz4/lz4.{c|h}
hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/native/container-executor/impl/compat/{fstatat|openat|unlinkat}.h

com.github.luben:zstd-jni:1.4.3-1
dnsjava:dnsjava:2.1.7
org.codehaus.woodstox:stax2-api:4.2.1

BSD 3-Clause

hadoop-common-project/hadoop-common/src/main/java/org/apache/hadoop/util/bloom/*
hadoop-common-project/hadoop-common/src/main/native/gtest/gtest-all.cc
hadoop-common-project/hadoop-common/src/main/native/gtest/include/gtest/gtest.h

hadoop-common-project/hadoop-common/src/main/native/src/org/apache/hadoop/util/bulk_crc32_x86.c
hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/libhdfspp/third_party/protobuf/protobuf/cpp_helpers.h
hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/libhdfspp/third_party/gmock-1.7.0/*/*.{cc|h}
hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/d3.v3.js
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/d3-v4.1.1.min.js
leveldb v1.13

com.google.protobuf:protobuf-java:2.5.0
com.google.protobuf:protobuf-java:3.6.1
com.google.protobuf:protobuf-java:3.7.1
com.google.re2j:re2j:1.1
com.jcraft:jsch:0.1.55
com.thoughtworks.paranamer:paranamer:2.3
jakarta.activation:jakarta.activation-api:1.2.1
org.fusesource.leveldbjni:leveldbjni-all:1.8
org.jline:jline:3.9.0
org.hamcrest:hamcrest-core:1.3
org.ow2.asm:asm:5.0.4
org.ow2.asm:asm-analysis:9.0
org.ow2.asm:asm-commons:9.0
org.ow2.asm:asm-tree:9.0

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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/bootstrap-3.4.1
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dataTables.bootstrap.css
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dataTables.bootstrap.js
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dust-full-2.0.0.min.js
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dust-helpers-1.1.1.min.js
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/jquery-3.5.1.min.js
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/jquery.dataTables.min.js
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/moment.min.js
hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/bootstrap.min.js
hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/jquery.js
hadoop-tools/hadoop-sls/src/main/html/css/bootstrap.min.css
hadoop-tools/hadoop-sls/src/main/html/css/bootstrap-responsive.min.css
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-applications/hadoop-yarn-applications-catalog/hadoop-yarn-applications-catalog-webapp/node_modules/.bin/r.js
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/dt-1.10.18/*
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/jquery
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/jt/jquery.jstree.js
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/resources/TERMINAL

uriparser2 (hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/libhdfspp/third_party/uriparser2)

com.microsoft.azure:azure-cosmosdb:2.4.5
com.microsoft.azure:azure-cosmosdb-commons:2.4.5
com.microsoft.azure:azure-cosmosdb-direct:2.4.5
com.microsoft.azure:azure-cosmosdb-gateway:2.4.5
com.microsoft.azure:azure-data-lake-store-sdk:2.3.9
com.microsoft.azure:azure-keyvault-core:1.0.0
com.microsoft.sqlserver:mssql-jdbc:6.2.1.jre7
org.bouncycastle:bcpkix-jdk15on:1.60
org.bouncycastle:bcprov-jdk15on:1.60
org.checkerframework:checker-qual:2.5.2
org.checkerframework:checker-qual:3.8.0
org.codehaus.mojo:animal-sniffer-annotations:1.17
org.jruby.jcodings:jcodings:1.0.13
org.jruby.joni:joni:2.1.2
org.ojalgo:ojalgo:43.0
org.slf4j:jul-to-slf4j:1.7.30
org.slf4j:slf4j-api:1.7.30
org.slf4j:slf4j-log4j12:1.7.30

CDDL 1.1 + GPLv2 with classpath exception

com.sun.jersey:jersey-client:1.19
com.sun.jersey:jersey-core:1.19
com.sun.jersey:jersey-guice:1.19
com.sun.jersey:jersey-json:1.19
com.sun.jersey:jersey-server:1.19
com.sun.jersey:jersey-servlet:1.19
com.sun.xml.bind:jaxb-impl:2.2.3-1
javax.annotation:javax.annotation-api:1.3.2
javax.servlet:javax.servlet-api:3.1.0
javax.servlet.jsp:jsp-api:2.1
javax.websocket:javax.websocket-api:1.0
javax.websocket:javax.websocket-client-api:1.0
javax.ws.rs:jsr311-api:1.1.1
javax.xml.bind:jaxb-api:2.2.11

Eclipse Public License 1.0

junit:junit:4.13.1

Eclipse Distribution License 1.0

jakarta.xml.bind:jakarta.xml.bind-api:2.3.2

HSQL License

org.hsqldb:hsqldb:2.3.4

JDOM License

org.jdom:jdom:1.1

Boost Software License, Version 1.0

asio-1.10.2 (hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/libhdfspp/third_party/asio-1.10.2)
rapidxml-1.13 (hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/libhdfspp/third_party/rapidxml-1.13)
tr2 (hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/libhdfspp/third_party/tr2)

Public Domain

hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/json-bignum.js

aopalliance:aopalliance:1.0

See LICENSE-binary-yarn-ui for yarn-managed packages at hadoop-yarn-project/hadoop-yarn/hadoop-yarn-ui/src/main/webapp

See LICENSE-binary-hadoop-yarn-applications-catalog-webapp for yarn-managed packages at hadoop-yarn-project/hadoop-yarn/hadoop-yarn-applications/hadoop-yarn-applications-catalog/hadoop-yarn-applications-catalog-webapp/yarn.lock

To generate the report, execute 'yarn licenses list' at these two directories.

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1.688 jackson-core 2.5.3

1.688.1 Available under license :

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It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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Credits

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1.689 cglib 2.2

1.689.1 Available under license :

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 */
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/core/TypeUtils.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/proxy/Mixin.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/core/CodeEmitter.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/transform/AbstractClassLoader.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/proxy/Proxy.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/reflect/FastMethod.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/core/CollectionUtils.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/proxy/DispatcherGenerator.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/proxy/InvocationHandlerGenerator.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/core/VisibilityPredicate.java
```

* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/reflect/MethodDelegate.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/core/MethodWrapper.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/core/AbstractClassGenerator.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/beans/BeanMap.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/reflect/MulticastDelegate.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/proxy/MethodProxy.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/beans/BeanMapEmitter.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/proxy/CallbackFilter.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/reflect/FastClass.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/core/DebuggingClassWriter.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/proxy/CallbackGenerator.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/transform/ClassTransformerChain.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/proxy/NoOpGenerator.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/transform/ClassFilterTransformer.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/proxy/FixedValueGenerator.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/core/ReflectUtils.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/transform/impl/AddStaticInitTransformer.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/reflect/FastClassEmitter.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/core/KeyFactory.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/beans/BulkBeanEmitter.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/proxy/MethodInterceptorGenerator.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/beans/ImmutableBean.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/beans/BeanCopier.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/proxy/LazyLoaderGenerator.java

```
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-
jar/net/sf/cglib/core/DefaultNamingPolicy.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-
jar/net/sf/cglib/proxy/MixinEmitter.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-
jar/net/sf/cglib/core/EmitUtils.java
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```
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-
jar/net/sf/cglib/proxy/CallbackHelper.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-
jar/net/sf/cglib/core/RejectModifierPredicate.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-
jar/net/sf/cglib/proxy/MixinEverythingEmitter.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-
jar/net/sf/cglib/transform/AbstractClassFilterTransformer.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-
jar/net/sf/cglib/core/ClassInfo.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-
jar/net/sf/cglib/transform/impl/AddInitTransformer.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-
jar/net/sf/cglib/core/MethodInfoTransformer.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-
jar/net/sf/cglib/transform/impl/AbstractInterceptFieldCallback.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-
jar/net/sf/cglib/core/MethodInfo.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-
jar/net/sf/cglib/proxy/InterfaceMaker.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-
jar/net/sf/cglib/proxy/CallbackInfo.java
```

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```
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-
jar/net/sf/cglib/transform/AbstractTransformTask.java
```

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```
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-
jar/net/sf/cglib/proxy/Enhancer.java
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- * /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/proxy/UndeclaredThrowableException.java
- * /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/proxy/MethodInterceptor.java
- * /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/proxy/Factory.java

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* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/core/LocalVariablesSorter.java

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* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/util/ParallelSorter.java

* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/transform/impl/InterceptFieldTransformer.java

* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/proxy/InvocationHandler.java

* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/core/Signature.java

* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/proxy/FixedValue.java

* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/core/GeneratorStrategy.java

* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/transform/AbstractProcessTask.java

* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/beans/BulkBean.java

* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/transform/impl/AccessFieldTransformer.java

* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/transform/MethodVisitorTee.java

* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-

jar/net/sf/cglib/core/CodeGenerationException.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/core/Block.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/transform/impl/FieldProviderTransformer.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/core/TinyBitSet.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/transform/TransformingClassLoader.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/transform/ClassEmitterTransformer.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/transform/ClassReaderGenerator.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/transform/impl/FieldProvider.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/util/SorterTemplate.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/reflect/FastConstructor.java
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* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/core/NamingPolicy.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/core/ClassNameReader.java
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* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/transform/ClassTransformerFactory.java
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* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/transform/impl/AddDelegateTransformer.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-

jar/net/sf/cglib/transform/MethodFilter.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-
jar/net/sf/cglib/transform/impl/InterceptFieldFilter.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-
jar/net/sf/cglib/core/DefaultGeneratorStrategy.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-
jar/net/sf/cglib/core/ProcessArrayCallback.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-
jar/net/sf/cglib/transform/FieldVisitorTee.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-
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* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-
jar/net/sf/cglib/reflect/ConstructorDelegate.java
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* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-
jar/net/sf/cglib/proxy/MixinBeanEmitter.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-
jar/net/sf/cglib/transform/impl/InterceptFieldEnabled.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-
jar/net/sf/cglib/transform/ClassTransformer.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-
jar/net/sf/cglib/core/ObjectSwitchCallback.java
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jar/net/sf/cglib/transform/ClassFilter.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-
jar/net/sf/cglib/core/ClassEmitter.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-
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jar/net/sf/cglib/transform/AnnotationVisitorTee.java
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1.690 aws-java-sdk 1.11.508

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1.691 jboss-marshalling-osgi-bundle

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1.11.155

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4.1.4

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[5] <http://www.ecma-international.org/publications/files/ECMA-ST/Ecma%20PATENT/Patent%20statements%20ok/ECMA-376%20Adobe%20Patent%20Declaration.pdf>

DOM4J library (dom4j-1.6.1.jar)

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JUnit test library (junit-3.8.1.jar)

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1.697 aws-java-sdk-for-aws-sts 1.11.155

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1.698 aws-java-sdk-for-amazon-dynamodb

1.11.155

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1.700 swimlane---ngx-charts 12.1.0

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1.701 jaxen 1.1-beta-8

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1.702 zstd-jni 1.4.0-1

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Version 2, June 1991

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1.703 aws-sdk-for-java-core 1.11.555

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1.707 byte-buddy-agent 1.10.22

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1.708 slf4j-log4j-12-binding 1.6.3

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1.717 elasticsearch-java-client 7.15.0

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1.719 apache-commons-beanutils 1.8.0

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1.725 hibernate-commons-annotations

5.1.2.Final

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1.726 apache-http-client 4.5.5

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1.727 angular-flex-layout 7.0.0-beta.19

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1.729 JAXB-XML-Binding-Code-Generator- package 2.2.3-1

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1.738 angular-common 7.0.3

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1.741 core-functionality-for-the-reactor-netty-library 1.0.10

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1.742 log4j-api 2.12.1

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1.743 aws-java-sdk-for-aws-kms 1.11.172

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1.744 nodejs-string-decoder 1.1.1

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1.748 aws-java-sdk 1.11.205

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* /opt/cola/permits/1237462948_1639190658.57/0/spring-security-oauth-2-2-0-release-sources-jar/org/springframework/security/oauth/provider/attributes/ConsumerSecurityMetadataSource.java
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- * /opt/cola/permits/1237462948_1639190658.57/0/spring-security-oauth-2-2-0-release-sources-jar/org/springframework/security/oauth/provider/attributes/ConsumerKeysAllowed.java
- * /opt/cola/permits/1237462948_1639190658.57/0/spring-security-oauth-2-2-0-release-sources-jar/org/springframework/security/oauth/consumer/InMemoryProtectedResourceDetailsService.java
- * /opt/cola/permits/1237462948_1639190658.57/0/spring-security-oauth-2-2-0-release-sources-jar/org/springframework/security/oauth/config/ExpressionHandlerBeanDefinitionParser.java
- * /opt/cola/permits/1237462948_1639190658.57/0/spring-security-oauth-2-2-0-release-sources-jar/org/springframework/security/oauth/consumer/InvalidOAuthRealmException.java
- * /opt/cola/permits/1237462948_1639190658.57/0/spring-security-oauth-2-2-0-release-sources-jar/org/springframework/security/oauth/provider/token/InMemoryProviderTokenServices.java
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* /opt/cola/permits/1237462948_1639190658.57/0/spring-security-oauth-2-2-0-release-sources-jar/org/springframework/security/oauth/provider/token/RandomValueProviderTokenServices.java
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* /opt/cola/permits/1237462948_1639190658.57/0/spring-security-oauth-2-2-0-release-sources-jar/org/springframework/security/oauth/provider/attributes/ConsumerSecurityConfig.java
* /opt/cola/permits/1237462948_1639190658.57/0/spring-security-oauth-2-2-0-release-sources-jar/org/springframework/security/oauth/provider/InvalidOAuthParametersException.java
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* /opt/cola/permits/1237462948_1639190658.57/0/spring-security-oauth-2-2-0-release-sources-jar/org/springframework/security/oauth/provider/attributes/PermitAllConsumers.java
* /opt/cola/permits/1237462948_1639190658.57/0/spring-security-oauth-2-2-0-release-sources-jar/org/springframework/security/oauth/provider/ResourceSpecificConsumerDetails.java
* /opt/cola/permits/1237462948_1639190658.57/0/spring-security-oauth-2-2-0-release-sources-jar/org/springframework/security/oauth/provider/verifier/VerificationFailedException.java

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* /opt/cola/permits/1237462948_1639190658.57/0/spring-security-oauth-2-2-0-release-sources-jar/org/springframework/security/oauth/common/signature/OAuthSignatureMethodFactory.java
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* /opt/cola/permits/1237462948_1639190658.57/0/spring-security-oauth-2-2-0-release-sources-jar/org/springframework/security/oauth/provider/token/OAuthProviderTokenImpl.java
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* /opt/cola/permits/1237462948_1639190658.57/0/spring-security-oauth-2-2-0-release-sources-jar/org/springframework/security/oauth/consumer/ProtectedResourceDetails.java
* /opt/cola/permits/1237462948_1639190658.57/0/spring-security-oauth-2-2-0-release-sources-jar/org/springframework/security/oauth/common/OAuthCodec.java
* /opt/cola/permits/1237462948_1639190658.57/0/spring-security-oauth-2-2-0-release-sources-jar/org/springframework/security/oauth/consumer/OAuthRequestFailedException.java
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* /opt/cola/permits/1237462948_1639190658.57/0/spring-security-oauth-2-2-0-release-sources-jar/org/springframework/security/oauth/provider/filter/CoreOAuthProviderSupport.java
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* /opt/cola/permits/1237462948_1639190658.57/0/spring-security-oauth-2-2-0-release-sources-jar/org/springframework/security/oauth/consumer/nonce/UUIDNonceFactory.java
* /opt/cola/permits/1237462948_1639190658.57/0/spring-security-oauth-2-2-0-release-sources-jar/org/springframework/security/oauth/consumer/BaseProtectedResourceDetails.java
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* /opt/cola/permits/1237462948_1639190658.57/0/spring-security-oauth-2-2-0-release-sources-jar/org/springframework/security/oauth/provider/token/OAuthAccessProviderToken.java
* /opt/cola/permits/1237462948_1639190658.57/0/spring-security-oauth-2-2-0-release-sources-jar/org/springframework/security/oauth/provider/ExtraTrustConsumerDetails.java
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* /opt/cola/permits/1237462948_1639190658.57/0/spring-security-oauth-2-2-0-release-sources-
jar/org/springframework/security/oauth/common/signature/UnsupportedSignatureMethodException.java
* /opt/cola/permits/1237462948_1639190658.57/0/spring-security-oauth-2-2-0-release-sources-
jar/org/springframework/security/oauth/provider/nonce/OAuthNonceServices.java
* /opt/cola/permits/1237462948_1639190658.57/0/spring-security-oauth-2-2-0-release-sources-
jar/org/springframework/security/oauth/common/signature/PlainTextSignatureMethod.java
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Found in path(s):

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* /opt/cola/permits/1237462948_1639190658.57/0/spring-security-oauth-2-2-0-release-sources-
jar/org/springframework/security/oauth/provider/filter/UserAuthorizationProcessingFilter.java
```

```
* /opt/cola/permits/1237462948_1639190658.57/0/spring-security-oauth-2-2-0-release-sources-
jar/org/springframework/security/oauth/provider/filter/UnauthenticatedRequestTokenProcessingFilter.java
```

1.750 netty-tomcatnative-boringssl-static

2.0.40.Final

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analysis/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/bn/stopwords.txt

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analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchLightStemmer.java
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1.760 functionality-for-the-reactor-netty-library 1.0.10

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1.763 isarray 1.0.0

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1.764 jackson-mapper-asl 1.9.13

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```
* /opt/cola/permits/1019256604_1611187708.54/0/jackson-mapper-asl-1-9-13-sources-  
zip/org/codehaus/jackson/map/MappingJsonFactory.java
```

1.765 substack/node-binary 0.3.0

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1.766 joda-time 2.8.1

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1.767 jackson-core 2.8.10

1.767.1 Available under license :

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1.768 netty-project 4.1.67.Final

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\* /opt/cola/permits/1241104399\_1639440524.33/0/nimbus-jose-jwt-9-10-1-sources-  
jar/com/nimbusds/jose/proc/JWSAlgorithmFamilyJWSKeySelector.java  
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jar/com/nimbusds/jose/proc/JWEDecryptionKeySelector.java  
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jar/com/nimbusds/jwt/proc/DefaultJWTProcessor.java  
\* /opt/cola/permits/1241104399\_1639440524.33/0/nimbus-jose-jwt-9-10-1-sources-  
jar/com/nimbusds/jose/jwk/JWKMatcher.java  
\* /opt/cola/permits/1241104399\_1639440524.33/0/nimbus-jose-jwt-9-10-1-sources-  
jar/com/nimbusds/jose/proc/JOSEProcessorConfiguration.java  
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jar/com/nimbusds/jose/crypto/ECDHEncrypter.java  
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jar/com/nimbusds/jose/proc/JWSVerificationKeySelector.java

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jar/com/nimbusds/jose/jwk/source/JWKSecurityContextJWKSet.java
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jar/com/nimbusds/jose/proc/JOSEObjectTypeVerifier.java
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jar/com/nimbusds/jose/crypto/Ed25519Signer.java  
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* /opt/cola/permits/1241104399_1639440524.33/0/nimbus-jose-jwt-9-10-1-sources-
jar/com/nimbusds/jose/crypto/impl/ECChecks.java
* /opt/cola/permits/1241104399_1639440524.33/0/nimbus-jose-jwt-9-10-1-sources-
jar/com/nimbusds/jose/crypto/impl/AlgorithmParametersHelper.java
* /opt/cola/permits/1241104399_1639440524.33/0/nimbus-jose-jwt-9-10-1-sources-
jar/com/nimbusds/jose/crypto/impl/ECDH.java
* /opt/cola/permits/1241104399_1639440524.33/0/nimbus-jose-jwt-9-10-1-sources-
jar/com/nimbusds/jose/crypto/impl/RSA1_5.java
* /opt/cola/permits/1241104399_1639440524.33/0/nimbus-jose-jwt-9-10-1-sources-
jar/com/nimbusds/jose/ActionRequiredForJWSCompletionException.java
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jar/com/nimbusds/jose/jwk/PEMEncodedKeyParser.java
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\* /opt/cola/permits/1241104399\_1639440524.33/0/nimbus-jose-jwt-9-10-1-sources-  
jar/com/nimbusds/jose/proc/DefaultJOSEObjectTypeVerifier.java  
\* /opt/cola/permits/1241104399\_1639440524.33/0/nimbus-jose-jwt-9-10-1-sources-  
jar/com/nimbusds/jose/crypto/impl/AESGCM.java  
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jar/com/nimbusds/jwt/util/package-info.java  
\* /opt/cola/permits/1241104399\_1639440524.33/0/nimbus-jose-jwt-9-10-1-sources-

jar/com/nimbusds/jose/proc/JWSVerifierFactory.java  
\* /opt/cola/permits/1241104399\_1639440524.33/0/nimbus-jose-jwt-9-10-1-sources-  
jar/com/nimbusds/jose/crypto/factories/package-info.java  
\* /opt/cola/permits/1241104399\_1639440524.33/0/nimbus-jose-jwt-9-10-1-sources-  
jar/com/nimbusds/jose/util/StandardCharset.java  
\* /opt/cola/permits/1241104399\_1639440524.33/0/nimbus-jose-jwt-9-10-1-sources-  
jar/com/nimbusds/jose/proc/JWEDecrypterFactory.java  
\* /opt/cola/permits/1241104399\_1639440524.33/0/nimbus-jose-jwt-9-10-1-sources-  
jar/com/nimbusds/jose/util/BigIntegerUtils.java  
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jar/com/nimbusds/jose/crypto/factories/DefaultJWEDecrypterFactory.java  
\* /opt/cola/permits/1241104399\_1639440524.33/0/nimbus-jose-jwt-9-10-1-sources-  
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jar/com/nimbusds/jose/crypto/DirectEncrypter.java  
\* /opt/cola/permits/1241104399\_1639440524.33/0/nimbus-jose-jwt-9-10-1-sources-  
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\* /opt/cola/permits/1241104399\_1639440524.33/0/nimbus-jose-jwt-9-10-1-sources-  
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jar/com/nimbusds/jose/proc/BadJWSException.java  
\* /opt/cola/permits/1241104399\_1639440524.33/0/nimbus-jose-jwt-9-10-1-sources-  
jar/com/nimbusds/jose/JOSEProvider.java  
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jar/com/nimbusds/jose/JWEObject.java  
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\* /opt/cola/permits/1241104399\_1639440524.33/0/nimbus-jose-jwt-9-10-1-sources-  
jar/com/nimbusds/jose/jca/JWEJCAContext.java  
\* /opt/cola/permits/1241104399\_1639440524.33/0/nimbus-jose-jwt-9-10-1-sources-  
jar/com/nimbusds/jose/proc/JOSEMatcher.java



```
* /opt/cola/permits/1241104399_1639440524.33/0/nimbus-jose-jwt-9-10-1-sources-
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* /opt/cola/permits/1241104399_1639440524.33/0/nimbus-jose-jwt-9-10-1-sources-jar/com/nimbusds/jose/package-
info.java
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* /opt/cola/permits/1241104399_1639440524.33/0/nimbus-jose-jwt-9-10-1-sources-
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* /opt/cola/permits/1241104399_1639440524.33/0/nimbus-jose-jwt-9-10-1-sources-
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* /opt/cola/permits/1241104399_1639440524.33/0/nimbus-jose-jwt-9-10-1-sources-
jar/com/nimbusds/jose/proc/BadJWEException.java
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* /opt/cola/permits/1241104399_1639440524.33/0/nimbus-jose-jwt-9-10-1-sources-
jar/com/nimbusds/jose/util/ArrayUtils.java
* /opt/cola/permits/1241104399_1639440524.33/0/nimbus-jose-jwt-9-10-1-sources-
jar/com/nimbusds/jose/RemoteKeySourceException.java
* /opt/cola/permits/1241104399_1639440524.33/0/nimbus-jose-jwt-9-10-1-sources-
jar/com/nimbusds/jose/KeyTypeException.java
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```
/*
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*/
```

Found in path(s):

```
* /opt/cola/permits/1241104399_1639440524.33/0/nimbus-jose-jwt-9-10-1-sources-
jar/com/nimbusds/jose/crypto/factories/DefaultJWSSignerFactory.java
```

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# 1.778 dom4j-flexible-xml-framework-for-java

## 2.1.3

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Found in path(s):

```
* /opt/cola/permits/1239926362_1639108358.6/0/json-path-0-8-0-sources-
jar/com/jayway/jsonpath/internal/filter/ArrayQueryFilter.java
* /opt/cola/permits/1239926362_1639108358.6/0/json-path-0-8-0-sources-
jar/com/jayway/jsonpath/spi/JsonProviderFactory.java
* /opt/cola/permits/1239926362_1639108358.6/0/json-path-0-8-0-sources-
jar/com/jayway/jsonpath/spi/impl/JacksonProvider.java
* /opt/cola/permits/1239926362_1639108358.6/0/json-path-0-8-0-sources-
jar/com/jayway/jsonpath/internal/filter/FilterFactory.java
* /opt/cola/permits/1239926362_1639108358.6/0/json-path-0-8-0-sources-
jar/com/jayway/jsonpath/internal/filter/WildcardFilter.java
* /opt/cola/permits/1239926362_1639108358.6/0/json-path-0-8-0-sources-
jar/com/jayway/jsonpath/spi/impl/JsonSmartJsonProvider.java
* /opt/cola/permits/1239926362_1639108358.6/0/json-path-0-8-0-sources-
jar/com/jayway/jsonpath/internal/filter/ScanFilter.java
* /opt/cola/permits/1239926362_1639108358.6/0/json-path-0-8-0-sources-jar/com/jayway/jsonpath/Filter.java
* /opt/cola/permits/1239926362_1639108358.6/0/json-path-0-8-0-sources-
```

jar/com/jayway/jsonpath/spi/MappingProvider.java  
\* /opt/cola/permits/1239926362\_1639108358.6/0/json-path-0-8-0-sources-  
jar/com/jayway/jsonpath/internal/filter/ArrayIndexFilter.java  
\* /opt/cola/permits/1239926362\_1639108358.6/0/json-path-0-8-0-sources-  
jar/com/jayway/jsonpath/InvalidPathException.java  
\* /opt/cola/permits/1239926362\_1639108358.6/0/json-path-0-8-0-sources-  
jar/com/jayway/jsonpath/internal/PathTokenizer.java  
\* /opt/cola/permits/1239926362\_1639108358.6/0/json-path-0-8-0-sources-  
jar/com/jayway/jsonpath/spi/impl/AbstractJsonProvider.java  
\* /opt/cola/permits/1239926362\_1639108358.6/0/json-path-0-8-0-sources-  
jar/com/jayway/jsonpath/internal/filter/eval/ExpressionEvaluator.java  
\* /opt/cola/permits/1239926362\_1639108358.6/0/json-path-0-8-0-sources-  
jar/com/jayway/jsonpath/spi/MappingProviderFactory.java  
\* /opt/cola/permits/1239926362\_1639108358.6/0/json-path-0-8-0-sources-  
jar/com/jayway/jsonpath/internal/filter/PathTokenFilter.java  
\* /opt/cola/permits/1239926362\_1639108358.6/0/json-path-0-8-0-sources-jar/com/jayway/jsonpath/JsonPath.java  
\* /opt/cola/permits/1239926362\_1639108358.6/0/json-path-0-8-0-sources-  
jar/com/jayway/jsonpath/IndefinitePathException.java  
\* /opt/cola/permits/1239926362\_1639108358.6/0/json-path-0-8-0-sources-  
jar/com/jayway/jsonpath/InvalidCriteriaException.java  
\* /opt/cola/permits/1239926362\_1639108358.6/0/json-path-0-8-0-sources-  
jar/com/jayway/jsonpath/InvalidModelPathException.java  
\* /opt/cola/permits/1239926362\_1639108358.6/0/json-path-0-8-0-sources-  
jar/com/jayway/jsonpath/InvalidJsonException.java  
\* /opt/cola/permits/1239926362\_1639108358.6/0/json-path-0-8-0-sources-jar/com/jayway/jsonpath/Criteria.java  
\* /opt/cola/permits/1239926362\_1639108358.6/0/json-path-0-8-0-sources-jar/com/jayway/jsonpath/JsonModel.java  
\* /opt/cola/permits/1239926362\_1639108358.6/0/json-path-0-8-0-sources-  
jar/com/jayway/jsonpath/internal/PathToken.java  
\* /opt/cola/permits/1239926362\_1639108358.6/0/json-path-0-8-0-sources-  
jar/com/jayway/jsonpath/spi/JsonProvider.java  
\* /opt/cola/permits/1239926362\_1639108358.6/0/json-path-0-8-0-sources-  
jar/com/jayway/jsonpath/internal/filter/FieldFilter.java  
\* /opt/cola/permits/1239926362\_1639108358.6/0/json-path-0-8-0-sources-  
jar/com/jayway/jsonpath/internal/filter/ArrayEvalFilter.java  
\* /opt/cola/permits/1239926362\_1639108358.6/0/json-path-0-8-0-sources-jar/com/jayway/jsonpath/spi/Mode.java  
\* /opt/cola/permits/1239926362\_1639108358.6/0/json-path-0-8-0-sources-  
jar/com/jayway/jsonpath/internal/filter/HasFieldFilter.java  
\* /opt/cola/permits/1239926362\_1639108358.6/0/json-path-0-8-0-sources-  
jar/com/jayway/jsonpath/internal/filter/PassthroughFilter.java

# 1.787 rxjs 6.4.0

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## 1.792 hadoop-yarn-api 3.3.1

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hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/libhdfspp/third\_party/gmock-1.7.0/\*/\*.{cc|h}  
hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/d3.v3.js  
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/d3-v4.1.1.min.js

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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/bootstrap-3.4.1  
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dataTables.bootstrap.css  
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dataTables.bootstrap.js  
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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/jquery.dataTables.min.js  
hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/moment.min.js  
hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/bootstrap.min.js  
hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/jquery.js  
hadoop-tools/hadoop-sls/src/main/html/css/bootstrap.min.css  
hadoop-tools/hadoop-sls/src/main/html/css/bootstrap-responsive.min.css  
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-applications/hadoop-yarn-applications-catalog/hadoop-yarn-applications-catalog-webapp/node\_modules/.bin/r.js  
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/dt-1.10.18/\*  
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/jquery  
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hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/resources/TERMINAL

uriparser2 (hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/libhdfspp/third\_party/uriparser2)  
hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/native/container-executor/impl/utills/cJSON.[ch]

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asio-1.10.2 (hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/libhdfspp/third\_party/asio-1.10.2)  
rapidxml-1.13 (hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/libhdfspp/third\_party/rapidxml-1.13)

tr2 (hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/libhdfspp/third\_party/tr2)

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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/json-bignum.js

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Hadoop Yarn Server Web Proxy uses the BouncyCastle Java cryptography APIs written by the Legion of the Bouncy Castle Inc.

# 1.793 spring-framework 4.3.11.RELEASE

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jar/com/azure/identity/InteractiveBrowserCredentialBuilder.java
* /opt/cola/permits/1239450616_1639077025.59/0/azure-identity-1-1-0-beta-1-sources-
jar/com/azure/identity/implementation/msalextensions/cachepersist/CachePersister.java
* /opt/cola/permits/1239450616_1639077025.59/0/azure-identity-1-1-0-beta-1-sources-
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jar/com/azure/identity/implementation/msalextensions/CacheLockNotObtainedException.java
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* /opt/cola/permits/1239450616_1639077025.59/0/azure-identity-1-1-0-beta-1-sources-
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jar/com/azure/identity/DeviceCodeCredentialBuilder.java
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jar/com/azure/identity/AuthorizationCodeCredentialBuilder.java
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jar/com/azure/identity/AppServiceMsiCredential.java
* /opt/cola/permits/1239450616_1639077025.59/0/azure-identity-1-1-0-beta-1-sources-
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jar/com/azure/identity/DeviceCodeCredential.java

\* /opt/cola/permits/1239450616\_1639077025.59/0/azure-identity-1-1-0-beta-1-sources-jar/com/azure/identity/DefaultAzureCredential.java  
\* /opt/cola/permits/1239450616\_1639077025.59/0/azure-identity-1-1-0-beta-1-sources-jar/com/azure/identity/SharedTokenCacheCredentialBuilder.java  
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\* /opt/cola/permits/1239450616\_1639077025.59/0/azure-identity-1-1-0-beta-1-sources-jar/com/azure/identity/implementation/msalextensions/CacheLock.java  
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\* /opt/cola/permits/1239450616\_1639077025.59/0/azure-identity-1-1-0-beta-1-sources-jar/com/azure/identity/implementation/AuthorizationCodeListener.java

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## 1.803 junit-jupiter-junit-jupiter-api 5.7.2

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```
import java.io.File
import java.net.URI
```

```
data class License(val name: String, val url: URI, val headerFile: File)
```

```
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```
=====
```

```
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E-Mail: [jmccconnell@apache.org](mailto:jmccconnell@apache.org)

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org.apache.tomcat:tomcat-api  
org.apache.tomcat:tomcat-util-scan  
org.apache.tomcat:tomcat-util

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Zokttk0bTHfwaa5TtxQbScw=

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iQEcBAEBAgAGBQJQBb4tAAoJEMHhjBmtgF91HDcH/2nQDPuPztWFrBifnEoLF6Jl  
RUkfJzAPZaLDtDMfiDz7ucdRL1RDodmz4VIF2+fbKeBYQquZXfXIeEghz+tKriK3  
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=gAqN

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Full name: James Strachan

E-Mail: `jstrachan@apache.org`

Mailing Address: 1A Leigh Road, London, UK, N5 1ST

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Version: GnuPG v1.4.1 (Darwin)

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8sfMxEDZquIqhVbfZU2c76U=  
=8WW7

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6etDJ6AUj0jTuS159hUsWMQ=  
=HmqH

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Mailing Address: 4676 Admiralty Way, Suite 520  
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Point of Contact:

Full name: Gordon King

E-Mail: gordon.king@simulalabs.com

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Positions: Chief Operational Officer

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| Name          | Date added        |
|---------------|-------------------|
| Simone Bordet | 12 September 2006 |

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