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1.11 asm 3.3.1

1.12 aws-java-sdk-for-aws-batch 1.11.155

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1.13 jackson-core 2.5.3
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1.14 aws-sdk-for-java-core 1.11.155
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1.15 aws-java-sdk-for-aws-gamelift 1.11.555

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1.16 d3-dispatch 1.0.6

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1.28 hadoop-yarn-client 3.3.1

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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 Yarn Server Web Proxy uses the BouncyCastle Java cryptography APIs written by the Legion of the Bouncy Castle Inc.

1.29 java-classmate 1.3.0
1.29.1 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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1.31 kerby-config 1.0.1

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1.32 aws-java-sdk-for-aws-appsync 1.11.555

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1.33 aws-java-sdk-for-the-aws-cloudhsm

1.11.172

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1.34 aws-java-sdk-for-amazon-cognito-identity-provider-service 1.11.155

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1.35 slf4j-api-module 1.6.3

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The snowball stemmers in
analysis/common/src/java/net/sf/snowball
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The full snowball package is available from
https://snowballstem.org/

The KStem stemmer in
analysis/common/src/org/apache/lucene/analysis/en
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analysis/common/src/resources/org/apache/lucene/analysis/ar/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/fa/stopwords.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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analysis/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer.java
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analysis/common/src/java/org/apache/lucene/analysis/sv/SwedishLightStemmer.java

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BUILD: 2016-02-13 19:37:50+01:00
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1.41 json-lib 2.2.2

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1.43 lucene-analyzers 8.9.0

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Development for branch 8x remains in the shared repository:

- https://gitbox.apache.org/repos/asf/lucene-solr.git

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* /opt/cola/permits/1241118507_1639619827.68/0/lucene-history-branches-lucene-solr-branch-8x-tar-gz/lucene-history-branches-lucene-solr-branch_8x/README.md

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1.44 jackson-dataformat-xml 2.10.0

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# Jackson JSON processor

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### 1.45 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`
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- `/opt/cola/permits/1110825652_1611250456.32/0/accessors-smart-1-2-sources-jar/net/minidev/asm/ASMUtil.java`

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1.52 aws-java-sdk-for-aws-iot-jobs-data-plane

1.11.508

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1.53 aws-java-sdk-for-amazon-appstream

1.11.172

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1.11.508

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1.60 hibernate-orm 5.2.10

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1.71 mp3-spi 1.9.5-1

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1.78 apache-hadoop-shaded-protobuf-3.7

1.1.1

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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

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URL: git+https://github.com/ember-cli/exists-sync.git
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VendorUrl: https://github.com/ember-cli/exists-sync#readme

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VendorUrl: http://www.medikoo.com/

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VendorUrl: https://github.com/npm/fs-vacuum

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

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

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npm-registry-client@7.0.9
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@sailshq/lodash@3.10.4
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accepts@1.3.7
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ajv@4.11.8
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Open Source Used In imicampaign-blackduck 6.2

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<td>Mark Cavage</td>
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VendorName: Caolan McMahon
async@1.5.2
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asynckit@0.4.0
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aws4@1.9.0
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VendorName: Michael Hart
VendorUrl: http://github.com/mhart
babel-core@5.8.38
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VendorName: Sebastian McKenzie
VendorUrl: https://babeljs.io/
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babel-plugin-inline-environment-variables@1.0.1
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VendorName: Niklas von Hertzen
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VendorUrl: https://github.com/shinnn/broccoli-clean-css
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clean-css@2.2.23
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color-convert@1.9.3
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color-name@1.1.3
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colors@1.0.3
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commoner@0.10.8
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VendorName: Jonathan Jackson & Chase McCarthy
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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
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VendorName: Garth Poitras
ember-cli-moment-shim@0.7.3
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VendorName: Jason Mitchell
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ember-cli-node-assets@0.1.6
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ember-data@2.1.0  
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VendorName: Mike North  
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encodeurl@1.0.2
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VendorName: Guillermo Rauch
VendorUrl: https://github.com/LearnBoost/engine.io
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VendorUrl: http://www.medikoo.com/
es6-promise@4.0.5
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VendorName: Yehuda Katz, Tom Dale, Stefan Penner and contributors
VendorUrl: Conversion to ES6 API by Jake Archibald
es6-symbol@2.0.1
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es6-weak-map@0.1.4
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VendorUrl: http://www.medikoo.com/
escape-html@1.0.3
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escape-string-regexp@1.0.5
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VendorUrl: sindresorhus.com
etag@1.8.1
URL: https://github.com/jshttp/etag.git
event-emitter@0.3.5
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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
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VendorName: Aleksandr Tsertkov

exit@0.1.2
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VendorUrl: https://github.com/jonschlinkert/expand-range

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VendorUrl: http://expressjs.com/

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VendorName: Stefan Thomas
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extglob@0.3.2
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VendorUrl: https://github.com/epoberezkin/fast-deep-equal#readme

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findup-sync@0.2.1
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http-parser-js@0.4.10
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VendorName: Tim Caswell
VendorUrl: https://github.com/creationix
http-proxy@1.18.0
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http-signature@0.11.0
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Open Source Used In Imicampaign-blackduck 6.2

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  VendorUrl: sindresorhus.com
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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/andypperlitch/jsbn.git
VendorName: Tom Wu
jesc@0.5.0
URL: https://github.com/mathiasbynens/jesc.git
VendorName: Mathias Bynens
VendorUrl: http://mths.be/jesc
json-parse-better-errors@1.0.2
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/jonschlinkert/json-pointer.git
VendorName: Jon Schlinkert
kind-of@3.2.2
URL: https://github.com/jonschlinkert/kind-of.git
VendorName: Jon Schlinkert
json-pointer@6.0.2
URL: https://github.com/jonschlinkert/json-pointer.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
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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
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VendorUrl: https://lodash.com/
lodash_basecallback@3.3.1
URL: https://github.com/lodash/lodash.git
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VendorUrl: https://lodash.com/
lodash_basecopy@3.0.1
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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
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VendorName: John-David Dalton
VendorUrl: https://lodash.com/
lodash_baseisequal@3.0.7
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VendorUrl: https://lodash.com/
lodash_baseuniq@3.0.3
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VendorUrl: https://lodash.com/
lodash_bindcallback@3.0.1
URL: https://github.com/lodash/lodash.git
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VendorUrl: https://lodash.com/
lodash_cacheindexOf@3.0.2
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VendorName: John-David Dalton
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lodash_createassigner@3.1.1
URL: https://github.com/lodash/lodash.git
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VendorUrl: https://lodash.com/
lodash_createcache@3.1.2
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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._isiterateeecall@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
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VendorUrl: https://lodash.com/
lodash.defaults@3.1.2
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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/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
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VendorUrl: https://github.com/substack/minimist
minimist@1.2.0
URL: git://github.com/substack/minimist.git
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VendorUrl: https://github.com/substack/minimist
mkdirp@0.3.5
URL: http://github.com/substack/node-mkdirp.git
VendorName: James Halliday
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: https://github.com/sindresorhus
pinkie-promise@2.0.1
URL: https://github.com/floatdrop/pinkie-promise.git
VendorName: Vsevolod Strukchinsky
VendorUrl: https://github.com/floatdrop
pinkie@2.0.4
URL: https://github.com/floatdrop/pinkie.git
VendorName: Vsevolod Strukchinsky
VendorUrl: https://github.com/floatdrop
portfinder@0.4.0
URL: git@github.com:indexzero/node-portfinder.git
VendorName: Charlie Robbins
VendorUrl: https://github.com/indexzero
preserve@0.2.0
URL: git://github.com/jonschlinkert/preserve.git
VendorName: Jon Schlinkert
VendorUrl: https://github.com/jonschlinkert
private@0.1.8
URL: git://github.com/benjamn/private.git
VendorName: Ben Newman
VendorUrl: https://github.com/benjamn
process-nextick-args@1.0.7
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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
prr@1.0.1
URL: https://github.com/rvagg/prr.git
VendorName: Rod Vagg
VendorUrl: https://github.com/rvagg/prr
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
  VendorUrl: https://github.com/joliss/node-quick-temp
qunitjs@1.23.1
  URL: https://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
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
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repeat-string@1.6.1
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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 Koschtkzi
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
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URL: git://github.com/feross/safe-buffer.git
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safe-buffer@5.2.0
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VendorName: Feross Aboukhadijeh
VendorUrl: https://github.com/feross/safe-buffer
safer-buffer@2.1.2
URL: git+https://github.com/xzyfer/safer-buffer.git
VendorName: Nikita Skovoroda
VendorUrl: https://github.com/xzyfer
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
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scss-tokenizer@0.2.3
URL: https://github.com/sasstools/scss-tokenizer.git
VendorName: xzyfer
VendorUrl: https://github.com/sasstools/scss-tokenizer.git
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
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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
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VendorUrl: http://sindresorhus.com

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VendorUrl: http://sindresorhus.com

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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
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VendorUrl: sindresorhus.com

strip-indent@1.0.1
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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
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textextensions@2.6.0
URL: https://github.com/bevry/textextensions.git
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throttle@1.0.0
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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
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tmp@0.0.28
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to-array@0.1.3
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VendorUrl: sindresorhus.com
toidentifier@1.0.0
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trim-newlines@1.0.0
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VendorUrl: sindresorhus.com
trim-right@1.0.1
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VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
try-resolve@1.0.1
URL: https://github.com/sebnick/try-resolve.git
VendorName: Sebastian McKenzie
tyor@0.1.2
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VendorName: Olov Lassus
type-is@1.6.18
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typedarray@0.0.6
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uc.micro@1.0.6
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uglify-to-browserify@1.0.2
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ultron@1.0.2
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VendorName: Arnout Kazemier
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umask@1.1.0
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VendorName: Sam Mikes
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universalify@0.1.2
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unpipe@1.0.0
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user-home@1.1.1
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VendorUrl: http://sindresorhus.com
username-sync@1.0.2
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utf8@2.1.0
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VendorName: Mathias Bynens
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VendorName: Nathan Rajlich
VendorUrl: https://github.com/TooTallNate/util-deprecate
util-extend@1.0.3
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VendorName: Jared Hanson
VendorUrl: https://github.com/jaredhanson/utils-merge.git
VendorUrl: http://www.jaredhanson.net/
uuid@2.0.3
URL: https://github.com/defunctzombie/node-uuid.git
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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
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websocket-extensions@0.1.3
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xdg-basedir@2.0.0
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VendorUrl: sindresorhus.com
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URL: https://github.com/twokul/yam
VendorName: Alex Navasardyan
VendorUrl: http://twokul.io
yargs@3.10.0
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VendorName: Alex Ford
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yauzl@2.4.1
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VendorName: Josh Wolfe
VendorUrl: https://github.com/thejoshwolfe/yauzl
MIT*
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URL: git://github.com/Raynos/after.git
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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
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VendorUrl: http://github.com/cowboy/javascript-sync-async-foreach
blob@0.0.4
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indexof@0.0.1
ms@0.6.2
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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
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VendorName: Kristian Faeldt
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  URL: http://github.com/Marak/colors.js.git
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  VendorUrl: https://github.com/Marak/colors.js
Unlicense
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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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jaxb-api

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uriparser - RFC 3986 URI parsing library

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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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nativetask/src/main/native/lz4/lz4.{c|h}
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hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/native/container-
executor/implementations/{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
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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/libhdfs/third_party/gmock-1.7.0/*/*.cc|h]
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
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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dataTables.bootstrap.css
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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)

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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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  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

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    URL: git://github.com/fb55/entities.git
    VendorName: Felix Boehm

BSD-3-Clause
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    VendorName: Artur Adib
    VendorUrl: http://github.com/arturadib/shelljs
  sprintf-js@1.0.3
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    VendorName: Alexandru Marasteanu
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ISC
  fs.realpath@1.0.0
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    VendorName: Isaac Z. Schlueter
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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/

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URL: https://github.com/angular/angular.js.git  
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URL: https://github.com/angular/angular.js.git  
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VendorName: Caolan McMahon  
VendorUrl: https://caolan.github.io/async/

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VendorName: Julian Gruber  
VendorUrl: https://github.com/juliangruber/balanced-match

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VendorUrl: http://getbootstrap.com/

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VendorUrl: https://github.com/juliangruber/brace-expansion

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  VendorUrl: https://github.com/davidmarkclements/fast-safe-stringify#readme
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  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
  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
Open Source Used In imicampaign-blackduck 6.2

- **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

- **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

- **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 Aboukhadieh
  - VendorUrl: https://github.com/feross/safe-buffer

- **safe-buffer@5.2.0**
  - URL: git://github.com/feross/safe-buffer.git

- **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-swizzel.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
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
com.fasterxml.jackson.jaxrs:jackson-jaxrs-json-provider:2.10.5
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.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
com.google.errorprone:error_prone_annotations:2.3.3
com.google.j2objc:j2objc-annotations:1.1
com.google.gson:json-simple:1.1.1
com.google.guava:failureaccess:1.0
com.google.guava:guava:27.0-jre
com.google.guava:guava:jar:30.1.1-jre
com.google.j2objc:j2objc-annotations:1.3
com.microsoft.azure:azure-storage:7.0.1
com.nimbusds:nimbus-jose-jwt:9.8.1
com.squareup.okhttp:okhttp:2.7.5
com.squareup.okio:okio:1.6.0
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
commons-lang:commons-lang:2.6
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
io.grpc:grpc-context:1.26.0
io.grpc:grpc-core:1.26.0
io.grpc:grpc-netty:1.26.0
io.grpc:grpc-protobuf:1.26.0
io.grpc:grpc-protobuf-lite:1.26.0
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
org.apache.commons:commons-digester:1.8.1
org.apache.commons:commons-lang3:3.7
org.apache.commons:commons-math3:3.1.1
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.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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BSD 2-Clause
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hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.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
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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/libhdfs/third_party/protobuf/protobuf/cpp_helpers.h
hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/libhdfs/third_party/gmock-1.7.0/*/*.cc|h]
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
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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-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/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:bcpov-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: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

HSQ License

org.hsqldb:hsqldb:2.3.4

JDOM License

org.jdom:jdom:1.1

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ASI0-1.10.2 (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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1.11.555

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1.80 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 POIXMTextExtractor 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).

Alexey Butchik        Jeff Lavezzo              Philippe Laflamme
Andrew Shirley        Jens Gatze                Raiko Eckstein
Andrzej Bialecki      Jerry Soung               Rainer Schwarze
Antoni Mylka          Jonathan Holloway         Ranvijay Singh
Antony Bowsesman      Josh Micich               Rick Cameron
Antti Koskimaki       Jukka Zitting             Robert Kish
Attila Kiraily        Kai Zimmermann            Robin Salkeld
Thank you all very much! Contributions are always welcome, come join the project.

Release Contents

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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

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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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1.85 java-architecture-for-xml-binding 2.2.11

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1.94 jackson-core 2.9.8

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1.130 aws-java-sdk-for-amazon-cognito-identity-provider-service 1.11.172

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BSD-licensed, created by Anders Mller. See http://www.brics.dk/automaton/

The levenshtein automata tables (under core/src/java/org/apache/lucene/util/automaton) were
automatically generated with the moman/finenight FSA library, created by
Jean-Philippe Barrette-LaPierre. This library is available under an MIT license,
see http://sites.google.com/site/rrettesite/moman and
http://bitbucket.org/jpbarrette/moman/overview/

The class org.apache.lucene.util.WeakIdentityMap was derived from
the Apache CXF project and is Apache License 2.0.

The class org.apache.lucene.util.compress.LZ4 is a Java rewrite of the LZ4
compression library (https://github.com/lz4/lz4/tree/dev/lib) that is licensed
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This product includes code (JaspellTernarySearchTrie) from Java Spelling Checkin
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The snowball stemmers in
analysis/common/src/java/net/sf/snowball
were developed by Martin Porter and Richard Boulton.
The snowball stopword lists in
analysis/common/src/resources/org/apache/lucene/analysis/snowball
were developed by Martin Porter and Richard Boulton.
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

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/fi/FinnishLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/hu/HungarianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/it/ItalianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/pt/PortugueseLightStemmer.java
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.

The Polish analyzer (stempel) comes with a default stopword list that is BSD-licensed created by the Carrot2 project. The file resides in stempel/src/resources/org/apache/lucene/analysis/pl/stopwords.txt. See http://project.carrot2.org/license.html.

The SmartChineseAnalyzer source code (smartcn) was provided by Xiaoping Gao and copyright 2009 by www.imdict.net.

WordBreakTestUnicode_*.java (under modules/analysis/common/src/test/) is derived from Unicode data such as the Unicode Character Database. See http://unicode.org/copyright.html for more details.

The Morfologik analyzer (morfologik) includes BSD-licensed software developed by Dawid Weiss and Marcin Mikowski (http://morfologik.blogspot.com/).

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Servlet-api.jar and javax.servlet-*.jar are under the CDDL license, the original source code for this can be found at http://www.eclipse.org/jetty/downloads.php

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mecab-ko-dic-2.0.3-20170922

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https://bitbucket.org/eunjeon/mecab-ko-dic/downloads/mecab-ko-dic-2.0.3-20170922.tar.gz

1.133 convert-source-map 1.6.0

1.134 aws-java-sdk-for-aws-marketplace-metering-service 1.11.508

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1.137 aws-java-sdk-for-aws-kms 1.11.555

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1.140 kerby-util 1.0.1

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1.11.257

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1.154 aws-java-sdk-for-amazon-route-53-resolver 1.11.508

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1.11.555

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1.160 async 2.6.3

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1.161 apache-neethi 3.0.2

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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/Base64Variant.java
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1.164 jackson-dataformat-yaml 2.10.4
1.164.1 Available under license:
# Jackson JSON processor

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It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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#### 1.11.508

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1.166 aws-java-sdk-for-amazon-macie

1.11.508

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1.168  aws-java-sdk-for-aws-transfer-for-sftp

1.11.508

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1.177 aws-java-sdk-for-aws-lambda 1.11.257

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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 Mave
n 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-annota-
tions

Found in path(s):
* /opt/cola/permits/1131003388_1612875366.16/0/swagger-annotations-1-5-20-jar/META-INF/MANIFEST.MF

1.180 apache-commons-lang 3.12.0

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1.182 aws-java-sdk-for-auto-scaling 1.11.155

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org.apache.tomcat:tomcat-util-scan
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org.eclipse.jetty.toolchain:jetty-schemas

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* 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.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
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6etDj6AujozTuSIl59hUsWMQ=
=HmqH
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Point of Contact:
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E-Mail: gordon.king@simulalabs.com
Fax: +1 800 822 0471

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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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  * 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.

William Orr <will@worrbase.com>
* 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)

### 1.201 d3-time-format 2.3.0

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1.205 junit-platform-junit-platform-engine

1.7.2

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```java
import java.io.File
import java.net.URI

data class License(val name: String, val url: URI, val headerFile: File)

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1.210 axiom-api 1.2.21

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1.212 reactor-core 3.3.0.RELEASE

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1.221 slf4j-log4j-12-binding 1.6.3

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1.223 apache-poi-ooxml-schemas 3.10-FINAL

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1.235 aws-java-sdk-for-amazon-workspaces

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1.237 asm 3.1

1.238 aws-java-sdk-for-aws-securityhub

1.11.508

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1.239 aws-java-sdk-for-aws-config 1.11.155

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1.240 apache-commons-beanutils 1.9.3

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1.242 jackson-databind 2.6.7.1

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1.243 findbugs/jsr305 3.0.2

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1.250 aws-java-sdk-for-aws-codestar 1.11.508

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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.futurealoof.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.futurealoof.com
oauth-sign@0.9.0
URL: https://github.com/mikeal/oauth-sign
VendorName: Mikeal Rogers
VendorUrl: http://www.futurealoof.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.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
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
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
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
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
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
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  VendorName: Isaac Z. Schlueter
  VendorUrl: http://blog.izs.me/
fstream-ignore@1.0.5
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fstream-npm@1.0.7
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fstream@1.0.12
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  VendorUrl: http://blog.izs.me/
gauge@1.2.7
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  VendorName: Rebecca Turner
  VendorUrl: https://github.com/iarna/gauge
  gauge@2.7.4
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    VendorName: Rebecca Turner
    VendorUrl: https://github.com/iarna/gauge
get-caller-file@1.0.3
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  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
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
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VendorName: Isaac Z. Schlueter
VendorUrl: http://blog.izs.me/
glob@5.0.15
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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@gitlab.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
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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
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semver@5.3.0
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semver@5.7.1
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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
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VendorUrl: https://github.com/stefanpenner/silent-error#readme
slide@1.1.6
URL: git://github.com/isaacs/slide-flow-control.git
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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
validate-npm-package-name@3.0.0
URL: https://github.com/npm/validate-npm-package-name
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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
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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
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VendorUrl: http://sindresorhus.com
ansi-regex@2.1.1
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  VendorUrl: sindresorhus.com
ansi-regex@3.0.0
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  VendorUrl: sindresorhus.com
ansi-styles@1.0.0
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  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
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  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
  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-flatten
array-flatten@1.1.0
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VendorName: Jon Schlinkert
VendorUrl: https://github.com/jonschlinkert/arr-flatten
array-equal@1.0.0
URL: https://github.com/component/array-equal
VendorName: Jonathan Ong
VendorUrl: http://jongleberry.com
array-find-index@1.0.2
URL: https://github.com/sindresorhus/array-find-index
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
array-flatten@1.1.1
URL: git://github.com/blakeembrey/array-flatten
VendorName: Blake Embrey
VendorUrl: https://github.com/blakeembrey/array-flatten
array-index@1.0.0
URL: git://github.com/TooTallNate/array-index
VendorName: Nathan Rajlich
VendorUrl: http://tootallnate.net
array-unique@0.2.1
URL: git://github.com/jonschlinkert/array-unique
VendorName: Jon Schlinkert
VendorUrl: https://github.com/jonschlinkert/array-unique
arraybuffer.slice@0.0.6
URL: git@github.com:rase-/arraybuffer.slice.git
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asap@2.0.6
URL: https://github.com/kriskowal/asap
asn1@0.1.11
URL: git://github.com/mcavage/node-asn1
VendorName: Mark Cavage
asn1@0.2.4
URL: git://github.com/joyent/node-asn1
VendorName: Joyent
VendorUrl: joyent.com
assert-plus@0.2.0
URL: https://github.com/mcavage/node-assert-plus
VendorName: Mark Cavage
assert-plus@1.0.0
URL: https://github.com/mcavage/node-assert-plus
VendorName: Mark Cavage
ast-traverse@0.1.1
URL: https://github.com/olov/ast-traverse
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
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ast-types@0.9.6
URL: git://github.com/benjamn/ast-types.git
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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@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
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
broccoli-asset-rewrite@1.1.0
URL: git://github.com/rickharrison/broccoli-asset-rewrite
VendorName: Rick Harrison
broccoli-babel-transpiler@5.7.4
URL: https://github.com/babel/broccoli-babel-transpiler.git
VendorName: nightire
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
vendor-url: 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
broccoli-config-replace@1.1.2
URL: https://github.com/ember-cli/broccoli-config-replace
VendorName: yaymukund
broccoli-debug@0.6.5
URL: https://github.com/broccolijs/broccoli-debug.git
VendorName: Robert Jackson
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
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broccoli-funnel@1.2.0
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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
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broccoli-kitchen-sink-helpers@0.3.1
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VendorName: Jo Liss
broccoli-less-single@0.6.4
URL: https://github.com/gabrielgrant/broccoli-less-single
VendorName: Gabriel Grant
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broccoli-merge-trees@1.1.1
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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
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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: http://tjholowaychuk.com
bytes@3.0.0
URL: https://github.com/visionmedia/bytes.js.git
VendorName: TJ Holowaychuk
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bytes@3.1.0
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camelcase@1.2.1
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VendorUrl: http://sindresorhus.com
can-symlink@1.0.0
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VendorName: raytiley
cardinal@0.5.0
URL: git://github.com/thlorenz/cardinal.git
VendorName: Thorsten Lorenz
VendorUrl: thlorenz.com
center-align@0.1.3
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VendorName: Jon Schlinkert
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chlk@0.4.0
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VendorName: Sindre Sorhus
VendorUrl: http://sindresorhus.com
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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
clon@0.2.0
URL: git://github.com/pvorb/node-clone.git
VendorName: Paul Vorbach
VendorUrl: http://paul.vorba.ch/
clon@1.0.4
URL: git://github.com/pvorb/node-clone.git
VendorName: Paul Vorbach
VendorUrl: http://paul.vorba.ch/
clon@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
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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
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URL: https://github.com/visionmedia/commander.js.git
VendorName: TJ Holowaychuk
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commander@2.20.3
URL: https://github.com/tj/commander.js.git
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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
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concat-stream@1.6.2
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config-chain@1.1.12
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VendorUrl: http://github.com/dominictarr/config-chain
connect@3.7.0
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VendorUrl: http://tjholowaychuk.com
console-browserify@1.1.0
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VendorUrl: https://github.com/Raynos/console-browserify
consolidate@0.13.1
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VendorName: Mariusz Nowak
VendorUrl: http://www.medikoo.com/
dashdash@1.14.1
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VendorName: Trent Mick
VendorUrl: http://trentm.com
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VendorName: Raynos
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decamelize@1.2.0
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VendorUrl: https://github.com/bevry/editions

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VendorUrl: http://jongleberry.com

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VendorUrl: http://sindresorhus.com

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VendorUrl: http://substack.net

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VendorUrl: http://jongleberry.com

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VendorName: Sreenath Somarajapuram
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VendorName: Baptiste Meurant
ember-bootstrap@0.5.1
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VendorName: Simon Ihmig
  VendorUrl: http://kaliber5.github.io/ember-bootstrap/
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ember-cli-dependency-checker@1.2.0
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VendorName: Emre Unal
ember-cli-htmlbars-inline-precompile@0.3.1
  URL: https://github.com/pangratz/ember-cli-htmlbars-inline-precompile
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VendorName: Jonathan Jackson & Chase McCarthy
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VendorUrl: https://github.com/rwjblue/ember-cli-inject-live-reload
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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
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VendorName: Jason Mitchell
ember-cli-node-assets@0.1.6
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VendorName: Dan Freeman
ember-cli-numeral@0.2.0
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ember-cli-qunit@1.2.1
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ember-cli-release@0.2.8
URL: https://github.com/lytics/ember-cli-release.git
VendorName: Steven Lindberg
ember-cli-sass@7.0.0
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ember-cli-sri@1.2.1
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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
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
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es6-weak-map@0.1.4
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escape-html@1.0.3
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escape-string-regexp@1.0.5
URL: https://github.com/sindresorhus/escape-string-regexp.git
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VendorUrl: sindresorhus.com
etag@1.8.1
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event-emitter@0.3.5
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URL: git://github.com/primus/eventemitter3.git
VendorName: Arnout Kazemier
exec-sh@0.2.2
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VendorName: Aleksandr Tsertkov
exit@0.1.2
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express@4.17.1
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VendorUrl: https://github.com/jonschlinkert/extglob
extsprintf@1.3.0
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fast-deep-equal@2.0.1
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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
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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
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VendorName: James Coglan
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finalhandler@1.1.2
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find-up@1.1.2
URL: https://github.com/sindresorhus/find-up.git
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
findup-sync@0.2.1
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fireworm@0.6.6
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forwarded@0.1.2
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fireworm@0.6.6
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VendorName: Toby Ho
VendorUrl: http://tjholowaychuk.com
fs-extra@0.16.5
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fs-readdir-recursive@0.1.2
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VendorUrl: http://jongleberry.com
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fs-tree-diff@0.4.4
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VendorName: Kyle Robinson Young
VendorUrl: https://github.com/shama/gaze
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VendorName: Mathias Buus
VendorUrl: https://github.com/mafintosh/generate-function
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VendorName: Sindre Sorhus
VendorUrl: http://sindresorhus.com
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Open Source Used In imicampaign-blackduck 6.2 1409
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VendorUrl: http://www.handlebarsjs.com/
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VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
has-binary@0.1.6
VendorName: Kevin Roark
has-color@0.1.7
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VendorName: Sindre Sorhus
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<td><a href="http://jongleberry.com">http://jongleberry.com</a></td>
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<td>Tim Caswell</td>
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VendorUrl: http://sindresorhus.com

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VendorName: whitequark

is-arrayish@0.2.1
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VendorName: Qix
VendorUrl: http://qix-

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VendorName: Feross Aboukhadijeh
VendorUrl: http://feross.org/

is-builtin-module@1.0.0
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VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

is-dotfile@1.0.3
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VendorUrl: https://github.com/jonschlinkert/is-dotfile

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VendorUrl: https://github.com/jonschlinkert/is-equal-shallow

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VendorUrl: https://github.com/jonschlinkert/is-extendable

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VendorUrl: https://github.com/jonschlinkert/is-extglob

is-finite@1.0.2
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VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

is-fullwidth-code-point@1.0.0
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VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

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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

Open Source Used In imicampaign-blackduck 6.2 1413
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is-my-ip-valid@1.0.0
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is-my-json-valid@2.20.0
URL: https://github.com/mafintosh/is-my-json-valid.git
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is-posix-bracket@0.1.1
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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
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VendorName: Julian Gruber
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VendorName: Hugh Kennedy
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isbinaryfile@2.0.4
URL: https://github.com/gjtorikian/isBinaryFile

isobject@2.1.0
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VendorName: Jon Schlinkert
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isstream@0.1.2
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VendorName: Rod Vagg
VendorUrl: https://github.com/rvagg/isstream

istextorbinary@2.1.0
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VendorName: 2012+ Bevry Pty Ltd
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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
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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 Pobereznk
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

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load-json-file@1.1.0
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loader.js@4.2.3
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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
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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
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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
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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@0.9.1
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: http://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
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
prr@1.0.1
   URL: https://github.com/rvagg/prr.git
   VendorName: Rod Vagg
   VendorUrl: https://github.com/rvagg/prr
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
   VendorUrl: https://github.com/joliss/node-quick-temp
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
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

request-progress@2.0.1
URL: https://github.com/sindresorhus/request-progress.git
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

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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 Koschtkzi
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
source-map-support@0.2.10
URL: https://github.com/evanw/node-source-map-support
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/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/nodejs/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-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
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/jshhttp/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@1.1.0  
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/  
VendorName: Jeremy Ashkenas  
VendorUrl: http://underscorejs.org/
universalify@0.1.2  
URL: git+https://github.com/RyanZim/universalify.git
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
websocket-extensions@0.1.3
VendorName: James Coglan
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

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VendorUrl: sindresorhus.com

ws-pure@0.8.0
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VendorName: Pat O'Callaghan

xdg-basedir@2.0.0
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xmlhttprequest-ssl@1.5.1
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VendorName: Michael de Wit

xtend@4.0.2
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VendorName: Raynos
VendorUrl: https://github.com/Raynos/xtend

yam@0.0.18
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VendorName: Alex Navasardyan
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yargs@3.10.0
URL: http://github.com/bcoe/yargs.git
VendorName: Alex Ford
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VendorName: Alex Ford
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after@0.8.1
VendorName: Raynos
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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
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callsite@1.0.0
VendorName: TJ Holowaychuk
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component-emitter@1.1.2
URL: https://github.com/component/emitter.git
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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 Gonzalez
VendorUrl: https://github.com/scottgonzalez/node-git-tools
indexof@0.0.1
ms@0.6.2
URL: git://github.com/luke/diff-match-patch.git
VendorName: Luke Greeley
VendorUrl: https://github.com/luke/diff-match-patch
object-component@0.0.3
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      VendorName: Christian Hoffmeister
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      URL: git://github.com/fb55/entities.git
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      VendorName: Artur Adib
      VendorUrl: http://github.com/arturadib/shelljs

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      URL: https://github.com/alexei/sprintf.js.git
      VendorName: Alexandru Marasteanu
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   VendorName: Isaac Z. Schlueter
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1.253 infinispan-parent 8.2.5.Final

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1.255 aws-java-sdk-for-aws-step-functions

1.11.555

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1.256 jackson-databind 2.6.6

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1.257 aws-java-sdk-for-aws-resource-groups-tagging-api 1.11.555

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1.258 swimlane---ngx-charts 12.1.0

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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

1.261 aws-java-sdk-for-amazon-pinpoint

1.11.555

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1.262 aws-java-sdk-for-the-aws-cloudbsm

1.11.555

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(1)

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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 frameork 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 LIBUTIFF:

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1.270 aws-java-sdk-for-aws-elemental-mediapackage 1.11.555

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1.271 aws-java-sdk-for-aws-database-migration-service 1.11.555

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1.274 joda-time 2.8.1

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1.275 tmp v0.1.0

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1.277 java-classmate classmate-1.5.1

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1.278 d3-shape 1.2.0

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1.279 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/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/CssHandler.java
* /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/ScanException.java
* /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
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* /opt/cola/permits/1046386456_1611209709.41/0/antisamy-1-4-3-sources-2.jar/org/owasp/validator/html/model/Tag.java
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* /opt/cola/permits/1130988593_1612871608.58/0/j2objc-annotations-1-1-sources-4-jar/com/google/j2objc/annotations/AutoreleasePool.java
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1.299 d3-zoom 1.7.1

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* /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
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* /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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jar/org/springframework/transaction/aspectj/AspectJTransactionManagementConfiguration.java
* /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/AspectJCachingConfiguration.java
* /opt/cola/permits/1239974766_1639111693.19/0/spring-aspects-4-0-1-release-sources-
jar/org/springframework/beans/factory/aspectj/ConfigurableObject.java

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* /opt/cola/permits/1239972999_1639111677.87/0/quick-json-1-0-4-sources-jar/com/codesnippets4all/json/serializers/NumberSerializer.java

1.307 stax-api 1.0.1

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data class License(val name: String, val url: URI, val headerFile: File)

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1.351 isaacs-once 1.4.0

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1.352 hibernate-orm 5.4.32.Final

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# The main CI of Hibernate ORM is https://ci.hibernate.org/job/hibernate-orm-6.0-h2-main/.
# 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
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* /opt/cola/permits/1206722448_1632456694.38/0/error-prone-annotations-2-1-3-sources-12-jar/com/google/errorprone/annotations/concurrent/LockMethod.java
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1.363 aws-sdk-for-java 1.11.155

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* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.150/cglib-2-2-sources-jar/net/sf/cglib/core/ReflectUtils.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.150/cglib-2-2-sources-jar/net/sf/cglib/transform/impl/AddStaticInitTransformer.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.150/cglib-2-2-sources-jar/net/sf/cglib/reflect/FastClassEmitter.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.150/cglib-2-2-sources-jar/net/sf/cglib/core/KeyFactory.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.150/cglib-2-2-sources-jar/net/sf/cglib/beans/BulkBeanEmitter.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.150/cglib-2-2-sources-jar/net/sf/cglib/proxy/MethodInterceptorGenerator.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.150/cglib-2-2-sources-jar/net/sf/cglib/beans/ImmutableBean.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.150/cglib-2-2-sources-jar/net/sf/cglib/beans/BeanCopier.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.150/cglib-2-2-sources-jar/net/sf/cglib/proxy/LazyLoaderGenerator.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.150/cglib-2-2-sources-jar/net/sf/cglib/core/DefaultNamingPolicy.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.150/cglib-2-2-sources-jar/net/sf/cglib/proxy/MixinEmitter.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.150/cglib-2-2-sources-jar/net/sf/cglib/core/EmitUtils.java

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  jar/net/sf/cglib/transform/ClassVisitorTee.java
* /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
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* /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
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* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/transform/impl/AccessFieldTransformer.java
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* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/core/CodeGenerationException.java
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* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib/transform/impl/InterceptorTransformFilter.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib/transform/impl/UndeclaredThrowableTransformer.java
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1.11.555

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1.389 spring-framework 4.3.11.RELEASE

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1.392 aws-java-sdk-for-amazon-workspaces

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* /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

1.396 aws-java-sdk-for-amazon-kinesis-analytics 1.11.555

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1.11.555

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import java.io.File
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data class License(val name: String, val url: URI, val headerFile: File)
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1.11.172

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1.11.155

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1.429 commons-compress 2.1.1

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1.11.508

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1.431 aws-java-sdk-for-aws-budgets 1.11.172

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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
def-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
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  VendorUrl: http://www.futurealoof.com
kew@0.7.0
  URL: https://github.com/Medium/kew.git
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less@2.7.3
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  VendorName: Alexis Sellier
  VendorUrl: http://lesscss.org/
oauth-sign@0.8.2
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oauth-sign@0.9.0
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phantomjs-prebuilt@2.1.13
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  VendorName: Dan Pupius
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request@2.65.0
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request@2.74.0
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spdx-correct@3.1.0
  URL: https://github.com/jslicense/spdx-correct.js.git
  VendorName: Kyle E. Mitchell
Open Source Used In imicampaign-blackduck 6.2

spdx@0.4.3
  VendorName: Kyle E. Mitchell
  VendorUrl: https://github.com/kemitchell/spdx.js
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true-case-path@1.0.3
  VendorName: barsh
  VendorUrl: https://github.com/barsh/true-case-path#readme
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  VendorName: Mikeal Rogers
  VendorUrl: http://www.futurealoof.com
  URL: https://github.com/mikeal/tunnel-agent

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

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

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

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

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

Artistic-2.0
  npm@2.14.10
    VendorName: Isaac Z. Schlueter
    VendorUrl: https://docs.npmjs.com/
    URL: https://github.com/npm/npm

BSD
  graceful-fs@2.0.3
    VendorName: Isaac Z. Schlueter
    VendorUrl: http://blog.izs.me
    URL: git://github.com/isaacs/node-graceful-fs
mute-stream@0.0.4
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osenv@0.0.3
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  VendorName: Isaac Z. Schlueter
  VendorUrl: http://blog.izs.me/
tar@1.0.3
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  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
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domhandler@2.3.0
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domutils@1.5.1
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entities@1.0.0
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  VendorName: Felix Boehm
entities@1.1.2
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esprima@2.7.3
  URL: https://github.com/jquery/esprima.git
  VendorName: Ariya Hidayat
  VendorUrl: http://esprima.org/
esprima@3.1.3
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  VendorUrl: http://esprima.org/
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  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
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  VendorName: Meryn Stol
npm-install-checks@1.0.7
  URL: git://github.com/npm/npm-install-checks.git
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  VendorUrl: https://github.com/npm/npm-install-checks
npm-user-validate@0.1.5
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  VendorName: Robert Kowalski
regenerator@0.8.40
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  VendorName: Ben Newman
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regjsparser@0.1.5
  URL: git@github.com:jviereck/regjsparser.git
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  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
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boom@2.10.1
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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
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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
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shelljs@0.3.0
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  VendorUrl: http://github.com/arturadib/shelljs
source-map@0.1.32
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VendorName: Nick Fitzgerald
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source-map@0.5.7
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VendorName: Nick Fitzgerald
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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
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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/kemitche/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
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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
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block-stream@0.0.8
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VendorUrl: http://blog.izs.me/
block-stream@0.0.9
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broccoli-viz@2.0.1
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char-spinner@1.0.1
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chownr@1.0.1
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chownr@1.1.3
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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

---

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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
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VendorName: Isaac Z. Schlueter
VendorUrl: https://github.com/npm/fs-write-stream-atomic
fs.realpath@1.0.0
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VendorName: Isaac Z. Schlueter
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fstream-ignore@1.0.5
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fstream-npm@1.0.7
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gauge@1.2.7
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gauge@2.7.4
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get-caller-file@1.0.3
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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/
in-initiative-json@1.9.6
URL: https://github.com/npm/in-initiative-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
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- **npm-package-arg@4.0.2**
  - URL: https://github.com/npm/npm-package-arg
  - VendorName: Isaac Z. Schlueter
  - VendorUrl: https://izs.me

- **npm-package-arg@4.2.1**
  - URL: https://github.com/npm/npm-package-arg
  - VendorName: Isaac Z. Schlueter
  - VendorUrl: https://izs.me

- **npm-package-arg@5.1.2**
  - URL: https://github.com/npm/npm-package-arg
  - VendorName: Isaac Z. Schlueter
  - VendorUrl: https://izs.me

- **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
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: https://github.com/chalk/ansi-styles.git
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VendorUrl: https://github.com/chalk/ansi-styles
ansi-styles@1.1.0
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VendorUrl: http://sindresorhus.com
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VendorUrl: sindresorhus.com
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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
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async@1.5.2
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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
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
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VendorName: Twitter
VendorUrl: https://github.com/bower/shrinkwrap-resolver-ext
bower-shrinkwrap-resolver-ext@0.1.0
  URL: https://github.com/sreenaths/bower-shrinkwrap-resolver-ext
VendorName: Twitter
VendorUrl: 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:
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
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VendorName: Jo Liss
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VendorName: Stefan Penner
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VendorName: Kris Selden
VendorUrl: https://github.com/broccolijs/broccoli-sane-watcher
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ember-cli-less@1.5.7
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VendorName: Garth Poitras
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VendorName: Estelle DeBlois
ember-data@2.1.0
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VendorName: Miguel Camba
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VendorName: Mike North
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VendorUrl: sindresorhus.com
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VendorName: Mariusz Nowak
VendorUrl: http://www.medikoo.com/
make-array@0.1.2
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VendorName: kael
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VendorUrl: sindresorhus.com
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mime@1.6.0
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VendorName: Robert Kieffer
VendorUrl: http://github.com/broofa

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VendorUrl: http://blog.izs.me

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VendorUrl: http://2x.io

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source-map-url@0.3.0
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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
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URL: git+https://github.com/joyent/node-sshpk.git
VendorName: Joyent, Inc
VendorUrl: https://github.com/arekinath/node-sshpk#readme
stable@0.1.8
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VendorUrl: sindresorhus.com
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VendorName: Michael Hart
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strip-ansi@0.1.1
URL: https://github.com/sindresorhus/strip-ansi.git
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VendorUrl: sindresorhus.com
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supports-color@0.2.0
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VendorUrl: sindresorhus.com
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text-table@0.2.0
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VendorUrl: sindresorhus.com
toidentifier@1.0.0
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trim-newlines@1.0.0
  URL: https://github.com/sindresorhus/trim-newlines.git
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trim-right@1.0.1
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tyor@0.1.2
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  URL: https://github.com/unshiftio/ultron
VendorName: Arnout Kazemier
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underscore@1.9.1
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universalify@0.1.2
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VendorUrl: https://github.com/RyanZim/universalify#readme
unpipe@1.0.0
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VendorUrl: http://sindresorhus.com
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VendorName: Stefan Penner
utf8@2.1.0
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VendorUrl: https://mths.be/utf8js
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VendorName: Nathan Rajlich
VendorUrl: https://github.com/TooTallNate/util-deprecate
util-extend@1.0.3
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VendorName: Jared Hanson
VendorUrl: http://www.jaredhanson.net/
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URL: https://github.com/kelektiv/node-uuid.git
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URL: git://github.com/davepacheco/node-verror.git
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VendorName: Tim Oxley
VendorUrl: https://github.com/timoxley/wcwidth#readme

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ws-pure@0.8.0
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xmlhttprequest-ssl@1.5.1
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VendorUrl: http://twokul.io
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URL: http://github.com/bcoe/yargs.git
VendorName: Alex Ford
VendorUrl: http://CodeTunnel.com
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  VendorUrl: http://CodeTunnel.com
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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
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  VendorUrl: https://github.com/rase/-blob
callsite@1.0.0
  VendorName: TJ Holowaychuk
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  VendorName: Scott Gonzalez
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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

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base64id@0.1.0
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  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 Pourkhamami

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JUnit

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Zstd-jni: JNI bindings to Zstd Library

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uriparser - RFC 3986 URI parsing library

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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/gmock-1.7.0/*/*.cc
hadoop-common-project/hadoop-common/src/main/native/libhdfspp/third_party/uriparser2

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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
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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/*

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

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

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org.yaml:snakeyaml:1.26
org.wildfly.openssl:wildfly-openssl:1.0.7.Final

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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/*
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CDDL 1.1 + GPLv2 with classpath exception

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junit:junit:4.13.1

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HSQL License
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org.hsqldb:hsqldb:2.3.4

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

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1.11.555

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1.436 aws-java-sdk-for-aws-codestar 1.11.155

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1.437 aws-java-sdk-for-amazon-cognito-identity 1.11.257

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1.448 animal-sniffer-annotation 1.17

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* /opt/ws_local/PERMITS_SQL/1049165745_1591417514.84/0/animal-sniffer-annotations-1-17-sources-1-
jar/org/codehaus/mojo/animal_sniffer/IgnoreJRERequirement.java

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* /opt/ws_local/PERMITS_SQL/1049165745_1591417514.84/0/animal-sniffer-annotations-1-17-sources-1-
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1.449 aws-java-sdk-for-aws-sts 1.11.257

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1.450 aws-java-sdk-for-aws-codestar 1.11.172

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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


## More

See [Wiki] ../../wiki for more information (javadocs).

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1.461 ngx-cookie-service 2.4.0

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**1.462 angular-core 7.0.3**

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1.463 hppc 0.8.1

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1.464 aws-java-sdk-for-aws-robomaker

1.11.555

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1.465 aws-java-sdk-for-amazon-clouddirectory 1.11.172

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1.11.155

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1.474 aws-java-sdk-for-the-aws-simple-systems-management-(ssm)-service 1.11.555

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It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007.
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1.489 aws-java-sdk-for-aws-codedeploy

1.11.257

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**1.11.508**

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  jar/net/fortuna/ical4j/model/parameter/Abbrev.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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* /opt/cola/permits/1239974758_1639111691.68/0/ical4j-1-0-7-sources-jar/net/fortuna/ical4j/model/parameter/DelegatedFrom.java
* /opt/cola/permits/1239974758_1639111691.68/0/ical4j-1-0-7-sources-jar/net/fortuna/ical4j/model/parameter/Type.java
* /opt/cola/permits/1239974758_1639111691.68/0/ical4j-1-0-7-sources-jar/net/fortuna/ical4j/model/PropertyFactoryImpl.java
* /opt/cola/permits/1239974758_1639111691.68/0/ical4j-1-0-7-sources-jar/net/fortuna/ical4j/model/AddressList.java
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* /opt/cola/permits/1239974758_1639111691.68/0/ical4j-1-0-7-sources-jar/net/fortuna/ical4j/model/property/DateProperty.java
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* /opt/cola/permits/1239974758_1639111691.68/0/ical4j-1-0-7-sources-jar/net/fortuna/ical4j/model/property/Geo.java
* /opt/cola/permits/1239974758_1639111691.68/0/ical4j-1-0-7-sources-jar/net/fortuna/ical4j/model/LocationTypeList.java
* /opt/cola/permits/1239974758_1639111691.68/0/ical4j-1-0-7-sources-jar/net/fortuna/ical4j/model/property/Country.java

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* /opt/cola/permits/1239974758_1639111691.68/0/ical4j-1-0-7-sources-jar/net/fortuna/ical4j/util/package.html

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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", "VTTODO" 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 = *(";"); classvalue = "PUBLIC" / "PRIVATE" / "CONFIDENTIAL" / iana-token
Example: The following is an example of this property:

```java
CLASS:PUBLIC
```

Constant for confidential classification.

1.497 azure-identity 1.1.0-beta.1

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* /opt/cola/permits/1239450616_1639077025.59/0/azure-identity-1-1-0-beta-1-sources-jar/com/azure/identity/InteractiveBrowserCredential.java
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1.498 readable-stream 3.6.0

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1.499 aws-java-sdk-for-amazon-cognito-identity 1.11.155

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1.500 jackson-core 2.6.7

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1.502 apache-http-client 4.5.5

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1.505 aws-java-sdk-for-amazon-ec2 1.11.155

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1.506 aws-java-sdk-for-aws-application-discovery-service 1.11.508

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1.507 aws-java-sdk-for-aws-application-auto-scaling 1.11.257

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1.11.257

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1.528 jersey-json 1.19

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1.11.508

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- `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/es/SpanishMinimalStemmer.java`
- `analysis/common/src/java/org/apache/lucene/analysis/fi/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.

The Polish analyzer (stempel) comes with a default stopword list that is BSD-licensed created by the Carrot2 project. The file resides in `stempel/src/resources/org/apache/lucene/analysis/pl/stopwords.txt`. See https://project.carrot2.org/license.html.

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VERSION: 2.1 PoliMorf
BUILD: 2016-02-13 19:37:50+01:00
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1.541 functionality-for-the-reactor-netty-library 1.0.10

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1.543 apache-hadoop 3.3.1

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    VendorUrl: https://github.com/xmldom/xmldom
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    URL: https://github.com/jshint/jshint.git
    VendorName: Anton Kovalyov
    VendorUrl: http://jshint.com/
(MIT OR Apache-2.0)
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    VendorName: Mikeal Rogers
    VendorUrl: http://www.futurealoof.com
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    VendorUrl: https://facebook.github.io/watchman/docs/bser.html
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VendorUrl: http://www.futurealoof.com
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URL: https://github.com/Medium/kew.git
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less@2.7.3
URL: https://github.com/less/less.js.git
VendorName: Alexis Sellier
VendorUrl: http://lesscss.org/
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URL: https://github.com/mikeal/oauth-sign
VendorName: Mikeal Rogers
VendorUrl: http://www.futurealoof.com
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VendorName: Mikeal Rogers
VendorUrl: http://www.futurealoof.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
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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
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VendorUrl: http://www.futurealoof.com
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VendorName: Kyle E. Mitchell
VendorUrl: https://kemitchell.com
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VendorName: Naitik Shah
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VendorName: Isaac Z. Schlueter
VendorUrl: https://docs.npmjs.com/
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    VendorUrl: http://blog.izs.me/
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    VendorName: Sindre Sorhus
    VendorUrl: sindresorhus.com
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    VendorName: Felix Boehm
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  VendorName: max ogden  
  VendorUrl: https://github.com/maxogden/extract-zip

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  URL: git@github.com:robertkowalski/github-url-from-username-repo.git  
  VendorName: Robert Kowalski

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  URL: git://github.com/npm/normalize-package-data.git  
  VendorName: Meryn Stol

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  VendorName: Meryn Stol

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  VendorName: Robert Kowalski  
  VendorUrl: https://github.com/npm/npm-install-checks

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  VendorName: Robert Kowalski

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  VendorName: Ben Newman  
  VendorUrl: http://github.com/facebook/regenerator

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  VendorUrl: https://github.com/jviereck/regjsparser

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  URL: https://github.com/mishoo/UglifyJS2.git  
  VendorName: Mihai Bazon  
  VendorUrl: http://lisperator.net/uglifyjs

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  URL: http://github.com/garycourt/uri-js  
  VendorName: Gary Court  
  VendorUrl: https://github.com/garycourt/uri-js

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  VendorName: Dav Glass

cryptiles@2.0.5  
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hawk@3.1.3  
  URL: git://github.com/hueniverse/hawk
VendorName: Eran Hammer
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hoek@2.16.3
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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
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VendorUrl: http://alexei.ro/
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VendorUrl: https://github.com/salesforce/tough-cookie

BSD-3-Clause OR MIT
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VendorName: James Burke
VendorUrl: http://github.com/jrburke/amdefine

BSD*
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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
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URL: https://github.com/kemitchell/spdx-exceptions.json.git
VendorName: The Linux Foundation

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VendorName: Shinnosuke Watanabe
VendorUrl: https://github.com/shinnn

ISC
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VendorName: Isaac Z. Schlueter
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URL: https://github.com/es128/anymatch
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VendorUrl: https://github.com/es128/anymatch
apropa@1.2.0
URL: https://github.com/iarna/apropa
VendorName: Rebecca Turner
VendorUrl: https://github.com/iarna/apropa
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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
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VendorName: Isaac Z. Schlueter
VendorUrl: http://blog.izs.me/
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VendorName: Isaac Z. Schlueter
VendorUrl: http://blog.izs.me/
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VendorName: Stefan Penner
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VendorName: Isaac Z. Schlueter
VendorUrl: https://github.com/isaacs/char-spinner

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VendorName: Isaac Z. Schlueter
VendorUrl: http://blog.izs.me/

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VendorName: Isaac Z. Schlueter
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URL: git://github.com/isaacs/chownr.git
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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

core-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

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URL: git+https://github.com/ember-cli/get-dependency-depth.git
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ember-cli-is-package-missing@1.0.0
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ember-cli-normalize-entity-name@1.0.0
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ember-cli-preprocessor-registry@1.1.0
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VendorUrl: https://github.com/npm/fs-vacuum

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VendorName: Isaac Z. Schlueter
VendorUrl: https://github.com/npm/fs-write-stream-atomic

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

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

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

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VendorName: Elan Shanker

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  VendorUrl: thlorenz.com

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VendorName: Yehuda Katz, Tom Dale, Stefan Penner and contributors
VendorUrl: Conversion to ES6 API by Jake Archibald
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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
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fast-deep-equal@2.0.1
  URL: 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
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
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fill-range@2.2.4
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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
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
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URL: https://github.com/Filirom1/findup.git
VendorName: Filirom1
fireworm@0.6.6
URL: git@github.com:airporty/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
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VendorName: Jon Schlinkert
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for-own@0.1.5
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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
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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
see below by clicking the [here](https://github.com/jprichardson/node-fs-extra) reference link.

**Vendor Name:** JP Richardson

**Vendor URL:** [GitHub](https://github.com/jprichardson/node-fs-extra)

### fs-extra@0.24.0

**URL:** [GitHub](https://github.com/jprichardson/node-fs-extra)

**Vendor Name:** JP Richardson

**Vendor URL:** [GitHub](https://github.com/jprichardson/node-fs-extra)

### fs-extra@0.30.0

**URL:** [GitHub](https://github.com/jprichardson/node-fs-extra)

**Vendor Name:** JP Richardson

**Vendor URL:** [GitHub](https://github.com/jprichardson/node-fs-extra)

### fs-extra@5.0.0

**URL:** [GitHub](https://github.com/jprichardson/node-fs-extra)

**Vendor Name:** JP Richardson

**Vendor URL:** [GitHub](https://github.com/jprichardson/node-fs-extra)

### fs-readdir-recursive@0.1.2

**URL:** [GitHub](https://github.com/fs-utils/fs-readdir-recursive.git)

**Vendor Name:** Jonathan Ong

**Vendor URL:** [Jonathan Ong](http://jongleberry.com)

### fs-tree-diff@0.3.1

**URL:** [GitHub](https://github.com/stefanpenner/fs-tree-diff.git)

**Vendor Name:** Stefan Penner, David J. Hamilton, Chad Hietala

### fs-tree-diff@0.4.4

**URL:** [GitHub](https://github.com/stefanpenner/fs-tree-diff.git)

**Vendor Name:** Stefan Penner, David J. Hamilton, Chad Hietala

### fs-tree-diff@0.5.9

**URL:** [GitHub](https://github.com/stefanpenner/fs-tree-diff.git)

**Vendor Name:** Stefan Penner, David J. Hamilton, Chad Hietala

### gaze@1.1.3

**URL:** [GitHub](https://github.com/shama/gaze.git)

**Vendor Name:** Kyle Robinson Young

**Vendor URL:** [GitHub](https://github.com/shama/gaze)

### generate-function@2.3.1

**URL:** [GitHub](https://github.com/mafintosh/generate-function)

**Vendor Name:** Mathias Buus

**Vendor URL:** [GitHub](https://github.com/mafintosh/generate-function)

### generate-object-property@1.2.0

**URL:** [GitHub](https://github.com/mafintosh/generate-object-property)

**Vendor Name:** Mathias Buus

**Vendor URL:** [GitHub](https://github.com/mafintosh/generate-object-property)

### get-stdin@4.0.1

**URL:** [GitHub](https://github.com/sindresorhus/get-stdin.git)

**Vendor Name:** Sindre Sorhus

**Vendor URL:** [Sindre Sorhus](http://sindresorhus.com)

### getpass@0.1.7

**URL:** [GitHub](https://github.com/arekinath/node-getpass.git)

**Vendor Name:** Alex Wilson

### git-repo-info@1.4.1

**URL:** [GitHub](https://github.com/rwjblue/git-repo-info.git)

**Vendor Name:** Robert Jackson
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
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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
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VendorName: Felix Boehm
http-errors@1.3.1
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VendorUrl: http://jongleberry.com
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URL: git://github.com/creationix/http-parser-js.git
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http-proxy@1.18.0
URL: https://github.com/http-party/node-http-proxy.git
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http-signature@0.11.0
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VendorUrl: https://github.com/jonschlinkert/is-primitive
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URL: git://github.com/mikolalysenko/is-property.git
VendorName: Mikola Lysenko
is-stream@1.1.0
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VendorUrl: sindresorhus.com
is-type@0.0.1
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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
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VendorName: 2012+ Bevry Pty Ltd
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js-tokens@1.0.1
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VendorName: Simon Lydell
VendorUrl: https://github.com/lydell/js-tokens

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/andypenglitch/jsbn.git
VendorName: Tom Wu
VendorUrl: https://github.com/andypenglitch/jsbn

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
VendorUrl: https://github.com/zkat/json-parse-better-errors

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json3@3.2.6
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VendorName: Kit Cambridge
VendorUrl: http://bestiejs.github.io/json3

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VendorName: Aseem Kishore
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VendorUrl: https://github.com/jprichardson/node-klaw#readme
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VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
leek@0.0.18
URL: https://github.com/twokul/leek
VendorName: Alex Navasardyan
VendorUrl: http://twokul.io
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URL: https://github.com/sindresorhus/leven.git
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
linkify-it@1.2.4
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  VendorUrl: sindresorhus.com
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VendorName: xzyfer

scss-tokenizer@0.2.3
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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
VendorUrl: https://github.com/pillarjs/send

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: https://github.com/sindresorhus/shebang-regex

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: https://github.com/sindresorhus/slash

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
VendorName: Simon Lydell
VendorUrl: https://github.com/Automattic/socket.io-parser

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source-map-support@0.2.10
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VendorName: Simon Lydell
VendorUrl: https://github.com/evanw/node-source-map-support

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URL: https://github.com/lydell/source-map-url.git
VendorName: Simon Lydell
VendorUrl: https://github.com/lydell/source-map-url
spawnback@1.0.0
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VendorName: Scott Gonzalez
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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
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statuses@1.5.0
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VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
string.prototype.endsWith@0.2.0
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stringmap@0.2.2
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stringstream@0.0.6
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VendorUrl: http://github.com/mhart
strip-ansi@0.1.1
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VendorUrl: sindresorhus.com
styled_string@0.0.1
VendorName: Toby Ho
supports-color@0.2.0
URL: https://github.com/sindresorhus/supports-color.git
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VendorUrl: sindresorhus.com
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tap-parser@1.3.2
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temp@0.8.1
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testem@0.9.11
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text-extensions@2.6.0
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threadit@1.0.0
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VendorUrl: sindresorhus.com
trim-right@1.0.1
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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
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VendorName: Olov Lassus
type-is@1.6.18
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typedarray@0.0.6
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VendorName: James Halliday
VendorUrl: https://github.com/substack/typedarray
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universalify@0.1.2
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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
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VendorUrl: http://sindresorhus.com
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VendorName: Mathias Bynens
VendorUrl: https://mths.be/utf8js
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VendorName: Nathan Rajlich
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uuid@2.0.3
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URL: https://github.com/kelektiv/node-uuid.git
vary@1.1.2
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websocket-extensions@0.1.3
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VendorName: James Halliday
VendorUrl: http://substack.net

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VendorUrl: http://substack.net

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URL: https://github.com/chalk/wrap-ansi.git
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

ws-pure@0.8.0
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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
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VendorName: Raynos
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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

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  VendorName: Josh Wolfe
  VendorUrl: https://github.com/thejoshwolfe/yauzl

MIT*
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    URL: git://github.com/Raynos/after.git
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  assert-plus@0.1.5
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    VendorName: Mark Cavage
  async-foreach@0.1.3
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    VendorName: "Cowboy" Ben Alman
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  blob@0.0.4
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    VendorName: TJ Holowaychuk
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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
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JUnit

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Zstd-jni: JNI bindings to Zstd Library

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uriparser - RFC 3986 URI parsing library

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nativetask/src/main/native/lz4/lz4.{c|h}
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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/gmock-1.7.0/*/*.cc
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/dust-helpers-1.1.1.min.js
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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/moment.min.js
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hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/jquery.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/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)

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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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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.
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

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
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    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
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VendorName: Isaac Z. Schlueter
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VendorUrl: http://apidocjs.com/

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async@2.6.3
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VendorName: Caolan McMahon
VendorUrl: https://caolan.github.io/async/
balanced-match@1.0.0
URL: git://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@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

colorspace@1.1.2
URL: https://github.com/3rd-Eden/colorspace
VendorName: Arnout Kazemier
VendorUrl: https://github.com/3rd-Eden/colorspace
- 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
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  URL: git://github.com/isaacs/core-util-is
  VendorName: Isaac Z. Schlueter
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  URL: git://github.com/bigpipe/diagnostics.git
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- 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
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- fs-extra@7.0.1
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- 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
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  VendorUrl: http://github.com/qix-
- is-stream@1.1.0
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  VendorName: Sindre Sorhus
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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
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jsonfile@4.0.0
URL: git@github.com:jprichardson/node-jsonfile.git
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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
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ms@2.1.2
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one-time@0.0.4
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path-is-absolute@1.0.1
URL: https://github.com/sindresorhus/path-is-absolute.git
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process-nextick-args@2.0.1
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VendorUrl: https://github.com/3rd-Eden/text-hex
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org.apache.zookeeper:zookeeper:3.5.6
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org.codehaus.jackson:jackson-xml:1.9.13
org.codehaus.jettison:jettison:1.1
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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
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
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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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leveldb v1.13

com.google.protobuf:protobuf-java:2.5.0
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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
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org.slf4j:slf4j-log4j12:1.7.30

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com.sun.jersey:jersey-client:1.19
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com.sun.jersey:jersey-guice:1.19
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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:jaxrs-api:1.1.1
javax.xml.bind:jaxb-api:2.2.11

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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
junit:junit:4.13.1

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jakarta.xml.bind:jakarta.xml.bind-api:2.3.2

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org.hsqldb:hsqldb:2.3.4

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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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Version: GnuPG v1.0.7 (GNU/Linux)
iD8DBQFE85cgq9Frj/ClIrIRamuJAKCFgi4W0UOH8IUN+sV6PBHRF3BnLgCcDqqCZokttk0bTHfwaa5TtxQscw=
=N/w/
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Version: GnuPG v1.4.3 (GNU/Linux)
iD8DBQFFoniQJVhlFu9dGQRAmJmAJwL5y1loohnVQIICsparvjHMQuwqwCgiZFyLBDVaad1bJ1v1EHY901kPcg=
=6rqm
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Hash: SHA1

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E-Mail: thomas.becker00@googlemail.com
Mailing Address:

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Date: 2012-07-17
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Version: GnuPG v1.4.10 (GNU/Linux)
iQEcBAEBAgAgJQhBmtgF9IHDcH/2nQDPuPztWFrBifnEoLF6Jl
RUkfJzAPZaLdtDmFifDz7ucdRL1RDodmnz4VIF2+fKeBYQquZXfXIEghz+tkK3
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FNWKpzaeX+SQgMak6hsuatXi6EsVkJ6IskTweGl6+Xk+HYWy23ZQ8BKQRLK0ZTw=
gAgN
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Version: GnuPG v1.4.1 (Darwin)

iD8DBQFD37/4dL6lZr4c+6kRAtsIAJ41tfd3lj4OM6sIMfJfToYdYdT1bxwCdGgWv
8sfMxEXDZqUqVbZU2c76Uw=
=8WW7
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Version: GnuPG v1.4.4 (MingW32)
iD8DBQFEt1ZxHR/ESK2w6H8RApbOAJ9e1eooNrl2oN59WZViJExGjJvKgCfaKji
6etDJ6Auj0jTuIS59hUsWMQ=
=HmqH
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Date:

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Schedule A

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<thead>
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Full name: Julian Anthony Fox Gosnell
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1.556 swagger-models 1.5.20
1.556.1 Available under license:
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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.setContact(contact);
    return this;
}
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;
}
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;

package io.swagger.models;

import com.fasterxml.jackson.annotation.JsonAnyGetter;

Found in path(s):
* /opt/cola/permits/1131003088_1612875320.96/0/swagger-models-1-5-20-sources-1-
  jar/io/swagger/models/Info.java
No license file was found, but licenses were detected in source scan.

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;
}
**1.557 aws-java-sdk-for-amazon-translate**

**1.11.555**

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1.558 aws-sdk-for-java-models 1.11.508

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1.574 zstd-jni 1.4.9-1
1.574.1 Available under license : No license file was found, but licenses were detected in source scan.

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=Linux;processor=i386, linux/mips64/libzstd-jni.so;osname=Linux;processor=mips64, linux/ppc64/libzstd-jni.so;osname=Linux;processor=ppc64, linux/ppc64le/libzstd-jni.so;osname=Linux;processor=ppc64le, linux/s390x/libzstd-jni.so;osname=Linux;processor=s390x, win/amd64/libzstd-jni.dll;osname=Win32;processor=amd64, win/x86/libzstd-jni.dll;osname=Win32;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.luben.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

1.575 aws-java-sdk-for-aws-waf 1.11.257
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JUnit 5

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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 been in development since 2007. It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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1.598 aws-java-sdk-for-the-amazon-ec2-container-service 1.11.172

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1.604 aws-java-sdk-for-aws-step-functions

1.11.508

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**1.11.172**

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1.616 cloudwatch-metrics-for-aws-java-sdk

1.11.555

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1.634 jackson-core 2.9.2
1.634.1 Available under license :
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1.635 kerby-kerb-common 1.0.1

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1.645 aws-java-sdk-for-aws-amplify 1.11.508

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1.11.172

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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 been in development since 2007. It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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1.657 aws-java-sdk-for-aws-application-auto-scaling 1.11.155

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1.658 aws-java-sdk-for-aws-application-discovery-service 1.11.172

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1.690 aws-java-sdk-for-aws-appsync 1.11.508

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1.691 aws-java-sdk-for-aws-resource-groups-tagging-api 1.11.172

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1.692 process-nextick-args 2.0.0

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1.693 animal-sniffer-annotation 1.14

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1.698 dom4j-flexible-xml-framework-for-java

1.6.1

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* /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1-6-1-sources-3-
  jar/org/dom4j/tree/ConcurrentReaderHashMap.java
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* /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.jar/org/dom4j/swing/XMLTableModel.java
* /opt/cola/permits/1010092607_1614875665.1/0/dom4j-1.6.1-sources-3.jar/org/dom4j/rule/NullAction.java
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Archiver-Version: Plexus Archiver
Built-By: VssAdministrator
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Build-Jdk: 1.8.0_102

Name: com/microsoft/aad/msal4j/AccessTokenCacheEntity.java
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SHA-256-Digest: TI70kTIEOWCu7zDp2Au3c7BdvIwwDvoqVmd9xBHTv=

Name: com/microsoft/aad/msal4j/AADAuthority.java
SHA-256-Digest: Qg0vyh6AdSD90VMCbX2pkQfS6nYcRLxkq01ZEUBph70=

Name: com/microsoft/aad/msal4j/HttpResponse.java
SHA-256-Digest: tkTcuEFGHErg3MkkempsD/DBoVtHpSY6ltwCHB1zgU0=

Name: com/microsoft/aad/msal4j/AuthenticationResultSupplier.java
SHA-256-Digest: aJCI+s0bj5dtYJH4FrMOt9y/Xm7Jdv14pp0jofCJ1H8=

Name: com/microsoft/aad/msal4j/Credential.java
SHA-256-Digest: 0XRLunwike40XK027K0BwP8hm6rK9teBhhMBoVyYQ1w=

Name: com/microsoft/aad/msal4j/AccountsSupplier.java
SHA-256-Digest: NO0RZ1EunflHIJM63uxU1VXU4+rHnxwXuuDEb/0Vf+K=

Name: com/microsoft/aad/msal4j/InstanceDiscoveryMetadataEntry.java
SHA-256-Digest: ad7+RSa8cB4kZsHl4IPOT4c+v7+HAkhi4J3USJO2J4=

Name: com/microsoft/aad/msal4j/TokenCache.java
SHA-256-Digest: AsZSiSl6VYyb9PFHi4DgZ4ImGUAK6vqDYOqywaXP3jE=

Name: com/microsoft/aad/msal4j/ClientInfo.java
SHA-256-Digest: Q11BQ3NM8shQ6iMQGVpXpgSJ5hK4pIXj+9q91aClvE=

Name: com/microsoft/aad/msal4j/AbstractMsalAuthorizationGrant.java
SHA-256-Digest: Ah1T34rfpxJp6VEzCquNziMWBzz/gWuvYyDuX5IOI3=

Name: com/microsoft/aad/msal4j/OnBehalfOfParameters.java
SHA-256-Digest: fPLcQs4JCyDjHiFajfJeR0FifOEgMbbd0q33VJ/1KIs=

Name: com/microsoft/aad/msal4j/DeviceCodeFlowRequest.java
SHA-256-Digest: a8Ndc0eVQ28RbKOocrD9kIUGTyt8sYGjLY2WuGMnqXnI=

Name: com/microsoft/aad/msal4j/SilentRequest.java
SHA-256-Digest: 3rzzs7Ta4LCg9byMBDqhc4dDUWmJ0+02FqXbWRm+K/I=

Name: com/microsoft/aad/msal4j/ParameterValidationUtils.java
SHA-256-Digest: jPS79NqhhZKe380tKBxG9KS2lHZqI36Pmlq0POM200=

Name: com/microsoft/aad/msal4j/JwtHelper.java
SHA-256-Digest: MBCUlwPldq0JdpXbJatLvLuzmFYnVBqB6w5iYuBphYs=

Name: com/microsoft/aad/msal4j/JsonHelper.java
SHA-256-Digest: DQ6fiDsTQFF52tvzJThdk/G6fFJUIrt41I+42JKnfU=
Name: com/microsoft/aad/msal4j/UserDiscoveryRequest.java
SHA-256-Digest: df45mjE00xJcBR4+MhXwYmIPvyuhOuDgyYnhZADutjw=

Name: com/microsoft/aad/msal4j/DeviceCodeAuthorizationGrant.java
SHA-256-Digest: schyri61qVoxOGBv4vwgBMqySCMjXe40s5yfIebdAocI=

Name: com/microsoft/aad/msal4j/IntegratedWindowsAuthenticationRequest.java
SHA-256-Digest: 86q02C5WOCluQ5gaKJjppcke5Lu/Erk5SG63lVkJBw=

Name: com/microsoft/aad/msal4j/CredentialTypeEnum.java
SHA-256-Digest: bBhBXh+n9GWc6VQs0hbJUTS9SG3pOIGSD++gwmjsw=

Name: com/microsoft/aad/msal4j/UserAssertion.java
SHA-256-Digest: 9AcDeCV9cNiFAtB0e1/yD4f6XTVWQITCmwe/v/C+TJY=

Name: com/microsoft/aad/msal4j/AcquireTokenSilentSupplier.java
SHA-256-Digest: oj1A1lxj38AJM9gRF6q26sfqGz3IH0wHXqMEpx1AJQ=

Name: com/microsoft/aad/msal4j/IConfidentialClientApplication.java
SHA-256-Digest: 4ZB/TgYqJxRPJDzkDqGfE1ejzizIT+hGibC0It+InKo=

Name: com/microsoft/aad/msal4j/ITelemetry.java
SHA-256-Digest: 2qFxtvOE0gO0L9uMSHvdG9ALQWHAfRFZ7NZ4mkNnATE=

Name: com/microsoft/aad/msal4j/AuthenticationResult.java
SHA-256-Digest: o/coXRauWi4LpPZI2/mf54tWU/Xg+Bot+ZaMq0m8g=

Name: com/microsoft/aad/msal4j/IHttpClient.java
SHA-256-Digest: A5OdJE5u1B17KGMVNgUdI4k8AcJThpFynFXAaFRwpTs=

Name: com/microsoft/aad/msal4j/SAML11BearerGrant.java
SHA-256-Digest: BPYFp8T3D3hxdGE+Oh9kRJWamVc6SQDBqSGbSH7E=

Name: com/microsoft/aad/msal4j/WSTrustVersion.java
SHA-256-Digest: d3ncPtwKM9a1wOeLmqwfw1a/i9ztQLYYan3sYTgGxg=

Name: com/microsoft/aad/msal4j/BindingPolicy.java
SHA-256-Digest: VVxIBKDU5o/FOseEkpn7TDm6i2kT77tuN2Qm5aWds=

Name: com/microsoft/aad/msal4j/HttpEvent.java
SHA-256-Digest: JQm4WoOhxhXG1WtDKzJDBfM6/Ex+4UeIT1rvVbOm/38=

Name: com/microsoft/aad/msal4j/OnBehalfOfRequest.java
SHA-256-Digest: RSA2jtqwMqHRhvk169YMbyMdP/og79AQ+D5B1UsDyM=

Name: com/microsoft/aad/msal4j/OnBehalfOfRequest.java
SHA-256-Digest: RSA2jtqwMqHRhvk169YMbyMdP/og79AQ+D5B1UsDyM=
SHA-256-Digest: 59h4lIUknP57oDJWQ4DyvmoOxwfqECibvTo65KtMeA0=

Name: com/microsoft/aad/msal4j/AccountCacheEntity.java
SHA-256-Digest: HOGW12xSu+92CECMjy03ADcyCAwmlpju+12H7TXgyU=

Name: com/microsoft/aad/msal4j/AuthenticationErrorMessage.java
SHA-256-Digest: enDZE+VpJIlJh93wQC2Su+Qn9NRd4cFdaqiLz/fLobA=

Name: com/microsoft/aad/msal4j/IAccount.java
SHA-256-Digest: cbqQg0/d88SST8htVXXW/KD7dy805giClwA1uP9Qjw=

Name: com/microsoft/aad/msal4j/ILogHelper.java
SHA-256-Digest: GtJc7RcnCh7sUlo8mJ4ARHFmUPZr97VZ9z+v1TDDssU=

Name: com/microsoft/aad/msal4j/MsalClientException.java
SHA-256-Digest: UdZng5gyX0I9QXmMcSkQ6o+VoQ5sWW+v1ODN7tcs=

Name: com/microsoft/aad/msal4j/IdToken.java
SHA-256-Digest: tppD3xklVHT9wF3sBF6jU/TG5eSTb1/f0yl6ZhoFgw1w=

Name: com/microsoft/aad/msal4j/ConfidentialClientApplication.java
SHA-256-Digest: tppD3xklVHT9wF3sBF6jU/TG5eSTb1/f0yl6ZhoFgw1w=

Name: com/microsoft/aad/msal4j/IdToken.java
SHA-256-Digest: 63Ct05QAOSW8bw/8Cl5vZOS8vYTWTtITmU30RpfzGf0=

Name: com/microsoft/aad/msal4j/B2CAuthority.java
SHA-256-Digest: 201ENFh+JWtTmDj6RgDm55IMUcnD2kBijBlajQW+4mM=

Name: com/microsoft/aad/msal4j/SilentParameters.java
SHA-256-Digest: efXxgP1MEQgBbAcZjgPCvKbzaasRf0Ph65aUSJ3UOe=

Name: com/microsoft/aad/msal4j/ClientAssertion.java
SHA-256-Digest: y9pGIA2MdopAn47K47GzJ3UBwZAD/ouYQRIPWydkA=

Name: com/microsoft/aad/msal4j/IntegratedWindowsAuthenticationParameters.java
SHA-256-Digest: y/sfPXcx0OWADtf6zabBEatQPHEdYPzyBzd3QF3NpsQ=

Name: com/microsoft/aad/msal4j/InteractionRequiredExceptionReason.java
SHA-256-Digest: lqnSj+Gc7vnaPJAZjen3/6gp8pT+/lEzKMoZEby3No=

Name: com/microsoft/aad/msal4j/MsalServiceExceptionFactory.java
SHA-256-Digest: p3Yash5nWOEmfZJmihQW/qyLJ0/B1xzY19Gm/7f6ig=

Name: com/microsoft/aad/msal4j/IdTokenCacheEntity.java
SHA-256-Digest: 0X+tbZbKOhxweF7HziDuQv8Dg0KokQElyWuEMPqVE=
Name: com/microsoft/aad/msal4j/OAuthHttpRequest.java  
SHA-256-Digest: FDOr6xXNAPAp5dGC1Q4pMFJoWF5vTk2GvBMMPjir0=

Name: com/microsoft/aad/msal4j/ITokenCacheAccessContext.java  
SHA-256-Digest: gTzp5HppZvVaQQGncqPFTmisiCaJahIzPct2dJX7TEs=

Name: com/microsoft/aad/msal4j/TelemetryManager.java  
SHA-256-Digest: ybYTq/yx9GQPY2cT+mHKPmZ0PSMHWUJygNQ8dfXrZPg=

Name: com/microsoft/aad/msal4j/AcquireTokenByAuthorizationGrantSupplier.java  
SHA-256-Digest: XXFinTUJUQjVv70o+6U7MVRNk153BYFp/xd0rl518NA=

Name: com/microsoft/aad/msal4j/ClientCredentialParameters.java  
SHA-256-Digest: 1CN5o6/4Q1d3zN3vl7JZI+9H21BnJT37nvCXcK6YWw=

Name: com/microsoft/aad/msal4j/httpHeaders.java  
SHA-256-Digest: VkTC+H/eRNplIlanBxgF6z0Vdy7rkiaZHI09UxPJFOA=

Name: com/microsoft/aad/msal4j/ClientApplicationBase.java  
SHA-256-Digest: ZWS+6YsHbsWKRvNjvG+1JqwKYv8oRmKnnZJpEMS0z8w=

Name: com/microsoft/aad/msal4j/OAuthAuthorizationGrant.java  
SHA-256-Digest: y1MZ/ZFHH0ocwoglpuki3F6YiKRNNet+WLyVjVNtY=

Name: com/microsoft/aad/msal4j/MsalException.java  
SHA-256-Digest: ciXO+tvNgW2T/DBGtdN5xhQiiO9z5uYrb0+7m5v8qk=

Name: com/microsoft/aad/msal4j/ClientAuthenticationPost.java  
SHA-256-Digest: xnAu4zduICwasi1jDTHUyyLpyHISsVCyd0VuRffxpI=

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SHA-256-Digest: fARziMIorcrHfwnRZx6Owy4mqlwlkJLU3JSbRmn07Y=

Name: com/microsoft/aad/msal4j/AuthenticationErrorCode.java  
SHA-256-Digest: 1BSP/ElIzXRzYNqQdAdW0r4+cJVEYr2RmHxu3Aq6nH8=

Name: com/microsoft/aad/msal4j/Account.java  
SHA-256-Digest: w6RisXctg8SY2umEM1t8TqNhNL0beFq0gmq+444PRi1Q=

Name: com/microsoft/aad/msal4j/ADFSAuthority.java  
SHA-256-Digest: gEZou9BsOE0+RXr2PkwOe+CuDgDNzsNBmCJ/wDRDE=

Name: com/microsoft/aad/msal4j/ITokenCache.java  
SHA-256-Digest: cd8fP5DfFlFCjPmlKkjbRjJL317Et6ASkTHacA4K8A=

Name: com/microsoft/aad/msal4j/RefreshTokenParameters.java  
SHA-256-Digest: dvnVgUijURVWWw2+PtyygijjMvUbfFyPgFL8RLy+CBO=
Name: com/microsoft/aad/msal4j/XmsClientTelemetryInfo.java
SHA-256-Digest: xSIgnwb01cn703DYTD30Y4X9C3sbo6iKFKDHuBZszh8=

Name: com/microsoft/aad/msal4j/EventKey.java
SHA-256-Digest: jWVC4LSx/TycuAkJKB6fw2T2Pp7U2GWiEmT15UI/CNpg=

Name: com/microsoft/aad/msal4j/DefaultEvent.java
SHA-256-Digest: skJFr3PXiW7EmyJhpinoqr4TSlspre1sqAu7zoOY/Fg=

Name: com/microsoft/aad/msal4j/UserNamePasswordParameters.java
SHA-256-Digest: mldI2Yw29xIE/XY35wqFSsB5CHECDUZhrQ8A92QWDDY=

Name: com/microsoft/aad/msal4j/PublicClientApplication.java
SHA-256-Digest: f6F8qOsEu1RdSaheMHAOU6k9ZXDAJCb1foyAZ/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: IJh3ZauFhfGx9rITH7M9tiHiEs3KObbbk0hlrR1siY4=

Name: com/microsoft/aad/msal4j/WSTrustRequest.java
SHA-256-Digest: mY8DC76BBh2Ix78WYt4KefTtKkBcQHGvQgQSmSmlMIw=

Name: com/microsoft/aad/msal4j/IClientCredential.java
SHA-256-Digest: maIptKrQvO1PAqkv6Su0SjzuYL+aJJW/7h56M1ujA=

Name: com/microsoft/aad/msal4j/MsalInteractionRequiredException.java
SHA-256-Digest: f2DVbgqt3l81VFVleLzhKuLjwetI9AItUu+WrqaWNE=

Name: com/microsoft/aad/msal4j/RefreshTokenRequest.java
SHA-256-Digest: Yj89vVNFZtaX0aq2q6+s8PCsN613eyn4IOClunbQw90=

Name: com/microsoft/aad/msal4j/PublicApi.java
SHA-256-Digest: FaCeukn2hq7JEP7Z3Q6xoeoGhvAlQK7/DByLPkEFlQw=

Name: com/microsoft/aad/msal4j/TelemetryConstants.java
SHA-256-Digest: 6oQPI3troJbK2nJ0gxsPSOmuoJ5fhW7QSI+sgAIpwDJ4=
Name: com/microsoft/aad/msal4j/AadInstanceDiscoveryProvider.java
SHA-256-Digest: MMRIvVxF+o4tT1T+yVPV9rUAb/qrz/LSp8/s/YA6Ts=

Name: com/microsoft/aad/msal4j/ClientCertificate.java
SHA-256-Digest: bWVVILQ6Eru7CAAbLUCUw7nTv1ExJcm5rvIxcS0Tco=

Name: com/microsoft/aad/msal4j/RequestContext.java
SHA-256-Digest: ZhQ703ujQxgjD6+Ig29yaXxAozBDrORQiPq7mCkLWA=

Name: com/microsoft/aad/msal4j/MsalServiceException.java
SHA-256-Digest: 4JXRdkaBV4XZpa66sAQJWMBKjTwaacM6bDzGPRRhY=

Name: com/microsoft/aad/msal4j/IClientCertificate.java
SHA-256-Digest: Jqh6OC0Sd0ytiiEJ/10dQJ5WJCrlqwof+17dU14DMIee=

Name: com/microsoft/aad/msal4j/TokenCacheAccessContext.java
SHA-256-Digest: IWMaAOLS/S1IQIQT9mCIQOu83ApdmY31UAJLXDKn5d7k=

Name: com/microsoft/aad/msal4j/ClientCredentialRequest.java
SHA-256-Digest: TaErM2lzt4j372XSOcO+PK0T7vkYaXZMiUS40BmsTk=

Name: com/microsoft/aad/msal4j/RefreshTokenCacheEntity.java
SHA-256-Digest: 65xnh4iNGS22vkNDhioStzoCRuwN5Ho1fN9Um3r/f8=

Name: com/microsoft/aad/msal4j/DeviceCode.java
SHA-256-Digest: hkbhsdMEsJE3ZBdN3pqGuaa2p7E9+gDkfrqgYhNCRo=

Name: com/microsoft/aad/msal4j/IClientAssertion.java
SHA-256-Digest: UlkEpmJjw2sefmK9k+J6mSokua7P/mawSrKlpTkwsk=

Name: com/microsoft/aad/msal4j/HttpUtils.java
SHA-256-Digest: cEmiuYuQDPn6FheHJ+UDn1xMCHIIPe9RI7zrmw1jORSx=

Name: com/microsoft/aad/msal4j/NamespaceContextImpl.java
SHA-256-Digest: fbr9Rvsx/ZWcKH4qpaAyHv0OnWDPeKl8RG7avpg/aNg=

Name: com/microsoft/aad/msal4j/HttpHelper.java
SHA-256-Digest: K/abmR9IvkGNR3e767w18oBOYKTqqGACuB6/9GOwOec=

Name: com/microsoft/aad/msal4j/TelemetryHelper.java
SHA-256-Digest: 9Twlf2bP3Q4UwP0VUnUvtr/926R+IL6BHE+HUU0aAvk=

Found in path(s):
  * /opt/cola/permits/1239450636_1639076636.22/0/msal4j-1-3-0-sources.jar/META-INF/MANIFEST.MF
No license file was found, but licenses were detected in source scan.
// Copyright (c) Microsoft Corporation. All rights reserved.
// Licensed under the MIT License.
/**
 * 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
 */

Found in path(s):
* /opt/cola/permits/1239450636_1639076636.22/0/msal4j-1-3-0-sources-
jar/com/microsoft/aad/msal4j/ConfidentialClientApplication.java
No license file was found, but licenses were detected in source scan.

// Copyright (c) Microsoft Corporation. All rights reserved.
// Licensed under the MIT License.
/**
 * 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
No license file was found, but licenses were detected in source scan.

// Copyright (c) Microsoft Corporation. All rights reserved.
// Licensed under the MIT License.
/**
 * Object containing parameters for authorization code flow. Can be used as parameter to
 * [.@link PublicClientApplication#acquireToken(AuthorizationCodeParameters)] or to
 * [.@link ConfidentialClientApplication#acquireToken(AuthorizationCodeParameters)]
 */

Found in path(s):
* /opt/cola/permits/1239450636_1639076636.22/0/msal4j-1-3-0-sources-
jar/com/microsoft/aad/msal4j/AuthorizationCodeParameters.java
No license file was found, but licenses were detected in source scan.

// Copyright (c) Microsoft Corporation. All rights reserved.
// Licensed under the MIT License.
/**
 * Interface to be implemented when configuring http client for 
 * @link IPublicClientApplication or 
 * @link IConfidentialClientApplication.
 */

Found in path(s):
* /opt/cola/permits/1239450636_1639076636.22/0/msal4j-1-3-0-sources-
jar/com/microsoft/aad/msal4j/IHttpClient.java
No license file was found, but licenses were detected in source scan.

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Found in path(s):
* /opt/cola/permits/1239450636_1639076636.22/0/msal4j-1-3-0-sources-
jar/com/microsoft/aad/msal4j/StringHelper.java
* /opt/cola/permits/1239450636_1639076636.22/0/msal4j-1-3-0-sources-
jar/com/microsoft/aad/msal4j/AADAuthority.java
* /opt/cola/permits/1239450636_1639076636.22/0/msal4j-1-3-0-sources-
jar/com/microsoft/aad/msal4j/IntegratedWindowsAuthenticationRequest.java
* /opt/cola/permits/1239450636_1639076636.22/0/msal4j-1-3-0-sources-
jar/com/microsoft/aad/msal4j/ParameterValidationUtils.java
* /opt/cola/permits/1239450636_1639076636.22/0/msal4j-1-3-0-sources-
jar/com/microsoft/aad/msal4j/AppMetadataCacheEntity.java
* /opt/cola/permits/1239450636_1639076636.22/0/msal4j-1-3-0-sources-
jar/com/microsoft/aad/msal4j/UserDiscoveryResponse.java
* /opt/cola/permits/1239450636_1639076636.22/0/msal4j-1-3-0-sources-
jar/com/microsoft/aad/msal4j/AcquireTokenSilentSupplier.java
* /opt/cola/permits/1239450636_1639076636.22/0/msal4j-1-3-0-sources-
jar/com/microsoft/aad/msal4j/OnBehalfOfRequest.java
* /opt/cola/permits/1239450636_1639076636.22/0/msal4j-1-3-0-sources-
jar/com/microsoft/aad/msal4j/TelemetryHelper.java
* /opt/cola/permits/1239450636_1639076636.22/0/msal4j-1-3-0-sources-
jar/com/microsoft/aad/msal4j/EventKey.java
* /opt/cola/permits/1239450636_1639076636.22/0/msal4j-1-3-0-sources-
Open Source Used In Imicampaign-blackduck 6.2 3957
* /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/ZVDP0lygDxT5SUHrtyHBprw8
6qVUyK5hH0ov6k=
SHA-256-Digest-Manifest: ierMTHXnMkwPvFwrVn4XfYgvJcUitdgqReBL0PnxRzFE=
Created-By: 1.8.0_112 (Oracle Corporation)

Name: com/microsoft/aad/msal4j/AccessTokenCacheEntity.java
SHA-256-Digest: ga5TmdfxwHB9dhl2E0olZkrtYh4dyFHGeS69Tr8vkte=

Name: com/microsoft/aad/msal4j/DefaultHttpClient.java
SHA-256-Digest: 8Ec+3TckxexqbnOCIXdCJc+rf0JjY0h3DRECymQZQ=

Name: com/microsoft/aad/msal4j/ErrorResponse.java
SHA-256-Digest: NAKsuOFNO/G78lXOpUltxkUqZnpkKnsjDBRt7xsOXg=

Name: com/microsoft/aad/msal4j/SafeDocumentBuilderFactory.java
SHA-256-Digest: eqIsFmVK5MHh8HfPOAT9GmV0dntbBdlIn83E5hOhtMw=

Name: com/microsoft/aad/msal4j/ITokenCacheAccessAspect.java
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Name: com/microsoft/aad/msal4j/ServiceBundle.java
SHA-256-Digest: IjaLjkIjyvGr/w2svKjrSoiyNjawBGYlkZ5AV1yenEU=

Name: com/microsoft/aad/msal4j/IPublicClientApplication.java
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Name: com/microsoft/aad/msal4j/Authority.java
SHA-256-Digest: Jei/QzpRmCen7jRo9bp+Ex9vFccocLUTmTxidtDMy2s=

Name: com/microsoft/aad/msal4j/IHttpApplication.java
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SHA-256-Digest: 305SQ9Vh30BEeqy8XGeAKkh+q/nKlVuPxlz6sT4oQRSI=

Name: com/microsoft/aad/msal4j/ITelemetryManager.java
SHA-256-Digest: PeLib+2A+yr5a90MAdixymWTYYGbyMvhEKLzx8WI=

Name: com/microsoft/aad/msal4j/IClientApplicationBase.java
SHA-256-Digest: OFmwnNJQxtT2zoZGJxkB3yp1tr11rv18Xktvy9sk=

Name: com/microsoft/aad/msal4j/TokenResponse.java
SHA-256-Digest: +VCq3p1xXV5TeORpma?mdLcMPj2pT2JW/UYC7wvizY=
Name: com/microsoft/aad/msal4j/StringHelper.java
SHA-256-Digest: g2QuuMIHwsA2EID966rm30AGaDYO9/Up4FJ5k0OAA8M=

Name: com/microsoft/aad/msal4j/IClientSecret.java
SHA-256-Digest: OzNKBWPWbnBDWTdYi4oOlqjqmS1Xm8vT9Cnrb1izUt8Q=

Name: com/microsoft/aad/msal4j/IAuthenticationResult.java
SHA-256-Digest: xjVmPrleUzL60pq+hj92aAofk2BNvluRUwattZivcyM=

Name: com/microsoft/aad/msal4j/RemoveAccountRunnable.java
SHA-256-Digest: BE0LI/ZZL4piagjgMW73SJgVOzgHy9/HXuYitv+C5c=

Name: com/microsoft/aad/msal4j/WSTrustResponse.java
SHA-256-Digest: f3vy5DkBN0OJRCrgB02JRYzhFnuYkpv7+0ZODAKc=

Name: com/microsoft/aad/msal4j/AppMetadataCacheEntity.java
SHA-256-Digest: HZuoVRWm6j2TJyjGAan2nIBB/nrrrceeb9JPorjT1Sg=

Name: com/microsoft/aad/msal4j/IntegratedWindowsAuthorizationGrant.java
SHA-256-Digest: B/hXewfwA+yOFj/L4GmpnTw8CnuKDA58bk6IEfxPwLg=

Name: com/microsoft/aad/msal4j/TokenRequestExecutor.java
SHA-256-Digest: jOjAGjBC/Quna/Q1Y6bpsst6KzCUBSB0grU4ueR0rM=

Name: com/microsoft/aad/msal4j/UserDiscoveryResponse.java
SHA-256-Digest: Gr7eBYytt7IuUuYkOibAonq/t00tSkRWAf2VMVY=

Name: com/microsoft/aad/msal4j/AuthorityType.java
SHA-256-Digest: Vgijla5B1fNUSmV0apEib91f9TyWNIIPmFweRi9yr4o=

Name: com/microsoft/aad/msal4j/AuthorizationCodeParameters.java
SHA-256-Digest: XKuMPzgP1BdGkGG3sGgc4DZMJ/oMIyD+wt66bZBjC8=

Name: com/microsoft/aad/msal4j/IUserAssertion.java
SHA-256-Digest: 0TO2N+JvEqJYKdRKp9H4XnFriE9eqx7Y8NhzkBzI+k=

Name: com/microsoft/aad/msal4j/Constants.java
SHA-256-Digest: UBlgxEK06FsB320Pr6eEaiJ1mCUoc4Ywu6TQCIYCZG6g=

Name: com/microsoft/aad/msal4j/UserNamePasswordRequest.java
SHA-256-Digest: WC05xsEMyZJ2PjcGNbeU+xfEcgJZKAhFqp95PMxunQ=

Name: com/microsoft/aad/msal4j/AadInstanceDiscoveryResponse.java
SHA-256-Digest: 7ZdJzWAMw8kg4WUpP7Ukhh2puear8ByOh9LO2+vYiTtY=

Name: com/microsoft/aad/msal4j/ClientCredentialFactory.java
SHA-256-Digest: h/vybuvAeo69LsHFtqXDSzH8hEu4U3Yrdkc1cxH5g=

Name: com/microsoft/aad/msal4j/UserDiscoveryRequest.java
SHA-256-Digest: r6d3ITzok+TduMQFwhvzAAn66BZYR0+zSgungpeZ/Y=

Name: com/microsoft/aad/msal4j/DeviceCodeAuthorizationGrant.java
SHA-256-Digest: Kk/Nd/YiaAyo51E8W/gvpGO1CgkoIRup+FbVRVplnaw=

Name: com/microsoft/aad/msal4j/IntegratedWindowsAuthenticationRequest.java
SHA-256-Digest: L32sOG4bfW8eE1CubTf603pJ+HFnQJi56amWxAz3GpSA=

Name: com/microsoft/aad/msal4j/CredentialTypeEnum.java
SHA-256-Digest: 6nNYeEqwjY56vBc58swdQVF2I55MMtOrRO1Bu3N/9Ne=

Name: com/microsoft/aad/msal4j/UserAssertion.java
SHA-256-Digest: Wzpdcjsx+S8xUdfIqPv1VJGfXMupZ/QPLkvT3n0cJDg=

Name: com/microsoft/aad/msal4j/AccessTokenSilentSupplier.java
SHA-256-Digest: ms+hnTa/L6zVstbN/PN7o7b21f2MxnQta+VScck6MY=

Name: com/microsoft/aad/msal4j/IClientCredentialRequest.java
SHA-256-Digest: MdTPJ1zljhJvSHsHPSDfrLq72twN6XoWDMGcFMkO9Y=

Name: com/microsoft/aad/msal4j/ITelemetry.java
SHA-256-Digest: WYn4mYc33w96PbbBN495eHwDoA1bex9HexSpDpGhqs=

Name: com/microsoft/aad/msal4j/AuthenticationResult.java
SHA-256-Digest: UCSXJwNUIQSF07FOoJeBVFDkQnhg2S6h++dam0bWl=

Name: com/microsoft/aad/msal4j/IHttpClient.java
SHA-256-Digest: gL8GV+TXIN+xu4z3NFqrflMc/j1R6uxUCzF2Uefg=

Name: com/microsoft/aad/msal4j/SAML11BearerGrant.java
SHA-256-Digest: 4uLy+9gSHSmVGFOoqSRQInErKlfckh7Dq4kT5jWvgI=

Name: com/microsoft/aad/msal4j/WSTrustVersion.java
SHA-256-Digest: evuu/ClwAuOds3hkvfeiezEjunVspbG83PtdvzCKPA=

Name: com/microsoft/aad/msal4j/BindingPolicy.java
SHA-256-Digest: gsmpCCXkF2ZyrMR6bjvKdn42ByDRTZcAd1E30/VkM=

Name: com/microsoft/aad/msal4j/HttpEvent.java
SHA-256-Digest: rERF62H7nluw2j9BxXp60qQVzc9HLC8CeOd1ARz3yQ=

Name: com/microsoft/aad/msal4j/HttpRequest.java
SHA-256-Digest: ZJzSA9CoYBLsJDqEpcIg/Q5/4iSquygtTeJ7i/32jHo=
Name: com/microsoft/aad/msal4j/OnBehalfOfRequest.java
SHA-256-Digest: J7PKZ5M3yCA3gLr862V6fqo6LtqQRBrdsJruKrwplGnE=

Name: com/microsoft/aad/msal4j/AccountCacheEntity.java
SHA-256-Digest: 6wYFH+H3EZud+eRJbMMHnUEZ0wVHooAKiOeThlidFsE=

Name: com/microsoft/aad/msal4j/AuthenticationErrorMessage.java
SHA-256-Digest: HcMrRnSnVvGP1uksVOS2+9g007J7TbOpWCZ/wXv/Z0=

Name: com/microsoft/aad/msal4j/IAccount.java
SHA-256-Digest: z55e4qqkDT3eXY9iuLhuXHWdaQLBHFMcqF90XsSP+Q=

Name: com/microsoft/aad/msal4j/LogHelper.java
SHA-256-Digest: DcuCo2hStItkN6GgXjkEAAj61qGvxUj2t9EApmRYOPU=

Name: com/microsoft/aad/msal4j/MsalClientException.java
SHA-256-Digest: ePs7fls1DM9W3r4cI6e8gwxyHXqku34R9duxKagHpGw=

Name: com/microsoft/aad/msal4j/IdToken.java
SHA-256-Digest: ipy+m3kcEmALeP5ijOs1H2Yu2+DeKhmYUZMwaHMWyg=

Name: com/microsoft/aad/msal4j/ClientConfiguration.java
SHA-256-Digest: 2Vn7Gq5KL+Z4RljG+1TmoF+8CVan36bhoRlz1jlR16o=

Name: com/microsoft/aad/msal4j/AuthorizationCodeRequest.java
SHA-256-Digest: j+ec5r+LDGvqSeJwrtJkjdjMA75giYc+/uUlf/3CE8=

Name: com/microsoft/aad/msal4j/B2CAuthority.java
SHA-256-Digest: J+YhMzcZK1YKbqgTErOh+A3Bw4J7B6K54gtHykoR+VEs=

Name: com/microsoft/aad/msal4j/SilentParameters.java
SHA-256-Digest: 17uZrftkvS5r3W2GDjoTvhCoBRn0u2YSXQm1o59PL9l=

Name: com/microsoft/aad/msal4j/ClientAssertion.java
SHA-256-Digest: 20kSNxFVXAOHJqnyw6G/3UTPiTA9WaC4frg0IpBrFOM=

Name: com/microsoft/aad/msal4j/IntegratedWindowsAuthenticationParameters.java
SHA-256-Digest: aXi2/whRmaO9pnsCC9UrciAGIV/7pRFr8HT08Lo6T4=

Name: com/microsoft/aad/msal4j/InteractionRequiredExceptionReason.java
SHA-256-Digest: f6U70DMVHc1bSfmcmjnx7sAL2v+TMefwS+MIIzfaoE=

Name: com/microsoft/aad/msal4j/MsalServiceExceptionFactory.java
SHA-256-Digest: Ptbw6fNxJNIw6A+iOiYifEdsp7+440BmGTV0//jQL94=

Name: com/microsoft/aad/msal4j/IdTokenCacheEntity.java
SHA-256-Digest: ARYGMLcS2Q80FEK6HtX6QyqaBj4YIdi430juBkjHm0=
Name: com/microsoft/aad/msal4j/OAuthHttpRequest.java
SHA-256-Digest: ChyRftDSzkfuaOhiT5BbSMeaWoRWIFyScCXEg2Nkzg=

Name: com/microsoft/aad/msal4j/ITokenCacheAccessContext.java
SHA-256-Digest: pL+si5uAYoNL/ea9fGOuSjh4whEkOMf2EVnwRSq0KVs=

Name: com/microsoft/aad/msal4j/TelemetryManager.java
SHA-256-Digest: WUkqTLav+Ar9AZMy1gBdhIOoHBAPBKBB+3dTtMh9I=

Name: com/microsoft/aad/msal4j/ClientCredentialParameters.java
SHA-256-Digest: QGHH9frq+lB4G4Shk1XPK+yTA3RPVMiIj6h1fYpQ2A=

Name: com/microsoft/aad/msal4j/HttpHeaders.java
SHA-256-Digest: UtiCrNFOPCrFHcz++CIkSVbH7avCKK7XoWcTzW4z9c=

Name: com/microsoft/aad/msal4j/ClientApplicationBase.java
SHA-256-Digest: 1YLJzawOz6LMTNh6jR1dZ/LJGOGvV5+xCg0vFWeDhBY=

Name: com/microsoft/aad/msal4j/AcquireTokenByAuthorizationGrantSuppliers.java
SHA-256-Digest: oZIKesyGuj/xRAFtSntO1fZ8T+1ggj30817VXL+D8=

Name: com/microsoft/aad/msal4j/MsalException.java
SHA-256-Digest: T2imkFUUXij6pMJ1X78YU48icINVfkwQSC7gwt/x8=

Name: com/microsoft/aad/msal4j/ClientAuthenticationPost.java
SHA-256-Digest: PDCUnu1uqbVRAn6rGicpTqb+8Q8/IKbW5Rqei9OEw=

Name: com/microsoft/aad/msal4j/Account.java
SHA-256-Digest: WrXnJdutS/C/0mRBbRxxRqZ4u9xKkwNZjTVBhe7R7i=

Name: com/microsoft/aad/msal4j/ADFSAuthority.java
SHA-256-Digest: c+BV6vJVG+I6xExZ78K6uFdDMyQP/vjybSwAh55Iw=

Name: com/microsoft/aad/msal4j/ITokenCache.java
SHA-256-Digest: F7I4K5QVVeRAvYvI5X50p4M0E6Kvz/WwHmIwskdXoq=

Name: com/microsoft/aad/msal4j/RefreshTokenParameters.java
SHA-256-Digest: IkQ4WlheCpJflgwx66VumP2ZBngBEbQO13vaECo8qhqQ=
Name: com/microsoft/aad/msal4j/XmsClientTelemetryInfo.java
SHA-256-Digest: wVNac/nCLT+v4Iqhm7u5gzBOccWICqUOvzF7juPtw/0=
Name: com/microsoft/aad/msal4j/EventKey.java
SHA-256-Digest: yfC4deq8ArlOdRuMK/uB8dntSgb4zSYwg8V5haebD9s=
Name: com/microsoft/aad/msal4j/DefaultEvent.java
SHA-256-Digest: jnNs9yUhx0fu19xXoIs0PRjU0UKHNaLz8iWhcjol+4=
Name: com/microsoft/aad/msal4j/UserNamePasswordParameters.java
SHA-256-Digest: j/aA01oCVL37Vd8mFbUmSDbx3XQIqInUc2zfzL18gU=
Name: com/microsoft/aad/msal4j/PublicClientApplication.java
SHA-256-Digest: G0FccMmXs0BWMPK0z0M/wbBobs9YyeZqAm5L1jIMzGk=
Name: com/microsoft/aad/msal4j/DeviceCodeFlowParameters.java
SHA-256-Digest: qEeN4arWS8NX217uTgwT99jaPrzkd1jS4XBUvH5WV4=
Name: com/microsoft/aad/msal4j/GetTokenByDeviceCodeFlowSupplier.java
SHA-256-Digest: UATWGQ8H1rzQjklLsElBdr2q69UaFiE5hJrr8zTWi0=
Name: com/microsoft/aad/msal4j/MexParser.java
SHA-256-Digest: May9ZRMUFsF8GlyyBnW7mrs/it3WkoI0e9Xd7HhmQ=
Name: com/microsoft/aad/msal4j/WSTrustRequest.java
SHA-256-Digest: xKokJ+7FcKFrWkwKfco+fWRvVDOOeLCREngqTT7Nmv8Q=
Name: com/microsoft/aad/msal4j/Event.java
SHA-256-Digest: eH44A6QLnOIxO9+Y/ILfnB4ax5uArRQ6m29ekoVSkY=
Name: com/microsoft/aad/msal4j/ClientSecret.java
SHA-256-Digest: krg/xZMOY81M9sneVKLh3TR8GuK+Cu8cN1hrlsG83Z0=
Name: com/microsoft/aad/msal4j/JClientCredential.java
SHA-256-Digest: kddz3wXZhnRAuq9z3HvWE0giiNwaajjLAlZ/GYOezYz=
Name: com/microsoft/aad/msal4j/MsalInteractionRequiredException.java
SHA-256-Digest: oQbsOfk0kzIXVwVhG4TT0v535xK4cpbRTTGq2sr3E=
Name: com/microsoft/aad/msal4j/RefreshTokenRequest.java
SHA-256-Digest: PX41HTe2gNARXkF6/3dwQ7DSCWhq/vtu9Sdsay6I9/E=
Name: com/microsoft/aad/msal4j/PublicApi.java
SHA-256-Digest: tJ2kmHI4Ph6Gg/k7PqoQZsQTD0r7j3nuEgEDm7unRTY=
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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 their 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

1.708 nodejs-string-decoder 1.1.1

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* /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-
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1.722 guava-internalfuturefailureaccess-and-internalfutures 1.0.1

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1.723 spring-plugin-core 1.2.0.RELEASE

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1.724 spring-security-oauth 2.2.0

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jar/org/springframework/security/oauth/config/ConsumerServiceBeanDefinitionParser.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/OAuthAuthenticationDetails.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/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/SignatureSecret.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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1.725 aws-java-sdk-for-amazon-s3 1.11.155

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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 IllegalDataException if the given text is illegal for a
*         Comment.
*/
public Comment setText(String text) {
    String reason;
    if ((reason = Verifier.checkCommentData(text)) != null) {
        throw new IllegalDataException(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()
1.728 iconv-lite 0.4.23
1.728.1 Available under license:
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* /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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1.762 aws-java-sdk-for-aws-application-auto-scaling 1.11.555

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1.763 junit-jupiter-junit-jupiter-engine 5.7.2

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   data class License(val name: String, val url: URI, val headerFile: File)
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1.768 junit-jupiter-junit-jupiter-api 5.7.2

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import java.net.URI

data class License(val name: String, val url: URI, val headerFile: File)

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1.781 aws-java-sdk-for-aws-x-ray 1.11.257
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1.785 nodejs-string-decoder 0.10.31

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Status: {revremark}
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1.798 core-util-is 1.0.2

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1.799 aspectj-weaver 1.8.9

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<head>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1" />
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  margin: 0.25in 0.5in 0.25in 0.5in;
  tab-interval: 0.5in;
}

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  margin-bottom: 0.5em;
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p.list {
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  margin-top: 0.05em;
  margin-bottom: 0.05em;
}
</style>
</head>

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1.800 substack/node-binary 0.3.0

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1.802 aws-java-sdk-for-amazon-lex-model-building 1.11.257

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1.804 aws-java-sdk-for-aws-elemental-mediastore 1.11.508

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* /opt/cola/permits/1241118549_1639450946.81/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jose/crypto/implement/LegacyConcatKDF.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/PBKDF2.java
* /opt/cola/permits/1241118549_1639450946.81/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jose/crypto/impl/AESGCM.java
* /opt/cola/permits/1241118549_1639450946.81/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jose/crypto/impl/ConstantTimeUtils.java
* /opt/cola/permits/1241118549_1639450946.81/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jose/crypto/impl/ECKeyGenerator.java
* /opt/cola/permits/1241118549_1639450946.81/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jose/crypto/impl/RSAKeyGenerator.java
* /opt/cola/permits/1241118549_1639450946.81/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jose/crypto/impl/AESGCM.java
* /opt/cola/permits/1241118549_1639450946.81/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jose/crypto/impl/ConstantTimeUtils.java
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* /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/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/jwk/KeyLengthException.java
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* /opt/cola/permits/1241118549_1639450946.81/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jose/CommonSEHeader.java
* /opt/cola/permits/1241118549_1639450946.81/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jwt/package-info.java
* /opt/cola/permits/1241118549_1639450946.81/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jose/KeyTypeException.java
* /opt/cola/permits/1241118549_1639450946.81/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jose/jca/JCAAware.java
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* /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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Development for branch 8x remains in the shared repository:

- https://gitbox.apache.org/repos/asf/lucene-solr.git

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* /opt/cola/permits/1241118523_1639618651.68/0/lucene-history-branches-lucene-solr-branch-8x-tar-gz/lucene-history-branches-lucene-solr-branch_8x/README.md

1.812 azure-storage-blob 12.4.0

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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/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.</p>
* 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</p>
* its elements based on the delimeter, quote and escape characters.</p>
*
* <p>The CSVParser has grown organically based on user requests and does not truly match</p>
* any current requirements (though it can be configured to match or come close). There</p>
* is no plans to change this as it will break existing requirements. Consider using</p>
* 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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* /opt/cola/permits/1241119295_1639450928.0/0/opencsv-5-3-sources-jar/META-INF/maven/com.opencsv/opencsv/pom.xml

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*/

/**
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 *
 * @author Glen Smith
 */

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* /opt/cola/permits/1241119295_1639450928.0/0/opencsv-5-3-sources-jar/com/opencsv/CSVReader.java

1.820 aws-sdk-for-java 1.11.508

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1.821 aws-java-sdk-for-amazon-documentdb-with-mongodb-compatibility 1.11.508

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1.824 kerby-kerb-core 1.0.1

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1.840 d3-chord 1.0.4

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1.842 bsf 2.3.0

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### 1.843 jax-rs-provider-for-json-content-type

#### 1.9.13

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Zstd-jni: JNI bindings to Zstd Library

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## 1.846 apache-log4j 1.2.15
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1.847 font-awesome 4.7.0

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$fa-var-drivers-license: "$2c2";

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1067734584_1594844909.27/0/font-awesome-4-7-0-3-tgz/package/scss/_variables.scss

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ifndef
* Font Awesome 4.7.0 by @davegandy - http://fontawesome.io - @fontawesome
* License - http://fontawesome.io/license (Font: SIL OFL 1.1, CSS: MIT License)
ifndef

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

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# [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:
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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)
- [v4.6.2 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)
- [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.

```bash
$ bundle install
$ npm install
```

Build the project and documentation:

```bash
$ bundle exec jekyll build
```

Or serve it on a local server on http://localhost:7998/Font-Awesome/:

```bash
$ bundle exec jekyll -w serve
```

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

```css
#{$fa-css-prefix}-drivers-license:before,
```

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```css
// 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";
```
Open Source Used In imicampaign-blackduck 6.2  4588
Open Source Used In imicampaign-blackduck 6.2  4591
Open Source Used In imicampaign-blackduck 6.2 4604

1.848 aws-java-sdk-for-aws-application-discovery-service 1.11.257

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1.849 aws-java-sdk-for-aws-code-build

1.11.155

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1.852 node-jsonfile 4.0.0

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1.853 apache-httpcomponents-asyncclient

4.1.4

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analysis/common/src/resources/org/apache/lucene/analysis/snowball
were developed by Martin Porter and Richard Boulton.
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

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/fi/FinnishLightStemmer.java
The Stempel analyzer (stempel) includes BSD-licensed software developed
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The SmartChineseAnalyzer source code (smartcn) was
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mecab-ko-dic-2.0.3-20170922

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1.11.508

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  * /opt/cola/permits/1137272565_1614043347.88/0/commons-chain-1-1-sources-2-jar/org/apache/commons/chain/web/portlet/PortletSetLocaleCommand.java
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1.872 aws-java-sdk-for-auto-scaling 1.11.257

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1.874 apache-poi-scratchpad 3.8-beta5

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ExceptionConverter:
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SimpleXMLParser:
The original version of this class was published in a JavaWorld article by Steven Brandt: 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.' 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.

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com/lowagie/text/pdf/LZWDecoder.java (first appearance in iText: 2002-02-08)
com/lowagie/text/pdf/codec/TIFFFaxDecoder.java (first appearance in iText: 2003-04-09)
com/lowagie/text/pdf/codec/TIFFField.java (first appearance in iText: 2003-04-09)
com/lowagie/text/pdf/codec/TIFFLZWDecoder.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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    jar/com/squareup/okhttp/internal/http/HttpDate.java
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1.902 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))))))

@after {
    GrammarTransformPipeline.setGrammarPtr(g, Stree);
}
:^{ebnfSuffix blockSet} -> ^(ebnfSuffix ^(BLOCK<BlockAST> ^(ALT<AltAST> blockSet)))
    ;

@after { Stree = (GrammarAST)adaptor.dupNode($start); }

ebnfSuffix
|OPTIONAL
|CLOSURE
|POSITIVE_CLOSURE
;

blockSet
@init {
    boolean inLexer = Grammar.isTokenName(currentRuleName);
}
@after {
    GrammarTransformPipeline.setGrammarPtr(g, Stree);
}
:^{inContext("RULE")}? // top-level: rule block and > 1 alt
^K\(BLOCK ^\{alt=ALT elementOptions? \{((AltAST)$alt).altLabel==null\}? setElement[inLexer]\} (^\{ALT elementOptions? setElement[inLexer]\} )^+\)
*/

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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"

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---

Open Source Used In imicampaign-blackduck 6.2 4848
tree grammar ATNBuilder;
options {
    language = Java;
    tokenVocab = ANTLRParser;
    ASTLabelType = GrammarAST;
    //filter = true;
}

// Include the copyright in this source and also the generated source
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*/
package org.antlr.v4.parse;
import org.antlr.v4.tool.*;
import org.antlr.v4.parse.*;
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>();}
:^(LEXER_ACTION_CALL ID lexerCommandExpr)
   {$cmd = factory.lexerCallCommand($ID, $lexerCommandExpr.start);}
   |$ID
lexerCommandExpr
:ID
| INT
|

element returns [ATNFactory.Handle p]
:labelElement({$p = $labelElement.p;})
| atom({$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)$SEMPRED;})
| *(NOT b=blockSet[true]){${$ = $b.p;}
| LEXER_CHAR_SET{${$ = factory.charSetLiteral($start;})

astOperand returns [ATNFactory.Handle p]
:atom({$p = $atom.p;})
| *(NOT blockSet[true]){${$ = $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[$start]{${$ = $block.p;}
| ^CLOSURE block[$start]{${$ = $block.p;}
| ^POSITIVE_CLOSURE block[$start]{${$ = $block.p;}
| block[null]{${$ = $block.p;}

blockSet[boolean invert] returns [ATNFactory.Handle p]
@init {List<GrammarAST> alts = new ArrayList<GrammarAST>();
:^SET(setElement {alts.add($setElement.start;})+) {${$ = 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
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)
;

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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');


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;
        }
      }
    </if>
    <sempredFuncs.values; separator="\n">
  </if>

  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;
}
}

<s 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) ::= <<
RuleFunction(currentRule, args, code, localsCtx, 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>
<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;
}
</if>(exceptions)>

<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>
    }
}<br>

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 ">
}
}>

---
Open Source Used In imicampaign-blackduck 6.2 4861
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) ::= <<
  <ttypes:{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><argExprsChunks>);
>>

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[{l | <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>"
RetValueRef(a) ::= "localctx.<a.name>"
QRetValueRef(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?null:<ctx(t)>.<t.label>).type"
TokenPropertyRef_line(t) ::= 
  "(<ctx(t)>.<t.label>==null?null:<ctx(t)>.<t.label>).line"
TokenPropertyRef_post(t) ::= 
  "(<ctx(t)>.<t.label>==null?null:<ctx(t)>.<t.label>).column"
TokenPropertyRef_channel(t) ::= 
  "(<ctx(t)>.<t.label>==null?null:<ctx(t)>.<t.label>).channel"
TokenPropertyRef_index(t) ::= 
  "(<ctx(t)>.<t.label>==null?null:<ctx(t)>.<t.label>).tokenIndex"
TokenPropertyRef_int(t) ::= 
  "(<ctx(t)>.<t.label>==null?null:<ctx(t)>.<t.label>).int"

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:<ctx(r)>.<r.label>).text"

ThisRuleContextPropertyRef_start(r) ::= "localctx.start"
ThisRuleContextPropertyRef_stop(r) ::= "localctx.stop"
ThisRuleContextPropertyRef_text(r) ::= "this._input.getText(new antlr4.Interval(<ctx(r)>.<r.label>.start, <ctx(r)>.<r.label>.stop))"

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

ContextTokenListIndexedGetterDecl(t) ::= \n    \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);
        }
    };
>

// should never be called
ContextRuleGetterDecl(r) ::= \n    \r.name\ = function() {
        return this.getTypedRuleContext(<r.ctxName>,0);
    };
>

// should never be called
ContextRuleListGetterDecl(r) ::= \n    def \r.name\_list(self):
        return self.getTypedRuleContexts(<parser.name>.\r.ctxName>)
>

ContextRuleListIndexedGetterDecl(r) ::= \n    \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) ::= "_set<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 | this.<a.name> = <a.name> || null;} separator="\n"> return this;
}<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">}}

Open Source Used In imicampaign-blackduck 6.2 4867
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, opPre) ::= "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);}))?
//    // TODO: copy these to gen'd code
(^(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; } ]
 [ ^ ( 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
^\(\text{NOT element}\)
^\(\text{RANGE atom atom}\)
^\(\text{ASSIGN ID element}\)
^\(\text{PLUS_ASSIGN ID element}\)
  |  ^\(\text{SET setElement+}\)
  |  \text{RULE_REF}
|\text{ebnf}
|\text{epsilonElement}

;  

\text{epsilonElement} 
:\text{ACTION} 
|\text{SEMPRED} 
|\text{EPSILON} 
|\text{ACTION elementOptions} 
|\text{SEMPRED elementOptions} 

;

\text{setElement} 
:^\(\text{STRING_LITERAL elementOptions}\) 
|\text{TOKEN_REF elementOptions} 
|\text{STRING_LITERAL} 
|\text{TOKEN_REF} 

;

\text{ebnf: block} 
  |  ^\(\text{OPTIONAL block }\) 
  |  ^\(\text{CLOSURE block }\) 
  |  ^\(\text{POSITIVE_CLOSURE block }\) 

;

\text{block} 
:^\(\text{BLOCK ACTION? alternative+}\) 

;

\text{alternative} 
:^\(\text{ALT elementOptions? element+}\) 

;

\text{atom} 
:^\(\text{RULE_REF ARG_ACTION? elementOptions}\) 
  |  ^\(\text{STRING_LITERAL elementOptions}\) 
|\text{STRING_LITERAL} 
  |\text{TOKEN_REF elementOptions} 
|\text{TOKEN_REF} 
  |\text{WILDCARD elementOptions} 
|\text{WILDCARD} 
  |\text{DOT ID element}
<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];
%

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

Found in path(s):
  */opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-jar/antlr4/tool/templates/dot/graphs.stg
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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)>
namespace <file.genPackage> {
<header>
using Antlr4.Runtime.Misc;
using IParseTreeListener = Antlr4.Runtime.Tree.IParseTreeListener;
using IToken = Antlr4.Runtime.IToken;
/// 
/// This interface defines a complete listener for a parse tree produced by
/// 
public interface I<file.grammarName>Listener : IParseTreeListener {
<file.listenerNames:{lname |<summary>
/// Enter a parse tree produced by the \c\<lname>\c\.
/// labeled alternative in \see cref="<file.parserName>.<file.listenerLabelRuleNames.(lname)>"/\.
/// 
/// Enter a parse tree produced by \see cref="<file.parserName>.<lname>"/\.
/// 
/// Enter a parse tree produced by \see cref="<file.parserName>.<lname>"/\.
</summary>
void Enter<lname; format="cap">([NotNull] <csIdentifier.(file.parserName)>.<lname; format="cap">Context context);
/// 
/// Exit a parse tree produced by the \c\<lname>\c\.
/// labeled alternative in \see cref="<file.parserName>.<file.listenerLabelRuleNames.(lname)>"/\.
/// 
/// Exit a parse tree produced by \see cref="<file.parserName>.<lname>"/\.
/// 
/// Exit a parse tree produced by \see cref="<file.parserName>.<lname>"/\.
</summary>
void Exit<lname; format="cap">([NotNull] <csIdentifier.(file.parserName)>.<lname; format="cap">Context context);}
} // namespace <file.genPackage>
</header>
using Antlr4.Runtime.Misc;
using IErrorNode = Antlr4.Runtime.Tree.IErrorNode;
using ITerminalNode = Antlr4.Runtime.Tree.ITerminalNode;
using IToken = Antlr4.Runtime.IToken;

/// <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>
public partial class <file.grammarName>BaseListener : I<file.grammarName>Listener {
    <file.listenerNames:{lname | 
    /// <summary>
    /// Enter a parse tree produced by the \<c><lname></c>
    /// labeled alternative in \<see cref="<file.parserName>.<file.listenerLabelRuleNames.(lname)>"/>.
    /// Enter a parse tree produced by \<see cref="<file.parserName>.<lname>"/>.
    /// The default implementation does nothing.
    /// </summary>
    /// <param name="context">The parse tree.</param>
    public virtual void Enter<lname; format="cap">([NotNull] <csIdentifier.(file.parserName)>.<lname; format="cap">Context context) { 

    /// <summary>
    /// Exit a parse tree produced by the \<c><lname></c>
    /// labeled alternative in \<see cref="<file.parserName>.<file.listenerLabelRuleNames.(lname)>"/>.
    /// Exit a parse tree produced by \<see cref="<file.parserName>.<lname>"/>.
    /// The default implementation does nothing.
    /// </summary>
    /// <param name="context">The parse tree.</param>
    public virtual void Exit<lname; format="cap">([NotNull] <csIdentifier.(file.parserName)>.<lname; format="cap">Context context) { 

    /// <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 EnterEveryRule([NotNull] ParserRuleContext context) { 

    //\<inheritdoc/>
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) { }
}

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.CLSCompliant(false)]
    public interface I<file.grammarName>Visitor<Result> : IParseTreeVisitor<Result> {
      <file.visitorNames:{lname |
      /// <summary>
      /// Visit a parse tree produced by the <c><lname></c>
      /// labeled alternative in <see cref="file.parserName.<file.visitorLabelRuleNames.(lname)>"/>.
      /// </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>
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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">
}

<actions; 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="\n">;
<currentRule.ctxType> _localctx = new <currentRule.ctxType>(Context, State<{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) {
_localthexception = 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)> } });
EnterLeftUnfactoredRule(_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="\n">) {
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">
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)) {

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

LL1StarBlockSingleAlt(choose, 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(choose, 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(choose, preamble, alts, error) ::= <<
State = <choice.stateNumber>;
ErrorHandler.Sync(this);
<if(choice.label)><labelref(choice.label)> = TokenStream.LT(1);<endif>
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);

_loopback/exit decision !>

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.types))))><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

// produces smaller bytecode only when bits.types contains more than two items

bitsetBitfieldComparison(s, bits) ::= <%
(testShiftInRange({<offsetShift(s.varName, bits.shift)>}) && ((1L \<< offsetShift(tokenType.(ttype), bits.shift)>}) &
(bits.types:{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.types contains at most two items

bitsetInlineComparison(s, bits) ::= <%
<bits.types:{ttype | <s.varName>==<tokenType.(ttype)>}; separator=" || ">
%

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

>>, // produces more efficient bytecode when bits.types contains at most two items

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

>>, // produces more efficient bytecode when bits.types contains at most two items

InvokeRule(r, argExprsChunks) ::= <<
State = <r.stateNumber>; <if(r.labels)><r.labels:{l | <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:{l | <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:{l | <labelref(l)> = }<endif>TokenStream.LT(1);<endif>
<capture>
if ( <if(invert)<m.varName> <= 0 || <else>!<endif>(<expr>) ) {
<if(m.labels)>m.labels:{l | <labelref(l)> = }<endif>ErrorHandler.RecoverInline(this);
}
else {
ErrorHandler.ReportMatch(this);
Consume();
}
>>

Wildcard(w) ::= <<
State = <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) ::= <<
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)>"
RetValueRef(a) ::= "_localctx.<csIdentifier.(a.name)>"
QRetValueRef(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>(); }
>>
ContextRuleListIndexedGetterDecl(r) ::= <<
public <r.ctxName> <csIdentifier.(r.name)>(int i) { return GetRuleContext<<r.ctxName>(i); }
>>

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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\t<csIdentifier.(d.name)>\t<if(d.initValue)> = <d.initValue> <endif>"

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

c recRuleReplaceContext(ctxName) ::= <<
_lexctx = new <ctxName>Context(_localctx);
_context = _lexctx;
_prevctx = _lexctx;
>>

recRuleSetPrevCtx() ::= <<
if ( ParseListeners!=null )
TriggerExitRuleEvent();
_prevctx = _lexctx;
>>

LexerFile(file, lexer, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
#if(file.genPackage)
namespace <file.genPackage> { 
#elif
<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.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>
};

public <csIdentifier.(lexer.name)>() (ICharStream input)
: base(input)
{
Interpreter = new LexerATNSimulator(this, _ATN, decisionToDFA, sharedContextCache);
}

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>
}

>>

Translated to code:

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",

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"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
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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($text);}
    ;
SET_NONLOCAL_ATTR
\$ x=ID '::' y=ID WS? '=' expr=ATTR_VALUE_EXPR ';
{
delgate.setNonLocalAttr($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 ';
{
delgate.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((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
No license file was found, but licenses were detected in source scan.

/*
 * [The "BSD license"]
 * Copyright (c) 2012-2016 Terence Parr
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 * documentation and/or other materials provided with the distribution.
 * 3. The name of the author may not be used to endorse or promote products
 * derived from this software without specific prior written permission.
 */

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

class `<file.grammarName>Visitor(ParseTreeVisitor):
    # Visit a parse tree produced by `<file.parserName>`.
    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()>\cdot 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">

Open Source Used In imicampaign-blackduck 6.2 4909
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))

/* This generates a private method since the actionIndex is generated, making an
* overriding implementation impossible to maintain.
*/
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.
*/
def <r.name>_sempred(self, localctx, predIndex):
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>
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">
<code>
<postamble; separator="\n">
<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="\n"}>

Open Source Used In imicampaign-blackduck 6.2 4912
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="\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)

_alter = 1 if(choice.ast.greedy)+1

while _alter!=choice.exitAlt and _alter!=ATN.INVALID_ALT_NUMBER:
    _alt = [alt]

if _alter == i if(choice.ast.greedy)+1:
    <alt>
else:
    <error>
    self.state = choice.loopBackStateNumber ! loopback/exit decision !
    self._errHandler.sync(self)

    _alter = 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><argExprsChunks>)
>
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:{l | <labelref(l)> = }><endif>self._input.LT(1)<endif>
capture
<if(invert)if <m.varName> <= 0 or <expr><else>if not(<expr>)<endif>: <if(m.labels)><m.labels:{l | <labelref(l)> = }><else>else<endif>self._errHandler.recoverInline(self)
else:
self._errHandler.reportMatch(self)
self.consume()
>
Wildcard(w) ::= <<
self.state = <w.stateNumber>
<if(w.labels)><w.labels:{l | <labelref(l)> = }><endif>self.matchWildcard()
>
// ACTION STUFF
Action(a, foo, chunks) ::= "<chunks>"
ArgAction(a, chunks) ::= "<chunks>"
SemPred(p, chunks, failChunks) ::= <<

---

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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>
RetValueRef(a) ::= "localctx.<a.name>
QRetValueRef(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)
>>

RuleContextGetterDecl(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 | self.<a.name> = <a.name}>; separator="\n">;
      <struct.ctorAttrs:{a | <a>}; separator="<tset<\n">;
      <getters:{g | <g>}; separator="\n\n">;

    def getRuleIndex(self):
      return <parser.name>..<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(uASTE"><")
    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.

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 * 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;

<parsers>
>>

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:{lname |
  /**
   * Enter a parse tree produced by the { @code <lname> }
   * labeled alternative in { @link <file.parserName> #<file.listenerLabelRuleNames.(lname)>> }.
   */
  <else>
void enter<lname; format="cap">(<file.parserName>.<lname; format="cap">Context ctx);  
/**  
* Exit a parse tree produced by the { @code <lname>\}  
* labeled alternative in { @link <file.parserName>#$<fname>.<lname>\}.  
*  
* Exit a parse tree produced by { @link <file.parserName>#$<fname>\}.  
*/  
@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) { \}};
/**
 * The default implementation does nothing.
 */
@Override public void enterEveryRule(ParserRuleContext ctx) { }
/**
 * The default implementation does nothing.
 */
@Override public void exitEveryRule(ParserRuleContext ctx) { }
/**
 * The default implementation does nothing.
 */
@Override public void visitTerminal(TerminalNode node) { }
/**
 * The default implementation does nothing.
 */
@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 | dialog: lname}>
  <if(file.visitorLabelRuleNames.(lname))>
* Visit a parse tree produced by the {@code <lname>
* labeled alternative in {@link <file.parserName>#<file.visitorLabelRuleNames.(lname)>}.
* Visit a parse tree produced by {@link <file.parserName>#<lname>.
* @param ctx the parse tree
* @return the visitor result
* /
T visit&lt;Iname; format="cap">(<file.parserName>.<Iname; 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:{lname |
/**
 * { @inheritdoc \}
 * *
 * \<p>The default implementation returns the result of calling
 * { @link #visitChildren\} on { @code ctx\}.\</p>
 * */
@Override public T visit&lt;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, func, 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.grammarFile; 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">
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) {
    <recog.actionFuncs.values:{f|
    case <f.ruleIndex>:
        _action((<f.ctxType>)_localctx, actionIndex);
        break;}; separator="\n">
}
@if(sempredFuncs)
@Override
public boolean sempred(RuleContext _localctx, int ruleIndex, int predIndex) {
    <recog.sempredFuncs.values:{f|
    case <f.ruleIndex>:
        return _sempred((<f.ctxType>)_localctx, predIndex);}; separator="\n">
    return true;
}
@if(sempredFuncs.values; separator="\n">
@endif
@if(actionFuncs.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="\n">) 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();
}
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>
<nlocals; 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) ::= <<

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>
<nlocals; 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) ::= <<

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>
<nlocals; 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) ::= <<

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>
<nlocals; 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) ::= <<

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>
<nlocals; 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) ::= <<

return _localctx;
}
<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>
  case <i><if(!choice.ast.greedy)>+1<endif>:
  <alt>
  case <i><if(!choice.ast.greedy)>+1<endif>:
  <alt>
  case <i><if(!choice.ast.greedy)>+1<endif>:
  <alt>
  case <i><if(!choice.ast.greedy)>+1<endif>:
  <alt>
  case <i><if(!choice.ast.greedy)>+1<endif>:
  <alt>

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>
  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)>)) &
(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>);
>>

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>

Open Source Used In imicampaign-blackduck 6.2 4936
if ( <if(invert)><m.varName> \leq 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>"
RetValueRef(a) ::= "_localctx.<a.name>"
QRetValueRef(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_post(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<br>Token <t.name> = new ArrayList<br>Token();"
RuleContextDecl(r) ::= "<r.ctxName> <r.name>"
RuleContextListDecl(rdecl) ::= "List<br><rdecl.ctxName> <rdecl.name> = new ArrayList<br><rdecl.ctxName>();"

ContextTokenGetterDecl(t) ::= 
  "public TerminalNode <t.name>() { return getToken(<parser.name>.<t.name>, 0); }"
ContextTokenListGetterDecl(t) ::= 
  "public List<br>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);
<ctorAttrs:{a | this.<a.name> = <a.name>;}; separator="\n"><endif>
public <struct.name>(ParserRuleContext parent, int invokingState<ctorAttrs:{a | , <a>}>) {
super(parent, invokingState);
<ctorAttrs:{a | this.<a.name> = <a.name>;}; separator="\n>"}
@Override public int getRuleIndex() { return RULE_<struct.derivedFromName>; }

public <struct.name>() { }

public void copyFrom(<struct.name> ctx) {
  super.copyFrom(ctx);
  <struct.attrs:{a | this.<a.name> = ctx.<a.name>;}; 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); }
  }
>

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>)"
recRuleSetReturnValue(src,name) ::= "$<name>=$<src>.<name>;"
recRuleSetStopToken() ::= "_ctx.stop = _input.LT(-1);"

recRuleAltStartAction(ruleName,ctxName,label,isListLabel) ::= <<<
    _localctx = new <ctxName>Context(_parentctx, _parentState);
    <if(label)>
        _localctx.<label>.add(_prevctx);
    <else>
        _localctx.<label> = _prevctx;
    <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>
    <if(label)>_localctx.<label> = _prevctx;<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>;
    </if>
>>
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.misc.*;

import org.antlr.v4.runtime.dfa.DFA;

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>;
    public static final int
        <lexer.channels:{k | <k>=<lexer.channels.(k)>}; separator="", wrap, anchor>;

    public <lexer.name>(CharStream input) {
        super(input);
        _interp = new LexerATNSimulator(this,_ATN,_decisionToDFA,_sharedContextCache);
    }

    @Override
    public String getGrammarFileName() { return "<lexer.grammarFileName>"; }

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

    <namedActions.members>
@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

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

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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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/*
* [The "BSD license"]
*/
// 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 grammars 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;

} // superclass

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 is LexerRule = 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 alo 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 'r' 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
: '[']
// -------------------
// 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 : 'T'
            (ARG_ACTION
             | (""=>ACTION_STRING_LITERAL
             | (\"=>ACTION_CHAR_LITERAL
             | (\T])
             )*
             'T'
            ;

// -------
// 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* \Rightarrow) \Rightarrow \WSNLCHARS* \Rightarrow \v3 \text{gated sempred} \}
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(ErrorCode.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 belive 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

~(\n'|"'|\'|\'|')

)

// 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 | \u023F..\u2040 ;
fragment
NameStartChar
   : 'A..'.'Z' | 'a..'.'z'
   | \u00C0..\u00D6
   | \u00D8..\u00F6
   | \u00F8..\u2FF
   | \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') ) )* 
    ( '\''
    | // Unterminted string literal
      { 

Token t = new CommonToken(input, state.type, state.channel, getCharIndex()-1);
t.setLine(state.tokenStartLine);
t.setText(state.text);
t.setCharPositionInLine(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
       '\n'
     )
     // 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.
//
for (HEX_DIGIT { hCount++; }
   HEX_DIGIT { hCount++; }
   HEX_DIGIT { hCount++; }
   HEX_DIGIT { hCount++; }
   // Four valid hex digits, we are good
   //
   HEX_DIGIT { hCount++; }
   // Three valid digits
   //
   HEX_DIGIT { hCount++; }
   // Two valid digits
   //
   HEX_DIGIT { hCount++; }
   // One valid digit
   //
   HEX_DIGIT { hCount++; }
   // 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.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
// : ( \n  | \t  | \r  | \f  | \u0008)+
// {$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
// : \n  | \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
// : \n  | \t  | \f  | \u0008  | \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 grammar file anyway but we will not try to analyse or code generate from a file with lexical errors.
// ERRCHAR
//
// 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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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:{lname |
/**
<if(file.listenerLabelRuleNames.(lname))>
* Enter a parse tree produced by the @code {lname}\}
*labeled alternative in @link <file.parserName>#{file.listenerLabelRuleNames.(lname)\}.
</else>
* Enter a parse tree produced by @link <file.parserName>#{lname}\}.
@endif>
- Parameters:
- ctx: the parse tree
*/
func enter<lname; format="cap">(_ctx: <file.parserName>.<lname; format="cap">Context) {
/**
<if(file.listenerLabelRuleNames.(lname))>
* Exit a parse tree produced by the @code {lname}\}
*labeled alternative in @link <file.parserName>#{file.listenerLabelRuleNames.(lname)\}.
</else>
* Exit a parse tree produced by @link <file.parserName>#{lname}\}.
@endif>
- Parameters:
- ctx: the parse tree
*/
func exit<lname; format="cap">(_ctx: <file.parserName>.<lname; format="cap">Context)) { separator="\n" }
}
>>

BaseListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
@if(file.genPackage)!
</package <file.genPackage>;
@endif>
<header>
import Antlr4

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/**
* This class provides an empty implementation of `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.grammarName>listenerNames:[lName |}
    /**
* \<p>The default implementation does nothing.</p>
*/
open func enter<lName; format="cap">(_ ctx: <file.parserName>.<lName; format="cap">Context) {
*/
/**
* \<p>The default implementation does nothing.</p>
*/
open func exit<lName; format="cap">(_ ctx: <file.parserName>.<lName; format="cap">Context) {
}
/**
* \<p>The default implementation does nothing.</p>
*/
open func enterEveryRule(_ ctx: ParserRuleContext) {
*/
/**
* \<p>The default implementation does nothing.</p>
*/
open func exitEveryRule(_ ctx: ParserRuleContext) {
*/
/**
* \<p>The default implementation does nothing.</p>
*/
open func visitTerminal(_ node: TerminalNode) {
*/
/**
* \<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:{lname |

/**
 * Visit a parse tree produced by the [@code <lname>] 
 * labeled alternative in [@link <file.parserName>#<file.visitorLabelRuleNames.(lname)>].
 */
open func visit<lname; format="cap">(_ ctx: <file.parserName>.<lname; format="cap">Context) -> T{
fatalError(#function + " must be overridden")
}
}; separator="\n">
</if(file.visitorLabelRuleNames.(Iname))>

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 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 [Void] for operations with no return type.

open class BaseVisitor<T>: AbstractParseTreeVisitor<T> {

/*
 * The default implementation returns the result of calling
 * [visitChildren] on [ctx].
 */

open func visit<T>(ctx: Context) -> T? {
    return visitChildren(ctx) 
}
public static let ruleNames: [String] = [
<parser.ruleNames:{r | "<r>"}; separator="", wrap, anchor>
]

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

override
open func getGrammarFileName() -> String { return绉-parser.grammarFileName; format="java-escape"绉 }}

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..<length {
        var name = VOCABULARY.getLiteralName(i)
        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) {
@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:[1 | <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) {
    _locctx = 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) ::= <<

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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>) {

setState(<choice.loopBackStateNumber>)
try _errHandler.sync(self)

LL1PlusBlockSingleAlt(alt, loopExpr, alts, preamble, iteration) ::= <<
setState(<choice.blockStartStateNumber>) <! alt block decision !>
try _errHandler.sync(self)

repeat {
setState(<choice.stateNumber>); <! loopback/exit decision !>
try _errHandler.sync(self)
} while (<loopExpr>)

// LL(*) stuff

AltBlock(alt, preamble, alts, error) ::= <<
setState(<choice.stateNumber>)
try _errHandler.sync(self)

switch(try getInterpreter().adaptivePredict(_input, <choice.decision>, _ctx)) {
<alts:{alt |
case <i>:
alternative;
break}; separator="\n">
default: break
}

OptionalBlock(alt, 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>:
alternative;
break}; separator="\n">
default: break
}

StarBlock(choice, alts, sync, iteration) ::= <<
setState(<choice.stateNumber>)
try _errHandler.sync(self)
_alter = try getInterpreter().adaptivePredict(_input, <choice.decision>, _ctx)
while (_alter != <choice.exitAlt> && _alter != ATN.INVALID_ALT_NUMBER) {
    if (_alter == 1 <if(!choice.ast.greedy)>+1<endif> ) {
        <iteration>
    <alts> <!-- should only be one -->
    }
setState(<choice.loopBackStateNumber>)
try _errHandler.sync(self)
_alter = try getInterpreter().adaptivePredict(_input, <choice.decision>, _ctx)
}
}>
>
PlusBlock(choice, alts, error) ::= <<
setState(<choice.blockStartStateNumber>); <!-- alt block decision -->
try _errHandler.sync(self)
_alter = 1 <if(!choice.ast.greedy)>+1<endif> ;
repeat {
    switch (_alter) {
    <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)
_alter = try getInterpreter().adaptivePredict(_input, <choice.decision>, _ctx)
} while (_alter != <choice.exitAlt> && _alter != 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=" | ");
  testShiftInRange({<offsetShift(s.varName, bits.shift)})> != 0)
  \{ () -> Bool in
    \! let test: Bool = (<testShiftInRange({<offsetShift(s.varName, bits.shift)})>)
    \! \{ temp = (temp < 0) ? (64 + (temp % 64)) : (temp % 64)
    \! let test1: Int64 = (Int64(1) << temp)
    \! let test2: Int64 = (Int64(1) << temp)
    \! (var test2: Int64 = (Parser.bitLeftShift(<offsetShift(parserName(ttype), bits.shift)>)));
    \! (rest(bits.ttypes):{ttype | Parser.bitLeftShift(<offsetShift(parserName(ttype), bits.shift)>)};
    \! separator="| ");
              testArray: [Int] = [<s.varName>, <bits.ttypes:{ttype | parserName(ttype)>}; separator=","]
    \! var test2: Int64 = Parser.testBitLeftShiftArray(testArray)
    \! return Parser.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) ::= <<
  \{ [t | case .<t>:fallthrough] ; separator="\n"
  \{ [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>{<argExprsChunks>{<if(argExprsChunks)>{<else>{<argExprsChunks>}</if>}</if}></argExprsChunks>}<r.labels:{l | <labelref(l)> = assignmentValue} ; separator="\n"}>})
<else>try
<r.name>({<if(r.ast.options.p)><r.ast.options.p>{<if(argExprsChunks)>{<else>{<argExprsChunks>}</if>}</if>}</argExprsChunks>})})
>>

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

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

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

setState(<m.stateNumber>)
<if(m.labels)>{<if(m.labels)>{<labelref(l)> = assignmentValue} ; separator="\n">})
<else>try match(<parser.name>.Tokens.<m.name>.rawValue)<endif>
>>

if (<if(invert)><m.varName> \<= 0 || <else>!<endif>(<expr>) { 
<if(m.labels)><m.labels:{l | <labelref(l)> = }><endif>try _errHandler.recoverInline(self)<if(m.labels)> as Token<endif>
} 
else {
_errHandler.reportMatch(self)
try consume()
}
>>

Wildcard(w) ::= "<CommonSetStuff(w, expr, capture, false)>"

setState(<w.stateNumber>)
<if(w.labels)><w.labels:{l | <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>"
RetValueRef(a) ::= "_localctx.<a.name>"
QRetValueRef(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_post(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\rToken = Array\rToken()"
RuleContextDecl(r) ::= "<r.name>: <r.ctxName>!"
RuleContextListDecl(rdecl) ::= "<rdecl.name>:Array\rctxName = Array\rctxName()"

ContextTokenGetterDecl(t) ::= "open func <t.name>() -> TerminalNode? { return getToken(<parser.name>.Tokens.<t.name>.rawValue, 0) }"
ContextTokenListGetterDecl(t) ::= "open func <t.name>() -> Array\rTerminalNode? { 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\rctxName?> { 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., */
RuleContextNameSuffix() ::= "Context"

ImplicitTokenLabel(tokenName) ::= "_<tokenName>"
ImplicitRuleLabel(ruleName) ::= "_<ruleName>"
ImplicitSetLabel(id) ::= "_set{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) ::= <<

---

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public final class <struct.name>: <currentRule.name> Context {  
    <attrs:{a | public var <a>}; separator="\n">  
    <getters:{g | <g>}; separator="\n">  
    public init(_ctx: <currentRule.name>.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>)"  
recRuleSetReturnValue(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>
  </if>
  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>
  </if>
  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>;!>
  </if>
  <namedActions.header>
  import Antlr4
  "Open Source Used In imicampaign-blackduck 6.2 4981"
<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 }

Open Source Used In imicampaign-blackduck 6.2 4982


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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* 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 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)
```python
<ruleCtx>

<altLabelCtxs:{1 | <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:{1 | <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="\n">
    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="\n">

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>!>
    </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>
    </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
    </iteration>
>>

// 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="\n">

>>

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="\n">

>>

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:{alt|
        if _alt == <i><if(!choice.ast.greedy)>+1<endif>: 
          <alt>
        else:
          <error>
        self.state = <choice.loopBackStateNumber>
sself._errHandler.sync(self)
      _alt = self._interp.adaptivePredict(self._input, <choice.decision>, self._ctx)

>>

PlusBlock(choice, alts, error) ::= <<
self.state = <choice.blockStartStateNumber> <! alt block decision !>
sself._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>
  else:
    <error>
  self.state = <choice.loopBackStateNumber> <! loopback/exit decision !>
sself._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)>} ; 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=" or ")== 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:{1 | <labelref(l)> }=
>
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:{l | labelref(l) = }<endif>self._input.LT(1)
    <capture>
    <if(invert)>if m.varName \= 0 or expr<else>if not(expr)<endif>:
        <if(m.labels)>m.labels:{l | 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:{l | 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>"
RetValueRef(a) ::= "localctx.<a.name>"
QRetValueRef(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 # <TokenType()>
TokenTypeDecl(t) ::= "self.<t.name> = 0 # <TokenType() type"
TokenListDecl(t) ::= "self.<t.name> = list() of <TokenType()>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)
>>>

RuleContextGetterDecl(r) ::= <<<
def <r.name>(self):
    return self.getTypedRuleContext(<parser.name>.<r.ctxName>,0)
>>>

// should never be called
RuleContextListGetterDecl(r) ::= <<<
def <r.name>_list(self):
    return self.getTypedRuleContexts(<parser.name>.<r.ctxName>)
>>>

RuleContextListIndexedGetterDecl(r) ::= <<<
def <r.name>(self, i:int=None):
    if i is None:
        return self.getTypedRuleContexts(<parser.name>.<r.ctxName>)
    else:
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) ::= ".set<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 | self.<a.name> = <a.name>}; separator="\n">;
            <struct.ctorAttrs:{a | self.<a.name> = <a.name>}; separator="\n">;

            <getters:{g | <g>}; separator="\n">;
            <dispatchMethods; separator="\n">;
            <extensionMembers; separator="\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)
                <structattrs:{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)<getter:{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) ::= <<

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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("\n"})
        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"

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* /opt/cola/permits/1237463103_1638811348.19/0/antlr4-4-6-sources-
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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   | ">
  )*

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recRuleAlt(alt, precOption, opPrec, pred) ::= <<
{<pred>}?<<precOption>=<opPrec>> <alt.altText>
>>

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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"

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*/

tree grammar SourceGenTriggers;
options {
    language     = Java;
    tokenVocab   = ANTLRParser;
    ASTLabelType = GrammarAST;
}

@header {
    package org.antlr.v4.codegen;
    import org.antlr.v4.misc.Utils;
    import org.antlr.v4.codegen.model.*;
    import org.antlr.v4.codegen.model.decl.*;
    import org.antlr.v4.tool.*;
    import org.antlr.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] ;

    :^
        blk=BLOCK (^OPTIONS .+)?
        {List<CodeBlockForAlt> alts = new ArrayList<CodeBlockForAlt>();}
        ( alternative {alts.add($alternative.altCodeBlock);})+  
}
if ( alts.size()==1 && ebnfRoot==null) return alts;
if ( ebnfRoot==null ) {
    $omos = DefaultOutputModelFactory.list(controller.getChoiceBlock((BlockAST)$blk, alts, $label));
} else {
    Choice choice = controller.getEBNFBlock($ebnfRoot, 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);
}
: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); ]
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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/** 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=" ">
>>

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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*/

/** 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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*/
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($start);
}
tokenSpec
@init [enterTokenSpec($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($start);
}
```java
@after {
  exitRules($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;}}
```
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
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)$ACTION);}
labeledLexerElement
@init {
enterLabeledLexerElement($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+)}
;

group
@init {
enterSetElement($start);
}
@after {
exitSetElement($start);
}
:^{(STRING_LITERAL elementOptions) {stringRef((TerminalAST)$STRING_LITERAL);}
|^ (TOKEN_REF elementOptions) {tokenRef((TerminalAST)$TOKEN_REF);}
|^ {TOKEN_REF 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+)}
;

erules
@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);
}
1.903 path-is-absolute 1.0.1

1.904 jetty-websocket-common

9.4.40.v20210413

1.904.1 Available under license:

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Date: 10 March 2006
Please sign: PGP

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pN0h9U/xdFTRMFsXYFHQeN4=
=24Hd
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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:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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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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OW2

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

The following artifacts 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

-----
Mortbay

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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Assorted

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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

* java.servlet:javax.servlet-api
* java.annotation:javax.annotation-api
* java.transaction:javax.transaction-api
* java.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

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* 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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iD8DBQFEnjfA9hwdoZUd8/ERArwdAJ4IzyXEi4zHlIjwEAXknGPhzMwRswCfRsdlRUlOl0BYmYpaETSqtx2oLFU=
=Tr57
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E-Mail: jfarcand@apache.org
Mailing Address: 1800 McGill College Avenue, Suite 800, H3A 3J6 Montreal, Quebec (Canada)

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Version: GnuPG v1.4.10 (GNU/Linux)
iQEcBAEBAgAGBQJQBb4tAAoJEMHljBmtgF91HDcH/2nQDPuPzWFrBifnEoLF6Jl
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=gaQn
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iD8DBQFFoniQVhlfUs9dGQRAmJmAJwL5y1loohhVQIICsparvijHMQuwqwCgiZFy
LBDVaad1bJ1v1EHY901kPcg=
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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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<table>
<thead>
<tr>
<th>Name</th>
<th>Date added</th>
</tr>
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<tbody>
<tr>
<td>Simone Bordet</td>
<td>12 September 2006</td>
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Full name: David Jencks
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1.908 aws-java-sdk-for-amazon-lightsail

1.11.155

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1.909 aws-java-sdk-for-amazon-sagemaker-runtime 1.11.555

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1.910 ognl 3.1.28

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/*@egen*/
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// DAMAGE.
.StatusBadRequest
//--------------------------------------------------------------------------

/*
 * 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) */
// 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*/
} /*

// assignment expression (level 13)
void assignmentExpression() : {}
{
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 {
        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 {
        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 {
        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*/
}
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)*/

// 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)*/
        try { 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); } }
// exclusive or (^) (level 8)
void exclusiveOrExpression() : {}
{
    andExpression() ("^" | "xor")/*@bgen(jjtree) #Xor( 2) */
    {
        ASTXor jjtn001 = new ASTXor(JJTXOR);
        boolean jjtc001 = true;
        jjtree.openNodeScope(jjtn001);
    }
    try {
        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);
    }
    /*@egen*/
}
try {
/*@gen*/ 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()
    /*@egen*/
    ("==" | "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;
        }
    } finally {
        if (jjtc001) {
            jjtree.closeNodeScope(jjtn001, 2);
        }
    }
}
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(JJTGREATER);
        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;
        }
    } finally {
        if (jjtc002) {
            jjtree.closeNodeScope(jjtn002,  2);
        }
    }
    }
if (jjte002 instanceof ParseException) {
    throw (ParseException)jjte002;
} else {
    throw (Error)jjte002;
} finally {
    if (jjtc002) {
        jjtree.closeNodeScope(jjtn002, 2);
    }
}

/*@egen*/
| "(" | "=" | "lte")/*@bgen(jjtree) #LessEq( 2) */
| {  
ASTLessEq jjtn003 = new ASTLessEq(JJTLESSEQ);
    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;
    } else if (jjte003 instanceof ParseException) {
        throw (ParseException)jjte003;
    } else {
        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(JTIN);
    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(jjtree) #ShiftRight( 2) */
{
    ASTShiftRight jjtn002 = new ASTShiftRight(JJTSHIFTRIGHT);
    boolean jjtc002 = true;
    jjtree.openNodeScope(jjtn002);
}

try {
   /*@egen*/ additiveExpression(/*@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);
    }
}
(">>>" | "ushr")/*@bgen(jjtree) #UnsignedShiftRight( 2) */
{
ASTUnsignedShiftRight jjtn003 = new ASTUnsignedShiftRight(JJTUNSIGNEDSHIFTRIGHT);
boolean jjtc003 = true;
jjtree.openNodeScope(jjtn003);
}
try {
/*@egen*/ additiveExpression()/*@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*/
)*
}

// binary addition/subtraction (level 3)
void additiveExpression() : {}
{
multiplicativeExpression()
( "+"/*@bgen(jjtree) #Add( 2) */
{
ASTAdd jjtn001 = new ASTAdd(JJTADD);
boolean jjtc001 = true;
njtree.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);
            }
        }
        "/"/*@bgen(jjtree) #Divide( 2 ) */
        {
            ASTDivide jjtn002 = new ASTDivide(JITDIVIDE);
            boolean jjtc002 = true;
            jjtree.openNodeScope(jjtn002);
        }
        try {
            @egen*/ unaryExpression()/*@bgen(jjtree)*/
            } catch (Throwable jjte002) {
            if (jjtc002) {
                jjtree.clearNodeScope(jjtn002);
            }
jjte002 = 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 {
    unaryExpression()/*@bgen(jjtree)*/
} catch (Throwable jjte003) {
    if (jjtc003) {
        jjtree.clearNodeScope(jjtn003);
        jjte003 = 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 {
        Unary
    } 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);
        }
    }
    
    "+" unaryExpression() // Just leave it there
    |
    "~"/*@bgen(jjtree) #BitNegate( 1) */
    {
        ASTBitNegate jjtn002 = new ASTBitNegate(JJTBITNEGATE);
        boolean jjtc002 = true;
        jjtree.openNodeScope(jjtn002);
    }
    try {
        unaryExpression()/*@bgen(jjtree)*/
    } catch (Throwable jjte001) {
        if (jjtc002) {
            jjtree.clearNodeScope(jjtn002);
            jjtc002 = false;
        } else {
            jjtree.popNode();
        }
        if (jjte001 instanceof RuntimeException) {
            throw (RuntimeException)jjte001;
        }
        if (jjte001 instanceof ParseException) {
            throw (ParseException)jjte001;
        }
        throw (Error)jjte001;
    } finally {
        if (jjtc002) {
            jjtree.closeNodeScope(jjtn002, 1);
        }
    }
}
try {
    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*/

("" | "not")/*@bgen(jjtree) #Not( 1) */

    {  
        ASTNot jjtn003 = new ASTNot(JJTNOT);
        boolean jjtc003 = true;
        jjtree.openNodeScope(jjtn003);
        try {
            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);
            }
        }
    }

*@
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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( ")"
    } finally {
        if (jjtc001) {
            jjtree.closeNodeScope(jjtn001, 1);
        }
    }
```java
/*@bgen(jjtree)*/
} catch (Throwable jjte001) {
  if (jtc001) {
    jjtree.clearNodeScope(jjtn001);
    jtc001 = false;
  } else {
    jjtree.popNode();
  }
  if (jjte001 instanceof RuntimeException) {
    throw (RuntimeException)jjte001;
  }
  if (jjte001 instanceof ParseException) {
    throw (ParseException)jjte001;
  }
  throw (Error)jjte001;
} finally {
  if (jtc001) {
    jjtree.closeNodeScope(jjtn001,  2);
  }
}

/*@egen*/

|/*@bgen(jjtree) |#Chain( 2) */ |
|----------------|

  ASTChain jjtn002 = new ASTChain(JJTCHAIN);
  boolean jtc002 = true;
  jjtree.openNodeScope(jjtn002);

  try {
    @egen/  index()/*@bgen(jjtree)*/
    } catch (Throwable jjte002) {
      if (jtc002) {
        jjtree.clearNodeScope(jjtn002);
        jtc002 = false;
      } else {
        jjtree.popNode();
      }
      if (jjte002 instanceof RuntimeException) {
        throw (RuntimeException)jjte002;
      }
      if (jjte002 instanceof ParseException) {
        throw (ParseException)jjte002;
      }
      throw (Error)jjte002;
    } finally {
      if (jtc002) {
        jjtree.closeNodeScope(jjtn002,  2);
      }
```
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);
        }
    } finally {
        if (jjtc001) {
            jjtree.closeNodeScope(jjtn001, 2);
        }
    }
/*@egen*/
}
/*@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 {
        jjtree.closeNodeScope(jjtn002, 0);
        jjtc002 = false;
    } 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 {
        jjtree.closeNodeScope(jjtn003, 0);
        jjtc003 = false;
    } finally {
        if (jjtc003) {
            jjtree.closeNodeScope(jjtn003, 0);
        }
    }
}
/*@egen*/
//@bgen(jjtree) #Const( 0) */
{
    ASTConst jjtn004 = new ASTConst(JJTCNST);
    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(JTTTHISVARREF);
    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;
null
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 {


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```java
/*@egen*/
(functionName=classReference())? "" [keyValueExpression() ("," keyValueExpression())*] {
    jtn010.setClassName(className); }
}

/*@bgen(jjtree)*/

try {
    catch (Throwable jjte010) {
        if (jjte010) {
            jjtree.clearNodeScope(jjtn010);
            jjt010 = false;
        } else {
            jjtree.popNode();
        }
        if (jjte010 instanceof RuntimeException) {
            throw (RuntimeException)jjte010;
        }
        if (jjte010 instanceof ParseException) {
            throw (ParseException)jjte010;
        }
        throw (Error)jjte010;
    }
}

/*@egen*/

void keyValueExpression() : {}
{
    ASTKeyValue jjtn001 = new ASTKeyValue(JJTKEYVALUE);
    boolean jjtc001 = true;
    jjtree.openNodeScope(jjtn001);
    try {
        @agen(jjtree) KeyValue *
        {
            ASTKeyValue jjtn001 = new ASTKeyValue(JJTKEYVALUE);
            boolean jjtc001 = true;
            jjtree.openNodeScope(jjtn001);
            } try {
        catch (Throwable jjte001) {
            if (jjte001) {
                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) (\n    "[" 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;
    try {
       /*@egen*//*@bgen(jjtree) Const */
        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;
        } finally {
            if (jjtc001) {
                jjtree.closeNodeScope(jjtn001, true);
            }
        }
        try {
           /*@egen*/ while (jjtc000) {
                if (jjtc000) {
                    jjtree.closeNodeScope(jjtn000, true);
                }
            } finally {
                if (jjtc000) {
                    jjtree.closeNodeScope(jjtn000, true);
                }
            }
        } finally {
            if (jjtc000) {
                jjtree.closeNodeScope(jjtn000, true);
            }
        }
    } 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;

try {
    t=<IDENT> "(" [ assignmentExpression() ( "," assignmentExpression() )* ] ")";

    jjtree.closeNodeScope(jjtn000, true);
    jjtc000 = false;
}

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);
    }
}

/**
 * Apply an expression to all elements of a collection, creating a new collection
 * as the result.
 */

void projection() {
    ASTProject jjtn000 = new ASTProject(JJTPROJECT);
    boolean jjtc000 = true;
    jjtree.openNodeScope(jjtn000);

    try {
        "[" expression() "]";

    } 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);
    }
}

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);
    /*@eugen*/
} catch (Throwable jjte000) {
    if (jjtc000) {
        jjtree.clearNodeScope(jjtn000);
        jjtc000 = false;
    } else {
        /*@eugen*/
        "(" + ? expression() + ")" /*@bgen(jjtree)*/
    }
}
/**
 * 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)
"{ ""^" expression() " }"*/
} 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*/
} */

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);
}
/**
 * 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*/
    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*/
    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*/
}
{@egen} { jjtn000.setIndexedAccess(true); }

<DynamicSubscript> {@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);
            } else {
                jjtree.popNode();
            }
        }
    } catch (Throwable jjte000) {
        if (jjtc001) {
            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 '
';
            case 'r': return '';
            case 't': return '	';
            case 'b': return '';
            case 'f': return '';
            case '\': return '\';
            case '"': return '"';
            case '\n': return '\n';
            case '\r': return '\r';
            case '\t': return '\t';
            case '\b': return '\b';
            case '\f': return '\f';
            case 'w': return 'w';
            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>)* >
}
TOKEN:
{
  < DYNAMIC_SUBSCRIPT: "[" [","","","*"] "]" >
  {
    switch (image.charAt(1)) {
      case ':': literalValue = DynamicSubscript.first; break;
      case '|': literalValue = DynamicSubscript.mid; break;
      case '^': literalValue = DynamicSubscript.first; break;
      case '*': literalValue = DynamicSubscript.last; break;
    }
  }
}

/**
 * Token for "dynamic subscripts", which are one of: [^], [||], [$], and [*]. The
 * appropriate constant from the DynamicSubscript class is stored in the token manager's
 * "value" field.
 */
case '$': 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(); }
/**
 * 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" \[x,"X"\] (\[0-9","a","A","F","f","A","f"\])\+ )
    \[l,"L","h","H"\])?
    >
    { literalValue = makeInt(); }
}

< FLT_LITERAL:
( <DEC_FLT> (<EXPONENT>)? (<FLT_SUFF>)? | <DEC_DIGITS> <EXPONENT> (<FLT_SUFF>)? | <DEC_DIGITS> <FLT_SUFF>
)>

{ literalValue = makeFloat(); }
Found in path(s):
* /opt/cola/permits/1239972974_1639111673.14/0/ognl-3-1-28-sources-jar/ognl/ognl.jj
No license file was found, but licenses were detected in source scan.

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Found in path(s):
* /opt/cola/permits/1239972974_1639111673.14/0/ognl-3-1-28-sources-jar/ognl/enhance/ContextClassLoader.java
* /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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 */

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* /opt/cola/permits/1239972974_1639111673.14/0/ognl-3-1-28-sources-jar/ognl/AccessibleObjectHandlerJDK9Plus.java
* /opt/cola/permits/1239972974_1639111673.14/0/ognl-3-1-28-sources-jar/ognl/AccessibleObjectHandler.java

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* /opt/cola/permits/1239972974_1639111673.14/0/ognl-3-1-28-sources-jar/ognl/Evaluation.java
* /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/IteratorPropertyConverter.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/InappropriateExpressionException.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
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/**
 * 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.
 *
 * @author jkuhnert
 */

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* /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/ObjectArrayPool.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/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/ASTShiftLeft.java
* /opt/cola/permits/1239972974_1639111673.14/0/ognl-3-1-28-sources-jar/ognl/ASTXor.java

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/*
* 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() : { }
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 ); }
}
// 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 : {}{

/**
 * 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()
{

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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"-"\u1fff", "\u3040"-"\u3300", "\u3400"-"\u3d2d", "\u4e00"-"\uafaff" ] >
  |
  < #DIGIT: [ "\u0030"-"\u0039", "\u0060"-"\u0069", "\u006f0"-"\u006f9", "\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:
{
  "\n" : WithinBackCharLiteral
|
  "\" { stringBuffer = new StringBuffer(); }: WithinStringLiteral
|
  "\" { stringBuffer = new StringBuffer(); }: WithinCharLiteral
}

<WithinCharLiteral> MORE:
{
  < ESC: "\" ( ["\n","\t","\b","\f","\r","\"","\"","\"","\"","\"","\"] |
  (\"\n\-3\")? \[0\-7\] (\[0\-7\])?
  )
}
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); }
    }
/**
 * Integer or real Numeric literal, whose object value is stored in the token manager's
 * "literalValue" field.
 */

TOKEN:
{

  < INT_LITERAL:
    ( "0" (["0"-"9"]* | ["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","h","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
1.911 is-extended 0.0.10

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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
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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/GlobalChannelTrafficCounter.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/HeaderValues.java
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 * WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
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 * under the License.
 */
/**
 * Set the [@code TCP_MD5SIG] option on the socket. See [@code linux/tcp.h] for more details.
 * Keys can only be set on, not read to prevent a potential leak, as they are confidential.
 * Allowing them being read would mean anyone with access to the channel could get them.
 */
/**
 * Set the [@code TCP_QUICKACK] option on the socket. See <a href="http://linux.die.net/man/7/tcp">TCP_QUICKACK</a>
 * for more details.
 */

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*/
/**
* Enumeration of supported Base64 dialects.
* <p>
* The internal lookup tables in this class has been derived from
* &lt;a href="http://iharder.sourceforge.net/current/java/base64/"&gt;Robert Harder's Public Domain
* Base64 Encoder/Decoder&lt;/a&gt;.
*/

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/base64/Base64Dialect.java

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/**
* A decoder that splits the received { @link ByteBuf}s dynamically by the
* value of the length field in the message. It is particularly useful when you
* decode a binary message which has an integer header field that represents the
* length of the message body or the whole message.
* <p>
* { @link LengthFieldBasedFrameDecoder} has many configuration parameters so
* that it can decode any message with a length field, which is often seen in
* proprietary client-server protocols. Here are some example that will give
* you the basic idea on which option does what.
* <h3>2 bytes length field at offset 0, do not strip header</h3>

* The value of the length field in this example is `<tt>12 (0x0C)</tt>` which
* represents the length of "HELLO, WORLD". By default, the decoder assumes
* that the length field represents the number of the bytes that follows the
* length field. Therefore, it can be decoded with the simplistic parameter
* combination.
* <pre>
* lengthFieldOffset   = 0
* lengthFieldLength   = 2
* lengthAdjustment    = 0
* initialBytesToStrip = 0 (= do not strip header)
* </pre>

* BEFORE DECODE (14 bytes)         AFTER DECODE (14 bytes)
* +--------+----------------+      +--------+----------------+
* | Length | Actual Content |----->| Length | Actual Content |
* | 0x000C | "HELLO, WORLD" |      | 0x000C | "HELLO, WORLD" |
* +--------+----------------+      +--------+----------------+
* </pre>

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

* Because we can get the length of the content by calling
* `{@link ByteBuf#readableBytes()}`, you might want to strip the length
* field by specifying `<tt>initialBytesToStrip</tt>`. In this example, we
* specified `<tt>2</tt>`, that is same with the length of the length field, to
* strip the first two bytes.
* <pre>
* lengthFieldOffset   = 0
* lengthFieldLength   = 2
* lengthAdjustment    = 0
* initialBytesToStrip = 2 (= the length of the Length field)
* </pre>

* BEFORE DECODE (14 bytes)         AFTER DECODE (12 bytes)
* +--------+----------------+      +----------------+
* | Length | Actual Content |----->| Actual Content |
* | 0x000C | "HELLO, WORLD" |      | "HELLO, WORLD" |
* +--------+----------------+      +--------+
* </pre>

* <h3>2 bytes length field at offset 0, do not strip header, the length field
* represents the length of the whole message</h3>

* In most cases, the length field represents the length of the message body
* only, as shown in the previous examples. However, in some protocols, the
* length field represents the length of the whole message, including the
* message header. In such a case, we specify a non-zero
* `<tt>lengthAdjustment</tt>`. Because the length value in this example message
* is always greater than the body length by `<tt>2</tt>`, we specify `<tt>-2</tt>`
* as `<tt>lengthAdjustment</tt>` for compensation.

```plaintext
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" |
+--------+----------------+      +--------+----------------+
```

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

```plaintext
lengthFieldOffset   =  2 (= the length of Header 1)
lengthFieldLength   =  3
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" |
+----------+----------+----------------+      +----------+----------+----------------+
```

* This is an advanced example that shows the case where there is an extra
* header between the length field and the message body. You have to specify a
* positive `<tt>lengthAdjustment</tt>` so that the decoder counts the extra
* header into the frame length calculation.

```plaintext
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)
```
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 $lengthFieldOffset$ and the extra header affects the $lengthAdjustment$. We also specified a non-zero initialBytesToStrip 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 initialBytesToSkip for initialBytesToSkip.

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 lengthAdjustment. 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.
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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/LengthFieldBasedFrameDecoder.java
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// https://tools.ietf.org/html/rfc7540#section-8.1.2.2 makes a special exception for TE

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  jar/io/netty/example/ocps/OcspServerExample.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
  jar/io/netty/example/ocps/OcspClientExample.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
  jar/io/netty/example/ocps/OcspUtils.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
  jar/io/netty/example/ocps/OcspRequestBuilder.java

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  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/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/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/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/codec/http2/Http2MultiplexCodec.java
*/
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/channel/kqueue/KQueueEventArray.java
*/
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/http2/Http2StreamFrameToHttpObjectCodec.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/socket/DuplexChannel.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/multipart/FileUploadUtil.java
*/
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/util/IntSupplier.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/smtp/SmtpRequests.java
*/
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/channel/kqueue/KQueueSocketChannelConfig.java
*/
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/channel/kqueue/KQueueEventLoopGroup.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/Http2Frame.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/kqueue/KQueueSocketChannel.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/smtp/DefaultSmtpRequest.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/kqueue/KQueueRecvByteAllocatorHandle.java
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jar/io/netty/handler/codec/DateFormatter.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/kqueue/KQueueChannelOption.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/WriteBufferWaterMark.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/socket/DuplexChannel.java
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jar/io/netty/channel/socket/DuplexChannel.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/socket/DuplexChannel.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/socket/DuplexChannel.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/socket/DuplexChannel.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/example/udt/echo/rendezvous/MsgEchoPeerTwo.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/http/HttpVersion.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/http/websocketx/WebSocketClientHandshaker00.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/spdy/SpdyHttpHeaders.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/spdy/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/RtspResponseEncoder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/rtsp/RtsResponseEncoder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/socks/SocksCmdResponseDecoder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/socks/SocksCmdResponseDecoder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/transport/transport.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/transport/transport.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/transport/transport.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/transport/transport.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/transport/transport.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/transport/transport.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/transport/transport.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-
jar/io/netty/handler/codec/transport/transport.java
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jar/io/netty/buffer/PoolArena.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/udt/echo/message/MsgEchoServer.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/http/LastHttpContent.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/string/StringDecoder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/http/HttpResponse.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/util/internal/logging/InternalLoggerFactory.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/marshalling/ContextBoundUnmarshallerProvider.java
* /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/handler/timeout/WriteTimeoutException.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1.jar/io/netty/handler/codec/rtsp/RtspHeaders.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1.jar/io/netty/handler/codec/http/file/HttpStaticFileServer.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1.jar/io/netty/handler/codec/marshalling/ContextBoundUnmarshallerProvider.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1.jar/io/netty/handler/codec/LengthFieldPrepender.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1.jar/io/netty/channel/oio/AbstractOioMessageChannel.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/bootstrap/Bootstrap.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/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
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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/ChunkedStream.java
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*/
/**
* Handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in
* its {link ChannelPipeline}
* *
* {link ChannelHandler} itself does not provide many methods, but you usually have to implement one of its
* subtypes:
* *
* {link ChannelInboundHandler} to handle inbound I/O events, and
* {link ChannelOutboundHandler} to handle outbound I/O operations.
* *
* Alternatively, the following adapter classes are provided for your convenience:
* *
* {link ChannelInboundHandlerAdapter} to handle inbound I/O events,
* {link ChannelOutboundHandlerAdapter} to handle outbound I/O operations,
* {link ChannelDuplexHandler} to handle both inbound and outbound events
* *
* For more information, please refer to the documentation of each subtype.
* *
* The context object
* *
* 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.
* *
* State management
* *
* A {link ChannelHandler} often needs to store some stateful information.
* The simplest and recommended approach is to use member variables:
public interface Message {
    // your methods here
}

public class DataServerHandler extends SimpleChannelInboundHandler<Message> {

    private boolean loggedIn;

    @Override
    public void channelRead0(ChannelHandlerContext ctx, Message message) {
        Channel ch = e.getChannel();
        if (message instanceof LoginMessage) {
            authenticate((LoginMessage) message);
            loggedIn = true;
        } else if (message instanceof GetDataMessage) {
            if (loggedIn) {
                ch.write(fetchSecret((GetDataMessage) message));
            } else {
                fail();
            }
        }
    }
    ...
}

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:

// Create a new handler instance per channel.
// See {ChannelInitializer@initChannel(Channel)}.
public class DataServerInitializer extends ChannelInitializer<Channel> {
    @Override
    public void initChannel(Channel channel) {
        channel.pipeline().addLast("handler", new DataServerHandler());
    }
}

Using AttributeKeys

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 AttributeKeys which is provided by
{ChannelHandlerContext}:
* <pre>
* public interface Message {
*     // your methods here
* }
*
* [@code @Sharable]
* public class DataServerHandler extends [@link SimpleChannelInboundHandler]&lt;Message&gt; { 
*     private final [@link AttributeKey]&lt;@link Boolean&gt; auth =
*         { @link AttributeKey#valueOf(String) AttributeKey.valueOf("auth")};
*
*     { @code @Override}
*     public void channelRead(@link ChannelHandlerContext) ctx, Message message) {
*         @link Attribute)&lt;@link Boolean&gt; attr = ctx.attr(auth);
*         @link Channel) ch = ctx.channel();
*         if (message instanceof LoginMessage) {
*             authenticate((LoginMessage) o);
*             &lt;b&gt;attr.set(true)&lt;/b&gt;;
*         } else (message instanceof GetDataMessage) {
*             if (&lt;b&gt;Boolean.TRUE.equals(attr.get())&lt;/b&gt;) {
*                 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;@link Channel&gt; {
*     private static final DataServerHandler &lt;b&gt;SHARED&lt;/b&gt; = new DataServerHandler();
*
*     { @code @Override}
*     public void initChannel(@link Channel) channel) {
*         channel.pipeline().addLast("handler", &lt;b&gt;SHARED&lt;/b&gt;);
*     }
* } </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.

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*/
/**
 * Utility class for {@link ByteBuf} that encodes and decodes to and from
 * <a href="http://en.wikipedia.org/wiki/Base64">Base64</a> notation.
 * <p>
 * The encoding and decoding algorithm in this class has been derived from
 */

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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/sctp/SctpServerChannel.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/AbstractTrafficShapingHandler.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/channel/sctp/NioSctpServerChannel.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/channel/sctp/SctpServerChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/channel/sctp/SctpServerChannel.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/memcache/binary/BinaryMemcacheContent.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/WrappedByteBuf.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/FixedCompositeByteBuf.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/channel/DefaultChannelProgressivePromise.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/example/worldclock/WorldClockProtocol.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/websocketx/WebSocketFrameDecoder.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/memcache/AbstractMemcacheObjectEncoder.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/spdy/DefaultSpdySynReplyFrame.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/spdy/DefaultSpdyDataFrame.java
* /opt/ws_local/PERMITS_SQL/1014221966_1591376621.54/0/netty-all-4-1-17-final-sources20-1-jar/io/netty/handler/codec/spdy/SpdySynReplyFrame.java
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jar/io/netty/channel/udt/NioUdtMessageRendezvousChannel.java
*/

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*/

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1.931 aws-sdk-java 1.11.257

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1.932 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;
>>

/**< 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;

/** 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>
}<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> = [[[treeAdapator 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()>
}
```plaintext
/* 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>
<if(backtracking)> _tree toTree:root_<treeLevel>];
<if(!rewriteMode)>
    <! rewrite mode !>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> )<endif>
```
if ( _first_<treeLevel>==nil ) _first_<treeLevel> = <label>;

/** label+=TOKEN auto construct */
tokenRef(AndListLabel(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>
<endif>
root_<treeLevel> = (<ASTLabelType> *)[treeAdaptor becomeRoot:<label>_tree old:root_<treeLevel>];
<if(backtracking)> }
<endif>
</if(backtracking)>

/** 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>;

if ( _first_<treeLevel>==nil ) _first_<treeLevel> = <label>;
<endif>
>>

/** label+=TOKEN auto construct */
tokenRef(AndListLabel(token,label,elementIndex,hetero)) ::= <<
/* ASTTreeParser tokenRefAndListLabel */
<tokenRef(...)> <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>;

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)>
  _tree = [ANTLR<hetero> newANTLR<hetero>:<label>];
  <else>
  _tree = (<ASTLabelType> *)[adaptor dupNode:<label>];
  <endif>
  [adaptor addChild:_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)>
  _tree = [ANTLR<hetero> newANTLR<hetero>:<label>];
  <else>
  _tree = (<ASTLabelType> *)[adaptor dupNode:<label>];
  <endif>
  root_<treeLevel> = (<ASTLabelType> *)[adaptor becomeRoot:<label>._tree old:root_<treeLevel>];
  <if(backtracking)>}<endif>
  } <endif>
```c
// 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];
```
/** 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.ruleRefRuleRootTrack(...)>
>>

/** ^(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> ) { <ln> <endif>
retval.tree = (<ASTLabelType> *)[treeAdaptor rulePostProcessing:root_0];
<if(backtracking) > } <endif>
<endif>
<endif>
>>
/*
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 * THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
 */
/** ANTLR's code generator.
 *
 * Generate recognizers derived from grammars. Language independence
 * achieved through the use of StringTemplateGroup objects. All output
 * strings are completely encapsulated in the group files such as Java.stg.
 * Some computations are done that are unused by a particular language.
 * This generator just computes and sets the values into the templates;
 * the templates are free to use or not use the information.
 *
 * To make a new code generation target, define X.stg for language X
 * by copying from existing Y.stg most closely releated 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.

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Some language like C need both parser files and header files. Java needs
to have a separate file for the cyclic DFA as ANTLR generates bytecodes
directly (which cannot be in the generated parser Java file). To facilitate
this,
*cyclic can be in same file, but header, output must be separate. recognizer
is in outputfile.*

Found in path(s):
* /opt/cola/permits/1238692736_1638981223.8/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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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.
*/

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(grammer, name, tokens, scopes, rules, numRules, labelType,
    filterMode, superClass);

parser(grammer, 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(grammer, 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,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,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);
// ELEMENTS

/** 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. :(

---

Open Source Used In imicampaign-blackduck 6.2 5367
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);
// MISC (properties, etc...)

codeFileExtension();

/** Your language needs a header file; e.g., ".h" */
optional headerFileExtension();

true();
false();

Found in path(s):
* /opt/cola/permits/1238692736_163891223.8/0/antlr-3-3-sources-jar/org/antlr/codegen/templates/ANTLRCore.sti

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*/
group AST;

@mediaFile.imports() ::= <
@super.imports()>
@if(!TREE_PARSER)<! tree parser would already have imported !>
import org.antlr.runtime.tree.*;<
@endif>
@genericParser.members() ::= <<
<@super.members()>
<parserMembers()>
>>

/** Add an adaptor property that knows how to build trees */
parserMembers() ::= <<
protected var adaptor:TreeAdaptor = new CommonTreeAdaptor();
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;
>>

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());
@endif>
@endif>
@endif>
>>

// Tracking Rule Elements

/** ID and track it for use in a rewrite rule */
tokenRefTrack(token,label,elementIndex,hetero) ::= <<
<tokenRefBang(...)>
@if(backtracking)>
@if ( <actions.(actionScope).synpredgate> ) 
stream_<token>.add(<label>);
@endif>
@endif>
>>

/** 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) ::= <<
<tokenRefRule(...)> 
@if(backtracking)>
@if ( <actions.(actionScope).synpredgate> ) 
stream_<token>.add(<label>);
@endif>
@endif>
>>

/** 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> ) 
stream_<rule.name>.add(<label>.tree);
@endif>
@endif>
>>

/** 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",...)>
>>

// Rewrite
rewriteCode(
  alts, description,
  referencedElementsDeep, // ALL referenced elements to right of ->
  referencedTokenLabels,
  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> ) {
    <prevRuleRootRef()>.tree = root_0;
    <rewriteCodeLabels(); separator="">
    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),
          }
        </if(TREE_PARSER)>
      </if(rewriteMode)>
    </alts:rewriteAlt(); separator="else ">
    </rewriteCodeLabels(); separator="">
    <prevRuleRootRef()>.tree = root_0;
    } </if(backtracking)>
  }}

Open Source Used In imicampaign-blackduck 6.2 5372
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) ::= <<
  // <fileName>:<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>
/** 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>);
} <<
>>

rewriteElementList(elements) ::= "<elements:rewriteElement()>
rewriteElement(e) ::= <<
  @pregen()  
  <e.e1>
>>

/** Gen ID or ID[args] */
rewriteTokenRef(token,elementIndex,hetero,args) ::= <<
  adaptor.addChild(root_<treeLevel>, <createRewriteNodeFromElement(...)>);
>>

/** Gen $label ... where defined via label=ID */
rewriteTokenLabelRef(label,elementIndex) ::= <<
  adaptor.addChild(root_<treeLevel>, stream_<label>.nextNode());
>>

/** Gen $label ... where defined via label+=ID */
rewriteTokenListLabelRef(label,elementIndex) ::= <<
  adaptor.addChild(root_<treeLevel>, stream_<label>.nextNode());
>>

/** Gen ^($label ...) */
rewriteTokenLabelRefRoot(label,elementIndex) ::= <<
  root_<treeLevel> = <ASTLabelType>(adaptor.becomeRoot(stream_<label>.nextNode(), root_<treeLevel>));
>>
/** Gen \$label ... where label+=.. */
rewriteTokenListLabelRefRoot := rewriteTokenLabelRefRoot

/** Gen \(ID \ldots \) or \(ID[arg \ldots ] \ldots \) */
rewriteTokenRefRoot(token,elementIndex,hetero,args) ::= <<
  root_<treeLevel> = <ASTLabelType>(adaptor.becomeRoot(<createRewriteNodeFromElement(...)>,
    root_<treeLevel>));
>>
rewriteImaginaryTokenRef(args,token,hetero,elementIndex) ::= <<
adaptor.addChild(root_<treeLevel>, <createImaginaryNode(tokenType=token, ...)>
  root_<treeLevel> = <ASTLabelType>(adaptor.becomeRoot(<createImaginaryNode(tokenType=token, ...)>,
    root_<treeLevel>));
>>
rewriteImaginaryTokenRefRoot(args,token,hetero,elementIndex) ::= <<
adaptor.addChild(root_<treeLevel>, <createImaginaryNode(tokenType=token, ...)>
  root_<treeLevel> = <ASTLabelType>(adaptor.becomeRoot(<createImaginaryNode(tokenType=token, ...)>,
    root_<treeLevel>));
>>
rewriteAction(action) ::= <<
  root_0 = <action>
>>
rewriteRuleRef(rule) ::= <<
adaptor.addChild(root_<treeLevel>, stream_<rule>.next());
>>
rewriteRuleRefRoot(rule) ::= <<
  root_<treeLevel> = <ASTLabelType>(adaptor.becomeRoot(stream_<rule>.nextNode(), root_<treeLevel>));
>>
rewriteNodeAction(action) ::= <<
adaptor.addChild(root_<treeLevel>, <action>);
>>
rewriteNodeActionRoot(action) ::= <<
  root_<treeLevel> = <ASTLabelType>(adaptor.becomeRoot(<action>, root_<treeLevel>));
>>
/** Gen \$ruleLabel ... where defined via ruleLabel=rule */
rewriteRuleLabelRef(label) ::= <<
adaptor.addChild(root_.treeLevel, stream_.label.nextTree());

/** Gen $ruleLabel ... where defined via ruleLabel+=rule */
rewriteRuleListLabelRef(label) ::= <<
adaptor.addChild(root_.treeLevel, stream_.label.nextTree());
>>

/** Gen ^($ruleLabel ...) where ruleLabel=rule */
rewriteRuleListLabelRefRoot(label) ::= <<
root_.treeLevel = <ASTLabelType>(adaptor.becomeRoot(stream_.label.nextNode(), root_.treeLevel));
>>

/** Gen ^($ruleLabel ...) where ruleLabel+=rule */
rewriteRuleListLabelRefRoot(label) ::= <<
root_.treeLevel = <ASTLabelType>(adaptor.becomeRoot(stream_.label.nextNode(), root_.treeLevel));
>>

rewriteWildcardLabelRef(label) ::= <<
adaptor.addChild(root_.treeLevel, stream_.label.nextTree());
>>

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=", "><if(!args)><token><endif>))
  <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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/** 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(...)
<label>elem=label,...>
>>

/** label+=TOKEN when output=AST but not rewrite alt */
tokenRefAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRef(...)
<label>elem=label,...>
>>

/** Match label+=TOKEN^ when output=AST but not rewrite alt */
tokenRefRuleRootAndListLabel(token,label,hetero,elementIndex) ::= <<
<tokenRefRuleRoot(...)
<label>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 als: (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^ */

Open Source Used In imicampaign-blackduck 6.2 5381
// WILDCARD AST

wildcard(label,elementIndex) ::= <<
<super.wildcard(...)
<finishedBacktracking({
<label>_tree = self._adaptor.createWithPayload(<label>)
self._adaptor.addChild(root_0, <label>_tree)
})>
>>

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,<ln><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 */

Open Source Used In imicampaign-blackduck 6.2  5384
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);
></n>
>>

/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
```
<ruleRefRuleRootTrack(...)>
<listLabel(elem=label+".Tree",...>)
>>

// Rewrite

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
<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];
<endif>
<if(!rewriteMode)>
<prevRuleRootRef>().Tree := Root[0];
<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
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>
    >>

  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;<
>

rewriteElementList(elements) ::= "<elements:rewriteElement()>

rewriteElement(e) ::= <<
@pregen()
<e.el>
>>

/** Gen ID or ID[args] */
rewriteTokenRef(token,elementIndex,hetero,args) ::= <<
Adaptor.AddChild(Root[<treeLevel>], <createRewriteNodeFromElement(...)>) ;<
>

/** Gen $label ... where defined via label=ID */
rewriteTokenLabelRef(label,elementIndex) ::= <<
Adaptor.AddChild(Root[<treeLevel>], (Locals['Stream_<label>'] as IRewriteRuleElementStream).NextNode());<
>

/** Gen $label ... where defined via label+=ID */
rewriteTokenListLabelRef(label,elementIndex) ::= <<
Adaptor.AddChild(Root[<treeLevel>], (Locals['Stream_<label>'] as IRewriteRuleElementStream).NextNode());<
>

/** Gen ^($label ...) */
rewriteTokenLabelRefRoot(label,elementIndex) ::= <<
Root[<treeLevel>] := Adaptor.BecomeRoot((Locals['Stream_<label>'] as IRewriteRuleElementStream).NextNode(), Root[<treeLevel>]) as I<ASTLabelType>;<
>

/** Gen ^($label ...) where label+=... */
rewriteTokenListLabelRefRoot ::= rewriteTokenLabelRefRoot

/** Gen ^(ID ...) or ^(ID[args] ...) */
rewriteTokenRefRoot(token,elementIndex,hetero) ::= <<
Root[<treeLevel>] := Adaptor.BecomeRoot(<createRewriteNodeFromElement(...)>, Root[<treeLevel>]) as I<ASTLabelType>;<
>

rewriteImaginaryTokenRef(args,token,hetero,elementIndex) ::= <<
Adaptor.AddChild(Root[<treeLevel>], <createImaginaryNode(tokenType=token, ...)>);<
>
rewriteImaginaryTokenRefRoot(args, token, hetero, elementIndex) ::= <<
Root[<treeLevel>] := Adaptor.BecomeRoot(<createImaginaryNode(tokenType=token, ...)>, Root[<treeLevel>]) as I<ASTLabelType>;&lt;n
>>

/** plain -> {foo} action */
rewriteAction(action) ::= <<
Root[0] = &lt;action&gt;&lt;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());&lt;n
>>

rewriteRuleRefRoot(rule) ::= <<
Root[<treeLevel>] := Adaptor.BecomeRoot((Locals['Stream_<rule>'] as IRewriteRuleElementStream).NextNode,
Root[<treeLevel>]) as I<ASTLabelType>;&lt;n
>>

rewriteNodeAction(action) ::= <<
Adaptor.AddChild(Root[<treeLevel>], &lt;action&gt;);&lt;n
>>

rewriteNodeActionRoot(action) ::= <<
Root[<treeLevel>] := Adaptor.BecomeRoot(&lt;action&gt;, Root[<treeLevel>]) as I&lt;ASTLabelType&gt;;&lt;n
>>

/** Gen $ruleLabel ... where defined via ruleLabel=rule */
rewriteRuleLabelRef(label) ::= <<
Adaptor.AddChild(Root[<treeLevel>], (Locals['Stream_<label>'] as IRewriteRuleElementStream).NextTree());&lt;n
>>

/** Gen $ruleLabel ... where defined via ruleLabel+=rule */
rewriteRuleListLabelRef(label) ::= <<
Adaptor.AddChild(Root[<treeLevel>], (Locals['Stream_<label>'] as IRewriteRuleElementStream).NextTree());&lt;n
>>

/** Gen ^($ruleLabel ...) where ruleLabel=rule */
rewriteRuleLabelRefRoot(label) ::= <<
Root[treeLevel] := Adaptor.BecomeRoot((Locals['Stream_<label>'] as IRewriteRuleElementStream).NextNode,
Root[treeLevel]) as I<ASTLabelType>;<
>
/** Gen ^($ruleLabel ...) where ruleLabel+=rule */
rewriteRuleListLabelRefRoot(label) ::= <<
Root[<treeLevel>] := Adaptor.BecomeRoot((Locals['Stream_<label>'] as IRewriteRuleElementStream).NextNode,
Root[<treeLevel>]) as I<ASTLabelType>;<
>
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=", ">''<tokenType>'<endif>) as I<ASTLabelType>
        <endif>
        <$>>
createRewriteNodeFromElement(token,hetero,args) ::= <<
        <if(hetero)>
        T<hetero>.Create((Locals['Stream_<token>'] as IRewriteRuleElementStream).NextToken<if(args)>, <args;
        separator=", "><endif>)
        <else>
        <if(args) <! must create new node from old !>
        Adaptor.Create(<token>, <args; separator=", ">)
        <else>
        (Locals['Stream_<token>'] as IRewriteRuleElementStream).NextNode
        <endif>
        <$>>

Found in path(s):
* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/codegen/templates/Delphi/AST.stg
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/** Templates for building ASTs during tree parsing.
 *
 * Deal with many combinations. Dimensions are:
 *  Auto build or rewrite
 *  no label, label, list label (label/no-label handled together)
 *  child, root
 *  token, set, rule, wildcard
 *
 * Each combination has its own template except that label/no label
 * is combined into tokenRef, ruleRef, ...
 */
group ASTTreeParser;

/** Add a variable to track last element matched */
ruleDeclarations() ::= <<
  <super.ruleDeclarations()>
  _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>;;
      <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(!rewriteMode)>
        <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>
        </if(nullableChildList)>
      <if(!rewriteMode)>
    </if(backtracking)>end;
  <endif>
// 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
<endif>
@if(hetero)
<label>_tree := T<hetero>.Create(<label>);
<else>
<label>_tree := Adaptor.DupNode(<label>) as I<ASTLabelType>;
<endif><
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)
_tree := T<hetero>.Create(<label>);
else
_tree := Adaptor.DupNode(<label>) as I<ASTLabelType>;
endif
Root[treeLevel] := Adaptor.BecomeRoot(_tree, Root[treeLevel]) as I<ASTLabelType>;
if(backtracking)
end;
endif
endif
>>

/** Match ^(label+=TOKEN ...) auto construct */
tokenRefRuleRootAndListLabel(token,label,elementIndex,hetero) ::= <<
tokenRefRuleRoot(...)>

// 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)>
_tree := T<hetero>.Create(<label>);
else
_tree := Adaptor.DupNode(<label>) as I<ASTLabelType>;
endif
Adaptor.AddChild(Root[treeLevel], _tree);
<if(backtracking)>end;<endif>
<endif>
}
>>

matchRuleBlockSet(s,label,hetero,elementIndex,postmatchCode,treeLevel="0") ::= <<
<matchSet(...)>
<noRewrite()>
set return tree !>
>>

matchSetBang(s,label,elementIndex,postmatchCode) ::= <<
**^(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>
(Local['Stream_<token>'] as IRewriteRuleElementStream).NextNode
<endif>
>>

ruleCleanUp() ::= <<
<super.ruleCleanUp()>
<if(!rewriteMode)>
<if(backtracking)>
if (State.Backtracking = 0) then

---
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begin
<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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*/

/** Templates for building ASTs during tree parsing.
*
* Deal with many combinations. Dimensions are:
* Auto build or rewrite

Open Source Used In imicampaign-blackduck 6.2 5399
* 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;
>>

/** 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;
    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>
<actions.AfterRoot: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>); <last = _save_last_<treeLevel>>;
</if>

// 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>
            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>
    <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>);
<endif>
else
<label>_tree = (<ASTLabelType>)adaptor.DupNode(<label>);
<endif>
<if(backtracking)>}
<else> <! rewrite mode !>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> )<endif>
if ( _first_<treeLevel>==null ) _first_<treeLevel> = <label>
<endif>
<endif>
>>

tokenRefRuleRootAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRefRuleRoot(....)> 
<listLabel(elem=label,...)> >>

/** Match ^(label+=TOKEN ...) auto construct */
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)>}
<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) ::= <<
```java
_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>);
    </if><
>adaptor.AddChild(root_<treeLevel>, <label>_tree);
<if(backtracking)>}<endif>
    </if(hetero)>
    </if(backtracking)>}

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>);
    </if><
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(<label>_tree, root_<treeLevel>);
<if(backtracking)>}
<endif>
    </if(hetero)>
    </if(backtracking)>}

// 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><br/>
<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) ::= <<
<label>.Tree","....>
>>

/** ^(rule ...) auto construct */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.ruleRef(...)><br/>
<if(!rewriteMode)><br/>
<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) ::= <<
<super.ruleRefRoot(...)><br/>
<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(...)><br/>
>>

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRefTrackAndListLabel(...)><br/>
>>

/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.ruleRefRuleTrack(...)><br/>
>>
/** ^\(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> ) {<
            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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*/
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>
<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<endif>

>>

/** 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) ::= <<
<tokenRefBang(...)>
<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<endif>

>>
/** 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()",...)>
>>

// Rewrite

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> ) {<

<prevRuleRootRef()>.tree = root_0;
<rewriteCodeLabels()>

root_0 = (<ASTLabelType>)adaptor.nil();
<alts:rewriteAlt(); separator="else ">

</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 tree parser and rewrite=true !>

@if(TREE_PARSER)>

<prevRuleRootRef()>.tree = root_0;
</if(!TREE_PARSER)>

@if(!rewriteMode)>

<prevRuleRootRef()>.tree = root_0;
</endif>

@if(backtracking)
}
</endif>

>>

rewriteCodeLabels() ::= <<
<referencedTokenLabels :
 :{RewriteRule<rewriteElementType>Stream stream_<it>=new
RewriteRule<rewriteElementType>Stream(adaptor,"token <it>",<it>);};

    separator="\n"
>

<referencedTokenListLabels :
 :{RewriteRule<rewriteElementType>Stream stream_<it>=new
RewriteRule<rewriteElementType>Stream(adaptor,"token <it>", list_<it>);};

    separator="\n"
>

<referencedWildcardLabels :
 :{RewriteRuleSubtreeStream stream_<it>=new RewriteRuleSubtreeStream(adaptor,"wildcard <it>",<it>);};

    separator="\n"
/** 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>
} </a>
@else
{
    <a.alt>
} </a>
@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>);
} </a>
>>

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());
>>

/* Gen $label ... where defined via label+=ID */
rewriteTokenListLabelRef(label,elementIndex) ::= <<
adaptor.addChild(root_<treeLevel>, stream_<label>.nextNode());
>>

/* Gen ^(label ...) */
rewriteTokenLabelRefRoot(label,elementIndex) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.becomeRoot(stream_<label>.nextNode(), root_<treeLevel>);
>>

/* Gen ^(label ...) where label+=... */
rewriteTokenListLabelRefRoot := rewriteTokenLabelRefRoot

/* Gen ^(ID ...) or ^(ID[ args ] ...) */
rewriteTokenRefRoot(token,elementIndex,hetero,args) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.becomeRoot(<createRewriteNodeFromElement(...)>, root_<treeLevel>);
>>

rewriteImaginaryTokenRef(args,token,hetero,elementIndex) ::= <<
adaptor.addChild(root_<treeLevel>, <createImaginaryNode(tokenType=token, ...)>);
>>

rewriteImaginaryTokenRefRoot(args,token,hetero,elementIndex) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.becomeRoot(<createImaginaryNode(tokenType=token, ...>), root_<treeLevel>);
>>

/* plain -> { foo } action */
rewriteAction(action) ::= <<
root_0 = <action>;
>>

/* 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());

rewriteRuleRefRoot(rule) ::= <<
  root_<treeLevel> = (<ASTLabelType>)adaptor.becomeRoot(stream_<rule>.nextNode(), root_<treeLevel>);
>>

rewriteNodeAction(action) ::= <<
adaptor.addChild(root_<treeLevel>, <action>);
>>

rewriteNodeActionRoot(action) ::= <<
  root_<treeLevel> = (<ASTLabelType>)adaptor.becomeRoot(<action>, root_<treeLevel>);
>>

/** Gen $ruleLabel ... where defined via ruleLabel=rule */
rewriteRuleLabelRef(label) ::= <<
adaptor.addChild(root_<treeLevel>, stream_<label>.nextTree());
>>

/** Gen $ruleLabel ... where defined via ruleLabel+=rule */
rewriteRuleListLabelRef(label) ::= <<
adaptor.addChild(root_<treeLevel>, stream_<label>.nextTree());
>>

/** Gen ^(ruleLabel ...) where ruleLabel=rule */
rewriteRuleLabelRefRoot(label) ::= <<
  root_<treeLevel> = (<ASTLabelType>)adaptor.becomeRoot(stream_<label>.nextNode(), root_<treeLevel>);
>>

/** Gen ^(ruleLabel ...) where ruleLabel+=rule */
rewriteRuleListLabelRefRoot(label) ::= <<
  root_<treeLevel> = (<ASTLabelType>)adaptor.becomeRoot(stream_<label>.nextNode(), root_<treeLevel>);
>>

rewriteWildcardLabelRef(label) ::= <<
adaptor.addChild(root_<treeLevel>, stream_<label>.nextTree());
>>

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)""><endif>)
  <endif>
>>

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createRewriteNodeFromElement(token,hetero,args) ::= <<
  <if(hetero)>
  new <hetero>(stream_<token>.nextToken(), <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
@end
@end
>@rule.body() ::= <<
@debug_listener.location(<ruleDescriptor.tree.line>, <ruleDescriptor.tree.column>)
@@super.body()
@debug_listener.location(<ruleDescriptor.EORNode.line>, <ruleDescriptor.EORNode.column>)
end
@end

// Common debug event triggers used by region overrides below
enterSubRule() ::= <<
in_subrule(<decisionNumber>) do
@end
@end
exitSubRule() ::= <<
end
@end
@end
enterDecision() ::= <<
in_decision(<decisionNumber>) do
@end
@end
exitDecision() ::= <<
end
@end
@end
enterAlt(n) ::= <<
in_alternative(<n>)
@end
@end
// 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
>>

@ruleBlockSingleAlt.prealt() ::= "<enterAlt(n={1})>"

@blockSingleAlt.prealt() ::= "<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.prealt() ::= "<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 )
>>

@dfaStateSwitch.noViableAltException() ::= <<
nvae = NoViableAlternative( "<description>" , <decisionNumber> , <stateNumber> )
  @debug_listener.recognition_exception(nvae)
raise( nvae )
>>

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 */
lruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  <ruleRef(...)>   
  <listLabelAST(...)>    
>>

/** x+=rule! when output=AST is a rule ref with list addition */
lruleRefBangAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  <ruleRefBang(...)>  
  <listLabelAST(...)> 
>>

/** x+=rule^ */
lruleRefRuleRootAndListLabel(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>))
@end>
>>

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>
   <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>;</root>
}}>
// 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><
    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>
  </if(hetero)>
>>

/** 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><
    root_<treeLevel> = <ASTLabelType>(adaptor.becomeRoot(<label>_tree, root_<treeLevel>));
    <if(backtracking)>}<endif>
  <else> <! rewrite mode !>
    <if(backtracking)>if ( <actions.(actionScope).synpredgate> )<endif>
    if ( _first_<treeLevel>==null ) _first_<treeLevel> = <label>;
    <endif>
  </if(hetero)>
>>
/** 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>
<hetero>
<label>_tree = new <hetero>(<label>);
<else>
<label>_tree = <ASTLabelType>(adaptor.dupNode(<label>));
<endif>
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>
      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> =
  <endif>
>>
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  <ruleRefRuleRoot(...)>
  <listLabel(elem=label+".tree",...)>
>>

ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
  _last = <ASTLabelType>(input.LT(1));
  <super.ruleRefTrack(...)> 
>>

ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  _last = <ASTLabelType>(input.LT(1));
  <super.ruleRefTrackAndListLabel(...)>
>>

ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
  _last = <ASTLabelType>(input.LT(1));
  <super.ruleRefRootTrack(...)>
>>

ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  _last = <ASTLabelType>(input.LT(1));
  <super.ruleRefRuleRootTrackAndListLabel(...)>
>>

createRewriteNodeFromElement(token,hetero,scope) ::= <<
  <if(hetero)>
  new <hetero>(stream_<token>.nextNode())
  <else>
  stream_<token>.nextNode()
  <endif>
>>

ruleCleanUp() ::= <<
  <super.ruleCleanUp()>
  <if(!rewriteMode)>
  ...
Found in path(s):
* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/codegen/templates/ActionScript/ASTTreeParser.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/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/ANTLRParser.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/ANTLRTreeWalker.java
/*
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*/

/*
*  Template group file for the Objective C code generator.
*  Heavily based on Java.stg
*
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) ::= <<
/** 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,
umRules,
fileName,
ANTLRVersion,
genratedTimestamp,
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="\0"}>

<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,
    synpeds,
    memoize,
    numRules,
    fileName,
    ANTLRVersion,
    generatedTimestamp,
    trace,
    scopes,
    superClass,
    literals
) ::= <<

// $ANTLR <ANTLRVersion> <fileName> <generatedTimestamp>

@Path
<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(...)>
@end>
@if(PARSER)>
<parserHeaderFile(...)>
@end>
@if(TREE_PARSER)>
<treeParserHeaderFile(...)>
@end>
<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="ANTLRLexor"
) ::=
tokens,
scopes,
rules,
nNumRules,
labelType="id<ANTLRToken>",
filterMode,
superClass="ANTLRLEXER"
) ::= <<
<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++) {

Open Source Used In imicampaign-blackduck 6.2  5437
/* Start of actions.lexer.methods */
<actions.lexer.methods>
/* start methods() */
<@methods()>

@if(actions.lexer.reset) - (void) reset
{
    <actions.lexer.reset>
    [super reset];
}
@end /* end of <grammar.recognizerName> implementation line 397 */
- (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,
  PARSER,
  TREE_PARSER,
  actionScope,
  actions,
  docComment,
  recognizer,
  name,
  tokens,
  tokenNames,
  rules,
  cyclicDFAs,
  bitsets,
  buildTemplate,
  profile,
  backtracking,
  synpreds,
  memoize,
  numRules,
  fileName,
  ANTLRVersion,
  generatedTimestamp,
  trace,
  scopes,
  superClass="ANTLRParser"
  ) ::= <<
/* parserHeaderFile */
<genericParserHeaderFile(...)>
>>

treeParserHeaderFile( LEXER,
  PARSER,
  TREE_PARSER,
  actionScope,
  actions,
  docComment,
  recognizer,
  name,
  tokens,
  tokenNames,
  rules,
cyclicDFAs,
bitsets,
buildTemplate,
profile,
backtracking,
synpreds,
memoize,
umRules,
fileName,
ANTLRVersion,
generatedTimestamp,
trace,
scopes,
superClass="ANTLRTreeParser"
) ::= <<
/* treeParserHeaderFile */
genericParserHeaderFile( LEXER,
PARSER,
TREE_PARSER,
actionScope,
actions,
docComment,
recognizer,
name,
tokens,
tokenNames,
rules,
cyclicDFAs,
bitsets,
buildTemplate,
profile,
backtracking,
synpreds,
memoize,
umRules,
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
#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 ]>
// start of action-actionScope-memVars 
<actions.(actionScope).memVars>
// start of ruleAttributeScopeMemVar 
<rules: [ rule | <rule.ruleDescriptor.ruleScope:ruleAttributeScopeMemVar(scope=it)> ]>
// 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 |
/** 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)> }
         }

@end /* end of <className()> interface */
+ (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
{
        - (id) initWithStream:(<inputStreamType>)aStream
        {
            if ((self = [super initWithStream:aStream State:[[ANTLRRecognizerSharedState newANTLRRecognizerSharedStateWithRuleLen:<numRules>+1] retain]] != nil) {<endif><\n>
    </if(PARSER)>
    - (void) dealloc
    {
        <cyclicDFAs:{dfa | [dfa<dfa.decisionNumber> release];}; 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>}> !><rules:{rule | <rule.ruleDescriptor.ruleScope:ruleAttributeScopeDealloc(scope=it)>}
    /* start of actions-actionScope-dealloc */
    <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">  
>>  

treeParser( grammar,  
    name,  
    scopes,  
    tokens,  
    tokenNames,  
    rules,  
    numRules,  
    bitsets,  
    ASTLabelType="ANTLRCommonTree",  
    superClass="ANTLRParser",  
    labelType="ANTLRCommonToken",  
    members={ <actions.parser.members> }  
  ) ::= <<<  
<genericParser(inputStreamType="id\ANTLRTokenStream">", rewriteElementType="ANTLRCommonToken",  
...)>  
>>  

parser( grammar,  
    name,  
    scopes,  
    tokens,  
    tokenNames,  
    rules,  
    numRules,  
    bitsets,  

/** 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> <
> !>
>>
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()>
}
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]];<
  <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>
{
/** How to generate code for the implicitly-defined lexer grammar rule  
* that chooses between lexer rules.
*/
tokensRule(ruleName,nakedBlock,args,block,ruleDescriptor) ::= << 
  - (void) mTokens  
>>

// $ANTLR end "<ruleName>"
/** 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>
<@postal()>
>>

/** A special case of a (...) subrule with a single alternative */
blockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
// <fileName>:<description> // blockSingleAlt
<decls>
<@prealt()>

```
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 = [ANTLRREarlyExitException exceptionWithStream:input
decisionNumber:<decisionNumber>];
          <@earlyExitException()>
          @throw eee;
        }
        cnt<decisionNumber>++;
      } while (YES);
  loop<decisionNumber>: ;
  <@postloop()>
>>

positiveClosureBlockSingleAlt ::= positiveClosureBlock

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() */
>>

/** 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>];
>>

/** match a character */
charRef(char,label) ::= <<
@if(label)>
NSInteger <label> = [input LA:1];
@endif
[self matchChar:<char>]; <checkRuleBacktrackFailure()> 
>>

/** match a character range */
charRangeRef(a,b,label) ::= <<
@if(label)>
<label> = [input LA:1];
@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];
@endif
<else>
<label> = (<labelType> *)[input LT:1];
@endif
@endif
if (<<) {
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()>
</if>

wildcard(label,elementIndex) ::= <<
<if(label)>
<label> = (<labelType> *)[input LT:1];
<endif>
[self matchAny:input]; <checkRuleBacktrackFailure()>
>>
wildcardAndListLabel(label, elementIndex) ::= <<
<wildcard(…)>
<listLabel(elem=label,…)>
>>

/** Match . wildcard in lexer */
wildcardChar(label, elementIndex) ::= <<
<if(label)>
NSUInteger <label> = [input LA:1];<
<endif>
[self 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) ::= <<
[self pushFollow:FOLLOW_<rule.name>_in_<ruleName><elementIndex>];
<if(label)><label> = [self <rule.name><if(args)>:<args; separator=" :"><endif>];<
<else>
[self <rule.name><if(args)>:<args; separator=" :"><endif>];<
<endif>
[self 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)>

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** 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()><\n>
    <children:element()>
    [self match:input TokenType:UP Follow:nil]; <checkRuleBacktrackFailure()><\n>
} <else>
[self match:input TokenType:DOWN Follow:nil]; <checkRuleBacktrackFailure()><\n>
<children:element()>
[self match:input TokenType:UP Follow:nil]; <checkRuleBacktrackFailure()><\n>
<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];
}
>>

// Fixed DFA (if-then-else)

dfaState(k, edges, eotPredictsAlt, description, stateNumber, semPredState) ::= <<
NSInteger LA<decisionNumber>_stateNumber = [input LA:<k>];
<edges; separator="\nelse ">
else {
    <if(eotPredictsAlt)>
    alt<decisionNumber> = <eotPredictsAlt>;
    </if>
    <ruleBacktrackFailure()>
    ANTLRNoViableAltException *nvae = [ANTLRNoViableAltException
    newANTLRNoViableAltException:<decisionNumber> state:<stateNumber> stream:input];
    @noViableAltException() 
    @throw nvae;
</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.
 */
daOptionalBlockState(k, edges, eotPredictsAlt, description, stateNumber, semPredState) ::= <<
NSInteger LA<decisionNumber>_stateNumber = [input LA:<k>];
<edges; separator="\nelse ">
>>

/** A DFA state that is actually the loopback decision of a closure
 * loop. If end-of-token (EOT) predicts any of the targets then it
 * should act like a default clause (i.e., no error can be generated).
 * This is used only in the lexer so that for (\'a\')* on the end of a rule
 * anything other than \'a\' predicts exiting.
 */
daLoopbackState(k, edges, eotPredictsAlt, description, stateNumber, semPredState) ::= <<
NSInteger LA<decisionNumber>_stateNumber = [input LA:<k>];
<edges; separator="\nelse ">
@if(eotPredictsAlt)>
<if(edges)>
Open Source Used In icampaign-blackduck 6.2 5459
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>
}
>>

// Fixed DFA (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"><
    <if(eotPredictsAlt)
    default: ;
    alt<decisionNumber> = <eotPredictsAlt>
    break;<\n
    <endif>
}<\n
>>

dfaEdgeSwitch(labels, targetState) ::= <<
<labels:{case <it>: ;}; separator="\n">
{
    <targetState>
}
break;
>>

// Cyclic DFA

/** 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 {
}
@end /* end of DFA<dfa.decisionNumber> interface */
#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
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="\n    ", 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;
}
/* start dfa.specialStateSTs */
- (NSInteger) specialStateTransition:(NSInteger) s Stream:(id<ANTLRIntStream>) anInput {
  if(Lexer) {
    id<ANTLRIntStream> input = anInput;
  }
  if(Parser) {
    id<ANTLRTokenStream> input = (id<ANTLRTokenStream>) anInput;
  }
  if(TreeParser) {
    id<ANTLRTreeNodeStream> input = (id<ANTLRTreeNodeStream>) anInput;
  }
  switch (s) {
    <dfa.specialStateSTs:{state |
      case <i0> : ;<! compressed special state numbers 0..n-1 !>
      <state>}; separator="\n">
  }
  if(Backtracking) {
    if ([recognizer getBacktrackingLevel] > 0) {
      [recognizer setFailed:YES]; return -1;
    }
  }
  ANTLRNoViableAltException *nvae = [ANTLRNoViableAltException
  newANTLRNoViableAltException:<dfa.decisionNumber> state:s stream:[recognizer getInput]];
  /* [self error:nvae]; */ /* ! for debugger - do later !>
  @throw nvae;
} /* end dfa.specialStateSTs */
#endif

- (void) dealloc {
  free(transition);
  [super dealloc];
}

- (NSString *) description {
  return @"<dfa.description>";
}

@end /* end DFA<dfa.decisionNumber> implementation */
#pragma mark Cyclic DFA implementation end DFA<dfa.decisionNumber>

/** A state in a cyclic DFA; it's a special state and part of a big switch on
* state.
 */
cyclicDFAStratecynumber, stateNumber, edges, needErrorClause, semPredState) ::= <<
/* cyclicDFAStratecynumber */
NSInteger LA<decisionNumber>_<stateNumber> = [input LA:1];<
;if(semPredState) <!-- get next lookahead symbol to test edges, then rewind !>
[la<decisionNumber>_<stateNumber> = [input getIndex];
[input rewind];<
;if(semPredState) <!-- return input cursor to state before we rewound !>
[la<decisionNumber>_<stateNumber>];<
;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.
*/
cyclicDFAStratecynumber,labelExpr, targetStateNumber, edgeNumber, predicates) ::= <<
/* cyclicDFAStratecynumber */
if (labelExpr<if(predicates) && (<predicates>)<endif>) { s = targetStateNumber;}<
>>

/** An edge pointing at end-of-token; essentially matches any char;
* always jump to the target.
*/
eotDFAStratecynumber(targetStateNumber, edgeNumber, predicates) ::= <<
/* eotDFAStratecynumber */
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) ::= "!(<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 synthesize -- OBJC-Line 1750 */\n<<scope.attributes:[a[@synthesize <a.name>;]; separator="\n">\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@end/* end of <scope.name>_Scope interface */
>>

ruleAttributeScopeDecl(scope) ::= <<
@if(scope.attributes)
@interface <scope.name>_Scope : ANTLRSymbolsScope { /* ruleAttributeScopeDecl */
<! <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@end/* end of <scope.name>_Scope interface */
@end/* end of <scope.name>_Scope implementation */
>>
ruleAttributeScopeMemVar(scope) ::= <<
  /* ruleAttributeScopeMemVar */
  <scope.name>_Scope *<scope.name>_scope;
>>

ruleAttributeScopeImpl(scope) ::= <<
  <if(scope.attributes)>
  @implementation <scope.name>_Scope /* ruleAttributeScopeImpl */
  <if(scope.attributes)><scope.attributes:{a|@synthesize a.name;}; separator="\n"></if>
  + (<scope.name>_Scope *)new<scope.name>_Scope
  |
  return [[[<scope.name>_Scope alloc] init] retain];
  </if(scope.attributes)>
  // start of iterate get and set functions
  <scope.attributes:{a|}
  - (a.type) get<a.name> { return(a.name); }
  - (void) set<a.name>: (<a.type>aVal |
  a.name = aVal; \} \n \n ; separator=\"\n\"
  // End of iterate get and set functions
  </scope.attributes>
  @end /* end of <scope.name>_Scope implemtation */
>>

ruleAttributeScopeInit(scope) ::= <<
  /* ruleAttributeScopeInit */
  <scope.name>_scope = [[<scope.name>_Scope new] autorelease];
>>

ruleAttributeScopeDealloc(scope) ::= <<
  [[<scope.name>_Scope release];
>>

ruleAttributeScope(scope) ::= <<
  <if(scope.attributes)>
  /* ruleAttributeScope */
  ANTLRSymbolStack *<scope.name>Stack = [ANTLRSymbolStack newANTLRSymbolStackWithLen:30];
  </if(scope.attributes)>
  @end /* ruleAttributeScope */
>>

returnStructName() ::= "<className>()_<it.name>_return"

returnType() ::= <<
  <if(!ruleDescriptor.isSynPred)>
  <if(ruleDescriptor.hasMultipleReturnValues)>
  <ruleDescriptor:returnStructName>()
  </if>
  @end /* end of returnStructName */
>>
/** Generate the Objective-C type associated with a single or multiple return
 * values.
 */
ruleLabelType(referencedRule) ::= <
<if(referencedRule.hasMultipleReturnValues)>
<className()>_<referencedRule.name>_return *
<else>
<if(referencedRule.hasSingleReturnValue)>
<referencedRule.singleValueReturnType>
<else>
void
<endif>
<endif>
>>

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)>
<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.
 */
returnScopeInterface(scope) ::= <
<if(ruleDescriptor.hasMultipleReturnValue)>
/* returnScopeInterface */
@interface <ruleDescriptor:returnStructName>()

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returnScope(scope) ::= <<
/* returnScope */
@if(ruleDescriptor.hasMultipleReturnValues)@implementation <ruleDescriptor:returnStructName()> /* returnScope */
@endif
@synthesize() /* start of synthesize -- OBJC-Line 1837 */
@if(scope.attributes)<scope.attributes:{a|@synthesize <a.name>;}; separator="\n">\n@end /* end of returnScopeInterface interface */\n@if(scope.attributes)<scope.attributes:{a|<a.type> <a.name>;}; separator="\n">\n@end /* start of iterated get and set functions */\n@if(scope.attributes)<scope.attributes:{a|<
- (<a.type>)get<a.name>;
- (void)set<a.name>:(<a.type>)aVal;}; separator="\n">\n@end // End of iterated get and set functions\n@end /* end of iterate get and set functions */\n@end
<<
/* returnScope */
@if(ruleDescriptor.hasMultipleReturnValues)@implementation <ruleDescriptor:returnStructName()> /* returnScope */
@endif
@synthesize() /* start of synthesize -- OBJC-Line 1837 */
@if(scope.attributes)<scope.attributes:{a|@synthesize <a.name>;}; separator="\n">\n@end /* start of iterated get and set functions */\n@if(scope.attributes)<scope.attributes:{a|<
- (<a.type>)get<a.name> \{ return( <a.name> ); \}\n- (void)set<a.name>:(<a.type>)aVal \{ <a.name> = aVal; \}\n}>\n}@end /* end of returnScopeInterface interface */\n@if(scope.attributes)<scope.attributes:{a|<
- (<a.type>)get<a.name> \{ return( <a.name> ); \}\n- (void)set<a.name>:(<a.type>)aVal \{ <a.name> = aVal; \}\n}>\n}@end /* start of iterated get and set functions */\n@if(scope.attributes)<scope.attributes:{a|<
- (<a.type>)get<a.name> \{ return( <a.name> ); \}\n- (void)set<a.name>:(<a.type>)aVal \{ <a.name> = aVal; \}\n}>\n}@end // End of iterated get and set functions\n@end /* end of iterate get and set functions */\n@end
<<
/* returnScope */
@if(ruleDescriptor.hasMultipleReturnValues)@implementation <ruleDescriptor:returnStructName()> /* returnScope */
@endif
@synthesize() /* start of synthesize -- OBJC-Line 1837 */
@if(scope.attributes)<scope.attributes:{a|@synthesize <a.name>;}; separator="\n">\n@end /* start of iterated get and set functions */\n@if(scope.attributes)<scope.attributes:{a|<
- (<a.type>)get<a.name> \{ return( <a.name> ); \}\n- (void)set<a.name>:(<a.type>)aVal \{ <a.name> = aVal; \}\n}>\n}@end /* end of returnScopeInterface interface */\n@if(scope.attributes)<scope.attributes:{a|<
- (<a.type>)get<a.name> \{ return( <a.name> ); \}\n- (void)set<a.name>:(<a.type>)aVal \{ <a.name> = aVal; \}\n}>\n}@end /* start of iterated get and set functions */\n@if(scope.attributes)<scope.attributes:{a|<
- (<a.type>)get<a.name> \{ return( <a.name> ); \}\n- (void)set<a.name>:(<a.type>)aVal \{ <a.name> = aVal; \}\n}>\n}@end // End of iterated get and set functions\n@end /* end of iterate get and set functions */\n@end
<<
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
  ([(<scope>_Scope *)[gStack objectAtIndex:<index>]).<attr.name>
@end
@if(index)
  ((<scope>_Scope *)[gStack peek]).<attr.name>
@end
@end

scopeSetAttributeRef(scope,attr,expr,index,negIndex) ::= <<
/* scopeSetAttributeRef */
@if(negIndex)
  ((<scope>_Scope *)[gStack objectAtIndex:[gStack size]-<negIndex>-1]).<attr.name> =<expr>;
@else
  ([(<scope>_Scope *)[gStack objectAtIndex:<index>]).<attr.name> = <expr>;
@end
@if(index)
  ((<scope>_Scope *)[gStack peek]).<attr.name> = <expr>;
@end
@end

scopeAttributeRefStack() ::= <<
/* scopeAttributeRefStack */
@if(negIndex)
  ((<scope>_scope *)[<scope>Stack objectAtIndex:[<scope>Stack count]-<negIndex>-1]).<attr.name> = <expr>;
@else
  ([(<scope>_Scope *)[<scope>Stack objectAtIndex:<index>]).<attr.name> = <expr>;
@end
@if(index)
  ((<scope>_Scope *)[<scope>Stack peek]).<attr.name> = <expr>;
@end
@end
/* $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>
  <scope>
<<
  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)>
  ([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>;;" /* "<
#error StringTemplates are unsupported<
> */

/** 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=" ">
};
>>
bitsetInit(name, words64) ::= <<
  <name> = [[ANTLRBitSet newANTLRBitSetWithBits:(const unsigned long long *)<name>_data
  Count:(NSUInteger)<length(words64)>] retain];
>>

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

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 */
group AST;

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@outputFile.imports() ::= <<
<@super.imports()>
@if(!TREE_PARSER)<< ! tree parser would already have imported !>
using Antlr.Runtime.Tree;
@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; } }

Open Source Used In imicampaign-blackduck 6.2 5475
/** Add a variable to track rule's return AST */
ruleDeclarations() ::= <<
  <super.ruleDeclarations()>
  <ASTLabelType> root_0 = null;
>>

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();
      </if>
    </if>
  </if>
>>

// Tracking Rule Elements

/** ID and track it for use in a rewrite rule */
tokenRefTrack(token,label,elementIndex,hetero) ::= <<
  <tokenRefBang(...)>
  <if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>stream_<token>.Add(<label>);
>>

/** 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(...)>

Open Source Used In imicampaign-blackduck 6.2 5476
/** ^(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",....)>  
>>

// Rewrite

rewriteCode(
alts, description,
referencedElementsDeep, // ALL referenced elements to right of ->
referencedTokenLabels,
referencedTokenListLabels,
referencedRuleLabels,
referencedRuleListLabels,
rewrittenWildCardLabels,
rewrittenWildCardListLabels,
rewriteBlockLevel, enclosingTreeLevel, treeLevel) ::= <<

// AST REWRITE
// elements: <rewrittenElementsDeep; separator="", ">
// token labels: <rewrittenTokenLabels; separator="", ">
// rule labels: <rewrittenRuleLabels; separator="", ">
// token list labels: <rewrittenTokenListLabels; separator="", ">
// rule list labels: <rewrittenRuleListLabels; separator="", ">
// wildcard labels: <[rewrittenWildCardLabels,rewrittenWildCardListLabels]; separator="", ">
@if(backtracking)
if ( <actions.(actionScope).synpredgate> ) {
@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
@endalt
<! if parser or tree-parser && rewrite!=true, we need to set result !>
@if(!TREE_PARSER)
@if(!rewriteMode)
<prevRuleRootRef>().Tree = root_0;
@endif
@endif
@endif
</if(backtracking)
"
@endif
}

rewriteCodeLabels() ::= <<
<rewrittenTokenLabels
: {RewriteRule<rewriteElementType>Stream stream_<it>=new

---

Open Source Used In Imicampaign-blackduck 6.2 5478
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();
}
>>

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();
>
>>

rewriteAlt(a) ::= <<
// <a.description>
<if(a.pred)>
if (<a.pred>)
{
<a.alt>

</a.alt>

<else>
{
<a.alt>

</a.alt>

<endif>
>>

/** For empty rewrites: "r : ... -> ;" */
rewriteEmptyAlt() ::= "root_0 = null;"

rewriteTree(root,children,description,enclosingTreeLevel,treeLevel) ::= <<
// <fileName>:<description>
{
<ASTLabelType> root_<treeLevel> = (<ASTLabelType>)adaptor.Nil();

```
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(...) >);
»

/** Gen $label ... where defined via label=ID */
rewriteTokenLabelRef(label,elementIndex) ::= «
  adaptor.AddChild(root_<treeLevel>, stream_<label>.NextNode());
»

/** Gen $label ... where defined via label+=ID */
rewriteTokenListLabelRef(label,elementIndex) ::= «
  adaptor.AddChild(root_<treeLevel>, stream_<label>.NextNode());
»

/** Gen ^(label ...) */
rewriteTokenLabelRefRoot(label,elementIndex) ::= «
  root_<treeLevel> = (<ASTLabelType>) adaptor.BecomeRoot(stream_<label>.NextNode(), root_<treeLevel>);
»

/** Gen ^(label ...) where label+=... */
rewriteTokenListLabelRefRoot ::= rewriteTokenLabelRefRoot

/** Gen ^(ID ...) or ^(ID[args] ...) */
rewriteTokenRefRoot(token,elementIndex,hetero,args) ::= «
  root_<treeLevel> = (<ASTLabelType>) adaptor.BecomeRoot(<createRewriteNodeFromElement(...) >,
  root_<treeLevel>);
»

rewriteImaginaryTokenRef(args,token,hetero,elementIndex) ::= «
  adaptor.AddChild(root_<treeLevel>, <createImaginaryNode(tokenType=token, ...)>);
»

rewriteImaginaryTokenRefRoot(args,token,hetero,elementIndex) ::= «
root_<treeLevel> = (ASTLabelType)adaptor.BecomeRoot(createImaginaryNode(tokenType=token, ...),
root_<treeLevel>);
>

/** plain -> {foo} action */
rewriteAction(action) ::= <<
root_0 = action;
>

/** 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());
>

rewriteRuleRefRoot(rule) ::= <<
root_<treeLevel> = (ASTLabelType)adaptor.BecomeRoot(stream_<rule>.NextNode(), root_<treeLevel>);
>

rewriteNodeAction(action) ::= <<
adaptor.AddChild(root_<treeLevel>, <action>);
>

rewriteNodeActionRoot(action) ::= <<
root_<treeLevel> = (ASTLabelType)adaptor.BecomeRoot(<action>, root_<treeLevel>);
>

/** Gen $ruleLabel ... where defined via ruleLabel=rule */
rewriteRuleLabelRef(label) ::= <<
adaptor.AddChild(root_<treeLevel>, stream_<label>.NextTree());
>

/** Gen $ruleLabel ... where defined via ruleLabel+=rule */
rewriteRuleListLabelRef(label) ::= <<
adaptor.AddChild(root_<treeLevel>, stream_<label>.NextTree());
>

/** Gen ^(ruleLabel ...) where ruleLabel=rule */
rewriteRuleLabelRefRoot(label) ::= <<
root_<treeLevel> = (ASTLabelType)adaptor.BecomeRoot(stream_<label>.NextNode(), root_<treeLevel>);
>

/** Gen ^(ruleLabel ...) where ruleLabel+=rule */
rewriteRuleLabelRefRoot(label) ::= <<
root_<treeLevel> = (ASTLabelType)adaptor.BecomeRoot(stream_<label>.NextNode(), root_<treeLevel>);
>
rewriteRuleListLabelRefRoot(label) ::= <<
root_<treeLevel> = (ASTLabelType)adaptor.BecomeRoot(stream_<label>.NextNode(), root_<treeLevel>);
>>

rewriteWildcardLabelRef(label) ::= <<
adaptor.AddChild(root_<treeLevel>, stream_<label>.NextTree());
>>

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/antlr/codegen/templates/CSharp3/AST.stg
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THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/
/** Template overrides to add debugging to AST stuff. Dynamic inheritance
* hierarchy is set up as ASTDbg : AST : Dbg : Java by code generator.
*/

group ASTDbg:

parserMembers() ::= <<
    protected DebugTreeAdaptor adaptor =
        new DebugTreeAdaptor(null,new CommonTreeAdaptor());
    public void setTreeAdaptor(TreeAdaptor adaptor) {
        this.adaptor = new DebugTreeAdaptor(dbg,adaptor);
    }
    public TreeAdaptor getTreeAdaptor() {
        return adaptor;
    }
>>

parserCtorBody() ::= <<
>>

createListenerAndHandshake() ::= <<
    <super.createListenerAndHandshake()>
>>

ctorForPredefinedListener() ::= <<
>>

@rewriteElement.pregen() ::= ""

Found in path(s):
* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/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,
scopess, superClasst, literalss) ::= <<

// $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.*; @end
@end

<docComment>
<recognizer>
}
>>

lexer(grammar, name, tokens, scopess, rules, numRules, labelType="Token", 
 filterMode, superClasst="Lexer") ::= <<
public class <grammar.recognizerName> extends 
@if(actions.(actionScope).superClasst) <actions.(actionScope).superClasst> @else @superClassName @end >
@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 \n <! index from 1..n !> 
@end 
@end 
<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>
/** 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=", ">
      ];
    </if>
    <end>
    <tokens:{public static const <it.name>:int=<it.type>;}; separator="\n">
<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()>::<g.recognizerName> = 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 <ruleDescriptor.grammar:delegateName()>.<ruleDescriptor.name>(<ruleDescriptor.parameterScope.attributes:{a|<a.name>}; separator="", ">); 
    <endif>
    <ruleDescriptor.grammar.delegateName()>.<ruleDescriptor.name>({ruleDescriptor.grammar.parameterScope:parameterScope.attribution:[a|[a.name]}; separator="", "); 
  }
  }

<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 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>
}
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;
}
>>

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 end <ruleName>
>>
// $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)><
>}
    <else>
    <if(!emptyRule)
    <if(actions.(actionScope).rulecatch)
    <actions.(actionScope).rulecatch>
    <else>
    catch (re:RecognitionException) {
        reportError(re);
        recoverStream(input,re);
        <@setErrorReturnValue()>}
    <un>
    <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);
<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);<
>  <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><
>  <else>  
  var _type:int = <ruleName>;  
  var _channel:int = DEFAULT_TOKEN_CHANNEL;  
  <ruleMemoization(name=ruleName)>  
  </if>
/** 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>
}
>>

//-- 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>;
>>
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>++;
  }
/** 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 */
onoptionalBlock ::= block

/** A case in a switch that jumps to an alternative given the alternative number. A DFA predicts
the alternative and then a simple switch does the jump to the code that actually matches that alternative. */
altSwitchCase() ::= <<
case <i> :
  <@prealt()>
  <it>
  break;<\n>
>>

/** An alternative is just a list of elements; at outermost level */
alt(elements,altNum,description,autoAST,outerAlt,treeLevel,rew) ::= <<
 // <fileName>:<description>
 {
   @declarations()
   elements:element()
   rew
   @cleanup()
 } >>

/** What to emit when there is no rewrite. For auto build *
 * mode, does nothing. */
noRewrite(rewriteBlockLevel, treeLevel) ::= ""

// ELEMENTS

/** Dump the elements one per line */
element() ::= <<
   @prematch()
   <it.el><\n>
 >>

/** match a token optionally with a label in front */
tokenRef(token,label,elementIndex,hetero) ::= <<
   <if(label)><label>=<labelType>(<endif>matchStream(input,<token>,FOLLOW_<token>_in_<ruleName><elementIndex>)<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);
  <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);
  </if>
  <else>
  <label>=<labelType>(input.LT(1));
  </else>
  <endif>
  if ( <s> ) {
    input.consume();
    <postmatchCode>
    <if(!LEXER)>
    this.state.errorRecovery=false;
    </if>
    <if(backtracking)>
    this.state.failed=false;
    </if>
   }
  else {
    <ruleBacktrackFailure()>
    @mismatchedSetException()
    <if(LEXER)>
    throw recover(new MismatchedSetException(null,input));
    </if>
    <else>
    throw new MismatchedSetException(null,input);
    </else>
    <! use following code to make it recover inline; remove throw mse;>
    recoverFromMismatchedSet(input,mse,FOLLOW_set_in_<ruleName><elementIndex>);
    !>
  }
>>

matchRuleBlockSet ::= matchSet

matchSetAndListLabel(s,label,elementIndex,postmatchCode) ::= <<
  <matchSet(...)>
  <listLabel(elem=label,...)>
>>

/** Match a string literal */
lexerStringRef(string,label,elementIndex) ::= <<
if (label) {Start:int = charIndex;
mMatchString(<string>); <checkRuleBacktrackFailure()>
<label> = CommonToken.createFromStream(input, TokenConstants.INVALID_TOKEN_TYPE,
TokenConstants.DEFAULT_CHANNEL, <label>Start, charIndex-1);
} else {
mMatchString(<string>); <checkRuleBacktrackFailure()>
}

wildcard(label,elementIndex) ::= <<
  if (label) {
    <label> = <labelType>(input.LT(1));
  }
  matchAny(input); <checkRuleBacktrackFailure()>
>>

wildcardAndListLabel(label,elementIndex) ::= <<
  wildcard(...)>
  listLabel(elem=label,...)
>>

/** Match . wildcard in lexer */
wildcardChar(label, elementIndex) ::= <<
  if (label) {
    <label> = input.LA(1);
  }
  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()>.
    }
    <rule.name>({args: separator=", "});
  }<
  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 */

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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>");
}
>>

// Fixed DFA (if-then-else)

dfaState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
var LA<decisionNumber>_<stateNumber>:int = input.LA(<k>);<
<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.
  */
### DFA Optional Block State

```pseudocode
variable LA<decisionNumber>_<stateNumber>: int = input.LA(<k>); lambda
<edges; separator="\n unless">
```

**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.
*/

```pseudocode
dfaLoopbackState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
variable LA<decisionNumber>_<stateNumber>: int = input.LA(<k>); lambda
<edges; separator="\n unless">
if(eotPredictsAlt)
alt<decisionNumber>=<eotPredictsAlt>; <! if no edges, don't gen ELSE !>
else {
    alt<decisionNumber>=<eotPredictsAlt>;
}
<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>) && (<predicates>) ) {
    <targetState>
}
>>

// Fixed DFA (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>) ) {
<default>
    <if(eotPredictsAlt)>
```
alt<decisionNumber>=<eotPredictsAlt>;
<else>
<ruleBacktrackFailure()>
throw new NoViableAltException("<description>", <decisionNumber>, <stateNumber>, input);
<!-- Need to add hook for noViableAltException !>
<endif>
}

>>

dfaOptionalBlockStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch ( input.LA(<k>) ) {
<edges; separator="\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>
}
>>

dfaEdgeSwitch(labels, targetState) ::= <<
<labels:{case <it>:}; separator="\n"><

Cyclic DFA

/** 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) ::= <<

da<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="",
];
<if(dfa.specialStateSTs)>
  private function DFA<dfa.decisionNumber>_specialStateTransition(dfa:DFA, s:int, _input:IntStream):int {
    <if(LEXER)>
      var input:IntStream = _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;}
<endif>
    throw dfa.error(new NoViableAltException(dfa.description, <dfa.decisionNumber>, _s, input));
}<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);
    <if(semPredState)> <! get next lookahead symbol to test edges, then rewind !>
        var index<decisionNumber>_<stateNumber>:int = input.index;
        input.rewind();
    <endif>
    s = -1;
    <edges; separator="|else">
    <if(semPredState)> <! return input cursor to state before we rewound !>
        input.seek(index<decisionNumber>_<stateNumber>);
    <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>;}<
>>

/** An edge pointing at end-of-token; essentially matches any char;
 * always jump to the target.
 */
eotDFAEdge(targetStateNumber,edgeNumber, predicates) ::= <<
    s = <targetStateNumber>;<
>>

// DFA EXPRESSIONS

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>
<\n>

ruleAttributeScope(scope) ::= <<
<if(scope.attributes)>
protected var <scope.name>_stack:Array = new Array();<\n>
<endif>
<\n>

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))>;<
>>

/** 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.hasMoreReturnValues)>
(<scope>!null?<scope>.values.<attr.name>:<initValue(attr.type)>)
<else>
<scope>
<endif>
>>

Open Source Used In imicampaign-blackduck 6.2 5509
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:"

tokenLabelPropertyRef_type(scope, attr) ::= "(<scope>!=null?<scope>.type:"

tokenLabelPropertyRef_line(scope, attr) ::= "(<scope>!=null?<scope>.line:"

tokenLabelPropertyRef_pos(scope, attr) ::= "(<scope>!=null?<scope>.charPositionInLine:"

tokenLabelPropertyRef_channel(scope, attr) ::= "(<scope>!=null?<scope>.channel:"

tokenLabelPropertyRef_index(scope, attr) ::= "(<scope>!=null?<scope>.tokenIndex:"

tokenLabelPropertyRef_tree(scope, attr) ::= "(<scope>!=null?<scope>_tree"

tokenLabelPropertyRef_int(scope, attr) ::= "(<scope>!=null?int(<scope>.text):"

ruleLabelPropertyRef_start(scope, attr) ::= "(<scope>!=null?<labelType>(<scope>.start):"

ruleLabelPropertyRef_stop(scope, attr) ::= "(<scope>!=null?<labelType>(<scope>.stop):"

ruleLabelPropertyRef_tree(scope, attr) ::= "(<scope>!=null?<ASTLabelType>(<scope>.tree):"

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:"

/** 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) ::= "\n    <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>\n    
    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=", "]));
>>

codeFileExtension() ::= ".as"

true() ::= "true"
false() ::= "false"

Found in path(s):
*/
http://www.temporal-wave.com
http://www.linkedin.com/in/jimidle

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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="\t", >
};<\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--;
}
@endif>
@if(!grammar.grammarIsRoot) <! imported grammar !>
static ANTLR3_UINT32 getRuleLevel()
{
    return <grammar.delegators:{g| <g:delegateName()>}->getRuleLevel();
}
static void 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;
} <<

@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();
if ( getRuleLevel()==0 )
{
DBG->terminate(DBG);
}
>>&

}@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>);
"

exitSubRule() ::=  
"DBG->exitSubRule(DBG, <decisionNumber>);
"

enterDecision() ::=  
"DBG->enterDecision(DBG, <decisionNumber>);
"

exitDecision() ::=  
"DBG->exitDecision(DBG, <decisionNumber>);
"

enterAlt(n) ::= "DBG->enterAlt(DBG, <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(DBG, EXCEPTION);
"

@closureBlock.preloop() ::= "<enterSubRule()>
"

@closureBlock.postloop() ::= "<exitSubRule()>
"
@closureBlock.predecision() ::= "<enterDecision()>

@closureBlock.postdecision() ::= "<exitDecision()>

@altSwitchCase.prealt() ::= "<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):
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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;}>}

>>

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>
   <! don't create new adaptor for delegates !>
>>

//@rewriteElement.pregen() ::= "dbg.Location( <e.line>, <e.pos> );"

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>_first_0 = null;
/** 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);
  </if(rewriteMode)>
  <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();
    </if(!rewriteMode)>
    <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;
        </if(root.el.rule)>
        if ( _first_<enclosingTreeLevel>==null ) _first_<enclosingTreeLevel> = <root.el.label>.
        {else>
          if ( _first_<enclosingTreeLevel>==null ) _first_<enclosingTreeLevel> = <root.el.label>;
        </else>
      </if(rewriteMode)>
    </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()>
>>
adaptor.addChild(root_<enclosingTreeLevel>, root_<treeLevel>);  
_<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) ::=  
<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>
</if(backtracking)> } <endif>

root_<treeLevel> = (<ASTLabelType>)adaptor.becomeRoot(<label>_tree, root_<treeLevel>);
<if(backtracking)> } </if(backtracking>)

/** 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>
</if(backtracking>)

// 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>
<label>_tree = new <hetero>(<label>);
<else>
<label>_tree = (<ASTLabelType>)adaptor.dupNode(<label>);
<endif>
<if(backtracking)> } <endif>
<endif>
}}
matchRuleBlockSet(s,label,hetero,elementIndex,postmatchCode,treeLevel="0") ::= <<
<matchSet(...)>
<noRewrite()> <! set return tree !>
>>&gt;

matchSetBang(s,label,elementIndex,postmatchCode) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.matchSet(...)
>>&gt;

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>
root_<treeLevel> = (<ASTLabelType>)adaptor.becomeRoot(<label>_tree, root_<treeLevel>);
<if(backtracking)>}<endif>
}<else>
root_<treeLevel> = (<ASTLabelType>)adaptor.becomeRoot(<label>._tree, root_<treeLevel>);
<if(backtracking)>}{<endif>
<endif>
}
>>&gt;

// 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>
>>&gt;

//** x+=rule auto construct */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>
<listLabel(elem=label+.getTree()",...
>>&gt;
/** ^(rule ...) auto construct */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= \<<
  _last = (<ASTLabelType>)input.LT(1);
  <super.ruleRef(...)>\n  <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(...)>\n
/** 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

---

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stream_<token>.nextNode()
<endif>
>>

ruleCleanUp() ::= <<
<super.ruleCleanUp()>
<if(!rewriteMode)>
<if(backtracking)>
if ( <actions.(actionScope).synpredgate> ) { <<
<endif>
retval.tree = (<ASTLabelType>) adaptor.rulePostProcessing(root_0);<endif>
<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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Found in path(s):
* /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
No license file was found, but licenses were detected in source scan.

/*
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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>
<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
No license file was found, but licenses were detected in source scan.

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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;
    <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;
    <endif>
    <@end>

    <if(actions.(actionScope).namespace)>
    namespace <actions.(actionScope).namespace>
    </if>
public partial class <grammar.recognizerName> : <@superClassName><superClass><@end>
{
tokens:{public const int <it.name>=<it.type>;}; separator="\n">
scope: {if(it.isDynamicGlobalScope)<globalAttributeScope(scope=it)><endif> }
<actions.lexer.members>

// delegates
<grammar.delegates:
    {glpublic <g.recognizerName> <g:delegateName()>;}; separator="\n">
// delegators
<grammar.delegators:>
    {glpublic <g.recognizerName> <g:delegateName()>;}; separator="\n">
<last(grammer.delegators):{glpublic <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];
</if>

<grammar.directDelegates:
{g|<g:delegateName()> = new <g.recognizerName>(input, this.state<trunc(g.delegators):{p|}, 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|}, this));}; separator="\n"
<grammar.delegators:
{g|this.<g:delegateName()> = <g:delegateName>();}; separator="\n"
<last(grammar.delegators):{g|gParent = <g:delegateName>();}>

OnCreated();
}

<if(filterMode)>
<filteringNextToken()>
</if>

partial void OnCreated();
partial void EnterRule(string ruleName, int ruleIndex);
partial void LeaveRule(string ruleName, int ruleIndex);

<rules; separator="\n\n"/>

<insertLexerSynpreds(synpreds)>

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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();
        } catch (IOException e)
        {
            throw new IOException(e.getMessage(), input); // rethrow exception
        }
        state.backtracking=0;
        mTokens();
    }

    return null;
}
>>
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.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="", ">
  };
  <endif>
  <tokens:{public const int <it.name>=<it.type>;}; separator="\n">

  // delegates
  <grammar.delegates:
  {g|public <g.recognizerName> <g:delegateName()>;}; separator="\n">
  <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
  };
  #else
  private static readonly bool[] decisionCanBacktrack = new bool[0];
  #endif
  </if ANTDLR_DEBUG>
  
  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:<g.delegateName()> = new <g.recognizerName>(input, state<trunc(g.delegators):{p|, <p:delegateName()>}>,
  this);}; separator="\n">
  <grammar.indirectDelegates:{g | g:<g.delegateName()> = <g.delegate:delegateName()>.<g:delegateName()>;};
  separator="\n">
  <last(grammar.delegators):{ggParent = <g:delegateName()>;}>

  }
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<

<endif>

<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<

<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
<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",
if(filterMode)><if(buildAST)>TreeRewriter<<labelType><else>TreeFilter<endif><else>TreeParser<endif><endif>

members=<actions.treeParser.members>],
filterMode) ::= <<
<genericParser(inputStreamType="ITreeNodeStream", rewriteElementType="Node", ...)
>>

/** A simpler version of a rule template that is specific to the imaginary
* rules created for syntactic predicates. As they never have return values
* nor parameters etc..., just give simplest possible method. Don't do
* any of the normal memoization stuff in here either; it's a waste.
* As predicates cannot be inlined into the invoking rule, they need to
* be in a rule by themselves.
*

```csharp
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);
      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
@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>}&>
@if(!emptyRule)>
@if(!emptyScope)>
<actions.(actionScope).rulecatch>
<else>
catch (RecognitionException re)
{
ReportError(re);
Recover(input,re);
/*@setErrorReturnValue()*/
</catch>
@endif>
@endif>
end 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) ::= <<
    {<e.action>
    }
>>

ruleDeclarations() ::= <<
    <if (ruleDescriptor.hasMultipleReturnValues)>
    <returnType()>
    retval = new <returnType>();
    retval.Start = (<labelType>) input.LT(1);
    </if>
    <if (memoize)>
    int <ruleDescriptor.name>_StartIndex = input.Index;
    </if>
>>

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]
    :{<labelType> <it.label.text>=null;}; separator="\n" >
>>

lexerRule(ruleName, nakedBlock, ruleDescriptor, block, memoize) ::= <<
  partial void Enter_<ruleName>();
  partial void Leave_<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()
{

// $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><
    <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>"
>>
// SUBRULES

/** 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>
/** 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>); } 
>>
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()>
  >>

positiveClosureBlockSingleAlt ::= positiveClosureBlock

/** Optional blocks (x)? are translated to (x|) by before code generation */
optionalBlock ::= 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. */
optionalBlockSingleAlt ::= block
altSwitchCase() ::= <<
  case <i>:
    <@prealt()>
    DebugEnterAlt(<i>);
    <it>
    break;<!--
  >>

/** 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

tokenRef(token,label,elementIndex,hetero) ::= <<
  <if(label)> <label>=(<labelType>) <endif> Match(input,<token>,Follow._<token>_in_<ruleName><elementIndex>);<
  <checkRuleBacktrackFailure()>
>

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);<
<endif>
Match(<char>); <checkRuleBacktrackFailure()>
>>

/** match a character range */
charRangeRef(a,b,label) ::= <<
<if(label)>
<label> = input.LA(1);<
<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);<
<else>
<label>=(<labelType>)input.LT(1);<
<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>);

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, TokenTypes.Invalid, TokenChannels.Default, <label>Start, CharIndex-1);
  <label>.Line = <label>StartLine<elementIndex>;
  <label>.CharPositionInLine = <label>StartCharPos<elementIndex>;
  <else>
  Match(<string>); <checkRuleBacktrackFailure()><\n
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>);<\n>
<if(label)> <label>=<\n> <if(scope)> <scope.delegateName()>.<\n> <rule.name>(<args; separator=", ");<\n> PopFollow();<\n> <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,elementIndex,scope) ::= <<
<if(label)>

---

Open Source Used In Imicampaign-blackduck 6.2 5550
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, TokenTypes.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(...)>
<labelType> <label> = new <labelType>(input, EOF, TokenChannels.Default, <label>Start<elementIndex>, CharIndex-1);
<label>.Line = <label>StartLine<elementIndex>;
<label>CharPositionInLine = <label>StartCharPos<elementIndex>;
#else>
 lexerMatchEOF(label,elementIndex) ::= <<
<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()>
@endif

Open Source Used In imicampaign-blackduck 6.2 5551
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>");
}
>>

// Fixed DFA (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.
*/
daLoopbackState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
   int LA<decisionNumber>_<stateNumber> = input.LA(<k>);<
   <edges; separator=","><
   <if(eotPredictsAlt)>
   <if(!edges)>
altd<decisionNumber> = eotPredictsAlt;_stmt Else !
   if no edges, don't gen ELSE !
   <else>
   else
   {altd<decisionNumber> = eotPredictsAlt;
   }<
   <endif>
   <endif>
>>

/** An accept state indicates a unique alternative has been predicted */
dafaAcceptState(alt) ::= "altd<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.
*/
daEdge(labelExpr, targetState, predicates) ::= <<
   if ((labelExpr)<if(predicates)> && (<predicates>)<endif>)
   {
   <targetState>
   }
>>

// Fixed DFA (switch case)

/** A DFA state where a SWITCH may be generated. The code generator
* decides if this is possible: CodeGenerator.canGenerateSwitch().
*/
daStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
   switch (input.LA(<k>))
   {
   <edges; separator=",">
   default:
   <if(eotPredictsAlt)>
altd<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">
@if(eotPredictsAlt)
default:
alt<decisionNumber>=<eotPredictsAlt>;
brea <\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=""+
		"">";
    private const string DFA<dfa.decisionNumber>_eofS = "<dfa.javaCompressedEOF; wrap=""+
		"">";
    private const string DFA<dfa.decisionNumber>_minS = "<dfa.javaCompressedMin; wrap=""+
		"">";
    private const string DFA<dfa.decisionNumber>_maxS = "<dfa.javaCompressedMax; wrap=""+
		"">";
    private const string DFA<dfa.decisionNumber>_acceptS = "<dfa.javaCompressedAccept; wrap=""+
		"">";
    private const string DFA<dfa.decisionNumber>_specialS = "<dfa.javaCompressedSpecial; wrap=""+
		"">";
    private static readonly string[] DFA<dfa.decisionNumber>_transitionS = {
        <dfa.javaCompressedTransition:{s|"s; wrap=""+
"">" 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, SpecialStateTransitionHandler specialStateTransition)
{
    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);
}

private int SpecialStateTransition<dfa.decisionNumber>(DFA dfa, int s, IIntStream _input) throws NoViableAltException!
{
    IIntStream input = _input;
    if(LEXER)
    
    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;
<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>
>>

// DFA EXPRESSIONS

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="\"\n">"

// ATTRIBUTES

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>
partial void <scope.name>_scopeInit( <scope.name>_scope scope );

protected void <scope.name>_scopeAfter( <scope.name>_scope scope )
{
    <scope.actions.scopeafter>
}

protected Stack\<<scope.name>_scope\> <scope.name>_stack = new Stack\<<scope.name>_scope\>();

>>

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>_stack.elementAt(<scope>_stack.size()-<negIndex>-1)).<attr.name>
  </if>
  </else>
  <if(index)>
>>
((<scope>_scope)<scope>_stack.elementAt(<index>)).<attr.name>

<else>

((<scope>_scope)<scope>_stack.Peek()).<attr.name>

<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>

<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) ::= "(<scope>!=null?((<ASTLabelType>)<scope>.Text):null)"

<if(TREE_PARSER)>
(input.TokenStream.ToString(
    input.TreeAdaptor.GetTokenStartIndex(<scope>.Start),
    input.TreeAdaptor.GetTokenStopIndex(<scope>.Start))):null)
<else>
(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>
    
    </if>
}}
/** 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"

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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>
        </else>
    <else>
        <alts:rewriteTemplateAlt(); separator="else ">
            <if(rewriteMode)><replaceTextInLine()><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>) {

```csharp
    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>)
>>

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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":""

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 reworking 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 <@end>

<actions.(actionScope).usesInterface>
<if(TREE_PARSER)>
ANTLR.Runtime.Tree,<@end>
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} }}>;
public
  // delegators
  <grammar.delegates: {g<g:delegateName()>: Pointer; {g.recognizerName} }}>;
  <last(grammar.delegates):{g<parentId: Pointer; {g.recognizerName} }}>
{ 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
{ LEXER }
  function NextToken: IToken; override;
<endif>
{ LEXER }
protected
  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.delegators: {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.delegators:{g|; const
  A<g:delegateName>() : IBaseRecognizer{<g.recognizerName>}> }); overload;
begin
  Create(AInput, nil<grammar.delegators:{g|, A<g:delegateName()}>);
end;
constructor T<grammar.recognizerName>.Create(const AInput: ICharStream; const AState:
IRecognizerSharedState<grammar.delegators: {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;<
    
    <endif>
    <endif>
    <grammar.directDelegates:
    {g|<g:delegateName()> := T<g.recognizerName>.Create(AInput, State<trunc(g.delegators):{p|
    <p:delegateName()> }>, Self); }; separator="\n">
    <grammar.delegators:
    {g|<g:delegateName()> := Pointer(A<g:delegateName()>); }; separator="\n">
    <last(grammar.delegators):{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)>);<
>>

/** 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;
beginn
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
>>
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">);
<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.delegators:{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()> strictly 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>
    <$parseCtorBody()>
    <grammar.directDelegates:{g|<g:delegateName()> := T<g.recognizerName>.Create(Input, State<trunc(g.delegators):{p|, <p:delegateName()>}, Self);}; separator="\n">  
    <grammar.indirectDelegates:{g | <g:delegateName()> := <g.delegator:delegateName()>.<g:delegateName>();}; separator="\n">  
    <$last(grammar.delegators):{g|gParent := Pointer(A<g:delegateName>(););}>  
    <$rules: {r | <ruleAttributeScopeInit(scope=r.ruleDescriptor.ruleScope)> }>
    <$scopes: {<if(it.isDynamicGlobalScope)> <globalAttributeScope(scope=it)><endif> }>
    <$actions.(actionScope).memberInitializations>
end;
 <$actions.(actionScope).memberImplementations>

<grammar.delegatedRules:{ruleDescriptor| <delegatedRuleImplementation(ruleDescriptor)>}; separator="\n">  
procedure T<grammar.recognizerName>.InitializeCyclicDFAs;
begin
    <$cyclicDFAs:{dfa | FDFA<dfa.decisionNumber> := TDFA<dfa.decisionNumber>.Create(Self);}; separator="\n">  
    <$cyclicDFAs:{dfa | <$if(dfa.specialStateSTs)>FDFA<dfa.decisionNumber>.SpecialStateTransitionHandler := DFA<dfa.decisionNumber>_SpecialStateTransition;<endif> }; separator="\n">  
end;

<$if(bitsets)>  
class procedure T<grammar.recognizerName>.InitializeBitsets;
begin
<bitsets:bitset(name={FOLLOW_<it.name>_in_<it.inName><it.tokenIndex>}, words64=it.bits)>
end;
<endif>

<@membersImplementation>
<@end>

function T<grammar.recognizerName>.GetTokenNames: TStringArray;
var
I: Integer;
begin
SetLength(Result,Length(T<grammar.composite.rootGrammar.recognizerName>.TOKEN_NAMES));
for I := 0 to Length(T<grammar.composite.rootGrammar.recognizerName>.TOKEN_NAMES) - 1 do
  Result[I] := T<grammar.composite.rootGrammar.recognizerName>.TOKEN_NAMES[I];
end;

function T<grammar.recognizerName>.GetGrammarFileName: String;
begin
Result := '<fileName>'
end;

<rules; separator="\n\n">
<synpreds:{p | <synpred(p)>}>
<cyclicDFAs:cyclicDFA()> <! dump tables for all DFA !>
<if(bitsets)>
initialization
T<grammar.recognizerName>.InitializeBitsets;
@end>
end.>>

degradedRuleDeclaration(ruleDescriptor) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
function <ruleDescriptor.name>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>):
I<returnType()>::<ln>
<else>
<if(ruleDescriptor.hasSingleReturnValue)>
function <ruleDescriptor.name>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>):
<returnType()>::<ln>
<else>
procedure <ruleDescriptor.name>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>);<ln>
<endif>
<endif>
>>

degradedRuleImplementation(ruleDescriptor) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>

Open Source Used In imicampaign-blackduck 6.2 5580
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.dele
> 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="Token", ...)>
>>

/** A simpler version of a rule template that is specific to the imaginary
*  rules created for syntactic predicates. As they never have return values
*/

Open Source Used In imicampaign-blackduck 6.2 5581
* 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()><ruleLabelDefs()><if(trace)>
TraceIn('<ruleName>_fragment', <ruleDescriptor.index>);
try
  <block>
finally
  TraceOut('<ruleName>_fragment', <ruleDescriptor.index>);
end;<else>
  <block>
<endif>
end;<ruleLabelDefVars()>// $ANTLR end "<ruleName>"
>>
synpredDecls(name) ::= <<<
SynPredPointer <name>;<
>>
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
  <block>
<endif>
end;
>>
WriteLn('Impossible: ' + RE.ToString);
end;
Success := not State.Failed;
Input.Rewind(Start);
<@stop()>
State.Backtracking := State.Backtracking - 1;
State.Failed := False;
Result := Success;
end;<
>
>>

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)>
if (State.Failed) then Exit(<ruleReturnValue()>);
<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)>

public
function <rule.ruleName>: I<returnType()>;

procedure <rule.ruleName>;

>>

genericParserRuleInterface(rule, ruleDescriptor) ::= <<
<if(ruleDescriptor.isSynPred)>
<else>
function <rule.ruleName>: I<returnType()>;
<else>
function <rule.ruleName>: <returnType()>;
<else>
procedure <rule.ruleName>;
<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;
<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)>

Open Source Used in imicampaign-blackduck 6.2 5584
// $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)>


except
  on RE: ERecognitionException do
    begin
      ReportError(RE);
      Recover(Input, RE);
      <setErrorReturnValue()>
      end;<
>
<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);<
  <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>: ILList\<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.ruleListLabels] :
{<it.label.text> := nil;}; separator="\n">
<ruleDescriptor.charLabels:{int <it.label.text>;}; separator="\n">
<ruleDescriptor.tokenListLabels,
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.hasMultipleReturnValue)>
<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>
/** How to generate a rule in the lexer; naked blocks are used for
 * fragment rules.
 */
lexerRule(ruleName,nakedBlock,ruleDescriptor,block,memoize) ::= <<
// $ANTLR start "<ruleName>"
procedure
t<grammar.recognizerName>.m<ruleName>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>);
var
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><
<else>
	TokenType := <ruleName>;
	Channel := DEFAULT_TOKEN_CHANNEL;
<ruleMemoization(name=ruleName)>
<lexerRuleLabelDefs()>
<ruleDescriptor.actions.init>
<block>
<ruleCleanUp()>
State.TokenType := TokenType;
State.Channel := Channel;
<(ruleDescriptor.actions.after):execAction()>
<endif>
finally
<if(trace)>TraceOut("<ruleName>", <ruleDescriptor.index>);<endif>
<ruleScopeCleanUp()>
<memoize()>
end;
finally
Locals.Finalize;
end;
end;
// $ANTLR end "<ruleName>"

/** How to generate code for the implicitly-defined lexer grammar rule
* that chooses between lexer rules.
*/
tokensRule(ruleName,nakedBlock,args,block,ruleDescriptor) ::= <<
procedure T<grammar.recognizerName>.mTokens;
var
  Alt: array [0..<grammar.numberOfDecisions>] of Integer;
begin
  <block>
end;

procedure T<grammar.recognizerName>.DoTokens;
begin
  mTokens;
end;
>>

// S U B R U L E S

/** A (...) subrule with multiple alternatives */
block(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
  (* <fileName>:<description> *)
  Alt[<decisionNumber>] := <maxAlt>;
  <decls>
  <@predecision()>
  <decision>
  <@postdecision()>
  <@prebranch()>
  case Alt[<decisionNumber>] of
    <alts:altSwitchCase()>
  end;
  <@postbranch()>
>>

/** A rule block with multiple alternatives */
ruleBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
  (* <fileName>:<description> *)
  Alt[<decisionNumber>] := <maxAlt>;
  <decls>
  <@predecision()>
  <decision>
  <@postdecision()>
  <@prebranch()>
  case Alt[<decisionNumber>] of
    <alts:altSwitchCase()>
  end;
  <@postbranch()>
>>
case Alt[<decisionNumber>] of
  <alts:altSwitchCase()>
end;
>>

ruleBlockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
(* <fileName>:<description> *)
<decls>
<@prealt()>
<alts>
<@postalt()>
>>

/** A special case of a (...) subrule with a single alternative */
blockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
(* <fileName>:<description> *)
<decls>
<@prealt()>
<alts>
<@postalt()>
>>

/** A (...)+ block with 1 or more alternatives */
positiveClosureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
(* <fileName>:<description> *)
FCnt[<decisionNumber>] := 0;
<decls>
<@preloop()>
while (True) do
begin
  Alt[<decisionNumber>] := <maxAlt>;
  <@predecision()>
  <decision>
  <@postdecision()>
  case Alt[<decisionNumber>] of
    <alts:altSwitchCase()>
  else
    begin
      if (FCnt[<decisionNumber>] >= 1) then Begin;
        <ruleBacktrackFailure()>
        raise EEaryExitException.Create(<decisionNumber>, Input);
        <@earlyExitException()>
      end;
    end;
    Inc(FCnt[<decisionNumber>]);
  end;
positiveClosureBlockSingleAlt ::= positiveClosureBlock

/** A (..)* block with 1 or more alternatives */
closureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
(* <fileName>:<description> *)
<decls>
@@preloop()>
while (True) do
begin
Alt[decisionNumber] := maxAlt;
@@predecision()>
<decision>
@@postdecision()>
case Alt[decisionNumber] of
  <alts:altSwitchCase()>
else
  Break;
end;
end;
@@postloop()>
>>

closureBlockSingleAlt ::= closureBlock

/** Optional blocks (x)? are translated to (x|) by before code generation
* so we can just use the normal block template
*/
optionalBlock ::= block

optionalBlockSingleAlt ::= block

/** A case in a switch that jumps to an alternative given the alternative
* number. A DFA predicts the alternative and then a simple switch
* does the jump to the code that actually matches that alternative.
*/
altSwitchCase() ::= <<
<i>
@@prealt()>
<i><
</i><

/** 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) ::= ""

// ELEMENTS

/** 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 := Input.LA(1);<
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) char := Input.LA(1);<\n>
@endif>
Match(<char>); <checkRuleBacktrackFailure()>
>>

/** match a character range */
charRangeRef(a,b,label) ::= <<
  <if(label)>
  <label> := Input.LA(1);
  <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);
  <else>
  <label> := Input.LT(1) as I<labelType>;
  <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;
  <else>
  raise FException;
  <!/ use following code to make it recover inline; remove throw mse;
  RecoverFromMismatchedSet(input,mse,FOLLOW_set_in_<ruleName><elementIndex>);
  !>
  <endif>
  end;
>
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>(ANTLRObject(<scope:delegateName>()).Implementor).<endif><rule.name>(<args; separator="", ">);<un><endif>
State.FollowingStackPointer := State.FollowingStackPointer - 1;
<checkRuleBacktrackFailure()>

/** ids+=r */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>
<label> := TCommonToken.Create(Input, TToken.INVALID_TOKEN_TYPE, TToken.DEFAULT_CHANNEL,
<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(label)>(<scope:delegateName>().Implementor as T<scope.recognizerName>).<endif>m<rule.name>(<args; separator="", "); <checkRuleBacktrackFailure()>
<endif>

/** 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); <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;
>>

// Fixed DFA (if-then-else)
dfaState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
  FLA[<decisionNumber>,<stateNumber>] := Input.LA(<k>);
  <edges; separator="\n else">
  if(eotPredictsAlt)
    Alt[<decisionNumber>] := <eotPredictsAlt>;
  <else>
    <ruleBacktrackFailure()>
    raise ENoViableAltException.Create('<description>', <decisionNumber>, <stateNumber>, Input);
  <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.
*/
daOptionalBlockState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
FLA[<decisionNumber>,<stateNumber>] := Input.LA(<k>);
<edges; separator="\n";>
>>

/** A DFA state that is actually the loopback decision of a closure
* 1oop. 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.
*/
daLoopbackState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
FLA[<decisionNumber>,<stateNumber>] := Input.LA(<k>);
<edges; separator="\n";>
;if(eotPredictsAlt)
Alt[<decisionNumber>] := <eotPredictsAlt>; ;; if no edges, don't gen ELSE !>
else
begin
Alt[<decisionNumber>] := <eotPredictsAlt>
end;
<endif>
<endif>
>>

/** An accept state indicates a unique alternative has been predicted */
daAcceptState(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.
*/
daEdge(labelExpr, targetState, predicates) ::= <<
if ((<labelExpr>)<if(predicates)> and (<predicates>)<endif>) then
begin
<targetState>
end <! no ; here !>
>>

// Fixed DFA (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
  <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;
end;<\n>>
dfaLoopbackStateSwitch(k, edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
case Input.LA(<k>) of
  <edges; separator="\n"></@
end;
end;<\n>>
dfaEdgeSwitch(labels, targetState) ::= <<
<labels:{<it>}; separator=","\n"></@
begin
  <targetState>
end;
>>

// Cyclic DFA
/** 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);
function T<grammar.recognizerName>.T DFA<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> <
        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;<
>
</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);<
  <if(semPredState)> <! get next lookahead symbol to test edges, then rewind !>
    Locals.AsInteger[‘index<decisionNumber>_<stateNumber>’] := Input.Index;
    Input.Rewind;<\n>
  <endif>
  S := -1;
  <edges; separator="\nelse ">
  <if(semPredState)> <! return input cursor to state before we rewound !>
    Input.Seek(Locals.AsInteger[‘index<decisionNumber>_<stateNumber>’]);<\n>
  <endif>
  if (S >= 0) then
    Exit(S);
  end;
  if (S >= 0) then
    Exit(S);
end;

/** 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>
end;

/** An edge pointing at end-of-token; essentially matches any char; always jump to the target. */
eotDFAEdge(targetStateNumber,edgeNumber, predicates) ::= <<
  S := <targetStateNumber>
end;

// DFA EXPRESSIONS
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;<
<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) ::= <<
strict protected
type
  I<scope.name>Scope = interface(ANTLRObject)
end;
T<scope.name>Scope = class(ANTLRObject, 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>
  <! Pointer/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()> }
</if>

<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;
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>
    </if>
    <if(index)>
      ((<scope>_scope)<scope>_stack[<index>]).<attr.name>
    </if>
  <else>
    (<scope>Stack.Peek.Implementor as T<scope>Scope).<attr.name>
  </if>
</if>>

scopeSetAttributeRef(scope,attr,expr,index,negIndex) ::= <<
  <if(negIndex)>
    (<scope>Stack[<scope>Stack.Count-<negIndex>-1] as T<scope>Scope).<attr.name> := <expr>;<
  <else>
    <if(index)>
      (<scope>Stack[<index>] as T<scope>Scope).<attr.name> := <expr>;<
    </if>
    <if(index)>
      ((<scope>_scope)<scope>_stack[<index>]).<attr.name> := <expr>;<
    </if>
  <else>
    (<scope>Stack.Peek.Implementor as T<scope>Scope).<attr.name> := <expr>;<
  </if>>

/** $x is either global scope or x is rule with dynamic scope; refers
 * to stack itself not top of stack.  This is useful for predicates
 * like {$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>
  </if>>
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 {Sids} 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>

Open Source Used In imicampaign-blackduck 6.2 5607
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)>

"
/* 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(); >
  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;<
>>

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();<
endif
endif
endif
>>

// Tracking Rule Elements

/** ID and track it for use in a rewrite rule */
tokenRefTrack(token,label,elementIndex,hetero) ::= <<
<tokenRefBang(...)>
@if(backtracking)<if ( <actions.(actionScope).synpredgate> ) <endif>stream_<token>.add(<label>);<
endif
>>

/** 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 */
/** Match ^(?=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()",...)> 
>>

// Rewrite

rewriteCode(
    alts, description,
    referencedElementsDeep, // ALL referenced elements to right of ->
    referencedTokenLabels, 
    referencedTokenListLabels, 
    referencedRuleLabels, 
    referencedRuleListLabels,
referencedCardLabels,
referencedCardListLabels,
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> ) {
</if>
<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);
</if>
</if>
</alts>
</if>
<! 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;
</if>
</if>
</if>(backtracking)>

rewriteCodeLabels() ::= <<
<referencedTokenLabels()
:={var stream_<it>=new org.antlr.runtime.tree.RewriteRule<rewriteElementType>Stream(this.adaptor,"token <it>",<it>);}>
    separator="\n"
>
<referencedTokenListLabels

Open Source Used In imicampaign-blackduck 6.2 5613
/** 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>
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) ::= <<

} <<

<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) ::= <<

} <<

<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) ::= <<
/** Gen ID or ID[\text{\texttt{args}}] */
rewriteTokenRef(token,elementIndex,hetero,args) ::= <<
this.adaptor.addChild(root_<treeLevel>, <createRewriteNodeFromElement(...)>>;
>>

/** Gen $label ... where defined via label=ID */
rewriteTokenLabelRef(label,elementIndex) ::= <<
this.adaptor.addChild(root_<treeLevel>, stream_<label>.nextNode());
>>

/** Gen $label ... where defined via label+=ID */
rewriteTokenListLabelRef(label,elementIndex) ::= <<
this.adaptor.addChild(root_<treeLevel>, stream_<label>.nextNode());
>>

/** Gen ^\{\text{\texttt{$label$ ...}}\} */
rewriteTokenLabelRefRoot(label,elementIndex) ::= <<
root_<treeLevel> = this.adaptor.becomeRoot(stream_<label>.nextNode(), root_<treeLevel>);
>>

/** Gen ^\{\text{\texttt{$label$ ...}}\} where label+=... */
rewriteTokenListLabelRefRoot := rewriteTokenLabelRefRoot

/** Gen ^\{\text{\texttt{ID ...}}\} or ^\{\text{\texttt{ID[\text{\texttt{args}}} ...\}}\} */
rewriteTokenRefRoot(token,elementIndex,hetero,args) ::= <<
root_<treeLevel> = this.adaptor.becomeRoot(<createRewriteNodeFromElement(...)>, root_<treeLevel>);
>>

rewriteImaginaryTokenRef(args,token,hetero,elementIndex) ::= <<
this.adaptor.addChild(root_<treeLevel>, <createImaginaryNode(tokenType=token, ...)>);
>>

rewriteImaginaryTokenRefRoot(args,token,hetero,elementIndex) ::= <<
root_<treeLevel> = this.adaptor.becomeRoot(<createImaginaryNode(tokenType=token, ...>),
root_<treeLevel>);
>>

/** plain -> \{\text{\texttt{foo}}\} action */
rewriteAction(action) ::= <<
root_0 = &action;,
>>

/** 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());<
>>

rewriteRuleRefRoot(rule) ::= <<
root_<treeLevel> = this.adaptor.becomeRoot(stream_<rule>.nextNode(), root_<treeLevel>);<
>>

rewriteNodeAction(action) ::= <<
this.adaptor.addChild(root_<treeLevel>, <action>);<
>>

rewriteNodeActionRoot(action) ::= <<
root_<treeLevel> = this.adaptor.becomeRoot(<action>, root_<treeLevel>);<
>>

/** Gen $ruleLabel ... where defined via ruleLabel=rule */
rewriteRuleLabelRef(label) ::= <<
this.adaptor.addChild(root_<treeLevel>, stream_<label>.nextTree());<
>>

/** Gen $ruleLabel ... where defined via ruleLabel+=rule */
rewriteRuleListLabelRef(label) ::= <<
this.adaptor.addChild(root_<treeLevel>, stream_<label>.nextTree());<
>>

/** Gen ^(ruleLabel ...) where ruleLabel=rule */
rewriteRuleLabelRefRoot(label) ::= <<
root_<treeLevel> = this.adaptor.becomeRoot(stream_<label>.nextNode(), root_<treeLevel>);<
>>

/** Gen ^(ruleLabel ...) where ruleLabel+=rule */
rewriteRuleListLabelRefRoot(label) ::= <<
root_<treeLevel> = this.adaptor.becomeRoot(stream_<label>.nextNode(), root_<treeLevel>);<
>>

rewriteWildcardLabelRef(label) ::= <<
this.adaptor.addChild(root_<treeLevel>, stream_<label>.nextTree());<
>>

createImaginaryNode(tokenType,hetero,args) ::= <<
<if(hetero)>
<! new MethodNode(IDLabel, args) !>
"Open Source Used In imicampaign-blackduck 6.2 5617"
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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*/
/** 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</if>
@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);
}
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);
}
protected virtual bool EvalPredicate(bool result, string predicate)
{
dbg.SemanticPredicate(result, predicate);
return result;
}
>>
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(<inputStreamType> input)
{
}
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()>
}
>>
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|,}>, separator="\n")}; separator="\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);
@end>
<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>
@end>
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> );
//}
//@rule.preamble() ::= <<
//dbg.Location(<ruleDescriptor.EORNode.line>, <ruleDescriptor.EORNode.charPositionInLine> );<
//}>
//@rule.postamble() ::= <<
DecRuleLevel();
if (RuleLevel == 0)
    DebugListener.Terminate();
>>
//@rule.postamble() ::= <<
//dbg.Location( <ruleDescriptor.EORNode.line>, <ruleDescriptor.EORNode.charPositionInLine> );<
//}>
//@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>);
//}>

//exitSubRule() ::= <<
//}
//finally
//{
//dbg.ExitSubRule(<decisionNumber>);
//}</n>
//>>

//enterDecision() ::= <<
//try
//{
//dbg.EnterDecision(<decisionNumber>);
//}>

//exitDecision() ::= <<
//}
//finally
//{
//dbg.ExitDecision(<decisionNumber>);
//}</n>
//>>

//enterAlt(n) ::= "dbg.EnterAlt(<n>);"

// Region overrides that tell various constructs to add debugging triggers

//@block.predecision() ::= "<enterSubRule()><enterDecision()>

//@block.postdecision() ::= "<exitDecision()>

//@block.postbranch() ::= "<exitSubRule()>

//@ruleBlock.predecision() ::= "<enterDecision()>

//@ruleBlock.postdecision() ::= "<exitDecision()>

//@ruleBlockSingleAlt.prealt() ::= "<enterAlt(n="1")>

//@blockSingleAlt.prealt() ::= "<enterAlt(n="1")>"
//@positiveClosureBlock.preloop() ::= "<enterSubRule()>
"
//@positiveClosureBlock.postloop() ::= "<exitSubRule()>
"
//@positiveClosureBlock.predecision() ::= "<enterDecision()>
"
//@positiveClosureBlock.postdecision() ::= "<exitDecision()>
"
//@positiveClosureBlock.earlyExitException() ::= 
//	"dbg.RecognitionException( eee<decisionNumber> );\n"
//@closureBlock.preloop() ::= "<enterSubRule()>
"
//@closureBlock.postloop() ::= "<exitSubRule()>
"
//@closureBlock.predecision() ::= "<enterDecision()>
"
//@closureBlock.postdecision() ::= "<exitDecision()>
"
//@altSwitchCase.prealt() ::= "<enterAlt(n=i)>"
//@element.prematch() ::= 
//	"dbg.Location( <it.line>, <it.pos> );"
//@matchSet.mismatchedSetException() ::= 
//	"dbg.RecognitionException( mse );"
//@dfaState.noViableAltException() ::= "dbg.RecognitionException( nvaе );"
//@dfaStateSwitch.noViableAltException() ::= "dbg.RecognitionException( nvaе );"
//@dfaDecision(decisionNumber,description) ::= <<
//try
//{
//isCyclicDecision = true;
//<super.dfaDecision(...)>
//}
//catch ( NoViableAltException nvaе )
//{
//dbg.RecognitionException( nvaе );
//throw nvaе;
//}
//>>

//@cyclicDFA.errorMethod() ::= <<
//public override void Error( NoViableAltException nvaе )
//{
//((DebugParser)recognizer).dbg.RecognitionException( nvaе );

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//
//>>

/** 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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/*
 * [The "BSD licence"]
/** 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);<
  <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>)
@endf>
>>

ruleCleanUp() ::= <<
<super.ruleCleanUp()> 
@if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<un><endif>
retval.Tree = (<ASTLabelType>)adaptor.RulePostProcessing(root_0);
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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-jar/org/antlr/codegen/templates/CSharp3/ASTParser.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 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/123892736_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;
>>

/** 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;
      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()>
</if>
<else>
    Match(input, TokenTypes.Down, null); <checkRuleBacktrackFailure()>
    <children:element()>
    Match(input, TokenTypes.Up, null); <checkRuleBacktrackFailure()>
</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 = (<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>);
            </if>
        </if>
        if ( _first_<treeLevel>==null ) _first_<treeLevel> = <label>;
    </if>
</if>
</if>
</if>
<label>_tree = (<ASTLabelType>)adaptor.DupNode(<label>);
<endif></nl>
adaptor.AddChild(root_<enclosingTreeLevel>, root_<treeLevel>);
<_last = _save_last_<treeLevel>;
} \n
>>

/** label+=TOKEN auto construct */
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```
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>
  root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(<label>_tree, root_<treeLevel>);
  <if(backtracking)>} <endif>
  <endif>
>>

/** Match ^(label+=TOKEN ...) auto construct */
tokenRefRuleRootAndListLabel(token,label,elementIndex,hetero) ::= <<
<<
<<
<<
<<

/** 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>;
  </if(backtracking)> } <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>

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>
</if(!rewriteMode)>
<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);
/** Streams for token refs are tree nodes now; override to
 * change NextToken to NextNode.
 */
createRewriteNodeFromElement(token,hetero,scope) ::= <<
<if(hetero)>
new <hetero>(stream_<token>.NextNode())
<else>
stream_<token>.NextNode()
<endif>
>>

ruleCleanUp() ::= <<
<super.ruleCleanUp()>
<if(!rewriteMode)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<
><endif>
retval.Tree = (<ASTLabelType>)adaptor.RulePostProcessing(root_0);
<if(backtracking)>}<endif>
<endif>
>>

Found in path(s):
* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/codegen/templates/CSharp3/ASTTreeParser.stg
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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() ::= <<
ddebug_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)

#else>
proxy = DebugEventSocketProxy(self, debug=debug_socket, port=port)

</endif>
self.setDebugListener(proxy)
proxy.handshake()

>>

@genericParser.members() ::= <<
@if(grammar.grammarIsRoot)
ruleNames = ["invalidRule", grammar.allImportedRules:{rST | "<rST.name>": wrap="\n    ", separator=", "]

</endif>

<endif>
```python
<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,
        <grammar.composite.rootGrammar.recognizerName>.ruleNames[ruleIndex]);
        super.memoize(input, ruleIndex, ruleStartIndex);
    }<\n>
</if>
<if(grammar.grammarIsRoot)> <! grammar imports other grammar(s) !>
    def evalPredicate(self, result, predicate):
        self._dbg.semanticPredicate(result, predicate)
        return result
```
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()>
  }

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()>
  }

ctorForDelegateGrammar() ::= <<
  // bug: can't use @super.members() cut-n-paste instead !>
  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">
  }

/** 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">
  }

public <name>(<inputStreamType> input) { 
  this(input, DebugEventSocketProxy.DEFAULT_DEBUGGER_PORT, new RecognizerSharedState());
}
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()>>
} {

@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>)
   self._dbg.location(<ruleDescriptor.EORNode.line>, <ruleDescriptor.EORNode.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.prealt() ::= "<enterAlt(n="1")>"

@blockSingleAlt.prealt() ::= "<enterAlt(n="1")>"

@positiveClosureBlock.loopBody() ::= <<
try:
    self._dbg.enterSubRule(<decisionNumber>)
    <@super.loopBody()>
>>
finally:
    self._dbg.exitSubRule(<decisionNumber>)
>>

@positiveClosureBlockLoop.decisionBody() ::= <<
try:
    self._dbg.enterDecision(<decisionNumber>)
    <@super.decisionBody()>
finally:
    self._dbg.exitDecision(<decisionNumber>)
>>

@positiveClosureBlockLoop.earlyExitException() ::= "self._dbg.recognitionException(eee)"

@closureBlock.loopBody() ::= <<
try:
    self._dbg.enterSubRule(<decisionNumber>)
    <@super.loopBody()>
finally:
    self._dbg.exitSubRule(<decisionNumber>)
>>

@closureBlockLoop.decisionBody() ::= <<
try:
    self._dbg.enterDecision(<decisionNumber>)
    <@super.decisionBody()>
finally:
    self._dbg.exitDecision(<decisionNumber>)
>>

@altSwitchCase.prealt() ::= "<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(...)>

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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/antlr/codegen/templates/Python/Dbg.stg
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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];<! index from 1..n !>  
</endif>  
<endif>  
<endif>  
<grammar.directDelegates:  
  {g|<g:delegateName()> = new <g.recognizerName>(input, state<trunc(g.delegators):{p|,  
  <p:delegateName()>}>);}; 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.recognizerName> <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"
>>

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/** 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: "Object"}, 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++;
int start = input.mark();
try {
    _fragment(); // can never throw exception
} catch (RecognitionException re) {
    System.err.println("impossible: "+re);
}
boolean success = !state.failed;
input.rewind(start);
state.backtracking--;
state.failed=false;
return success;
}

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()>
}@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>
<ruleDescriptor.returnScope.attributes:{ a | a.type = if(a.initValue)a.initValue<else><initValue(a.type)>; }>
<endif>
<endif>
<if(memoize)>
text <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() ::= <<
<ruleruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels,ruleDescriptor.wildcardTreeLabels,ruleDescriptor.wildcardTreeListLabels]:{<labelType> <it.label.text>=null;}; separator="\n">
>
<ruleruleDescriptor.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() ::= <<
<ruleruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels,ruleDescriptor.ruleLabels]:{<labelType> <it.label.text>=null;}; separator="\n">
>
<ruleruleDescriptor.charLabels:{int <it.label.text>;}; separator="\n">
<ruleruleDescriptor.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>
</if>

ruleCleanUp() ::= <<  
<if(ruleDescriptor.hasMultipleReturnValues>)  
<if(!TREE_PARSER>)retval.stop = input.LT(-1);
<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>"  
// $ANTLR end "<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>

<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>++;
}
positiveClosureBlockSingleAlt ::= positiveClosureBlock

/** A (..)* block with 1 or more alternatives */
closureBlock( clums, decls, decision, enclosingBlockLevel, blockLevel, decisionNumber, maxK, maxAlt, description ) ::=
<<
// <fileName>::<description>
decls
<<@preloop()>>
loop<decisionNumber>:
  do {
    int alt<decisionNumber> = <maxAlt>;
    <<@predesignation()>>
    <<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 */
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;<ln>
>>

/** 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><
>>

/** 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>);
>>

/** match a character */
charRef(char,label) ::= <<
  <if(label)>
  <label> = input.LA(1);<
  <endif>
  match(<char>); <checkRuleBacktrackFailure()>
>>
/** match a character range */
charRangeRef(a,b,label) ::= <<
  <if(label)>
  <label> = input.LA(1);<
  <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);<
  <else>
  <label>=(<labelType>)input.LT(1);<
  <endif>
  <endif>
  if ( <s> ) {
    input.consume();
    <postmatchCode>
    <if(!lexer)>
    state.errorRecovery=false;
    <endif>
    <if(!backtracking)>state.failed=false;</if>
  } 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>()
  </endif>
>>

wildcard(label,elementIndex) ::= <<
  <if(label)>
  <label>=(<labelType>)input.LT(1);<
  </endif>
matchAny(input); <checkRuleBacktrackFailure()>
>>

wildcardAndListLabel(label,elementIndex) ::= <<
  <wildcard(...)>
  <listLabel(elem=label,...)>
>>

/** Match . wildcard in lexer */
wildcardChar(label, elementIndex) ::= <<
  <if(label)>
  <label> = input.LA(1);<
  </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) ::= <<

---

Open Source Used In imicampaign-blackduck 6.2 5660
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(...)>
<labelList(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(...)>
<labelList(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()>

Open Source Used In imicampaign-blackduck 6.2 5661
<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>");
}
>>

// Fixed DFA (if-then-else)
dfaState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
int LA<decisionNumber>_<stateNumber> = input.LA(<k>);
<edges; separator="nelse ">
else {
<if(eotPredictsAlt)>
   alt<decisionNumber>=<eotPredictsAlt>;
<else>
   <ruleBacktrackFailure()>
   NoViableAltException nvae =
new NoViableAltException("<description>", <decisionNumber>, <stateNumber>, input);
}@noViableAltException()
throw nvae;
@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) ::= <<
int LA<decisionNumber>_<stateNumber> = input.LA(<k>);
<edges; separator="|other ">
@end
/** A DFA state that is actually the loopback decision of a closure
* loop. If end-of-token (EOT) predicts any of the targets then it
* should act like a default clause (i.e., no error can be generated).
* This is used only in the lexer so that for ('a')* on the end of a rule
* anything other than 'a' predicts exiting.
*/
dfaLoopbackState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
int LA<decisionNumber>_<stateNumber> = input.LA(<k>);
<edges; separator="|else ">
@if(eotPredictsAlt)
alt<decisionNumber>=<eotPredictsAlt>; <! if no edges, don't gen ELSE !>
@
else {
  alt<decisionNumber>=<eotPredictsAlt>;
}
@end
/** 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>) && (<predicates>) ) {
targetState
}
@end
// Fixed DFA (switch case)

/** A DFA state where a SWITCH may be generated. The code generator
 * decides if this is possible: CodeGenerator.canGenerateSwitch(). */

daFStateSwitch(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);
                @noViableAltException()  
                throw nvae;
            </if>
        } <\n>
    } <\n>
>>


daOptionalBlockStateSwitch(k, edges, eotPredictsAlt, description, stateNumber, semPredState) ::= <<
    switch ( input.LA(<k>) ) {
        <edges; separator="\n"> 
    } <\n>
>>


daLoopbackStateSwitch(k, edges, eotPredictsAlt, description, stateNumber, semPredState) ::= <<
    switch ( input.LA(<k>) ) {
        <edges; separator="\n"> 
        <if(eotPredictsAlt)>
            default:
                alt<decisionNumber> = <eotPredictsAlt>;
                break;
            </if>
        </if>
    } <\n>
>>


daEdgeSwitch(labels, targetState) ::= <<
    <labels:{case <it>:}; separator="\n"> 
    {  
        <targetState>
    } 
    break;
>>
// Cyclic DFA

/** 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=""+
        """>";
static final String DFA<dfa.decisionNumber>_eofS =
    "<dfa.javaCompressedEOF; wrap=""+
        """>";
static final String DFA<dfa.decisionNumber>_minS =
    "<dfa.javaCompressedMin; wrap=""+
        """>";
static final String DFA<dfa.decisionNumber>_maxS =
    "<dfa.javaCompressedMax; wrap=""+
        """>";
static final String DFA<dfa.decisionNumber>_acceptS =
    "<dfa.javaCompressedAccept; wrap=""+
        """>";
static final String DFA<dfa.decisionNumber>_specialS =
    "<dfa.javaCompressedSpecial; wrap=""+
        """>"}>
static final String[] DFA<dfa.decisionNumber>_transitionS = {
    <dfa.javaCompressedTransition:{s|"<s; wrap=""+
        """>";} separator=","" >
};
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;}
        <endif>
        NoViableAltException nvae =
    }
new NoViableAltException(getDescription(), <dfa.decisionNumber>, _s, input);
error(nvae);
throw nvae;
}

/** 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);

if(semPredState) <! get next lookahead symbol to test edges, then rewind !>
int index<decisionNumber>_<stateNumber> = input.index();
input.rewind();

<endif>
s = -1;
<edges; separator="\nelse ">
if(semPredState) <! return input cursor to state before we rewound !>
input.seek(index<decisionNumber>_<stateNumber>);

<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>;}<

>>

/** An edge pointing at end-of-token; essentially matches any char;
 * always jump to the target.
 */
eotDFAEdge(targetStateNumber, edgeNumber, predicates) ::= <<
s = <targetStateNumber>;<

>>

// DFA EXPRESSIONS

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="\|">"

// ATTRIBUTES

globalAttributeScope(scope) ::= <<
<if(scope.attributes)>
protected static class <scope.name>_scope {
    <scope.attributes:{<it.decl>;}; separator="\n">
}
protected Stack <scope.name>_stack = new Stack();
<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();
<endif>
>>

returnStructName() ::= "<it.name>_return"

returnType() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<ruleDescriptor.grammar.recognizerName>.<ruleDescriptor:returnStructName()>
<else>
<if(ruleDescriptor.hasSingleReturnValue)>

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/** Generate the Java type associated with a single or multiple return values. */

ruleLabelType(referencedRule) ::= <<
    <if(referencedRule.hasMultipleReturnValues)>
        <referencedRule.grammar.recognizerName>.<referencedRule.name>_return
    <else>
        <referencedRule.singleValueReturnType>
    <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">
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>
"}
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_tree(scope,attr) ::= "((<scope>!=null?<scope>.getTokenIndex():0)"
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=","});<
>>

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.

/*
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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) ::= <<
  /**< 
   * This <type> file was generated by ANTLR version <ANTLRVersion>
   * - From the grammar source file : <fileName>
   * - On : <generatedTimestamp>
   * - for the lexer : <name>
   * - for the parser : <name>
   * - for the tree parser : <name>
  */

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*   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];
    <![<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 dfas
    <cyclicDFAs:{dfa | DFA<dfa.decisionNumber> dfa<dfa.decisionNumber> = new DFA<dfa.decisionNumber>(this);}; separator="\n">
    // dfa tables..
}; // class <name>
>>

headerFile( LEXER,
    PARSER,
TREE_PARSER,
actionScope,
actions,
docComment,
recognizer,
name,
tokens,
tokenNames,
rules,
cyclicDFAs,
bitsets,
buildTemplate,
profile,
backtracking,
synpreds,
memoize,
umRules,
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_<name>_in_<inName><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);
      }
  }


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;
}<
>>

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)

// $ANTLR end <ruleName>
>>
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)><
            >}>
        <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+"")
        <endif>
    <@postamble()>
    // $ANTLR stop <ruleName>
    // <fileName>:<description>
}
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.hasMultipleReturnValue)>
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)>
<brack><\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)>
<brack>
<\n
<! create token if none exists *and* we are an outermost token rule !>

---

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<execAction({if (this->token == 0 && this->ruleNestingLevel == 1) {
    TokenType *tt = TokenBuilder::build(type,start,input,channel);
    std::cout << (*tt) << std::endl;
    this->emit(tt);
    }
    })>
<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><nl>
}
>>

// SUBRULES

/** 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>) {

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

/** Dump the elements one per line */

<elements:element()>

<@cleanup()>

}

>

// ELEMENTS

/** Dump the elements one per line */

element() ::= <<

// element <fileName>:<description>

<@prematch()>

<it.el><

>

/** match a token optionally with a label in front */

tokenRef(token,label,elementIndex) ::= <<

// tokenRef

@if(label)

<label> = input.LT(1);<

@endif

tokenRefAndListLabel(token,label,elementIndex) ::= <<

// tokenRefAndListLabel

<tokenRef(...)

<listLabel(...)

>

/** 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>);<

>

/** match a character */

charRef(char,label) ::= <<

// charRef

@if(label)

tokenid_type() <label> = input.LA(1);<

@endif

tokenRefAndListLabel(token,label,elementIndex) ::= <<

<tokenRef(...)>

<listLabel(...)>

>

listLabel(label) ::= <<

if (list_<label>==null) list_<label>=new ArrayList();

list_<label>.add(<label>);<

>

/** 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);
   <endif>
   if ( <s> )
   {
      <postmatchCode>
      input.consume();
      <if(!LEXER)>
      errorRecovery=false;
      <endif>
      <if(!backtracking)>failed=false;</if>
   }
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;
}
>>

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()></if>
>>
wildcard(label, elementIndex) ::= <<
<if(label)>
<label> = input.LT(1);<
<endif>
this->matchAny(input);
<checkRuleBacktrackFailure()>
>>

wildcardAndListLabel(label, elementIndex) ::= <<
<wildcard(...)>
<listLabel(...)>
>>

/** Match . wildcard */
wildcardChar(label, elementIndex) ::= <<
<if(label)>
<tokenid_type()><label> = input.LA(1);<
<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>);<
<else>
<rule>(<args>);<
<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>");
}
>>

// Fixed DFA (if-then-else)
dfaState(k, edges, eotPredictsAlt, description, stateNumber, semPredState) ::= <<
@if(!semPredState)
<tokenid_type()> LA<decisionNumber>_ <stateNumber> = input.LA(<k>);
@endif>
<edges; separator="\nelse ">
else
@if(eotPredictsAlt)
alt<decisionNumber> = <eotPredictsAlt>;
@noViableAltException()
throw new NoViableAltException(input.getPosition(), "<description>", <decisionNumber>, <stateNumber>);
@endif>
@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">
@if(eotPredictsAlt)
else
{
alt<decisionNumber> = <eotPredictsAlt>;
}@noViableAltException()
throw nvae;
@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>) && (<predicates>)<endif>
{
<targetState>
}
@endif
>>

// F i x e d  D F A (switch case)

dfaStateSwitch(k, edges, eotPredictsAlt, description, stateNumber, semPredState) ::= <<
switch ( input.LA(<k>) ) {
<edges; separator="\nelse">
default:
@if(eotPredictsAlt)
alt<decisionNumber> = <eotPredictsAlt>;
@else
NoViableAltException nvae( input.getPosition(), "<description>", <decisionNumber>, <stateNumber> );<@noViableAltException()>
throw nvae;<@endif>
@endif
}@noViableAltException()
throw nvae;
@endif
}
>>

dfaOptionalBlockStateSwitch(k, edges, eotPredictsAlt, description, stateNumber, semPredState) ::= <<
switch ( input.LA(<k>) ) {
<edges; separator="\n">}
}
}
>
>
>
dfaLoopbackStateSwitch(k, edges,eotPredictsAlt,description,stateNumber,semPredState) ::= << switch ( input.LA(<k>) ) { <edges; separator="\n"> <if(eotPredictsAlt)> default: alt<decisionNumber> = <eotPredictsAlt>; break; <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"> ]

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const static uchar <name>dfa<dfa.decisionNumber>_min[<dfa.numberOfStates>] = {
    <dfa.min; wrap="\n    ", separator="", null="0">
};
const static uchar <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<i0>;}; 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;
}
<endif>
noViableAlt(s, input);
}<un>
<endif>

// <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}
}

/** A state in a cyclic DFA */
cyclicDFAS<decisionNumber, stateNumber, edges, needErrorClause, semPredState> ::= <<
// cyclicDFASState
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}
}

/** Just like a fixed DFA edge, test the lookahead and indicate what
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>;"

// DFA EXPRESSIONS

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="\"||\">"

// ATTRIBUTES

globalAttributeScope(scope) ::= <<
<if(scope.attributes)>
protected static class <scope.name> {
    <scope.attributes:{<it.decl>;}; separator="\n">
} protected Stack <scope.name>_stack = new Stack();
<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();
    <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> = \n
<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 AttributeSet 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>_stack.peek()).<attr.name>

parameterAttributeRef(attr) ::= "<attr.name>"

scopeAttributeRef(scope,attr,index,negIndex) ::= <<
<if(negIndex>)
((<scope>_stack.elementAt(<scope>_stack.size()-<negIndex>-1)).<attr.name>
<else>
<if(index>)
((<scope>_stack.elementAt(<index>)).<attr.name>
<else>
((<scope>_stack.peek()).<attr.name>
<endif>
<endif>
<endif>
/** $x is either global scope or x is rule with dynamic scope; refers
* to stack itself not top of stack. This is useful for predicates
* like {function.size()>0 & $function::name.equals("foo")}. */
isolatedDynamicScopeRef(scope) ::= "<scope>_stack"

/** reference an attribute of rule; might only have single return value */
ruleLabelRef(referencedRule,scope,attr) ::= <<
<if(referencedRule.singleValueReturnType)>
<scope>
<else>
<scope>.<attr.name>
<endif>
>>

returnAttributeRef(ruleDescriptor,attr) ::= <<
<if(ruleDescriptor.singleValueReturnType)>
<attr.name>
<else>
retval.<attr.name>
<endif>
>>

/** How to translate $tokenLabel */
tokenLabelRef(label) ::= "<label>"

/** ids+=ID [$ids] or e+=expr {$e} */
listLabelRef(label) ::= "list_<label>"

// not sure the next are the right approach; and they are evaluated early;
// they cannot see TREE_PARSER or PARSER attributes for example. :

tokenLabelPropertyRef_text(scope,attr) ::= "<scope>.getText()"
tokenLabelPropertyRef_type(scope,attr) ::= "<scope>.getType()"
tokenLabelPropertyRef_line(scope,attr) ::= "<scope>.getLine()"
tokenLabelPropertyRef_pos(scope,attr) ::= "<scope>.getCharPositionInLine()"
tokenLabelPropertyRef_channel(scope,attr) ::= "<scope>.getChannel()"
tokenLabelPropertyRef_index(scope,attr) ::= "<scope>.getTokenIndex()"
tokenLabelPropertyRef_tree(scope,attr) ::= "<scope>_tree"

ruleLabelPropertyRef_start(scope,attr) ::= "<scope>.start"
ruleLabelPropertyRef_stop(scope,attr) ::= "<scope>.stop"
ruleLabelPropertyRef_tree(scope,attr) ::= "<scope>.tree"
ruleLabelPropertyRef_text(scope,attr) ::= "input.toString(<scope>.start,<scope>.stop)"
ruleLabelPropertyRef_st(scope,attr) ::= "<scope>.st"
/** Isolated $RULE ref ok in lexer as it's a Token */
lexerRuleLabel(label) ::= "<label>"

lexerRuleLabelPropertyRef_type(scope,attr) ::= "<scope>.getType()"
lexerRuleLabelPropertyRef_line(scope,attr) ::= "<scope>.getLine()"
lexerRuleLabelPropertyRef_pos(scope,attr) ::= "<scope>.getCharPositionInLine()"
lexerRuleLabelPropertyRef_channel(scope,attr) ::= "<scope>.getChannel()"
lexerRuleLabelPropertyRef_index(scope,attr) ::= "<scope>.getTokenIndex()"
lexerRuleLabelPropertyRef_text(scope,attr) ::= "<scope>.getText()"

// Somebody may ref $template or $tree or $stop within a rule:
rulePropertyRef_start(scope,attr) ::= "((<labelType>)retval.start)"
rulePropertyRef_stop(scope,attr) ::= "((<labelType>)retval.stop)"
rulePropertyRef_tree(scope,attr) ::= "((<ASTLabelType>)retval.tree)"
rulePropertyRef_text(scope,attr) ::= "input.toString(retval.start,input.LT(-1))"
rulePropertyRef_st(scope,attr) ::= "retval.st"

// ACTIONS
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>
>>

// MIS C (properties, etc...)
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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THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/

/** Template overrides to add debugging to AST stuff. Dynamic inheritance
 * hierarchy is set up as ASTDbg : AST : Dbg : Java by code generator.
 */

group ASTDbg;

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><
  <grammar.directDelegates:{g|[<g:delegateName()> setTreeAdaptor:adaptor];}>}
}

- (id<ANTLRTreeAdaptor>)getTreeAdaptor
{
  return adaptor;
}

>>> 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];</u>
<endif>
>>

@treeParserHeaderFile.superClassName ::= "ANTLRDebugTreeParser"

@rewriteElement.pregen() ::= "/debugListener locationLine:<e.line> column:<e.pos>];"

Found in path(s):
* /opt/cola/permits/1238692736_1638981223.8/0/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 */
/** 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(...)"
/* ASTParser matchSetRuleRoot */
<label>= (<labelType>) [input LT:1];
<endif>
<super.matchSet(..., postmatchCode="
if ( <actions.(actionScope).synpredgate> )
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> )
[treeAdaptor addChild:[<label> getTree] toTree:root_0];
>>

/** rule! is same as normal rule ref */
ruleRefBang(rule,label,elementIndex,args,scope) ::= ""<<
/* ASTParser ruleRefRuleRoot */
<super.ruleRef(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> )
root_0 = (<ASTLabelType> *)
[treeAdaptor becomeRoot:[<label> getTree] old:root_0;]
>>

/** x+=rule when output=AST */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= ""<<
/* ASTParser ruleRefAndListLabel */
<ruleRef(...)>
<liseLabel(elem = "["+label+" getTree"]",...)>
>>

/** x+=rule! when output=AST is a rule ref with list addition */
ruleRefBangAndListLabel(rule,label,elementIndex,args,scope) ::= ""<<
/* ASTParser ruleRefRuleRootAndListLabel */
<ruleRefBang(...)>
<liseLabel(elem = "["+label+" getTree"]",...)>
>>

/** x+=rule */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= ""<<
/* ASTParser ruleRefRuleRootAndListLabel */
<ruleRefRuleRoot(...)>
<liseLabel(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>
>>

wildcardRuleRoot(label,elementIndex) ::= "<super.wildcard(...)>>"

createNodeFromToken(label,hetero) ::= <<
/* ASTParser createNodeFromToken */
<if(hetero)>
[ANTLR<hetero> newANTLR<hetero>:<label>] <! new MethodNode(IDLabel) !>
<else>
(<ASTLabelType> *)[treeAdaptor createTree:<label>] retain]
<if(backtracking)>>}<endif>
>>

// straight from java cleanup //
ruleCleanUp() ::= <<
/* ASTParser ruleCleanUp */
<super.ruleCleanUp()>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<u><endf>
 retalval.tree = (<ASTLabelType> *)[treeAdaptor rulePostProcessing:root_0];
 [treeAdaptor setTokenBoundaries:retval.tree From:retval.startToken To:retval.stopToken];
<if(backtracking)>>}<endif>
>>

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* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/codegen/templates/ObjC/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()>
<ASTLabelType> _last;<n>
<ASTLabelType> _first_0;<n>


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/** Add a variable to track last element matched */
ruleInitializations() ::= <<
<super.ruleInitializations()>
_last = NULL;
_first_0 = NULL;
>>

/** 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>
<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>
 Saves _save_last_<treeLevel> = _last;
_first_<treeLevel> = NULL;
<if(!rewriteMode)>
root_<treeLevel> = (<ASTLabelType>)(ADAPTOR->nilNode(ADAPTOR));
<endif>
_root_<treeLevel> = (<ASTLabelType>)(ADAPTOR->nilNode(ADAPTOR));
<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>
<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;
} <
>
>

// 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>
<<

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if (_first_<treeLevel> == NULL ) _first_<treeLevel> = <label>;
</if(backtracking)> }<endif>
<endif>
>>

/** label+=TOKEN auto construct */
tokenRefAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRef(...)> 
<label>_tree = <hetero>New(<label>);
<endif> 
root_<treeLevel> = (<ASTLabelType>)ADAPTOR->becomeRoot(ADAPTOR, <label>_tree, root_<treeLevel>);
<if(backtracking)>}<endif>
>>

/** Match ^(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>
<endif> 
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(...)> 
<label>_tree = <hetero>New(<label>);
<else> 
<label>_tree = (<ASTLabelType>)ADAPTOR->dupNode(ADAPTOR, <label>);
<endif>
<if(backtracking)> }<endif>
<<
<actions.(actionScope).synpredgate> 
<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>
      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) ::= <<
  <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) ::= <<
  <super.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.ruleRefRuleRootTrack(...)>>
>>

/** ^(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> ) {
            <if(!ruleDescriptor.isSynPred)>
                retval.stop = LT(-1);
            <endif>
        <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">
>>

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* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/codegen/templates/C/ASTTreeParser.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
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>
      </if(nullableChildList)>
    }<else>
      match(input, Token.DOWN, null); <checkRuleBacktrackFailure()>
      <children:element()>
      match(input, Token.UP, null); <checkRuleBacktrackFailure()>
    </if(backtracking)>
  }<if(backtracking)>}
  <if(!rewriteMode)>
    adaptor.addChild(root_<enclosingTreeLevel>, root_<treeLevel>);
  <endif>
```java
_token = _save_last_<treeLevel>;
}
>

// 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><
<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) ::= <<
<tokenRef(...)>;
<listLabel(elem=label,...)>
>>
```
<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>);
</if(backtracking)>}{<endif>
<label>_tree = new <hetero>(<label>);
</if(backtracking)>}
adaptor.addChild(root_<treeLevel>, <label>_tree);
<if(backtracking)>}<endif>
</if(hetero)>
</if(backtracking)>}
</if(!rewriteMode)>}

matchRuleBlockSet(s,label,hetero,elementIndex,postmatchCode,treeLevel="0") ::= <<
<matchSet(...)>
<br><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>);
</if(backtracking)>}
</if(hetero)>
<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.

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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 ) {<
><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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*/
/ *

New style messages. This file contains the actual layout of the messages emitted by ANTLR. The text itself is coming out of the languages/*stg files, according to the chosen locale. This file contains the default format ANTLR uses.
*/

group antlr;

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

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

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

wantsSingleLineMessage() ::= "true"

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*/
/*
/** 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() ::= <

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<@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="", ">
@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()>
@endif
<ctorForRootGrammar()>
<ctorForPredefinedListener()>
<else>@! imported grammar !
public int RuleLevel { get { return <grammar.delegators:{g| <g:delegateName()>}>.RuleLevel; } } 
public virtual void IncRuleLevel() { <grammar.delegators:{g| <g:delegateName()>}>.IncRuleLevel(); }
public virtual void DecRuleLevel() { <grammar.delegators:{g| <g:delegateName()>}>.DecRuleLevel(); }
<ctorForDelegateGrammar()>
<else>@! imported grammar !
public int RuleLevel { get { return <grammar.delegators:{g| <g:delegateName()>}>.RuleLevel; } } 
public virtual void IncRuleLevel() { <grammar.delegators:{g| <g:delegateName()>}>.IncRuleLevel(); }
public virtual 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);
}
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);
}
protected virtual bool EvalPredicate( bool result, string predicate )
{
dbg.SemanticPredicate( result, predicate );

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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 )
{
<parsersCtorBody()>
<createListenerAndHandshake()>
<grammar.directDelegates:{g|<g:delegateName()> = new <g.recognizerName>( input, dbg, this.state, this<grammar.delegators:{g|, <g:delegateName()>}> );}; separator="\n">"}
<@finally()>}

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);
<parsersCtorBody()>
<grammar.directDelegates:
{g|<g:delegateName()> = new <g.recognizerName>( input, dbg, this.state, this<grammar.delegators:{g|, <g:delegateName()>}> );}; separator="\n">"}
<@finally()>}

ctorForDelegateGrammar() ::= <<
/** Basically we don’t want to set any dbg listeners are root will have it. */
public <name>( <inputStreamType> input, IDebugEventListener dbg, RecognizerSharedState state<grammar.delegators:{g|, <g.recognizerName> <g:delegateName()>}> )
: base( input, dbg, state )
{
ctorForPredefinedListener() ::= <<
public <name>( <inputStreamType> input, IDebugEventListener dbg )
<@superClassRef>: base( input, dbg, new RecognizerSharedState() )<@end>
{
@if(profile)
Profiler p = (Profiler)dbg;
p.setParser(this);
@end
<parserCtorBody()>
<grammar.directDelegates:{g|<g:delegateName()> = new <g.recognizerName>(input, dbg, this.state,
this<grammar.delegators:{g|, <g:delegateName()>}>);}; separator="\n">
<@finally()>}
>>

createListenerAndHandshake() ::= <<
@if(TREE_PARSER)
DebugEventSocketProxy proxy = new DebugEventSocketProxy( this, port, input.TreeAdaptor );
@end
DebugEventSocketProxy proxy = new DebugEventSocketProxy( this, port, null );
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> );
//}>

//@rule.postamble() ::= <<
DecRuleLevel();
if (RuleLevel == 0)
DebugListener.Terminate();

//@insertSynpreds.start() ::= "dbg.BeginBacktrack( state.backtracking );"
//@insertSynpreds.stop() ::= "dbg.EndBacktrack( state.backtracking, success );"

//@enterSubRule() ::= <<
//try
//{
//dbg.EnterSubRule( <decisionNumber> );
//}>

//@exitSubRule() ::= <<
//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> );
//}>

//@exitSubRule() ::= <<
//finally
//{

//dbg.ExitSubRule( <decisionNumber> );
//}
//>

// enterDecision() ::= <<
//try
//{
//   dbg.EnterDecision( <decisionNumber> );<
//}>

// exitDecision() ::= <<
//finally
//{
//   dbg.ExitDecision( <decisionNumber> );
//}>

// enterAlt(n) ::= "dbg.EnterAlt( <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> );<
//}>

//@closureBlock.preloop() ::= "<enterSubRule()>"
//@closureBlock.postloop() ::= "<exitSubRule()>">

//@closureBlock.predecision() ::= "<enterDecision()>">

//@closureBlock.postdecision() ::= "<exitDecision()>">

//@altSwitchCase.prealt() ::= "<enterAlt(n=i)>">

//@element.prematch() ::= 
//"dbg.Location( <it.line>, <it.pos> );"

//@matchSet.mismatchedSetException() ::= 
//"dbg.RecognitionException( mse );"

//@dfaState.noViableAltException() ::= "dbg.RecognitionException( nva );"

//@ DFAStateSwitch.noViableAltException() ::= "dbg.RecognitionException( nva );"

//@dfaDecision(decisionNumber,description) ::= <<
//try
//{
//isCyclicDecision = true;
//<super.dfaDecision(...)>
//}
//catch ( NoViableAltException nvae )
//{
//dbg.RecognitionException( nva );
//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>"))
>>

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* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/codegen/templates/CSharp2/Dbg.stg
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*/

/*
* This code generating template and the associated C runtime was produced by:
* Jim Idle jimi|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) ::=  
<!-- 
/** This <type> file was generated by $ANTLR version <ANTLRVersion> 
  
  - From the grammar source file : <fileName>  
  - On : <generatedTimestamp>  
  
  for the lexer : <name>Lexer
  
  for the parser : <name>Parser
  
  for the tree parser : <name>TreeParser
  
  Editing it, at least manually, is not wise.
  
  C language generator and runtime by Jim Idle, jimihereisanatidle|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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<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
*/
#undefSCOPE_TYPE
#ifdef SCOPE_STACK
#define SCOPE_STACK(scope)  p<name>_##scope##Stack
#else
#define SCOPE_STACK(scope)  ctx->p<name>_##scope##Stack_limit
#endif
#endif
#endif
#endif
#endif
#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 GETCHAREXTENDED
#undef EMIT
#undef EMITNEW
#undef MATCHC
#undef MATCHR
#undef MATCHCHNUM
#undef LTOKEN
#undef HASEXCEPTION
#undef EXCEPTION
#undef CONSTRUCTEX
#undef CONSUME
#undef LRECOVER
#undef MARK
#undef REWIND
#undef REWINDLAST
#undef BACKTRACKING
#undef MATCHANY
#undef MEMOIZE
#undef HAVEPARSERULE
#undef GETTEXT
#undef INDEX
#undef SEEK
#undef PUSHSTREAM
#undef POPSTREAM
#undef SETTEXT
#undef SETTEXT8
#define LEXERctx->pLexer
#define RECOGNIZER LEXER->rec
#define LEXSTATERECOGNIZER->state
#define TOKSOURCELEXSTATE->tokSource
#define GETCHARINDEX()LEXER->getCharIndex(LEXER)
#define GETLINE()LEXER->getLine(LEXER)
#define GETTEXT()LEXER->getText(LEXER)
#define GETCHARPOSITIONINLINE() LEXER->getCharPositionInLine(LEXER)
#define EMIT() 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 BACKTRACKINGLEXSTATE->backtracking
#define FAILEDFLAG LEXSTATE->failed
#define INPUT LEXER->input
#define STRSTREAM LEXER
#define ISTREAM LEXER->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 HAVEPARSERULE(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 RULEMEMOLEXSTATE->ruleMemo
#define DBGRECOGNIZER->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)

#if defined(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); \n     
    }                                                               
    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 HAVEPARSERDREULE
#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

declare PARSECtx->pParser
#define RECOGNIZERPARSER->rec
#define PSRSTATERECOGNIZER->state
#define HAVEPARSERDREULE(r)RECOGNIZER->alreadyParsedRule(RECOGNIZER, r)
#define MEMOIZE(ri, si)RECOGNIZER->memoize(RECOGNIZER, ri, si)
#define INPUTPARSER->tstream
#define STRSTREAMINPUT
#define ISTREAMINPUT->istream
#define INDEX()ISTREAM->index(INPUT->istream)
#define HASEXCEPTION()((PSRSTATE->error == ANTLR3_TRUE)
#define EXCEPTIONPSRSTATE->exception
#define MATCHT(t, fs)RECOGNIZER->match(RECOGNIZER, t, fs)
#define MATCHANYT(RECOGNIZER->matchAny(RECOGNIZER))
#define FOLLOWSTACK PSRSTATE->following
#define 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) _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, e)
#define ADAPTOR ctx->adaptor
#define RULEMEMO PSRSTATE->ruleMemo
#define DBG RECOGNIZER->debugger

<endif>

<if(TREE_PARSER)>
/* Macros for accessing things in the parser */

#undef PARSER
#undef RECOGNIZER
#undef HAVEPARSEDRULE
#undef INPUT
#undef STRSTREAM
#undef HASEXCEPTION
#undef EXCEPTION
#undef MATCHT
#undef MATCHANYT
#undef FOLLOWSTACK
#undef FOLLOWPUSH
#undef FOLLOWPOP
#undef PRECOVER
#undef PREREPORTERROR
#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 RECOGNIZERPARSER->rec
#define PSRSTATERECOGNIZER->state
#define HAVEPARSERDRULE(r) RECOGNIZER->alreadyParsedRule(RECOGNIZER, r)
#define INPUTPARSER->ctnstream
#define ISTREAMINPUT->tnstream->istream
#define STRSTREAMINPUT->tnstream
#define HASEXCEPTION() (PSRSTATE->error == ANTLR3_TRUE)
#define EXCEPTION PSRSTATE->exception
#define MATCHT(t, fs) RECOGNIZER->match(RECOGNIZER, t, fs)
#define MATCHANYT() RECOGNIZER->matchAny(RECOGNIZER)
#define FOLLOWSTACK PSRSTATE->following
#define FOLLOWPUSH(x) FOLLOWSTACK->push(FOLLOWSTACK, ((void *)(&(x))), NULL)
#define FOLLOWPOP() FOLLOWSTACK->pop(FOLLOWSTACK)
#define PRECOVER() RECOGNIZER->recover(RECOGNIZER)
#define PREREPORTERROR() RECOGNIZER->reportError(RECOGNIZER)
#define LA(n) ISTREAM->_La(ISTREAM, n)
#define LT(n) INPUT->tnstream->_LT(INPUT->tnstream, n)
#define CONSTRUCTEX() RECOGNIZER->exConstruct(RECOGNIZER)
#define CONSUME() ISTREAM->consume(ISTREAM)
#define MARK() ISTREAM->mark(ISTREAM)
#define REWIND(m) ISTREAM->rewind(ISTREAM, m)
#define REWINDLAST() ISTREAM->rewindLast(ISTREAM)
#define PERRORRECOVERYPSRSTATE->errorRecovery
#define FAILEDFLAG PSRSTATE->failed
#define HASFAILED() (FAILEDFLAG == ANTLR3_TRUE)
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)>

/* End of code
 */

>>>
* 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
#include \<antlr3.h>

#End if define __cplusplus

extern "C" {
#defineANTLR3_WINDOWS

// 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 
</if(recognizer.grammar.delegates)

#include \<g.recognizerName>.h> ; separator="\n"

#endif

#ifdefANTLR3_WINDOW$#endif

// Disable: Unreferred 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 
// Unreferred local variable- lexer rule declares but does not always use _type

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// potentially uninitialized variable used- retval always returned from a rule
// unreferenced local function has been removed- usually getTokenNames or freeScope, they can go without
// warnings
// 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:
    {gp<g.recognizerName><g.delegateName>();}; separator="\n"
<endif>
<if(recognizer.grammar.delegators)>
recognizer.grammar.delegators:
    {gp<g.recognizerName><g.delegateName>();}; separator="\n"
<endif>
<scopes:{<if(it.isDynamicGlobalScope)>
    <globalAttributeScopeDef(scope=it)>
<endif>}: separator="\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";>  
</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";>  
</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";>  
<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";>  
</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";>  
</endif>
</if(LEXER)>  
  
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
#ifndef TOKENSOURCE
#define TOKENSOURCE(lxr) lxr->pLexer->rec->state->tokSource
#endif

/* End of token definitions for <name>
 * 
 * #ifndef __cplusplus
 */
/*" */
/* 
 */
#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()>
  "
// 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.
* ===================================================================
*/
static void Free (pctx) {
    if(memoize)
        if(RULEMEMO != NULL) {
            RULEMEMO->free(RULEMEMO);
            RULEMEMO = NULL;
        }
    
    if(grammar.directDelegates) {
        // Free the lexers that we delegated to
        // functions to. NULL the state so we only free it once.
        //
        //
        //
        grammar.directDelegates:
            {gctx-><g:delegateName()>->pLexer->rec->state = NULL;
             ctx-><g:delegateName()>->free(ctx-><g:delegateName()>);}; separator="\n"
    }
    LEXER->free(LEXER);
    ANTLR3_FREE(ctx);
}

static void Reset (pctx) {
    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>
/** 
* 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()>});
}

/** 
* 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

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// 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>
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;
            return teof;
        }
    }"
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="",>
};
@endif>

@if@end>

@if members>@members@endif>

@if@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
//
/* 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);
}

/** rief Name of the grammar file that generated this code
*/
static const char fileName[] = "<fileName>";

/** rief Return the name of the grammar file that generated this code.
*/
static const char * getGrammarFileName()
{
    return fileName;
}

/** rief 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()>}>);
}

/** rief 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>
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)>
<r ATTRIBUTE_SCOPE(scope=r.ruleDescriptor.ruleScope)>
<endif}>
<recognizer.scopes: {<if(it.isDynamicGlobalScope)>
<global ATTRIBUTE_SCOPE(scope=it)>;
<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! */
@end
@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        [if(it.isDynamicGlobalScope)<globalAttributeScopeFree(scope=it)]<\n      ]>
      <recognizer.scopes: [if(it.isDynamicGlobalScope)<globalAttributeScopeFree(scope=it)]<\n      ]>
    </@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>-><if(grammar.grammarIsRoot)>if	(RULEMEMO != NULL)
          RULEMEMO->free(RULEMEMO);
          RULEMEMO = NULL;
        </if(grammar.grammarIsRoot)>]
        <@if(memoize)>
          <if(grammar.grammarIsRoot)>if(RULEMEMO != NULL)
            RULEMEMO->free(RULEMEMO);
            RULEMEMO = NULL;
          </if(grammar.grammarIsRoot)>
          </if(memoize)>
          </grammar.directDelegates:
      </@if(grammar.directDelegates)>
      // Free this parser
      //
      <if(TREE_PARSER)>
        ctx->pTreeParser->free(ctx->pTreeParser);
      </if(TREE_PARSER)>
      <else>
        ctx->pParser->free(ctx->pParser);
      </else>
    <endif>
  
ANTLR3_FREE(ctx);

  /* Everything is released, so we can 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;
}

/* Declare the bitsets */
<bitsets:bitsetDeclare(name={FOLLOW_<it.name>_in_<it.inName><it.tokenIndex>},
    words64=it.bits)>

<if(cyclicDFAs)>

/* =========================================================================
* DFA tables for the parser
*/
<cyclicDFAs:cyclicDFA()> <! dump tables for all DFA !>
/* =========================================================================
* End of DFA tables for the parser
*/
<endif>

/* Parsing rules */
<rules; separator="\n\n">
<if(grammar.delegatedRules)>
// Delegated methods that appear to be a part of this
// parser
//
<grammar.delegatedRules:[ruleDescriptor]
<returnType()> <ruleDescriptor.name>({p<name> ctx<if(ruleDescriptor.parameterScope.attributes)>,
<endif><ruleDescriptor.parameterScope:parameterScope(scope=it)})
\}
    <if(ruleDescriptor.hasReturnValue)>return <endif>ctx-><ruleDescriptor.grammar:delegateName()>-

---

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/* End of syntactic predicates */
/* End of parsing rules */

```java
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,
```
/** 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) && (HAVEPARSERULE(<ruleDescriptor.index>)))
{
@if(!ruleDescriptor.hasMultipleReturnValues)
@if(!ruleDescriptor.isSynPred)
retval.start = 0;\n
@if(!ruleDescriptor.isSynPred)
<scopeClean()><\n>
return <ruleReturnValue()>;
}
@endif>
@endif>
<if(!ruleDescriptor.isSynPred)>
<if(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())
if (HASFAILED())
{
<scopeClean()>
<@debugClean()>
return <ruleReturnValue()>;
}
</if(backtracking)>
@if(HASFAILED())
{
<scopeClean()>
<@debugClean()>
return <ruleReturnValue()>;
}
*/
/** 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)><
>}}
    }
else
{  
  \(<\text{ruleDescriptor.actions.after}:\text{execAfter()}\>
  
  }  
  \text{\textbf{else}}
  
  \text{\textbf{if}}!(\text{emptyRule})
  
  \text{\textbf{if}}!(\text{actions.(actionScope).rulecatch})
  
  \text{\textbf{else}}
  
  \text{\textbf{if}}!(\text{HASEXCEPTION()})
  
  \{
    
    \text{PREPORTERROR();}
    \text{PRECOVER();}
    \text{\textbf{@setErrorReturnValue();}}
  
  \}
  
  \text{\textbf{if}}!(\text{ruleDescriptor.actions.after})
  
  \text{\textbf{else}}
  
  \{
    
    \(\text{\textbf{ruleDescriptor.actions.after}:\text{execAfter()}}\)
  
  \}
  
  \text{\textbf{else}}
  
  \text{\textbf{endif}}
  
  \text{\textbf{endif}}
  
  \text{\textbf{endif}}
  
  \text{\textbf{endif}}
  
  \text{\textbf{if}}!(\text{trace})
  
  \text{ANTLR3_PRINTF("exit <ruleName> \%d failed=\%s backtracking=\%s\n", LT(1), failed, BACKTRACKING);\textbf{endif}}
  
  \text{\textbf{memeize();}}
  
  \text{\textbf{if}}!(\text{finally})
  
  \text{\textbf{finalCode(finalBlock=finally);}}
  
  \text{\textbf{endif}}
  
  \text{\textbf{scopeClean();}}
  
  \text{\textbf{@postamble();}}
  
  \text{return <ruleReturnValue();}}
  
  \text{//* $ANTLR end <ruleName> */}
  
  \text{>>}
  
  \text{\textbf{finalCode(finalBlock) ::= \_<\<}}
  
  \{
    \text{\textbf{finalBlock}}
  
  \}
  
  \text{\textbf{>>}}
  
  \text{\textbf{catch(decl,action) ::= \_<\<}}
  
  \text{//* catch(decl,action) */}
  
  \text{\{
ruleDeclarations() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<returnType()> retval;<
>
<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 |
<a.initValue>retval.<a.name> = <a.initValue>;<endif>
}>
<else>
<ruleDescriptor.returnScope.attributes:{ a |
<a.initValue><a.name> = <a.initValue>;<endif>
}>
<endif>
<if(memoize)>
<ruleDescriptor.name>_StartIndex = INDEX();<
>
<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] 
 :[{ANTLR3_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;</
> <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.ruleListLabels, ruleDescriptor.ruleListLabels] :
   {<it.label.text> = NULL;}; separator="\n"
> >>
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);<
   <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>
</if>

<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
   .LA(1),GETLINE(),GETCHARPOSITIONINLINE().failed.BACKTRACKING);<endif>
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

block(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
/** A (...) subrule with multiple alternatives */

ANTLR3_UINT32 alt<decisionNumber>;

alt<decisionNumber>=<maxAlt>;

<decls>
    @@predecision()
    <decision>
    @@postdecision()

switch (alt<decisionNumber>)
{
<alts:altSwitchCase()>
    }
}

ruleBlockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
// <fileName>:<description>
<decls>
    @@prealt()
    <alts>
    @@postalt()
>>

/** A special case of a (...) subrule with a single alternative */
blockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
// <fileName>:<description>
<decls>
    @@prealt()
    <alts>
    @@postalt()
>>

/** A (...)+ block with 1 or more alternatives */
positiveClosureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// <fileName>:<description>
{
    int cnt<decisionNumber>=0;
    <decls>
    @@preloop()

    for (;;)
    {
        int alt<decisionNumber>=<maxAlt>;
        @@predecision()}
<decision>
<@postdecision()>
switch (alt<decisionNumber>)
{
<alts:altSwitchCase()>
default:

if ( cnt<decisionNumber> >= 1 )
{
   goto loop<decisionNumber>;
}
<ruleBacktrackFailure()>
<earlyExitEx()>
<@earlyExitException()>
goto rule<ruleDescriptor.name>Ex;
}
cnt<decisionNumber>++;
}

loop<decisionNumber>: ; /* Jump to here if this rule does not match */
<@postloop()>
}

earlyExitEx() ::= <<
/* mismatchedSetEx() */
CONSTRUCTEX();
EXCEPTION->type = ANTLR3_EARLY_EXIT_EXCEPTION;
EXCEPTION->name = (void *)ANTLR3_EARLY_EXIT_NAME;
</u>

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>)

Open Source Used In imicampaign-blackduck 6.2 5772
{<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 */
optitionalBlock ::= 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) ::= ""

---

Open Source Used In imicampaign-blackduck 6.2 5773
/** Dump the elements one per line */
element() ::= <<
  @prematch()
  @el>

/** match a token optionally with a label in front */
tokenRef(token,label,elementIndex,hetero) ::= <<
  @if(label)=(@labelType)> 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)=LA(1);
  MATCHC(<char>);
  <checkRuleBacktrackFailure>()

/** match a character range */
charRangeRef(a,b,label) ::= <<
  @if(label)=LA(1);
  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()>
    <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->tnstream->istream;
  <else>
  MATCHS(<string>);
  <checkRuleBacktrackFailure()>
  <endif>
>>

wildcard(label,elementIndex) ::= <<
  <if(label)>
  <label>=(<labelType>)LT(1);<
  <endif>
MATCHANYT();
  <checkRuleBacktrackFailure()>
>>

wildcardAndListLabel(label,elementIndex) ::= <<
  <wildcard(...)>
  <listLabel(elem=label,...)> 
>>

/** Match . wildcard in lexer */
wildcardChar(label, elementIndex) ::= <<
  <if(label)>
  <label> = LA(1);<
  <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. 

Open Source Used In imicampaign-blackduck 6.2 5776
*/
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>);<ln>
FOLLOWPOP();
<checkRuleBacktrackFailure()>
>>

/** ids+=r */
ruleRefAndListLabel(rule.label.elementIndex.args.scope) ::= <<
<ruleRef(...)>
<listLabel(elem=label,...)>>
>>

/** A lexer rule reference
* The 'rule' argument was the target rule name, but now
* is type Rule, whose toString is same: the rule name.
* Now though you can access full rule descriptor stuff.
*/
lexerRuleRef(rule.label.args.elementIndex.scope) ::= <<
/* <description> */
@if(label)>
{
ANTLR3_MARKER <label>Start<elementIndex> = GETCHARINDEX();
@if(scope)>ctx-><scope:delegateName()>-><endif>m<rule.name>(ctx<if(scope)>-
><scope:delegateName()><endif><if(args)>, <endif><args; separator="",">);<
><checkRuleBacktrackFailure()>
<label> = LEXSTATE->tokFactory->newToken(LEXSTATE->tokFactory);
<label>->setType(<label>, ANTLR3_TOKEN_INVALID);
<label>->setStartIndex(<label>, <label>Start<elementIndex>);
<label>->setStopIndex(<label>, GETCHARINDEX()-1);
<label>->input = INPUT;
}
</else>
@if(scope)>ctx-><scope:delegateName()>-><endif>m<rule.name>(ctx<if(scope)>-
><scope:delegateName()><endif><if(args)>, <endif><args; separator="",">);<
><checkRuleBacktrackFailure()>
</endif>
>>

/** i+=INT in lexer */
lexerRuleRefAndListLabel(rule.label.args.elementIndex.scope) ::= <<
<lexerRuleRef(...)>>
<listLabel(elem=label,...)>>
>>

/** EOF in the lexer */
lexerMatchEOF(label,elementIndex) ::= <<
  {  
    ANTLR3_UINT32 <label>Start<elementIndex>;  
    <labelType> <label>;  
    <label>Start<elementIndex> = GETCHARINDEX();  
    MATCHC(ANTLR3_CHARSTREAM_EOF);  
    <checkRuleBacktrackFailure>()  
    <label> = LEXSTATE->tokFactory->newToken(LEXSTATE->tokFactory);  
    <label>->setType(<label>, ANTLR3_TOKEN_EOF);  
    <label>->setStartIndex(<label>, <label>Start<elementIndex>);  
    <label>->setStopIndex(<label>, GETCHARINDEX()-1);  
    <label>->input = INPUT->tnstream->istream;  
  }
  <else>  
    MATCHC(ANTLR3_CHARSTREAM_EOF);  
    <checkRuleBacktrackFailure>()  
  <endif>  
>>

/** match ^(root children) in tree parser */
tree(root, actionsAfterRoot, children, nullableChildList, enclosingTreeLevel, treeLevel) ::= <<
  <root:element()>  
  <actionsAfterRoot:element()>  
  <if(nullableChildList)>  
    if ( LA(1)==ANTLR3_TOKEN_DOWN ) {  
      MATCHC(ANTLR3_TOKEN_DOWN, NULL);  
      <checkRuleBacktrackFailure>()  
      <children:element()>  
      MATCHC(ANTLR3_TOKEN_UP, NULL);  
      <checkRuleBacktrackFailure>()  
    }  
  <else>  
    MATCHC(ANTLR3_TOKEN_DOWN, NULL);  
    <checkRuleBacktrackFailure>()  
    <children:element()>  
    MATCHC(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>;
</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.

Open Source Used In imicampaign-blackduck 6.2 5779
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 ">
   <if(eotPredictsAlt)>
   <if(!edges)>
   else
   {
   alt<decisionNumber>==<eotPredictsAlt>; <! if no edges, don't gen ELSE !>
   <else>
   else
   {alt<decisionNumber>==<eotPredictsAlt>;
   }
   <endif>
   <endif>
}
>>

/** An accept state indicates a unique alternative has been predicted */
daFAcceptState(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. */
daFEedge(labelExpr, targetState, predicates) ::= <<
if ( <if(predicates)>(<predicates>) && <endif>(<labelExpr>)
{
   <targetState>
// Fixed DFA (switch case)

/** A DFA state where a SWITCH may be generated. The code generator
* decides if this is possible: CodeGenerator.canGenerateSwitch().
*/
dfaStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch ( LA(<k>) )
{
<edges; separator="\n"> 

default:
<if(eotPredictsAlt)>
  alt<decisionNumber> =<eotPredictsAlt>;
<else>
  <ruleBacktrackFailure()>
  <newNVException()>
  goto rule<ruleDescriptor.name>Ex;<\n>
<endif>
} <<

dfaOptionalBlockStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch ( LA(<k>) )
{
<edges; separator="\n"> 

dfaLoopbackStateSwitch(k, edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch ( LA(<k>) )
{
<edges; separator="\n"> 

dfaEdgeSwitch(labels, targetState) ::= <<
<labels:{case <it>:}; separator="\n"> 

}}
break;
>>

// Cyclic DFA

/** 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">
    };


Open Source Used In imicampaign-blackduck 6.2 5782
/** 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;
/* 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)
            (CDFA_SPECIAL_FUNC) dfa<dfa.decisionNumber>_sst,
        else
            (CDFA_SPECIAL_FUNC) antlr3dfaspecialStateTransition,/* Default special state transition function*/
    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>;
ANTLR3_MARKER index<decisionNumber>_<stateNumber>;

LA<decisionNumber>_<stateNumber> = LA(1);<

<if(semPredState) << get next lookahead symbol to test edges, then rewind !>
index<decisionNumber>_<stateNumber> = INDEX();
REWINDLAST();<
<endif>
s = -1;
<edges; separator="\nelse ">
@if(semPredState) <! return input cursor to state before we rewound !>
SEEK(index<decisionNumber>_<stateNumber>);
@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>;
}
>>

/** An edge pointing at end-of-token; essentially matches any char;
 * always jump to the target.
 */
eotDFAEdge(targetStateNumber,edgeNumber, predicates) ::= <<
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) ::= "!( <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=" || ">

// ATTRIBUTES

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) ::= <<
<if(scope.attributes)>
/* 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) ::= <<  
/* 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) ::= <<  
/* 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));
}
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;
/** 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>
>>

globalAttributeScopeFuncs(scope) ::= <<
<if(scope.attributes)>
/* globalAttributeScopeFuncs(scope)
*/
<attributeFuncs(scope)>
<endif>
>>

ruleAttributeScopeFuncs(scope) ::= <<
<if(scope.attributes)>
/* globalAttributeScope(scope)*/
</if>
<scopePushName(sname=scope.name,...)>
= <scopePushName(sname=scope.name,...)>;
<scopeStack(sname=scope.name,...)>
= antlr3StackNew(0);
<scopeStack(sname=scope.name,...)>_limit
= 0;
<scopeTop(sname=scope.name,...)>
= NULL;
<endif>
</globalAttributeScope(sname)>::=

<if(scope.attributes)>
/* ruleAttributeScope(scope)*/
</if>
<scopePushName(sname=scope.name,...)>
= <scopePushName(sname=scope.name,...)>;
<scopeStack(sname=scope.name,...)>
= antlr3StackNew(0);
<scopeStack(sname=scope.name,...)>_limit
= 0;
<scopeTop(sname=scope.name,...)>
= NULL;
<endif>
</ruleAttributeScope(sname)>::=

<if(scope.attributes)>
/* globalAttributeScope(scope)*/
</if>
<scopeStack(sname=scope.name,...)>
\>free<scopeStack(sname=scope.name,...)>;
<endif>
</globalAttributeScopeFree(sname)>::=

<if(scope.attributes)>
/* ruleAttributeScope(scope)*/
</if>
<scopeStack(sname=scope.name,...)>
\>free<scopeStack(sname=scope.name,...)>;
<endif>
</ruleAttributeScopeFree(sname)>::=

<if(scope.attributes)>
/* scopeTopDecl(sname)*/
</if>
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
* \code
* \endcode
* *
* With lots of comments of course! The routine should be declared in
* \@members { } as:
* \code
* \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,
      */

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(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;
}

<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>
ANTLR3_BOOLEAN
<endif>
>
void
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)>

>>
/** 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;
@endruleReturnMembers()>
** 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 {Sids} or e+=expr {Se} */
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>->getCharPositionInLine(<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>
>>

// MIS 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 *
@end

from antlr3.compat import set, frozenset

<actions.(actionScope).header>
# 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>)
  <endif>
  <if(PARSER)>
    from antlr3.main import ParserMain
    main = ParserMain("<recognizer.grammar.name>Lexer", <recognizer.name>)
  <endif>
  <if(TREE_PARSER)>
    from antlr3.main import WalkerMain
    main = WalkerMain(<recognizer.name>)
  <endif>
  main.stdin = stdin
  main.stdout = stdout
  main.stderr = stderr
  main.execute(argv)
  <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>(<@superClass><superClass><@end>):
      <scopes:{<if(it.isDynamicGlobalScope)><globalAttributeScope(scope=it)><endif}>
grammarFileName = "<fileName>"
antlr_version = version_str_to_tuple("<ANTLRVersion>")
antlr_version_str = "<ANTLRVersion>"

def __init__(self<grammar.delegators:{g|, <g:delegateName()}>}, input=None, state=None):
    if state is None:
        state = RecognizerSharedState()
        super(<grammar.recognizerName>, self).__init__(input, state)

    <if(memoize)>
    <if(grammar.grammarIsRoot)>
        self._state.ruleMemo = {}
    <endif>
    <endif>

    <grammar.directDelegates:
        {g|self.<g:delegateName>() = <g.recognizerName>(<trunc(g.delegators):{p|<p:delegateName()>, }>, self, input, state)); separator="\n"}
    <grammar.delegators:
        {g|self.<g:delegateName>() = <g:delegateName()>; separator="\n"}
    <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)>; 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() ::= <<
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) ::= <<
    # token names
    tokenNames = [
        "$\langle invalid\rangle$", "$\langle EOR\rangle$", "$\langle DOWN\rangle$", "$\langle UP\rangle$",
        <tokenNames; wrap, separator=" ">
    ]
    <if(grammar.grammarIsRoot)>
    from <grammar.composite.rootGrammar.recognizerName> import tokenNames
    <endif>
    <scopes:{<if(it.isDynamicGlobalScope)><globalAttributeScopeClass(scope=it)><endif>}}
    <grammar.directDelegates:
        {g|from <g.recognizerName> import <g.recognizerName>; separator=" "}
    <rules:{<ruleAttributeScopeClass(scope=it.ruleDescriptor.ruleScope)>}}

    class <grammar.recognizerName>(<@superClassName><superClass><@end>):
        grammarFileName = "$<fileName>$"
        antlr_version = version_str_to_tuple("<ANTLRVersion>")
        antlr_version_str = "$<ANTLRVersion>"  
        tokenNames = tokenNames

        def __init__(self<grammar.delegators:{g|, <g:delegateName()>}>, input, state=None, *args, **kwargs):
            if state is None:
                state = RecognizerSharedState()

            <@args()>
            super(<grammar.recognizerName>, self).__init__(input, *args, **kwargs)

        <if(memoize)>
            <if(grammar.grammarIsRoot)>
                self._state.ruleMemo = []
            <endif>
delegateRule(ruleDescriptor) ::= <<
def <ruleDescriptor.name>(self, <ruleDescriptor.parameterScope.parameterScope(scope=it)>):  
    <\>  <if(ruleDescriptor.hasReturnValue)>return
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)>):
  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)>

---

Open Source Used In Imicampaign-blackduck 6.2 5807
# $ANTLR start "<ruleName>"
# <fileName>:<description>
<ruleDescriptor.actions.decorate>
def <ruleName>(self, <ruleDescriptor.parameterScope:parameterScope(scope=it)>):
    <if(trace)>
        self.traceIn("<ruleName>", <ruleDescriptor.index>)
    <endif>
    <ruleScopeSetUp()>
    <ruleDeclarations()>
    <ruleLabelDefs()>
    <ruleDescriptor.actions.init>
    <@preamble()>
    <@body><ruleBody()><@end>
    <@postamble()>
    return <ruleReturnValue()>

# $ANTLR end "<ruleName>"

ruleBody() ::= <<
    <if(memoize)>
    <if(backtracking)>
    success = False
    <endif>
    <endif>
    try:
        try:
            <ruleMemoization(name=ruleName)>
            <block>
            <ruleCleanUp()>
            <(ruleDescriptor.actions.after):execAction()>

            <if(memoize)>
            <if(backtracking)>
                success = True
            <endif>
            <endif>
        <endif>
    <if(exceptions)>
        <exceptions:{e|<catch(decl=e.decl,action=e.action)>
    <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>)
<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)
    <else>
        <ruleDescriptor.returnScope.attributes:{ a | a.name = <if(a.initValue)><a.initValue><else>None</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>)
    <endif>
    <ruleScopeSetUp()>
    <ruleDeclarations()>
    <if(memoize)>
    <if(backtracking)>
    success = False
    <endif>
    <endif>
    try:
    <if(nakedBlock)>
    <ruleMemoization(name=ruleName)>
    <lexerRuleLabelDefs()>
    <ruleDescriptor.actions.init>
    <block>
    <else>
    _type = <ruleName>
    _channel = DEFAULT_CHANNEL
    <ruleMemoization(name=ruleName)>
    <lexerRuleLabelDefs()>
    <ruleDescriptor.actions.init>
    <block>
    <ruleCleanUp()>
    self._state.type = _type
    self._state.channel = _channel
    <ifDescriptor.actions.after):execAction()>
    <endif>
    <if(memoize)>
    <if(backtracking)>
    success = True
  <endif>
  <endif>
  <endif>
  <endif>
  <endif>
  <endif>
  try:
  <if(nakedBlock)>
  <ruleMemoization(name=ruleName)>
  <lexerRuleLabelDefs()>
  <ruleDescriptor.actions.init>
  <block>
  <else>
  _type = <ruleName>
  _channel = DEFAULT_CHANNEL
  <ruleMemoization(name=ruleName)>
  <lexerRuleLabelDefs()>
  <ruleDescriptor.actions.init>
  <block>
  <ruleCleanUp()>
  self._state.type = _type
  self._state.channel = _channel
  <ifDescriptor.actions.after):execAction()>
  <endif>
  <if(memoize)>
  <if(backtracking)>
  success = True
  <endif>
  <endif>
  <endif>
  <endif>
  <endif>
  </block>
  </block>
  <ifDescriptor.actions.after):execAction()>
  <endif>
  <if(memoize)>
  <if(backtracking)>
  success = True
  <endif>
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  <endif>
  <endif>
  <endif>
  <endif>
finally:
@if(trace):
    self.traceOut("<ruleName>", <ruleDescriptor.index>)
@end

<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>

>>

// SUBRULES

/** 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(alt<dec>,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
  # <fileName>:<description>
  <decls>
  <@prealt()>
  <alts>
  <@postalt()>
>>

/** A special case of a (...) subrule with a single alternative */
blockSingleAlt(alt<dec>,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
  # <fileName>:<description>
  <decls>
  <@prealt()>
  <alts>
  <@postalt()>
>>

/** A (..)+ block with 1 or more alternatives */
positiveClosureBlock(alt<dec>,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><
>>

/** 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) ::= <<
/** match a character range */
charRangeRef(a,b,label) ::= <<
@if(label)
'label' = self.input.LA(1)
@endif
self.matchRange(<a>, <b>)
>>

/** For now, sets are interval tests and must be tested inline */
mismatchedSetException(s,label,elementIndex,postmatchCode="") ::= <<
@if(label)
'label' = self.input.LT(1)
@if(!LEXER)
self._state.errorRecovery = False
@endif
else:
    self._state.errorRecovery = False
@endif
else:
    if sym:
        self.input.consume()
@if(postmatchCode)
    self._state.errorRecovery = False
@endif
else:
    raise mse
@endif
raisemse
<ruleBacktrackFailure()>
msesymmetricMismatchException(None, self.input)
@msesymmetricMismatchException()
@if(LEXER)
self.recover(mse)
raise mse
@if(!LEXER)
raise mse
 Else use following code to make it recover inline; remove throw mse;
self.recoverFromMismatchedSet(
    self.input, mse, self.FOLLOW_set_in_<ruleName><elementIndex>
)
@
@endif
@endif
<br>
</u>
>>

matchRuleBlockSet ::= matchSet

matchSetAndListLabel(s,label,elementIndex,postmatchCode) ::= <<
<matchSet(...)>

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/** Match a string literal */
lexerStringRef(string,label,elementIndex) ::= <<
<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)
<elseif>
self.match(<string>)
<endif>
>>

wildcard(label,elementIndex) ::= <<
<if(label)>
<label> = self.input.LT(1)<
<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)<
<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><elementIndex>)
<if(label>)<label> = <endif>self.<if(scope)>scope.delegateName().<endif><rule.name>({args; separator="", "}))<un>
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>
seld.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>")
    >>

// Fixed DFA (if-then-else)
dfaState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
    LA<decisionNumber>_<stateNumber> = self.input.LA(<k>)
    <edges; separator="\n">
    else:
        <if(eotPredictsAlt)>
          alt<decisionNumber> = <eotPredictsAlt>
        <else>
          <ruleBacktrackFailure()>
          nvae = NoViableAltException("<description>", <decisionNumber>, <stateNumber>, self.input)
          #@noViableAltException()
          raise nvae
        <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.
*!

daOptionalBlockState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
LA<decisionNumber>_<stateNumber> = self.input.LA(<k>)
<edges; separator="\nel">
>>

/** 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.
*/!
daLoopbackState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
LA<decisionNumber>_<stateNumber> = self.input.LA(<k>)
<edges; separator="\nel"><
<if(eotPredictsAlt)>
alt<decisionNumber> = <eotPredictsAlt> <! if no edges, don't gen ELSE !>
<else>
  alt<decisionNumber> = <eotPredictsAlt>
<\n>
<endif>
<endif>
>>

/** An accept state indicates a unique alternative has been predicted */
daFAcceptState(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.
*/!
daFAEdge(labelExpr, targetState, predicates) ::= <<
if (<labelExpr>) <if(predicates)>and (<predicates>)<endif>:
  <targetState>
>>

// Fixed DFA (switch case)

/** A DFA state where a SWITCH may be generated. The code generator
* decides if this is possible: CodeGenerator.canGenerateSwitch().
*/!
daFAStateSwitch(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.

```python
LA<decisionNumber> = self.input.LA(<k>)
<edges; separator="\n">  
else:
  <if(eotPredictsAlt)>
    alt<decisionNumber> = <eotPredictsAlt>
  <else>
    <ruleBacktrackFailure>()
    nvae = NoViableAltException("<description>", <decisionNumber>, <stateNumber>, self.input)
    @{noViableAltException()}
    raise nvae
  <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=""
    u"">"
)

DFA<dfa.decisionNumber>_eof = DFA.unpack(  
    u"<dfa.javaCompressedEOF; wrap=""
    u"">"
)

DFA<dfa.decisionNumber>_min = DFA.unpack(  
    u"<dfa.javaCompressedMin; wrap=""
    u"">"
)

DFA<dfa.decisionNumber>_max = DFA.unpack(  
    u"<dfa.javaCompressedMax; wrap=""
    u"">"
)

DFA<dfa.decisionNumber>_accept = DFA.unpack(  
    u"<dfa.javaCompressedAccept; wrap=""
    u"">"
)

DFA<dfa.decisionNumber>_special = DFA.unpack(  
    u"<dfa.javaCompressedSpecial; wrap=""
    u"">"
)

DFA<dfa.decisionNumber>_transition = [
    <dfa.javaCompressedTransition: [s|DFA.unpack(u"<s; wrap=""
    u"">" )]; separator="",\n"
]

# class definition for DFA #<dfa.decisionNumber>

class DFA<dfa.decisionNumber>(DFA):
    pass

    <@errorMethod()>

    <if(dfa.specialStateSTs)>  
    def specialStateTransition(self_, s, input):
# convince pylint that my self_. magic is ok ;)
# pylint: disable-msg=E0213

# pretend we are a member of the recognizer
# thus semantic predicates can be evaluated
self = self_.recognizer

_s = s

<dfa.specialStateSTs:{state | 
if s == <i0>: <! compressed special state numbers 0..n-1 !>
  <state> }; separator="\nel">

<if(backtracking)>
  if self._state.backtracking >0:
    raise BacktrackingFailed

  nvae = NoViableAltException(self_.getDescription(), <dfa.decisionNumber>, _s, input)
  self_.error(nvae)
  raise nvae
<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
 )
>>

/** 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)

<if(semPredState) <! get next lookahead symbol to test edges, then rewind !>
index<decisionNumber>._<stateNumber> = input.index()
input.rewind()
<endif>

s = -1
<edges; separator="\nel">

** 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>) and (<predicates>):
    s = <targetStateNumber>
>>

/** An edge pointing at end-of-token; essentially matches any char;
* always jump to the target.
*/
eotDFAEdge(targetStateNumber,edgeNumber, predicates) ::= <<
se:
    s = <targetStateNumber>
>>

// DFA EXPRESSIONS

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.hasMultipleReturnValue)
  \begin{class}
    \ruleDescriptor\text{\textit{returnStructName}}()
    \Tree\text{\textit{Parser}}RuleReturnScope():
    \begin{def}
      \_\init\_\text{\textit{super}}:
      \text{\textit{super}}\text{\textit{grammar.recognizerName}}.\ruleDescriptor\text{\textit{returnStructName}}(), \text{\textit{self}}.__\text{\textit{init}}__(\text{\textit{self}})
    \end{def}
    \text{\textit{scope}}.\text{\textit{attributes}}:\\text{\textit{[self.\text{\itdecl} = \text{\textit{None}}; \text{\textit{separator}}=}\text{\textit{\\\"n\}}}\text{\textit{]}}
    \text{\textit{[@ruleReturnInit]}()}
  \end{class}
  \text{\textit{[@ruleReturnMembers]}()}

  \end{if}

>>

parameterScope(scope) ::= <<
  \text{\textit{scope}}.\text{\textit{attributes}}:\\text{\textit{[\text{\itdecl}]}; \text{\textit{separator}}=}\text{\textit{\"}, \"}}

>>

parameterAttributeRef(attr) ::= "\text{\textit{attr.name}}"\n
parameterSetAttributeRef(attr,expr) ::= "\text{\textit{attr.name}} = \text{\textit{expr}}"

scopeAttributeRef(scope,attr,index,negIndex) ::= <<
  \if(negIndex)
  \text{\textit{self}}.\text{\textit{scope}}._\text{\textit{stack}}[-\text{\textit{negIndex}}].\text{\textit{attr.name}}
  \else
  \if(index)
  \text{\textit{self}}.\text{\textit{scope}}._\text{\textit{stack}}[\text{\textit{index}}].\text{\textit{attr.name}}
  \else
  \text{\textit{self}}.\text{\textit{scope}}._\text{\textit{stack}}[-1].\text{\textit{attr.name}}
  \end{if}
  \end{if}
  \end{if}

>>

/* not applying patch because of bug in action parser! */

\if(negIndex)
  \((\text{\textit{len}}(\text{\textit{self}}.\text{\textit{scope}}._\text{\textit{stack}}) - \text{\textit{negIndex}} - 1) >= 0 \text{\textit{and}} [\text{\textit{self}}.\text{\textit{scope}}._\text{\textit{stack}}[-\text{\textit{negIndex}}].\text{\textit{attr.name}}] \text{\textit{or}} [\text{\textit{None}}][0] \text{\textit{or}} [\text{\textit{None}}][0] \text{\textit{or}} [\text{\textit{None}}][0] \text{\textit{or}} [\text{\textit{None}}][0] \text{\textit{or}} [\text{\textit{None}}][0]
\else
  \if(index)
  \((\text{\textit{index}} \text{\textit{\leq}} \text{\textit{len}}(\text{\textit{self}}.\text{\textit{scope}}._\text{\textit{stack}})) \text{\textit{and}} [\text{\textit{self}}.\text{\textit{scope}}._\text{\textit{stack}}[\text{\textit{index}}].\text{\textit{attr.name}}] \text{\textit{or}} [\text{\textit{None}}][0] \text{\textit{or}} [\text{\textit{None}}][0] \text{\textit{or}} [\text{\textit{None}}][0] \text{\textit{or}} [\text{\textit{None}}][0] \text{\textit{or}} [\text{\textit{None}}][0] \text{\textit{or}} [\text{\textit{None}}][0]
  \else
  \((\text{\textit{len}}(\text{\textit{self}}.\text{\textit{scope}}._\text{\textit{stack}}) > 0) \text{\textit{and}} [\text{\textit{self}}.\text{\textit{scope}}._\text{\textit{stack}}[-1].\text{\textit{attr.name}}] \text{\textit{or}} [\text{\textit{None}}][0] \text{\textit{or}} [\text{\textit{None}}][0] \text{\textit{or}} [\text{\textit{None}}][0] \text{\textit{or}} [\text{\textit{None}}][0] \text{\textit{or}} [\text{\textit{None}}][0] \text{\textit{or}} [\text{\textit{None}}][0]
  \end{if}
  \end{if}
  \end{if}
  \end{if}
  \end{if}
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>
        !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>
>>

/** $x$ 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) ::= <<
<i<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]
</i<TREE_PARSER>>
((<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(self.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>
    </if>
  </if>
  <else>
    <if(actions.(actionScope).synpredgate)>
      <action>
    </if>
    <endif>
  </else>
  # action start
  <action>
  # action end
  <endif>
>>

/** How to always execute an action even when backtracking */
execForcedAction(action) ::= "<action>"

// MISC (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"]
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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_GENTEMPLATES(arg) ::= "cannot find code generation templates <arg>.stg"
MISSING_CYCLIC_DFA_CODE_GENTEMPLATES() ::= "cannot find code generation cyclic DFA templates for language <arg>"
CODE_GENTEMPLATES_INCOMPLETE(arg) ::= "at least one code generation template missing for language <arg>"
CANNOT_CREATE_TARGETGENERATOR(arg,exception,stackTrace) ::= "cannot create target <arg> code generator: <exception>"
CANNOT_COMPUTE_SAMPLEINPUTSEQ() ::=
"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_RULESCOPE_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"

NOGRAMMAR_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"
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 <arg>"
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="","> for input such as "<input>"
>>

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|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|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=", "><
>}
<else>
Multiple token rules can match input such as "<input>": <conflictingTokens; separator=", ">
<endif>
<if(disabled)><
>As a result, token(s) <disabled; separator=", "> were disabled for that input<endif><if(hasPredicateBlockedByAction)><
>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.
*/
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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)>

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">
sub init_dfas {
    my ($self) = @@_;

    <cyclicDFAs:{dfa | $self->dfa<dfa.decisionNumber>({name>::DFA<dfa.decisionNumber>-&gt;new({ recognizer =&gt; $self })); }; separator="\n"> return;
}

no Moose;
__PACKAGE__-&gt;meta-&gt;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>}}

@memberson

<! WARNING. bug in ST: this is cut-n-paste into Dbg.stg !>

sub BUILD {
  my ($self, $arg_ref) = @_;

  <if(backtracking)>
    $self->state->rule_memo({ });
  <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);}>

Open Source Used In imicampaign-blackduck 6.2 5841
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>
</if(trace)>


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;
} <ln>
>>

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.ruleScope)>

# $ANTLR start <ruleName>
# <fileName>:<description>
sub <ruleName>() {
my ($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)><
    >}
    <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;
    }
    <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;
    }
    <else>
    
    <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));<
  <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] 
   :{my $<it.label.text> = undef;}; separator="\n" 
  >>

Open Source Used In Imicampaign-blackduck 6.2 5845
```perl
ruleDescriptor.tokenListLabels, ruleDescriptor.ruleListLabels
: { <labelType> <it.label.text>=null; } separator="\n"
>
<ruleDescriptor.charLabels: { my $<it.label.text>; } separator="\n">
<rul[descriptor.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>
}
>>

// SUBRULES

/** A (...) subrule with multiple alternatives */
block(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
# <fileName>::<description>
my $alt<decisionNumber> = <maxAlt>;
<decls>

Open Source Used In imicampaign-blackduck 6.2 5847
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()>
}
<@postbranch()>
>>

ruleBlockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
# <fileName>:<description>
<decls>
<@prealt()>
<alts>
<@postalit()>
>>

blockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
# <fileName>:<description>
<decls>
<@prealt()>
<alts>
<@postalit()>
>>

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>) {
    <$alts:altSwitchCase()>
    else { last LOOP<decisionNumber> }
  }
  ++$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) ::= ""

// 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>,
    $FOLLOW_<token>_in_<ruleName><elementIndex>);
    <checkRuleBacktrackFailure()>
>>

/** ids+=ID */
tokenRefAndListLabel(token, label, elementIndex, hetero) ::= <<
listLabel(label,elem) ::= <<
    if (list_<label>==null) list_<label>=new ArrayList();
    list_<label>.add(<elem>);
>>

/** match a character */
charRef(char,label) ::= <<
    <if(label)>
    <label> = $self->input->LA(1);
    <endif>
    $self->match(<char>); <checkRuleBacktrackFailure()>
>>

/** match a character range */
charRangeRef(a,b,label) ::= <<
    <if(label)>
    <label> = $self->input->LA(1);
    <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);
    <else>
    <label>=(<labelType>)input.LT(1);
    <endif>
    $self->match(<label>);<checkRuleBacktrackFailure()>
    <if(!LEXER)>
    $self->state->error_recovery(0);
    <endif>
    <if(backtracking)>failed=false;</if>
    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> = $self->input->LA(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>);
<label> = $self-><rule.name>(<args; separator=" ">);\n
<iostream> = $self-><rule.name>(<args; separator=" ">);\n<endif>
$self-><rule.name>(<args; separator=" ">); <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()>
  </if>
>>

/** 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>");
  }
>>

// Fixed DFA (if-then-else)

dfaState(k, edges, eotPredictsAlt, description, stateNumber, semPredState) ::= <<
  my $LA<decisionNumber>_<stateNumber> = $self->input->LA(<k>);<nl>
  <edges; separator="\n"es>
else {

Open Source Used In imicampaign-blackduck 6.2 5854
<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.
 */
dafoOptionalBlockState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
    my $LA<decisionNumber>_<stateNumber> = $self->input->LA(<k>);<n>
    <edges; separator="\n">;
<endif>

/** 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.
 */
dafoLoopbackState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
    my $LA<decisionNumber>_<stateNumber> = $self->input->LA(<k>);<n>
    <edges; separator="\n">;
    <if(!edges)>
        $alt<decisionNumber> = <eotPredictsAlt>; <! if no edges, don't gen ELSE !>
    <else>
        $alt<decisionNumber> = <eotPredictsAlt>;</n>
    </else>
<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) && (predicates) ) {
    <targetState>
}
>>

// Fixed DFA (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>;
        </if>
        <ruleBacktrackFailure()>
        my $nvaes =
            ANTLR::Runtime::NoViableAltException->new(
                grammar_decision_description => "<description>",
                decision_number => <decisionNumber>,
                state_number => <stateNumber>,
                input => $self->input,
            );
        <@noViableAltException()>
        croak $nvae;
    }<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>
>

daфаEdgeSwitch(labels, targetState) ::= <<
case {[labels:{ <it> }; separator="","]} { <targetState> }
>>

// Cyclic DFA

/** 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, ...
*/
daфаDecision(decisionNumber,description) ::= <<
$alt<decisionNumber> = $self->dfa<decisionNumber>-&gt;predict($self-&gt;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 =&gt; ANTLR::Runtime::DFA-&gt;unpack_rle([
<dfa.javaCompressedEOT; separator="","]
]);
Readonly my $DFA<dfa.decisionNumber>_eof =&gt; ANTLR::Runtime::DFA-&gt;unpack_rle([
<dfa.javaCompressedEOF; separator="","]
]);
Readonly my $DFA<dfa.decisionNumber>_min =&gt; ANTLR::Runtime::DFA-&gt;unpack_rle([
<dfa.javaCompressedMin; separator="","]
]);
Readonly my $DFA<dfa.decisionNumber>_max =&gt; ANTLR::Runtime::DFA-&gt;unpack_rle([
<dfa.javaCompressedMax; separator="","]
]);
Readonly my $DFA<dfa.decisionNumber>_accept =&gt; ANTLR::Runtime::DFA-&gt;unpack_rle([
<dfa.javaCompressedAccept; separator="","]
]);
Readonly my $DFA<dfa.decisionNumber>_special =&gt; ANTLR::Runtime::DFA-&gt;unpack_rle([
<dfa.javaCompressedSpecial; separator="","]
]);
Readonly my $DFA<dfa.decisionNumber>_transition =&gt; [
<dfa.javaCompressedTransition:{s|ANTLR::Runtime::DFA-&gt;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;
    }
</if>

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();
</if>

/** 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();<\n>
        input->rewind();<\n>
    </if>
    s = -1;
    <edges; separator="\n">s
    <if(semPredState)> <! return input cursor to state before we rewound !>
        input->seek(index<decisionNumber>_<stateNumber>);<\n>
    </if>
    if ( s>=0 ) return s;
    break;
>>

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/** 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>;}
>>

/** An edge pointing at end-of-token; essentially matches any char;
* always jump to the target.
*/
eotDFAEdge(targetStateNumber,edgeNumber, predicates) ::= <<
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) ::= "!(<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();

ruleAttributeScope(scope) ::= <<
    <if(scope.attributes>)
    protected static class <scope.name>_scope {
        <scope.attributes:{<it.decl>;}; separator="\n">
    }
    protected Stack <scope.name>_stack = new Stack();
    <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)>

/** 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>
@end
@end
@end
@end
>>
scopeSetAttributeRef(scope, attr, expr, index, negIndex) ::= <<
  <if(negIndex)>
    ((<scope>_scope)<scope>_stack.elementAt(<scope>_stack.size()-<negIndex>-1)).<attr.name> =<expr>;
  <else>
  <endif>

  <if(index)>
    ((<scope>_scope)<scope>_stack.elementAt(<index>)).<attr.name> =<expr>;
  <else>
    ((<scope>_scope)<scope>_stack.peek()).<attr.name> =<expr>;
  <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>

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<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"

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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;
} //
>>

parserCtorBody() ::= <<
    <super.parserCtorBody()>
>>

createListenerAndHandshake() ::= <<
    DebugEventSocketProxy proxy =
        new DebugEventSocketProxy(this, port, <if(TREE_PARSER)>input.getTreeAdaptor()<else>adaptor<endif>);
    setDebugListener(proxy);
    setStreamType(<new DebugStreamType>(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);
    </if>
>>

@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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*/
/** 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; } }

---

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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)_rewriteTextInLine()<_endif>
}
@else
<alts:rewriteTemplateAlt(); separator="else ">
@if(rewriteMode)_rewriteTextInLine()<_endif>
@endf

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);
@endf
}
```
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) ::= <<
```
/** 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
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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;
/***************************/

/** 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);
</if>
ctx->vectors = antlr3VectorFactoryNew(0);

<super.ASTLabelType()> tree;

</if>

@genericParser.cleanup() ::= <<
ctx->vectors->close(ctx->vectors);
<if(PARSER>
/* We created the adaptor so we must free it */
ADAPTOR->free(ADAPTOR);
</if>

@returnScope.ruleReturnMembers() ::= <<
</super.ASTLabelType()> tree;

</if>

/** Add a variable to track rule's return AST */
ruleDeclarations() ::= <<
<super.ruleDeclarations()>
<ASTLabelType> root_0;
</if>

ruleInitializations() ::= <<
<super.ruleInitializations()>
root_0 = NULL;

</if>

ruleLabelDefs() ::= <<
<super.ruleLabelDefs()>
<ruleDescriptor.tokenLabels:{<ASTLabelType> <it.label.text>_tree;}; separator="\n"
/* Note that we defer the actual creation of any rewrite streams we need here and just initialize
  * them to NULL. This saves creating huge numbers of rewrite streams that cannot be used as only
  * one alt will be taken in a rule, but we are declaring all the streams here. So we define
  * a macro that contains the create code, then use this macro later to check if the stream
  * has been created yet. Checking for NULL is almost free in C.
  */
ruleLabelInitializations() ::= <<
  <super.ruleLabelInitializations()>
  <ruleDescriptor.tokenListLabels:{<it.label.text>_tree   = NULL;}; separator="\n">
  <ruleDescriptor.allRuleRefsInAltsWithRewrites
     :{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.allTokenRefsInAltsWithRewrites
     :{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;</if>
  <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)>

// Tracking Rule Elements

/** ID but track it for use in a rewrite rule */
tokenRefTrack(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>
>>

/** 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>
>>

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 */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  <ruleRefRuleRootTrack(...)>
  <listLabelTrack(...)
  >>

/** ^(rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  <ruleRefRuleRootTrack(...)>
  <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 */
*/

* 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 */
}
>>

// 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> ) <ln>
<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->getFirstChild(ADAPTOR, _last),
    ADAPTOR->getFirstChild(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() ::= <<
/** 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
rewriteClosureBlock(
  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>);}<
  >}
  }<<
  // <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>);}<
  >}
  }<

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>
|</a>
</else>
{| 
  <a.alt>
|</a>
@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>);
|</a>
>>

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(...)>
  <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>)(stream_<label> == NULL ? NULL : stream_<label>-
  >nextTree(stream_<label>));<\n>
>>

rewriteWildcardLabelRef(label) ::= <<
  ADAPTOR->addChild(ADAPTOR, root_<treeLevel>, stream_<label> == NULL ? NULL : stream_<label>-
  >nextTree(stream_<label>));<\n>
>>

createImaginaryNode(tokenType, hetero, args) ::= <<

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<if(hetero)>
<! new MethodNode(IDLabel, args) !>
<hetero>New(<tokenType><if(args)>, <args; separator="","><endif>)
<else>
<if(args)
</if>
</if(args)>

#if <length(args)> == 2
(ADIOPTER->createTypeTokenText(ADIOPTER, <tokenType>, TOKTEXT(<args; separator="", ">)))
#else
(ADIOPTER->createTypeText(ADIOPTER, <tokenType>, (pANTLR3_UINT8)<args; separator="", ">))
#endif
<else>
(ADIOPTER->createTypeText(ADIOPTER, <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
ADIOPTER->createTypeTokenText(ADIOPTER, <token>->getType(<token>, TOKTEXT(<token>, <args; separator="", ">))) /* JIMI */
#else
ADIOPTER->createTypeToken(ADIOPTER, <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
No license file was found, but licenses were detected in source scan.

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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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*/

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;</!
<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> \_tree=null;}; separator="\n"
  <ruleDescriptor.tokenListLabels:{<ASTLabelType> \_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
>>

// Tracking Rule Elements

/** ID and track it for use in a rewrite rule */
tokenRefTrack(token,label,elementIndex,hetero) ::= <<
<tokenRefBang(...)>
</if(backtracking)>>

/** 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)>>

/** 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)>>

/** 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)>>

/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRootTrack(...)>
<listLabel(elem=label+".Tree",....)>"
// Rewrite

rewriteCode(alts, description,
            referencedElementsDeep, // ALL referenced elements to right of ->
            referencedTokenLabels,
            referencedRuleListLabels,
            referencedWildcardLabels,
            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> ) {<
            <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 = root_0;<
                </if>
                <endif>
                <! if parser or tree-parser && rewrite!=true, we need to set result !>
                <if(!!TREE_PARSER)>
                    <prevRuleRootRef>().Tree = root_0;<
                </if>
                <else>
                    <if(!rewriteMode)>
                        <prevRuleRootRef>().Tree = root_0;
                    </if>
                </else>
            </if>
        </endif>
    </if(!backtracking)> <\n>
```java
/** 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) ::=  
  <<
  
  if ( <referencedElementsDeep:{el | stream_<el>.HasNext}; separator="|"> )
  
  >>
```
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>
/** 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>

  rewriteTokenRef(token,elementIndex,hetero,args) ::= <<
    adaptor.AddChild(root_<treeLevel>, <createRewriteNodeFromElement(...)>);\n
  rewriteTokenLabelRef(label,elementIndex) ::= <<
    adaptor.AddChild(root_<treeLevel>, stream_<label>.NextNode());\n
  rewriteTokenListLabelRef(label,elementIndex) ::= <<
    adaptor.AddChild(root_<treeLevel>, stream_<label>.NextNode());\n
  rewriteTokenLabelRefRoot(label,elementIndex) ::= <<
    root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(stream_<label>.NextNode(), root_<treeLevel>);\n
  rewriteTokenListLabelRefRoot ::= rewriteTokenLabelRefRoot

  rewriteTokenLabelRefRoot ::= rewriteTokenLabelRefRoot

  rewriteTokenListLabelRefRoot ::= rewriteTokenLabelRefRoot

  rewriteTokenLabelRefRoot ::= rewriteTokenLabelRefRoot

  rewriteTokenLabelRefRoot ::= rewriteTokenLabelRefRoot
/** plain -> {foo} action */
rewriteAction(action) ::= <<
  root_0 = <action>;<
>>

/** 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());
>>

/** Gen ^($ruleLabel ... where ruleLabel=rule */
rewriteRuleLabelRefRoot(label) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(stream_<label>.NextNode(), root_<treeLevel>);
>>

/** Gen ^($ruleLabel ... where ruleLabel+=rule */
rewriteRuleListLabelRefRoot(label) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(stream_<label>.NextNode(), root_<treeLevel>);
>>

rewriteWildcardLabelRef(label) ::= <<
adaptor.AddChild(root_<treeLevel>, stream_<label>.NextTree());
>>

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/antlr/antlr/codegen/templates/CSharp2/AST.stg
No license file was found, but licenses were detected in source scan.

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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.
*/

```plaintext
@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
<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
<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(...)
<label>listLabel(elem=label,...)
><

/** label+=TOKEN when output=AST but not rewrite alt */
tokenRefAndListLabel(token,label,elementIndex,hetero) ::= <<
<tokenRef(...)
<label>listLabel(elem=label,...)
><

/** Match label+=TOKEN^ when output=AST but not rewrite alt */
tokenRefRuleRootAndListLabel(token,label,hetero,elementIndex) ::= <<
<tokenRefRuleRoot(...)
<label>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(debug)>
<label> := Input.LT(1) as I<labelType>;<
<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) ::= <<
/** x+=rule when output=AST */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
\texttt{ruleRef(...)}
\texttt{<listLabel(elem=label+.Tree","...)>}
>>

/** x+=rule! when output=AST is a rule ref with list addition */
ruleRefBangAndListLabel(rule,label,elementIndex,args,scope) ::= <<
\texttt{ruleRefBang(...)}
\texttt{<listLabel(elem=label+.Tree","...)>}
>>

/** x+=rule^ */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
\texttt{ruleRefRuleRoot(...)}
\texttt{<listLabel(elem=label+.Tree","...)>}
>>

// WILDCARD AST

wildcard(label,elementIndex) ::= <<
\texttt{super.wildcard(...)}
\texttt{if(backtracking)}
if (State.Backtracking = 0) then
begin
\texttt{<label>_tree := Adaptor.CreateNode(<label>) as I<ASTLabelType>;
Adaptor.AddChild(Root[0], <label>_tree);} 
\texttt{if(backtracking)}
end;
\texttt{<endif>}
>>

wildcardBang(label,elementIndex) ::= "<super.wildcard(...)"

wildcardRuleRoot(label,elementIndex) ::= <<
\texttt{super.wildcard(...)}
\texttt{if(backtracking)}
if (State.Backtracking = 0) then
begin
\texttt{<label>_tree := Adaptor.CreateNode(<label>) as I<ASTLabelType>;
Adaptor.BecomeRoot(<label>_tree, Root[0]) as I<ASTLabelType>;
 Root[0] := Adaptor.BecomeRoot(<label>_tree, Root[0]) as I<ASTLabelType>;
}}
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
@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)
@endif
@endif
@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.

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*/

@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 returnsopes */
@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;
>>

/** the implementation of returnScope synthesize */
@returnScope.synthesize() ::= <<
/* AST returnScope.synthesize */
@synchronize 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;

ruleLabelDefs() ::= <<
/* AST ruleLabelDefs */
<super.ruleLabelDefs()>
<ruleDescriptor.tokenLabels,ruleDescriptor.wildcardTreeLabels):
  [<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 ) {<
<![prevRuleRootRef() setTree:(<ASTLabelType> *)[treeAdaptor rulePostProcessing:root_0]];<
[treeAdaptor setTokenBoundaries:]<prevRuleRootRef() getTree]
From:[<prevRuleRootRef() getStart] To:[<prevRuleRootRef() getStop]];<
@if(backtracking)>}<
@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];<
@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>];
>>

/** 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.tokenRefRuleRoot(...)>> !>
<tokenRefBang(...)>
<if(backtracking)>
if ( !<actions.(actionScope).synpredgate> ) <endif>
    [stream_<token> addElement:<label>];
>>

/** 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]",...)>;
>>

// Rewrite

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>
[<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 getParents: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=" || ">) ) {
nothrow [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>
}
/** 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>];
} <<
// <fileName>:<description>

rewriteElementList(elements) ::= "<elements:rewriteElement()>

rewriteElement(e) ::= <<
<@pregen()>
<e.e1>
>>

/** Gen ID or ID[args] */
rewriteTokenRef(token,elementIndex,hetero,args) ::= <<
// TODO: args: <args; separator=",">
[treeAdaptor addChild:<createRewriteNodeFromElement(...) toTree:root_<treeLevel>];<<
>>

/** Gen $label ... where defined via label=ID */
rewriteTokenLabelRef(label,elementIndex) ::= <<
[treeAdaptor addChild:[stream_<label> nextNode] toTree:root_<treeLevel>];<<
>>

/** Gen $label ... where defined via label+=ID */
rewriteTokenListLabelRef(label,elementIndex) ::= <<
[treeAdaptor addChild:[stream_<label> nextNode] toTree:root_<treeLevel>];<<
>>

/** Gen ^(Label ...) */
rewriteTokenLabelRefRoot(label,elementIndex) ::= <<
root_<treeLevel> = (<ASTLabelType> *)[treeAdaptor becomeRoot:[stream_<label> nextNode]
old:root_<treeLevel>];<<
>>
/** Gen ^(label ...) where label+=... */
rewriteTokenListLabelRefRoot ::= rewriteTokenLabelRefRoot

/** Gen ^(ID ...) or ^(ID[...]) */
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> ];
/* 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) ::= <<
[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()>

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_first_0 = None
_last = None

/** 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()<
<endif>
<root:element()>
<if(rewriteMode)>
<finishedBacktracking({
<if(root.el.rule)>
if __first_<enclosingTreeLevel> is None:
   __first_<enclosingTreeLevel> = <root.el.label>.tree<
<else>
if __first_<enclosingTreeLevel> is None:
   __first_<enclosingTreeLevel> = <root.el.label><
<endif>
<endif>
<actionsAfterRoot:element()><
<if(nullableChildList)>
if self.input.LA(1) == DOWN:
   self.match(self.input, DOWN, None)
<children:element()>>
<else>

---

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self.match(self.input, DOWN, None)
<children:element()>
self.match(self.input, UP, None)<
><
<endif>
<if(!rewriteMode)>
self._adaptor.addChild(root_<enclosingTreeLevel>, root_<treeLevel>)<
><
<_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><
>
self._adaptor.addChild(root_<treeLevel>, <label>_tree)
})>
<else> <! rewrite mode !>
<finishedBacktracking(
 if _first_<treeLevel> is None:
 _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 = self.input.LT(1)
    <super.tokenRef(...)>
    <if(!rewriteMode)>
        <finishedBacktracking({
            <if(hetero)>
                <label>_tree = <hetero>(<label>)
            <else>
                <label>_tree = self._adaptor.dupNode(<label>)
            <endif>
            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({
            <if(hetero)>
                <label>_tree = <hetero>(<label>)
            <else>
        self._adaptor.addChild(root_<treeLevel>, <label>_tree)
            <endif>
            self._adaptor.addLeaf(root_<treeLevel>, _first_<treeLevel>)
        })>
    <else> <! rewrite mode !>
        <finishedBacktracking({
            if _first_<treeLevel> is None:
                _first_<treeLevel> = <label>
            root_<treeLevel> = self._adaptor.addLeaf(root_<treeLevel>, _first_<treeLevel>)
        })>
    <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>
            <endif>
            <else> <! rewrite mode !>
                <finishedBacktracking({
                    if _first_<treeLevel> is None:
                        _first_<treeLevel> = <label>
                })>
            <endif>
    <else>
<label>_tree = self._adaptor.dupNode(<label>)
<endif>
self._adaptor.addChild(root_<treeLevel>, <label>_tree)
}
<endif>
}>
>>

matchRuleBlockSet(s,label,hetero,elementIndex,postmatchCode,treeLevel="0") ::= <<
<matchSet(...)> <noRewrite()> <! set return tree !>
>>

matchSetBang(s,label,elementIndex,postmatchCode) ::= <<
_last = self.input.LT(1)
<super.matchSet(...)>
>>

matchSetRuleRoot(s,label,hetero,elementIndex,debug) ::= <<
<super.matchSet(..., postmatchCode={
<if(!rewriteMode)>
<finishedBacktracking({
<if(hetero)>
<label>_tree = <hetero>(<label>)
<else>
<label>_tree = self._adaptor.dupNode(<label>)
<endif>
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(...)>
<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(...)
<label+".tree"...>
>>

/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
_last = self.input.LT(1)
<super.ruleRefTrack(...)
>>

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
_last = self.input.LT(1)
<super.ruleRefTrackAndListLabel(...)
>>

/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
_last = self.input.LT(1)
<super.ruleRefRootTrack(...)
>>

/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
_last = self.input.LT(1)
<super.ruleRefRuleRootTrackAndListLabel(...)
>>
/** Streams for token refs are tree nodes now; override to
 * change nextToken to nextNode.
 */
createRewriteNodeFromElement(token, hetero, scope) ::= <<
  <if(hetero)>
    <hetero>(stream_<token>.nextNode())
  <else>
    stream_<token>.nextNode()
  <endif>
>>
ruleCleanUp() ::= <<
  <super.ruleCleanUp()>
  <if(!rewriteMode)>
    <finishedBacktracking({
      retval.tree = self._adaptor.rulePostProcessing(root_0)
    })>
  <endif>
>>

Found in path(s):
* /opt/cola/permits/1238692736_1638981223.8/0/antlr-3-3-sources-jar/org/antlr/codegen/templates/Python/ASTTreeParser.stg
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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;
<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;
<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.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>}> 
        <last(grammar.delegators):{g|public <g.recognizerName> gParent;}> 
        public <grammar.recognizerName>()<! needed by subclasses !> 
    } 
    <actions.lexer.members>

    // delegates
    <grammar.delegates:
        {g|public <g.recognizerName> <g:delegateName()>;}; separator="\n"}

    // delegators
    <grammar.delegators:
        {g|public <g.recognizerName> <g:delegateName()>;}; separator="\n"}

    <last(grammar.delegators):{g|public <g.recognizerName> gParent;}>

    public <grammar.recognizerName>()<! needed by subclasses !>
public <grammar.recognizerName>(ICharStream input<grammar.delegators:{g|, <g.recognizerName> <g:delegateName>()}> )
: this(input, new RecognizerSharedState<grammar.delegators:{g|, <g.recognizerName> <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>"; } }
protected virtual void OnCreated() {}
protected virtual void EnterRule(string ruleName, int ruleIndex) {}
protected virtual void LeaveRule(string ruleName, int ruleIndex) {}

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">}

/** 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;
            return eof;
        }
    }
    return null;
}>>
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) ::= <<
   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>( <inputStreamReader> input<grammar.delegators:{g|, <g.recognizerName>
   \g:delegateName()>}> )
   
---------------------------------------------------------------------
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: this( input, new RecognizerSharedState([g], <g:delegateName()> )
{
}
public <grammar.recognizerName>(<inputStreamType> input, RecognizerSharedState
state<g:delegators:={p|, <p: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):={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</u>
<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 !>
#region DFA
<endif>

<if(bitsets)>
#region Follow sets
private static class Follow
{
    <bitsets:bitset(name={_<it.name>_in_<it.inName><it.tokenIndex>},
        words64=it.bits)>
    }
#region Follow sets
<endif>

<if(memoize)>
#region Memoize
<if(grammar.grammarIsRoot)>
this.state.ruleMemo = new System.Collections.Generic.Dictionary<int,
    int>[length(grammar.allImportedRules)+1];\n</if>
<endif>
</region>
<grammar.delegators:
{g|this.<g:delegateName()> = <g:delegateName>();}; separator="\n">}

parserCtorBody() ::= <<
<if(memoize)>
<if(grammar.grammarIsRoot)>
this.state.ruleMemo = new System.Collections.Generic.Dictionary<int,
    int>[length(grammar.allImportedRules)+1];\n</if>
<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</if> <else>Antlr.Runtime.Parser</else> },
    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) ::= <<
#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

ruleMemoization(name) ::= <<
#if(memoize)
if (state.backtracking > 0 && AlreadyParsedRule(input, <ruleDescriptor.index>)) { <returnFromRule()> }
#else
</if>
>>

/** How to test for failure and return from rule */
checkRuleBacktrackFailure() ::= <<
#if(backtracking)
if (state.failed) <returnFromRule()> <endif>
#else
</if>
>>

/** This rule has failed, exit indicating failure during backtrack */
ruleBacktrackFailure() ::= <<
#if(backtracking)
if (state.backtracking>0) { state.failed=true; <returnFromRule()> } <endif>
#else
</if>
>>

/** 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>() {}
finally
{
  if(trace)
  
  TraceOut("<ruleName>",<ruleDescriptor.index>);
LeaveRule("<ruleName>",<ruleDescriptor.index>);
Leave_<ruleName>();

  if(memoize)
  
  <ruleScopeCleanUp>()
  
  finally
  
  }

DebugLocation(<ruleDescriptor.EORNode.line>,<ruleDescriptor.EORNode.charPositionInLine>);
} finally { DebugExitRule(GrammarFileName,"<ruleName>"); }

@postamble()

$returnFromRule()$

// $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);<

#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">;
>>

ruleLabelDef() ::= <<
<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">;
>>

lexerRuleLabelDef() ::= <<
<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)>

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()>

<if(!TREE_PARSER)>
retval.Stop = (<labelType>input.LT(-1));
<endif>
<endif>
>>
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()>
  }
}</ruleName>
// $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>); }
>>
/** 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()>
  }
>>

/** A rule block with a single alternative */
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
 */
optimalBlock ::= block

optimalBlockSingleAlt ::= 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 */
external() ::= <<
<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(...>>
<setLabel(elem=label,...)>
>>

setLabel(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 (<<)
{
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>
}

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, TokenTypes.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> = input.LT(1);<
<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>._<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, TokenTypes.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()>;
  </if>
>>

/** i+=INT in lexer */
lexerRuleRefAndListLabel(rule,label,args,elementIndex,scope) ::= <<
  <lexerRuleRef(...)>;
  <listLabel(elem=label,...)> >>

/** EOF in the lexer */
lexerMatchEOF(label,elementIndex) ::= <<
**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>");
    }
    >>

    // Fixed DFA (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 ">
<if(eotPredictsAlt)>
<if(!edges)>
alt<decisionNumber>=<eotPredictsAlt>;
<else>
alter<decisionNumber>=<eotPredictsAlt>;
</if>
<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>
}
>>

// Fixed DFA (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"}\
<if(eotPredictsAlt)>
default:
alt<decisionNumber>==<eotPredictsAlt>;
bREAK;
<endif>
}\
>>

dfaEdgeSwitch(labels, targetState) ::= <<
<labels:{case <it>:}; separator="\n"}
{
<targetState>
}
bREAK;
>>

// Cyclic DFA

/** 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 =
private const string DFA<dfa.decisionNumber>_EOF = "<dfa.javaCompressedEOF; wrap="+
	"">";
private const string DFA<dfa.decisionNumber>_Min = "<dfa.javaCompressedMin; wrap="+
	"">";
private const string DFA<dfa.decisionNumber>_Max = "<dfa.javaCompressedMax; wrap="+
	"">";
private const string DFA<dfa.decisionNumber>_Accept = "<dfa.javaCompressedAccept; wrap="+
	"">";
private const string DFA<dfa.decisionNumber>_Special = "<dfa.javaCompressedSpecial; wrap="+
	"">"}>");
private static readonly string[] DFA<dfa.decisionNumber>_Transition = {
    <dfa.javaCompressedTransition:{s|"s; wrap="+
"">"}; separator=",
    };
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>_ACCEPT);
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> )
{
    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);
}

@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);
  <if(semPredState)><! get next lookahead symbol to test edges, then rewind !>
  int index<decisionNumber>_<stateNumber> = input.Index;
  input.Rewind();
  <endif>
  s = -1;
  <edges; separator="\nelse ">
  <if(semPredState)><! return input cursor to state before we rewound !>
  input.Seek(index<decisionNumber>_<stateNumber>);
  <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>;}<
>>

/** An edge pointing at end-of-token; essentially matches any char;
* always jump to the target.
*/
eotDFAEdge(targetStateNumber,edgeNumber, predicates) ::= <<<
  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) ::= "!(<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="\||">"

// ATTRIBUTES

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 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()>
{
@if(index)
    <scope.attributes:{<it.decl>;}; separator="\n">;
@endif
    <@ruleReturnMembers()>
}
@if(index)
>>

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>
@if(index)
    ((<scope>_scope)<scope>_stack.elementAt(<index>)).<attr.name>
@endif
@if(index)
    ((<scope>_scope)<scope>_stack.Peek()).<attr.name>
@endif
>>

scopeSetAttributeRef(scope,attr,expr,index,negIndex) ::= <<
@if(negIndex)
    ((<scope>_scope)<scope>_stack.elementAt(<scope>_stack.size()-<negIndex>-1)).<attr.name> =<expr>;
@if(index)
    ((<scope>_scope)<scope>_stack.elementAt(<index>)).<attr.name> =<expr>;
@endif
@if(index)
    ((<scope>_scope)<scope>_stack.Peek()).<attr.name> =<expr>;
@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>
  <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/antlr/codegen/templates/CSharp2/CSharp2.stg
1.933 aws-java-sdk-for-aws-directory-service

1.11.155

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1.946 d3-collection 1.0.4

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1.947 aws-java-sdk-for-amazon-worklink

1.11.555

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1.948 inherits 2.0.3

1.949 apache-parquet-column 1.12.0
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* parquet-hadoop's UnmaterializableRecordCounter.java includes code from ElephantBird's LzoRecordReader.java

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* dev/merge_parquet_pr.py is based on Spark's dev/merge_spark_pr.py

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* parquet-hadoop's UnmaterializableRecordCounter.java includes code from ElephantBird's LzoRecordReader.java

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1.11.257

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1.959 jmes-path-query-library 1.11.172

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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.

1.961 jackson-databind 2.12.4
1.961.1 Available under license :

# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
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It is currently developed by a community of developers.

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http://www.w3.org/TR/2000/REC-DOM-Level-2-Events-20001113/
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Links to all available W3C DOM Java Bindings can be found at:
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The actual classes of The Simple API for CSS (SAC) came from:
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The actual DOM Java Language Binding classes for SMIL came from:
http://dev.w3.org/cvsweb/java/classes/org/w3c/dom/smil/
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https://bugs.debian.org/cgi-bin/bugreport.cgi?bug=750643#80%22

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1.967 commons-loggin 1.1.3

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* /opt/cola/permits/1108371885_1639076412.95/0/gson-2-2-1-sources-jar/com/google/gson/FieldNamingPolicy.java
* /opt/cola/permits/1108371885_1639076412.95/0/gson-2-2-1-sources-jar/com/google/gson/annotations/SerializedName.java
* /opt/cola/permits/1108371885_1639076412.95/0/gson-2-2-1-sources-jar/com/google/gson/FieldNamingStrategy.java
* /opt/cola/permits/1108371885_1639076412.95/0/gson-2-2-1-sources-jar/com/google/gson/InstanceCreator.java

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jar/com/google/gson/JsonSyntaxException.java
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* /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

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* /opt/ws_local/PERMITS_SQL/1019872344_1591370595.25/0/javassist-3-20-0-ga-sources-jar/javassist/bytecode/annotation/ArrayMemberValue.java
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* /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/convert/TransformCall.java
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data class License(val name: String, val url: URI, val headerFile: File)
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 *
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 *
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 *
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 * @author Rainer Pruy
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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/CsvByPosition.java
* /opt/cola/permits/1237463678_1638811391.93/0/opencsv-4-1-sources-jar/com/opencsv/bean/CsvCustomByPosition.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
* /opt/cola/permits/1237463678_1638811391.93/0/opencsv-4-1-sources-jar/com/opencsv/bean/opencsvUtils.java
* /opt/cola/permits/1237463678_1638811391.93/0/opencsv-4-1-sources-jar/com/opencsv/bean/CsvToBeanBuilder.java
* /opt/cola/permits/1237463678_1638811391.93/0/opencsv-4-1-sources-jar/com/opencsv/bean/BeanFieldPrimitiveTypes.java

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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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It is currently developed by a community of developers, as well as supported
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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 configurablility but closer match to the RFC4180 requirements.
 *
 * @author Glen Smith
 * @author Rainer Pruy
 */

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1.1012 aws-java-sdk-for-amazon-dynamodb

1.11.155

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1.1013 aws-java-sdk-for-amazonmq 1.11.257

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1.1014 aws-java-sdk-for-aws-iot 1.11.555

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esprima@2.7.3
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VendorName: Max Ogden
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VendorName: Robert Kowalski
normalize-package-data@2.3.8
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regenerator@0.8.40
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VendorName: Julian Viereck
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VendorName: Mihai Bazon
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VendorName: Kris Zyp

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VendorName: The Linux Foundation

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VendorUrl: https://github.com/shinnn

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cliui@3.2.0
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console-control-strings@1.1.0
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VendorUrl: http://re-becca.org/
d@1.0.1
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ensure-posix-path@1.1.1
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Open Source Used In imicampaign-blackduck 6.2 6576
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VendorUrl: http://www.medikoo.com/
es6-symbol@3.1.3
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VendorUrl: http://jongleberry.com

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  VendorUrl: http://paul.vorba.ch/
cloning@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
  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 Shytlyman
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
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

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

VendorName: Elijah Insua
defined@1.0.0
URL: git://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

VendorName: Felix Geisendrfer
VendorUrl: https://github.com/felixge/node-delayed-stream
delegates@1.0.0
URL: https://github.com/visionmedia/node-delegates.git

VendorName: Douglas Christopher Wilson
depd@1.1.2
URL: https://github.com/dougwilson/nodejs-depd.git

VendorName: Jonathan Ong
VendorUrl: http://jongleberry.com
destroy@1.0.4
URL: https://github.com/stream-utils/destroy.git

VendorName: Toby Ho
VendorUrl: http://sindresorhus.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/browsersify/detective.git

VendorName: James Halliday
VendorUrl: http://substack.net
did_it_work@0.0.6

VendorName: Toby Ho
dom-serializer@0.2.2
VendorName: Emre Unal
ember-cli-htmlbars-inline-precompile@0.3.1
URL: https://github.com/pangratz/ember-cli-htmlbars-inline-precompile

VendorName: Clemens Müller
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: https://github.com/rjackson/ember-cli-ic-ajax
VendorName: Robert Jackson
VendorUrl: https://github.com/rwjblue/ember-cli-inject-live-reload
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 Craig
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
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  VendorName: Jon Schlinkert
  VendorUrl: https://github.com/jonschlinkert/expand-range
express@4.17.1
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  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
  VendorName: Edward Faulkner
  VendorUrl: https://github.com/davepacheco/node-extsprintf
fast-deep-equal@2.0.1
  URL: 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
  VendorName: James Halliday
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-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
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/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
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http-parser-js@0.4.10
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VendorName: Mikola Lysenko
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VendorUrl: sindresorhus.com
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VendorName: Vladimir Zapparov
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jsbn@0.1.1
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VendorName: Tom Wu
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VendorName: Mathias Bynens
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VendorName: Kat Marchn
json-schema-traverse@0.4.1
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VendorName: Evgeny Poberezkin
VendorUrl: https://github.com/epoberezkin/json-schema-traverse#readme
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VendorName: James Halliday
VendorUrl: https://github.com/substack/json-stable-stringify
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VendorName: Kit Cambridge
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VendorName: Aseem Kishore
VendorUrl: http://json5.org/
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VendorName: Tim Wood
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moment@2.24.0
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VendorName: Iskren Ivov Chernev
VendorUrl: http://momentjs.com/
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nan@2.14.0
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negotiator@0.6.2
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VendorName: Mariusz Nowak
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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

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VendorName: Douglas Christopher Wilson

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VendorName: James Halliday
VendorUrl: http://substack.net

options@0.0.6
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VendorName: Einar Otto Stangvik
VendorUrl: http://2x.io

os-homedir@1.0.2
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VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

os-locale@1.4.0
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VendorUrl: sindresorhus.com

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VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

output-file-sync@1.1.2
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VendorName: Shinnosuke Watanabe
VendorUrl: https://github.com/shinnn

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VendorName: Jon Schlinkert
VendorUrl: https://github.com/jonschlinkert/parse-glob

parse-json@2.2.0
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VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

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VendorUrl: sindresorhus.com
path-is-absolute@1.0.1
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VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
path-parse@1.0.6
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VendorName: Javier Blanco
VendorUrl: https://github.com/jbgutierrez/path-parse#readme
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preserve@0.2.0
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VendorUrl: https://github.com/ChALkeR
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VendorUrl: https://select2.github.io/
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serve-static@1.14.1
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VendorName: Douglas Christopher Wilson
shebang-regex@1.0.0
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VendorUrl: sindresorhus.com
simple-fmt@0.1.0
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simple-is@0.2.0
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VendorName: Olov Lassus
slash@1.0.0
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VendorName: Sindre Sorhus
VendorUrl: http://sindresorhus.com
socket.io-client-pure@1.3.12
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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
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source-map-support@0.2.10
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source-map-url@0.3.0
URL: https://github.com/lydell/source-map-url.git
VendorName: Simon Lydell
spawnback@1.0.0
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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/jshttp/statuses.git
stdout-stream@1.4.1
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string_decoder@0.10.31
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VendorUrl: sindresorhus.com
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URL: https://github.com/chalk/supports-color.git
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VendorUrl: sindresorhus.com
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tap-parser@1.3.2
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temp@0.8.1
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utf8@2.1.0
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   VendorName: Nathan Rajlich
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   VendorName: Jared Hanson
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VendorName: Jo Liss

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VendorName: Tim Oxley
VendorUrl: https://github.com/timoxley/wcwidth#readme

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VendorUrl: http://substack.net

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VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

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  VendorUrl: https://github.com/thejoshwolfe/yauzl

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  VendorUrl: http://crockford.com/
SEE LICENSE IN LICENSE
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  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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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
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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/gmock-1.7.0/*/*.cc|h
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-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
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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)

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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
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        VendorName: Felix Boehm
BSD-3-Clause
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        VendorName: Alexandru Marasteanu
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    wrappy@1.0.2
        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/

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VendorUrl: http://angularjs.org/

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VendorUrl: https://github.com/apidoc/apidoc-core

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VendorUrl: http://apidocjs.com/

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URL: https://github.com/nodeca/argparse.git

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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: https://github.com/twbs/bootstrap.git
VendorName: Twitter, Inc.
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URL: git://github.com/juliangruber/brace-expansion.git
VendorName: Julian Gruber
VendorUrl: https://github.com/juliangruber/brace-expansion

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URL: https://github.com/Qix-/color-convert.git
VendorName: Heather Arthur
color-name@1.1.3
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VendorName: DY
VendorUrl: https://github.com/dfcreative/color-name

color-name@1.1.4
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VendorName: DY
VendorUrl: https://github.com/colorjs/color-name

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URL: https://github.com/Qix-/color-string.git
VendorName: Heather Arthur

color@3.0.0
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VendorName: Tim Oxley
VendorUrl: https://github.com/timoxley/colornames#readme

colors@1.4.0
URL: http://github.com/Marak/colors.js.git
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VendorUrl: https://github.com/Marak/colors.js

colorspace@1.1.2
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VendorName: Arnout Kazemier
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VendorName: Heather Arthur

concat-map@0.0.1
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VendorName: James Halliday
VendorUrl: http://substack.net

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VendorName: Isaac Z. Schlueter
VendorUrl: http://blog.izs.me/

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URL: git://github.com/bigpipe/diagnostics.git
VendorName: Arnout Kazemier
VendorUrl: https://github.com/bigpipe/diagnostics

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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
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

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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

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URL: https://github.com/qix-/node-is-arrayish.git
VendorName: Qix
VendorUrl: http://github.com/qix-

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URL: https://github.com/sindresorhus/is-stream.git
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com

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VendorName: Julian Gruber
VendorUrl: https://github.com/juliangruber/isarray

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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
VendorUrl: https://github.com/jprichardson/node-jsonfile

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
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    VendorUrl: https://lodash.com/
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    VendorName: Charlie Robbins
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    URL: https://github.com/sindresorhus/path-is-absolute.git
    VendorName: Sindre Sorhus
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    VendorName: James Burke
    VendorUrl: https://github.com/nodejs/readable-stream
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    VendorName: James Burke
    VendorUrl: http://github.com/jrburke/r.js
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    URL: git+https://github.com/ChALkeR/safer-buffer.git
    VendorName: Nikita Skovoroda
    VendorUrl: https://github.com/ChALkeR
simple-swizzle@0.2.2
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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.zaxxer:HikariCP-java7:2.4.12
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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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junit:junit:4.13.1

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1.1019 aws-java-sdk-for-aws-batch 1.11.172

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1.1020 aws-java-sdk-for-aws-auto-scaling-plans 1.11.508

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1.1036 aws-java-sdk-for-aws-organizations

1.11.555

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1.1045 aws-java-sdk-for-aws-gamelift 1.11.155

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1.1047 d3-transition v1.3.2

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1.1048 jackson-core 2.6.6
1.1048.1 Available under license :

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1.1049 aws-sdk-for-java-core 1.11.172

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1.11.555

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1.1053 nimbus-langtag 1.5

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1.11.508

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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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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
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hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/libhdfspp/third_party/gmock-1.7.0/*/*.{cc|h}
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-server/hadoop-yarn-server-nodemanager/src/main/resources/TERMINAL

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

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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)
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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.

1.1058 apache-poi-ooxml 3.12

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1.1060 jackson-core 1.9.2

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* /opt/cola/permits/1020252227_1614939438.31/0/jackson-core-asl-1-9-2-sources-
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* /opt/cola/permits/1020252227_1614939438.31/0/jackson-core-asl-1-9-2-sources-
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(1)

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**1.11.555**

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1.1068 jackson-databind 2.9.2

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1.1069 aws-java-sdk-for-aws-resource-groups-tagging-api 1.11.508

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1.1070 aws-java-sdk-for-amazon-elastic-transcoder 1.11.508

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1.1084 aws-java-sdk-for-aws-budgets

1.11.155

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1.1086 aws-java-sdk-for-managed-streaming-for-kafka 1.11.508

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1.11.257

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  jar/com/mongodb/operation/FsyncUnlockOperation.java
* /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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  jar/com/mongodb/MongoCredential.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/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/ConnectionPoolOpenedEvent.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
  jar/org/bson/types/StringRangeSet.java
jar/org/bson/BSONCallback.java
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jar/org/bson/json/JsonWriter.java
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jar/org/bson/BSONCallbackAdapter.java
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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
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* /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
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* /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
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* /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
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* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/org/bson/codecs/RawBsonDocumentCodec.java
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* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1.jar/org/bson/codec/BsonDateTimeCodec.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1.jar/com/mongodb/connection/AsyncWriteableByteChannel.java
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* /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/com/mongodb/MongoCursorAdapter.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/com/mongodb/internal/validator/CollectibleDocumentFieldNameValidator.java
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* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1.jar/org/bson/LazyBSONObject.java
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- /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1.jar/com/mongodb/ParallelScanOptions.java
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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/com/mongodb/AggregationOptions.java
 * /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/connection/DefaultAuthenticator.java
 * /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/MongoNodeIsRecoveringException.java
 * /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
 * /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/MongoWriteException.java
 * /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/MongoWriteConcernException.java
 * /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/Tag.java
 * /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/TagSet.java
 * /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/binding/AbstractReferenceCounted.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/codecs/MultiLineStringCodec.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/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/Aggregates.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/client/model/geojson/MultiPolygon.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/event/CommandEvent.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/client/model/geojson/codecs/MultiPointCodec.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/codecs/MultiPolygonCodec.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/client/model/codecs/LineStringCodec.java
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* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/com/mongodb/assertions/Assertions.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/monster/package-info.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/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/codecs/configuration/package-info.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/diagnostics/logging/package-info.java

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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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* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/connection/InternalStreamConnection.java
* /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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* /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/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/ByteBuf.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/org/bson/BsonString.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

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* /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/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/BsonDocumentWrapper.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/org/bson/BsonDocument.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/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/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/BsonDocumentWrapper.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/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/com/mongodb/connection/InsertMessage.java
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* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-jar/com/mongodb/connection/KillCursorProtocol.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

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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
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 */
Returns an array containing all of the elements in this deque, in proper sequence (from first to last element).

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.

This method acts as bridge between array-based and collection-based APIs.

@return an array containing all of the elements in this deque

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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
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jar/com/mongodb/DBObjectCollationHelper.java
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jar/com/mongodb/client/model/DBCollectionDistinctOptions.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/com/mongodb/client/model/DBCollectionCountOptions.java
* /opt/cola/permits/1045558005_1611466581.4/0/mongo-java-driver-3-4-2-sources-1-
jar/com/mongodb/client/model/DBCollectionFindOptions.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/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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* /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/LocalIdentityRepository.java
* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/jce/HMAC.java

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* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2.jar/com/jcraft/jsch/jce/ARCFOUR.java
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* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/DH.java
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* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jce/RequestExec.java
* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jce/TripleDESCBC.java
* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jce/KeyPairDSA.java
* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jce/ChannelSftp.java
* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jce/BlowfishCBC.java
* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jce/KnownHosts.java
* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jce/RequestSignal.java
* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jce/Packet.java
* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jce/JSchPartialAuthException.java
* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jce/JSchException.java
* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jce/JSchAuthException.java
* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jce/SignatureDSA.java
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* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jce/KeyPairGenRSA.java
* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jce/UserInfo.java
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* /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/jcraft/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
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* /opt/cola/permits/1138640623_1614303137.56/0/jsch-0-1-55-sources-2-jar/com/jcraft/jsch/GSSContext.java

1.1091 aws-java-sdk-for-aws-datasync

1.11.508

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1.1093 jackson-databind 2.12.3
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(1)

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(2)

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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."

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1.1119 aws-sdk-java 1.11.155

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1.1120 rimraf 2.6.2

1.1121 aws-java-sdk-for-amazon-cognito-sync 1.11.172

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1.1122 htrace-core 4.1.0-incubating

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1.1123 aws-java-sdk-for-aws-s3-control

1.11.555

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1.1129 core-js 2.5.7

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1.1130 d3-random 1.1.0

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Manifest-Version: 1.0
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Build-Date: $[timestamp]
Bundle-SymbolicName: com.nimbusds.nimbus-jose-jwt
Build-Number: $[buildNumber]
Built-By: vd
Bnd-LastModified: 163377726111
Specification-Title: Nimbus JOSE+JWT
Implementation-Vendor-Id: com.nimbusds
Bundle-DocURL: https://connect2id.com

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
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1.1148 aws-java-sdk-for-the-amazon-ec2-container-registry 1.11.172

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   analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java
   analysis/common/src/java/org/apache/lucene/analysis/fi/FinnishLightStemmer.java
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*/
/**
 * Creates a new secret. A secret in Secrets Manager consists of both the protected secret data and the important
 * information needed to manage the secret.
 * </p>
 * <p>
 * Secrets Manager stores the encrypted secret data in one of a collection of "versions" associated with the secret.
 * Each version contains a copy of the encrypted secret data. Each version is associated with one or more
 * "staging labels" that identify where the version is in the rotation cycle. The
 * <code>SecretVersionsToStages</code> field of the secret contains the mapping of staging labels to the active
 * versions of the secret. Versions without a staging label are considered deprecated and are not included in the
 * list.
 * </p>
 * <p>
 * You provide the secret data to be encrypted by putting text in either the <code>SecretString</code> parameter
 * or
 * binary data in the <code>SecretBinary</code> parameter, but not both. If you include
 * <code>SecretString</code> or
 * <code>SecretBinary</code> then Secrets Manager also creates an initial secret version and automatically
 * attaches
 * the staging label <code>AWSCURRENT</code> to the new version.
 * </p>
 */
* If you call an operation that needs to encrypt or decrypt the <code>SecretString</code> or <code>SecretBinary</code> for a secret in the same account as the calling user and that secret doesn't specify an AWS KMS encryption key, Secrets Manager uses the account's default AWS managed customer master key (CMK) with the alias <code>aws/secretsmanager</code>. If this key doesn't already exist in your account then Secrets Manager creates it for you automatically. All users and roles in the same AWS account automatically have access to use the default CMK. Note that if an Secrets Manager API call results in AWS having to create the account's AWS-managed CMK, it can result in a one-time significant delay in returning the result.

* If the secret is in a different AWS account from the credentials calling an API that requires encryption or decryption of the secret value then you must create and use a custom AWS KMS CMK because you can't access the default CMK for the account using credentials from a different AWS account. Store the ARN of the CMK in the secret when you create the secret or when you update it by including it in the <code>KMSKeyId</code>. If you call an API that must encrypt or decrypt <code>SecretString</code> or <code>SecretBinary</code> using credentials from a different account then the AWS KMS key policy must grant cross-account access to that other account's user or role for both the kms:GenerateDataKey and kms:Decrypt operations.

* To run this command, you must have the following permissions:

  * secretsmanager:CreateSecret
  * kms:GenerateDataKey - needed only if you use a customer-managed AWS KMS key to encrypt the secret. You do not need this permission to use the account's default AWS managed CMK for Secrets Manager.
* <li>
* <p>
* kms:Decrypt - needed only if you use a customer-managed AWS KMS key to encrypt the secret. You do not need this permission to use the account's default AWS managed CMK for Secrets Manager.
* </p>
* </li>
* <li>
* <p>
* secretsmanager:TagResource - needed only if you include the <code>Tags</code> parameter.
* </p>
* </li>
* </ul>
* <p>
* Related operations</p>
* </p>
* <ul>
* <li>
* <p>
* To delete a secret, use <a>DeleteSecret</a>.
* </p>
* </li>
* <li>
* <p>
* To modify an existing secret, use <a>UpdateSecret</a>.
* </p>
* </li>
* <li>
* <p>
* To create a new version of a secret, use <a>PutSecretValue</a>.
* </p>
* </li>
* <li>
* <p>
* To retrieve the encrypted secure string and secure binary values, use <a>GetSecretValue</a>.
* </p>
* </li>
* <li>
* <p>
* To retrieve all other details for a secret, use <a>DescribeSecret</a>. This does not include the encrypted secure string and secure binary values.
* </p>
* </li>
* <li>
* <p>
* To retrieve the list of secret versions associated with the current secret, use <a>DescribeSecret</a> and examine the <code>SecretVersionsToStages</code> response value.
* </p>
* </li>
* @param createSecretRequest
* @return A Java Future containing the result of the CreateSecret operation returned by the service.
* @sample AWSSecretsManagerAsync.CreateSecret
* @see <a href="http://docs.aws.amazon.com/goto/WebAPI/secretsmanager-2017-10-17/CreateSecret" target="_top">AWS API Documentation</a>
*/
/**
 * Stores a new encrypted secret value in the specified secret. To do this, the operation creates a new version and
 * attaches it to the secret. The version can contain a new <code>SecretString</code> value or a new
 * <code>SecretBinary</code> value. You can also specify the staging labels that are initially attached to the new
 * version.
 * </p>
 * <note>
 * The Secrets Manager console uses only the <code>SecretString</code> field. To add binary data to a secret with
 * the <code>SecretBinary</code> field you must use the AWS CLI or one of the AWS SDKs.
 * </note>
 */

* If this operation creates the first version for the secret then Secrets Manager automatically attaches the
 * staging label <code>AWSCURRENT</code> to the new version.
* </p>
* </li>
* <li>
* <p>
* If another version of this secret already exists, then this operation does not automatically move any staging
 * labels other than those that you explicitly specify in the <code>VersionStages</code> parameter.
* </p>
* </li>
* <li>
* <p>
* If this operation moves the staging label <code>AWSCURRENT</code> from another version to this version (because
 * you included it in the <code>StagingLabels</code> parameter) then Secrets Manager also automatically moves the
 * staging label <code>AWSPREVIOUS</code> to the version that <code>AWSCURRENT</code> was removed from.
* </p>
* </li>
This operation is idempotent. If a version with a `<code>VersionId</code>` with the same value as the `<code>ClientRequestToken</code>` parameter already exists and you specify the same secret data, the operation succeeds but does nothing. However, if the secret data is different, then the operation fails because you cannot modify an existing version; you can only create new ones.

If you call an operation that needs to encrypt or decrypt the `<code>SecretString</code>` or `<code>SecretBinary</code>` for a secret in the same account as the calling user and that secret doesn't specify a AWS KMS encryption key, Secrets Manager uses the account's default AWS managed customer master key (CMK) with the alias `<code>aws/secretsmanager</code>`. If this key doesn't already exist in your account then Secrets Manager creates it for you automatically. All users and roles in the same AWS account automatically have access to use the default CMK. Note that if an Secrets Manager API call results in AWS having to create the account's AWS-managed CMK, it can result in a one-time significant delay in returning the result.

If the secret is in a different AWS account from the credentials calling an API that requires encryption or decryption of the secret value then you must create and use a custom AWS KMS CMK because you can't access the default CMK for the account using credentials from a different AWS account. Store the ARN of the CMK in the secret when you create the secret or when you update it by including it in the `<code>KMSKeyId</code>`. If you call an API that must encrypt or decrypt `<code>SecretString</code>` or `<code>SecretBinary</code>` using credentials from a different account then the AWS KMS key policy must grant cross-account access to that other account's user or role for both the `kms:GenerateDataKey` and `kms:Decrypt` operations.
* secretsmanager:PutSecretValue

* @param putSecretValueRequest
* @return A Java Future containing the result of the PutSecretValue operation returned by the service.
* @sample AWS Secrets Manager Async.PutSecretValue
* @see <a href="http://docs.aws.amazon.com/goto/WebAPI/secretsmanager-2017-10-17/PutSecretValue" target="_top">AWS API Documentation</a>

*/

/**
* Modifies many of the details of the specified secret. If you include a <code>ClientRequestToken</code> and
* either `<code>SecretString</code>` or `<code>SecretBinary</code>` then it also creates a new version attached
* to the secret.
* </p>
* </p>
* To modify the rotation configuration of a secret, use `<a>RotateSecret</a>` instead.
* </p>
* </note>
* </ul>
* The Secrets Manager console uses only the `<code>SecretString</code>` parameter and therefore limits you to
* encrypting and storing only a text string. To encrypt and store binary data as part of the version of a secret,
* you must use either the AWS CLI or one of the AWS SDKs.
* </p>
* </note>
* <ul>
* <li>
* If a version with a `<code>VersionId</code>` with the same value as the `<code>ClientRequestToken</code>` parameter
* already exists, the operation results in an error. You cannot modify an existing version, you can only create a
* new version.
* </li>
* </li>
* </ul>
* If you include `<code>SecretString</code>` or `<code>SecretBinary</code>` to create a new secret version, Secrets
* Manager automatically attaches the staging label `<code>AWSCURRENT</code>` to the new version.
* </p>
* </li>
* </ul>
* If you call an operation that needs to encrypt or decrypt the `<code>SecretString</code>` or
* `<code>SecretBinary</code>` for a secret in the same account as the calling user and that secret doesn't specify a
* AWS KMS encryption key, Secrets Manager uses the account's default AWS managed customer master key (CMK) with the
* alias `<code>aws/secretsmanager</code>`. If this key doesn't already exist in your account then Secrets Manager
* creates it for you automatically. All users and roles in the same AWS account automatically have access to use
* the default CMK. Note that if an Secrets Manager API call results in AWS having to create the account's
* AWS-managed CMK, it can result in a one-time significant delay in returning the result.
* </p>
* </li>
* </ul>
* If the secret is in a different AWS account from the credentials calling an API that requires encryption or
decryption of the secret value then you must create and use a custom AWS KMS CMK because you can't access the
default CMK for the account using credentials from a different AWS account. Store the ARN of the CMK in the
secret when you create the secret or when you update it by including it in the `<code>KMSKeyId</code>`. If you call
an API that must encrypt or decrypt `<code>SecretString</code>` or `<code>SecretBinary</code>` using credentials from
a different account then the AWS KMS key policy must grant cross-account access to that other account's user or
role for both the `<code>kms:GenerateDataKey</code>` and `<code>kms:Decrypt</code>` operations.

To run this command, you must have the following permissions:

- `<code>secretsmanager:UpdateSecret</code>`
- `<code>kms:GenerateDataKey</code>` - needed only if you use a custom AWS KMS key to encrypt the secret. You do not need this permission to use the account's AWS managed CMK for Secrets Manager.
- `<code>kms:Decrypt</code>` - needed only if you use a custom AWS KMS key to encrypt the secret. You do not need this permission to use the account's AWS managed CMK for Secrets Manager.

To create a new secret, use `<a>CreateSecret</a>`.
To add only a new version to an existing secret, use `<a>PutSecretValue</a>`.

To get the details for a secret, use `<a>DescribeSecret</a>`.

To list the versions contained in a secret, use `<a>ListSecretVersionIds</a>`.

@sample AWSSecretsManagerAsync.UpdateSecret

@see <a href="http://docs.aws.amazon.com/goto/WebAPI/secretsmanager-2017-10-17/UpdateSecret" target="_top">AWS API Documentation</a>

*/

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*/
* /opt/cola/permits/1239934125_1639109076.69/0/aws-java-sdk-secretsmanager-1-11-555-sources.jar/com/amazonaws/services/secretsmanager/model/transform/UpdateSecretRequestMarshaller.java
* /opt/cola/permits/1239934125_1639109076.69/0/aws-java-sdk-secretsmanager-1-11-555-sources.jar/com/amazonaws/services/secretsmanager/model/ListSecretVersionIdsRequest.java
* /opt/cola/permits/1239934125_1639109076.69/0/aws-java-sdk-secretsmanager-1-11-555-sources.jar/com/amazonaws/services/secretsmanager/model/GetSecretValueResult.java
* /opt/cola/permits/1239934125_1639109076.69/0/aws-java-sdk-secretsmanager-1-11-555-sources.jar/com/amazonaws/services/secretsmanager/model/RotationRulesType.java
* /opt/cola/permits/1239934125_1639109076.69/0/aws-java-sdk-secretsmanager-1-11-555-sources.jar/com/amazonaws/services/secretsmanager/model/transform/DeleteSecretResultJsonUnmarshaller.java
* /opt/cola/permits/1239934125_1639109076.69/0/aws-java-sdk-secretsmanager-1-11-555-sources.jar/com/amazonaws/services/secretsmanager/model/transform/RestoreSecretRequestMarshaller.java
* /opt/cola/permits/1239934125_1639109076.69/0/aws-java-sdk-secretsmanager-1-11-555-sources.jar/com/amazonaws/services/secretsmanager/model/transform/TagJsonUnmarshaller.java
* /opt/cola/permits/1239934125_1639109076.69/0/aws-java-sdk-secretsmanager-1-11-555-sources.jar/com/amazonaws/services/secretsmanager/model/PutSecretValueResult.java
* /opt/cola/permits/1239934125_1639109076.69/0/aws-java-sdk-secretsmanager-1-11-555-sources.jar/com/amazonaws/services/secretsmanager/model/transform/GetRandomPasswordResult.java
* /opt/cola/permits/1239934125_1639109076.69/0/aws-java-sdk-secretsmanager-1-11-555-sources.jar/com/amazonaws/services/secretsmanager/model/TransformException.java
* /opt/cola/permits/1239934125_1639109076.69/0/aws-java-sdk-secretsmanager-1-11-555-sources.jar/com/amazonaws/services/secretsmanager/model/transform/SecretVersionsListEntryJsonUnmarshaller.java
* /opt/cola/permits/1239934125_1639109076.69/0/aws-java-sdk-secretsmanager-1-11-555-sources.jar/com/amazonaws/services/secretsmanager/model/transform/CreateSecretRequestProtocolMarshaller.java
* /opt/cola/permits/1239934125_1639109076.69/0/aws-java-sdk-secretsmanager-1-11-555-sources.jar/com/amazonaws/services/secretsmanager/model/EncryptResult.json
* /opt/cola/permits/1239934125_1639109076.69/0/aws-java-sdk-secretsmanager-1-11-555-sources.jar/com/amazonaws/services/secretsmanager/model/GetSecretValueRequestMarshaller.java
jar/com/amazonaws/services/secretsmanager/model/TagResourceRequest.java
* /opt/cola/permits/1239934125_1639109076.69/0/aws-java-sdk-secretsmanager-1-11-555-sources-
jar/com/amazonaws/services/secretsmanager/model/transform/SecretVersionsListEntryMarshaller.java
* /opt/cola/permits/1239934125_1639109076.69/0/aws-java-sdk-secretsmanager-1-11-555-sources-
jar/com/amazonaws/services/secretsmanager/model/transform/GetRandomPasswordResultJsonUnmarshaller.java
* /opt/cola/permits/1239934125_1639109076.69/0/aws-java-sdk-secretsmanager-1-11-555-sources-
jar/com/amazonaws/services/secretsmanager/model/transform/ListSecretsRequestProtocolMarshaller.java
* /opt/cola/permits/1239934125_1639109076.69/0/aws-java-sdk-secretsmanager-1-11-555-sources-
jar/com/amazonaws/services/secretsmanager/model/transform/DescribeSecretRequestProtocolMarshaller.java
* /opt/cola/permits/1239934125_1639109076.69/0/aws-java-sdk-secretsmanager-1-11-555-sources-
jar/com/amazonaws/services/secretsmanager/model/transform/UntagResourceResultJsonUnmarshaller.java
* /opt/cola/permits/1239934125_1639109076.69/0/aws-java-sdk-secretsmanager-1-11-555-sources-
jar/com/amazonaws/services/secretsmanager/model/transform/CreateSecretResultJsonUnmarshaller.java
* /opt/cola/permits/1239934125_1639109076.69/0/aws-java-sdk-secretsmanager-1-11-555-sources-
jar/com/amazonaws/services/secretsmanager/model/transform/PutResourcePolicyResultJsonUnmarshaller.java
* /opt/cola/permits/1239934125_1639109076.69/0/aws-java-sdk-secretsmanager-1-11-555-sources-
jar/com/amazonaws/services/secretsmanager/model/transform/DescribeSecretResultJsonUnmarshaller.java
* /opt/cola/permits/1239934125_1639109076.69/0/aws-java-sdk-secretsmanager-1-11-555-sources-
jar/com/amazonaws/services/secretsmanager/model/transform/ListSecretVersionIdsRequestProtocolMarshaller.java
* /opt/cola/permits/1239934125_1639109076.69/0/aws-java-sdk-secretsmanager-1-11-555-sources-
jar/com/amazonaws/services/secretsmanager/model/transform/UpdateSecretResultJsonUnmarshaller.java
* /opt/cola/permits/1239934125_1639109076.69/0/aws-java-sdk-secretsmanager-1-11-555-sources-
jar/com/amazonaws/services/secretsmanager/model/transform/UpdateSecretVersionStageRequestProtocolMarshaller.java

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*/

/**
 * <p>
 * Creates a new secret. A secret in Secrets Manager consists of both the protected secret data and the important
 * information needed to manage the secret.
 * </p>
 * <p>
 * Secrets Manager stores the encrypted secret data in one of a collection of "versions" associated with the secret.
 * Each version contains a copy of the encrypted secret data. Each version is associated with one or more
 * "staging labels" that identify where the version is in the rotation cycle. The
 * <code>SecretVersionsToStages</code> field of the secret contains the mapping of staging labels to the active
 * versions of the secret. Versions without a staging label are considered deprecated and are not included in the
 * list.
 * </p>
 * <p>
 * You provide the secret data to be encrypted by putting text in either the <code>SecretString</code> parameter or
 * binary data in the <code>SecretBinary</code> parameter, but not both. If you include
 * <code>SecretString</code> or
 * <code>SecretBinary</code> then Secrets Manager also creates an initial secret version and automatically
 * attaches
 * the staging label <code>AWSCURRENT</code> to the new version.
 * </p>
 */
* `<code>SecretBinary</code>` for a secret in the same account as the calling user and that secret doesn't specify a
* AWS KMS encryption key, Secrets Manager uses the account's default AWS managed customer master key (CMK) with the
* alias `<code>aws/secretsmanager</code>`. If this key doesn't already exist in your account then Secrets Manager
* creates it for you automatically. All users and roles in the same AWS account automatically have access to use
* the default CMK. Note that if an Secrets Manager API call results in AWS having to create the account's
* AWS-managed CMK, it can result in a one-time significant delay in returning the result.

* </p>
* </li>
* </li>
* </p>
* If the secret is in a different AWS account from the credentials calling an API that requires encryption or
* decryption of the secret value then you must create and use a custom AWS KMS CMK because you can't access the
* default CMK for the account using credentials from a different AWS account. Store the ARN of the CMK in the
* secret when you create the secret or when you update it by including it in the `<code>KMSKeyId</code>`. If you call
* an API that must encrypt or decrypt `<code>SecretString</code>` or `<code>SecretBinary</code>` using credentials from
* a different account then the AWS KMS key policy must grant cross-account access to that other account's user or
* role for both the `kms:GenerateDataKey` and `kms:Decrypt` operations.

* </p>
* </li>
* </li>
* </p>
* </li>
* </ul>
* </note>
* </p>
* </p>
* <b>Minimum permissions</b>

* To run this command, you must have the following permissions:

* </p>
* </ul>
* </li>
* </li>
* </li>
* </p>
* `secretsmanager:CreateSecret`

* </p>
* </li>
* </li>
* </li>
* </p>
* `kms:GenerateDataKey` - needed only if you use a customer-managed AWS KMS key to encrypt the secret. You do not
* need this permission to use the account's default AWS managed CMK for Secrets Manager.
<p>kms:Decrypt - needed only if you use a customer-managed AWS KMS key to encrypt the secret. You do not need this permission to use the account's default AWS managed CMK for Secrets Manager.</p>

<ol>
  <li>secretsmanager:TagResource - needed only if you include the <code>Tags</code> parameter.</li>
</ol>

<b>Related operations</b>

- To delete a secret, use <a>DeleteSecret</a>.
- To modify an existing secret, use <a>UpdateSecret</a>.
- To create a new version of a secret, use <a>PutSecretValue</a>.
- To retrieve the encrypted secure string and secure binary values, use <a>GetSecretValue</a>.
- To retrieve all other details for a secret, use <a>DescribeSecret</a>. This does not include the encrypted secure string and secure binary values.
- To retrieve the list of secret versions associated with the current secret, use <a>DescribeSecret</a> and examine the <code>SecretVersionsToStages</code> response value.
@param createSecretRequest
@return Result of the CreateSecret operation returned by the service.
@throws InvalidParameterException
  You provided an invalid value for a parameter.
@throws InvalidRequestException
  You provided a parameter value that is not valid for the current state of the resource.
  <p>Possible causes:</p>
  <li>You tried to perform the operation on a secret that's currently marked deleted.</li>
  <li>You tried to enable rotation on a secret that doesn't already have a Lambda function ARN configured and you didn't include such an ARN as a parameter in this call.</li>
@throws LimitExceededException
  The request failed because it would exceed one of the Secrets Manager internal limits.
@throws EncryptionFailureException
  Secrets Manager can't encrypt the protected secret text using the provided KMS key.
  Check that the customer master key (CMK) is available, enabled, and not in an invalid state.
  For more information, see <a href="http://docs.aws.amazon.com/kms/latest/developerguide/key-state.html">How Key State Affects Use of a Customer Master Key</a>.
@throws ResourceExistsException
  A resource with the ID you requested already exists.
@throws ResourceNotFoundException
  We can't find the resource that you asked for.
@throws MalformedPolicyDocumentException
  The policy document that you provided isn't valid.
@throws InternalServiceErrorException
  An error occurred on the server side.
@throws PreconditionNotMetException
  The request failed because you did not complete all the prerequisite steps.
@sample AWSSecretsManager.CreateSecret
@see <a href="http://docs.aws.amazon.com/goto/WebAPI/secretsmanager-2017-10-17/CreateSecret" target="_top">AWS API Documentation</a>
* Stores a new encrypted secret value in the specified secret. To do this, the operation creates a new version and
* attaches it to the secret. The version can contain a new `<code>SecretString</code>` value or a new
* `<code>SecretBinary</code>` value. You can also specify the staging labels that are initially attached to the new
* version.
* </p>
* </code>
* </note>
* </p>
* The Secrets Manager console uses only the `<code>SecretString</code>` field. To add binary data to a secret
* with
* the `<code>SecretBinary</code>` field you must use the AWS CLI or one of the AWS SDKs.
* </p>
* </code>
* </li>
* </p>
* If this operation creates the first version for the secret then Secrets Manager automatically attaches the
* staging label `<code>AWSCURRENT</code>` to the new version.
* </p>
* </code>
* </li>
* </p>
* If another version of this secret already exists, then this operation does not automatically move any staging
* labels other than those that you explicitly specify in the `<code>VersionStages</code>` parameter.
* </p>
* </code>
* </li>
* </p>
* If this operation moves the staging label `<code>AWSCURRENT</code>` from another version to this version
* (because
* you included it in the `<code>StagingLabels</code>` parameter) then Secrets Manager also automatically moves the
* staging label `<code>AWSPREVIOUS</code>` to the version that `<code>AWSCURRENT</code>` was removed from.
* </p>
* </code>
* </li>
* </p>
* This operation is idempotent. If a version with a `<code>VersionId</code>` with the same value as the
* `<code>ClientRequestToken</code>` parameter already exists and you specify the same secret data, the operation
* succeeds but does nothing. However, if the secret data is different, then the operation fails because you cannot
* modify an existing version; you can only create new ones.
If you call an operation that needs to encrypt or decrypt the `SecretString` or `SecretBinary` for a secret in the same account as the calling user and that secret doesn't specify a AWS KMS encryption key, Secrets Manager uses the account's default AWS managed customer master key (CMK) with the alias `aws/secretsmanager`. If this key doesn't already exist in your account then Secrets Manager creates it for you automatically. All users and roles in the same AWS account automatically have access to use the default CMK. Note that if an Secrets Manager API call results in AWS having to create the account's AWS-managed CMK, it can result in a one-time significant delay in returning the result.

If the secret is in a different AWS account from the credentials calling an API that requires encryption or decryption of the secret value then you must create and use a custom AWS KMS CMK because you can't access the default CMK for the account using credentials from a different AWS account. Store the ARN of the CMK in the secret when you create the secret or when you update it by including it in the `KMSKeyId`. If you call an API that must encrypt or decrypt `SecretString` or `SecretBinary` using credentials from a different account then the AWS KMS key policy must grant cross-account access to that other account's user or role for both the `kms:GenerateDataKey` and `kms:Decrypt` operations.

To run this command, you must have the following permissions:

- `secretsmanager:PutSecretValue`
- `kms:GenerateDataKey` - needed only if you use a customer-managed AWS KMS key to encrypt the secret. You do not need this permission to use the account's default AWS managed CMK for Secrets Manager.
Related operations

- To retrieve the encrypted value you store in the version of a secret, use `<a>GetSecretValue</a>`.
- To create a secret, use `<a>CreateSecret</a>`.
- To get the details for a secret, use `<a>DescribeSecret</a>`.
- To list the versions attached to a secret, use `<a>ListSecretVersionIds</a>`.

```java
@throws InvalidParameterException
    You provided an invalid value for a parameter.
@throws InvalidRequestException
    You provided a parameter value that is not valid for the current state of the resource.
    Possible causes:
    - You tried to perform the operation on a secret that's currently marked deleted.
    - You tried to enable rotation on a secret that doesn't already have a Lambda function ARN configured and
      you didn't include such an ARN as a parameter in this call.
@throws LimitExceededException
```
The request failed because it would exceed one of the Secrets Manager internal limits.

@throws EncryptionFailureException
Secrets Manager can't encrypt the protected secret text using the provided KMS key. Check that the customer master key (CMK) is available, enabled, and not in an invalid state. For more information, see <a href="http://docs.aws.amazon.com/kms/latest/developerguide/key-state.html">How Key State Affects Use of a Customer Master Key</a>.

@throws ResourceExistsException
A resource with the ID you requested already exists.

@throws ResourceNotFoundException
We can't find the resource that you asked for.

@throws InternalServiceErrorException
An error occurred on the server side.

@sample AWSSecretsManager.PutSecretValue
@see <a href="http://docs.aws.amazon.com/goto/WebAPI/secretsmanager-2017-10-17/PutSecretValue" target="_top">AWS API Documentation</a>

/*
**
* Modifies many of the details of the specified secret. If you include a <code>ClientRequestToken</code> and either <code>SecretString</code> or <code>SecretBinary</code> then it also creates a new version attached to the secret.
* To modify the rotation configuration of a secret, use <a>RotateSecret</a> instead.
* The Secrets Manager console uses only the <code>SecretString</code> parameter and therefore limits you to encrypting and storing only a text string. To encrypt and store binary data as part of the version of a secret, you must use either the AWS CLI or one of the AWS SDKs.
* If a version with a <code>VersionId</code> with the same value as the <code>ClientRequestToken</code> parameter already exists, the operation results in an error. You cannot modify an existing version, you can only create a new version.
* If you include <code>SecretString</code> or <code>SecretBinary</code> to create a new secret version, Secrets...
Manager automatically attaches the staging label `<code>AWSCURRENT</code>` to the new version.

If you call an operation that needs to encrypt or decrypt the `<code>SecretString</code>` or `<code>SecretBinary</code>` for a secret in the same account as the calling user and that secret doesn't specify a AWS KMS encryption key, Secrets Manager uses the account's default AWS managed customer master key (CMK) with the alias `<code>aws/secretsmanager</code>`. If this key doesn't already exist in your account then Secrets Manager creates it for you automatically. All users and roles in the same AWS account automatically have access to use the default CMK. Note that if an Secrets Manager API call results in AWS having to create the account's AWS-managed CMK, it can result in a one-time significant delay in returning the result.

If the secret is in a different AWS account from the credentials calling an API that requires encryption or decryption of the secret value then you must create and use a custom AWS KMS CMK because you can't access the default CMK for the account using credentials from a different AWS account. Store the ARN of the CMK in the secret when you create the secret or when you update it by including it in the `<code>KMSKeyId</code>`.

If you call an API that must encrypt or decrypt `<code>SecretString</code>` or `<code>SecretBinary</code>` using credentials from a different account then the AWS KMS key policy must grant cross-account access to that other account's user or role for both the `kms:GenerateDataKey` and `kms:Decrypt` operations.

To run this command, you must have the following permissions:

```
* secretsmanager:UpdateSecret
```
* <p>
* kms:GenerateDataKey - needed only if you use a custom AWS KMS key to encrypt the secret. You do not need this
* permission to use the account's AWS managed CMK for Secrets Manager.
* </p>
* </li>
* </li>
* </li>

* kms:Decrypt - needed only if you use a custom AWS KMS key to encrypt the secret. You do not need this permission
* to use the account's AWS managed CMK for Secrets Manager.
* </li>

* </p>

* Related operations</b>

* </p>

* To create a new secret, use &lt;a&gt;CreateSecret&lt;/a&gt;.

* </p>

* To add only a new version to an existing secret, use &lt;a&gt;PutSecretValue&lt;/a&gt;.

* </p>

* To get the details for a secret, use &lt;a&gt;DescribeSecret&lt;/a&gt;.

* </p>

* To list the versions contained in a secret, use &lt;a&gt;ListSecretVersionIds&lt;/a&gt;.

* @param updateSecretRequest
* @return Result of the UpdateSecret operation returned by the service.
* @throws InvalidParameterException
*         You provided an invalid value for a parameter.
* @throws InvalidRequestException
*         You provided a parameter value that is not valid for the current state of the resource.&lt;/p&gt;
* @param updateSecretRequest
* @return Result of the UpdateSecret operation returned by the service.
* @throws InvalidParameterException
*         You provided an invalid value for a parameter.
* @throws InvalidRequestException
*         You provided a parameter value that is not valid for the current state of the resource.&lt;/p&gt;
* @param updateSecretRequest
* @return Result of the UpdateSecret operation returned by the service.
* @throws InvalidParameterException
*         You provided an invalid value for a parameter.
* @throws InvalidRequestException
*         You provided a parameter value that is not valid for the current state of the resource.&lt;/p&gt;
* @param updateSecretRequest
* @return Result of the UpdateSecret operation returned by the service.
* @throws InvalidParameterException
*         You provided an invalid value for a parameter.
* @throws InvalidRequestException
*         You provided a parameter value that is not valid for the current state of the resource.&lt;/p&gt;
* @param updateSecretRequest
* @return Result of the UpdateSecret operation returned by the service.
* @throws InvalidParameterException
*         You provided an invalid value for a parameter.
* @throws InvalidRequestException
*         You provided a parameter value that is not valid for the current state of the resource.&lt;/p&gt;
* @param updateSecretRequest
* @return Result of the UpdateSecret operation returned by the service.
* @throws InvalidParameterException
*         You provided an invalid value for a parameter.
* @throws InvalidRequestException
*         You provided a parameter value that is not valid for the current state of the resource.&lt;/p&gt;
* @param updateSecretRequest
* @return Result of the UpdateSecret operation returned by the service.
* @throws InvalidParameterException
*         You provided an invalid value for a parameter.
* @throws InvalidRequestException
*         You provided a parameter value that is not valid for the current state of the resource.&lt;/p&gt;
* @param updateSecretRequest
* @return Result of the UpdateSecret operation returned by the service.
* @throws InvalidParameterException
*         You provided an invalid value for a parameter.
* @throws InvalidRequestException
*         You provided a parameter value that is not valid for the current state of the resource.&lt;/p&gt;
You tried to perform the operation on a secret that's currently marked deleted.

You tried to enable rotation on a secret that doesn't already have a Lambda function ARN configured and you didn't include such an ARN as a parameter in this call.

@throws LimitExceededException
 The request failed because it would exceed one of the Secrets Manager internal limits.

@throws EncryptionFailureException
 Secrets Manager can't encrypt the protected secret text using the provided KMS key. Check that the customer master key (CMK) is available, enabled, and not in an invalid state. For more information, see <a href="http://docs.aws.amazon.com/kms/latest/developerguide/key-state.html">How Key State Affects Use of a Customer Master Key</a>.

@throws ResourceExistsException
 A resource with the ID you requested already exists.

@throws ResourceNotFoundException
 We can't find the resource that you asked for.

@throws MalformedPolicyDocumentException
 The policy document that you provided isn't valid.

@throws InternalServiceErrorException
 An error occurred on the server side.

@throws PreconditionNotMetException
 The request failed because you did not complete all the prerequisite steps.

@sample AWSSecretsManager.UpdateSecret

@see <a href="http://docs.aws.amazon.com/goto/WebAPI/secretsmanager-2017-10-17/UpdateSecret" target="_top">AWS API Documentation</a>

*/
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1.1194 jlayer 1.0.1-1

1.1195 aws-java-sdk-for-amazon-elastic-container-service-for-kubernetes 1.11.555

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1.1197 aws-java-sdk-for-the-amazon-ec2-container-registry 1.11.508

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1.1205 aws-java-sdk-for-amazon-elastic-transcoder 1.11.555

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1.1206 jackson-core 2.12.3

1.1206.1 Available under license:
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1.1217 nanohttpd-core 2.3.1

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1.1218 aws-java-sdk-for-aws-resource-access-manager 1.11.555

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1.1231 es6-promise 3.0.2

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1.1232 aws-java-sdk-for-amazon-sqs 1.11.172

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1.11.155

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1.1238 readable-stream 2.3.6
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1.1239 aws-java-sdk-for-amazon-fsx 1.11.508

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<li>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 <em>must</em> provide a mapping to one of the basic or derived types listed above.

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1.11.508

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  jar/com/nimbusds/jose/crypto/factories/DefaultJWSSignerFactory.java

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Amendment III

No soldier shall, in time of peace be quartered in any house, without the consent of the owner, nor in time of war,
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Amendment IV

The right of the people to be secure in their persons, houses, papers, and effects, against unreasonable searches and
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org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

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Version: GnuPG v1.0.7 (GNU/Linux)
iD8DBQFE85cgaqFri/CIrIRAmuJAKCFgi4W0UOH8IUn+SV6PBHRF3BnLgCcDqqC
Z0kttk0bTHfwaa5TtxQbScw=
=N/w/
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Version: GnuPG v1.4.3 (GNU/Linux)

iD8DBQFFoniQJVhlFus9dGQRAmJmAJwL5y1loonhVQIICsparvJHMQuwqwCgiZFy
LBDVaad1bJ1v1EHY901kPcg=
=6rqm
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E-Mail: thomas.becker00@googlemail.com
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Date: 2012-07-17
Please sign:

-----BEGIN PGP SIGNATURE-----
Version: GnuPG v1.4.10 (GNU/Linux)
iQEcBAEBAgAGH7jZAPaLDtDiDz7ucdRL1RDoB4VIF2+tbKeBYQquZexXiExEghz+tKriK30M12guFkNDteQp9h2p3Zu9JU3K0y4m84IDWq72HRmh1nRyD6izZFhDGZ/D+69IFtgYG0FwEit0OMAg/lRbsXHLPBOY+Jyh/Xy+QRnqTC/AGQ+tAgOl/d3w+J5s2GdesYL AJQQacLeGh7EzD3F+CKuiwT4c5ub64LdXSIAYj1u2OjzBfqLaJ3FA60TIo+i3knFNWKpzaeX+SQgMak6hsuatXi6EsVkJ6IakswEgl6+Xk+HYWy23ZQ8BKQLK0ZTw= =gAqN
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Version: GnuPG v1.4.1 (Darwin)
iD8DBQFD37/4dL6IZr4c+6kRAtslAJ41td3lj4OM6sIMfJfTODydT1bxwCdGgWv8sfMxEDZqulqhVbfZU2c76U=
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Version: GnuPG v1.4.4 (MingW32)
iD8DBQFet1ZxHR/ESK2w6H8RApbOAJ9c1eooNtr2oN59WZVitJExGjUvKgCfaKji6etDJ6AUj0jTuSf9hUsWMQ=
=HmqH
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Date:

Signature:

Name: Gordon King

Positions: Chief Operational Officer

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<table>
<thead>
<tr>
<th>Name</th>
<th>Date added</th>
</tr>
</thead>
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<tr>
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<td>12 September 2006</td>
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Full name: Julian Anthony Fox Gosnell  
E-Mail: jules@coredevelopers.net  
Mailing Address: 2, Tannery Cottages, Tannery Lane, Bramley, Surrey, GU5 0AB, UK.

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* parquet-hadoop's UnmaterializableRecordCounter.java includes code from
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  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: maxogden
VendorUrl: https://github.com/maxogden/extract-zip
github-url-from-username-repo@1.0.2
URL: git@git.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
regjsparsers@0.1.5
URL: git@github.com:jviereck/regjsparsers.git
VendorName: 'Julian Viereck'
VendorUrl: https://github.com/jviereck/regjsparsers
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/hook
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@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 Munteanu
VendorUrl: http://alexei.ro/
sprintf-js@1.1.2
URL: https://github.com/alexei/sprintf.js.git
VendorName: Alexandru Munteanu
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
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VendorName: Jeremy Stashewsky
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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/kpdecker/jsdiff/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
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VendorName: Rebecca Turner
VendorUrl: https://github.com/iarna/are-we-there-yet
are-we-there-yet@1.1.5
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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
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VendorName: Isaac Z. Schlueter
VendorUrl: http://blog.izs.me/
block-stream@0.0.9
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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
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VendorName: Isaac Z. Schlueter
VendorUrl: http://blog.izs.me/
chownr@1.0.1
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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: 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
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VendorName: Forrest L Norvell
VendorUrl: https://github.com/npm/fs-vacuum
fs-write-stream-atomic@1.0.10
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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
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VendorName: Isaac Z. Schlueter
VendorUrl: http://blog.izs.me/
fstream-npm@1.0.7
URL: https://github.com/npm/fstream-npm.git
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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
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VendorUrl: https://github.com/stefanpenner/get-caller-file#readme
glob-parent@2.0.0
URL: https://github.com/es128/glob-parent
VendorName: Elan Shanker
glob@4.3.5
URL: git://github.com/isaacs/node-glob.git
VendorName: Isaac Z. Schlueter
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glob@4.5.3
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VendorName: Isaac Z. Schlueter
VendorUrl: http://blog.izs.me/
glob@5.0.13
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glob@5.0.15
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VendorUrl: http://blog.izs.me/
glob@6.0.4
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VendorUrl: http://blog.izs.me/
glob@7.1.6
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graceful-fs@3.0.12
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graceful-fs@4.1.15
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graceful-fs@4.2.3
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har-schema@1.0.5
URL: https://github.com/ahmadnassri/har-schema.git
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VendorUrl: https://github.com/ahmadnassri/har-schema
har-schema@2.0.0
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har-validator@2.0.6
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har-validator@4.2.1
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VendorName: Ahmad Nassri
VendorUrl: https://github.com/ahmadnassri/har-validator
has-binary-data@0.1.3
  VendorName: Kevin Roark
  URL: https://github.com/iarna/has-binary-data
has-unicode@2.0.1
  VendorName: Rebecca Turner
  VendorUrl: https://github.com/iarna/has-unicode
hash-for-dep@1.5.1
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VendorUrl: https://github.com/stefanpenner/hash-for-dep#readme
hosted-git-info@2.1.5
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VendorUrl: https://github.com/npm/hosted-git-info
hosted-git-info@2.8.5
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  VendorUrl: https://github.com/npm/hosted-git-info.git
in-publish@2.0.0
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inherits@2.0.3
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ini@1.3.5
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in-package-json@1.9.6
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isexe@2.0.0
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json-stringify-safe@5.0.1
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lockfile@1.0.4
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lru-cache@4.1.5
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matcher-collection@1.1.2
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minimatch@2.0.10
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  VendorUrl: http://blog.izs.me
minimatch@3.0.4
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mute-stream@0.0.8
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  VendorUrl: http://blog.izs.me/natives@1.1.6
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  VendorName: Isaac Z. Schlueter
  VendorUrl: https://github.com/addaleax/natives#readme
node-modules-path@1.0.2
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nopt@3.0.6
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normalize-git-url@3.0.2
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VendorUrl: https://github.com/npm/normalize-git-url
npm-cache-filename@1.0.2
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VendorName: Isaac Z. Schlueter
VendorUrl: https://github.com/npm/npm-cache-filename
npm-normalize-package-bin@1.0.1
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VendorName: Isaac Z. Schlueter
VendorUrl: https://izs.me
npm-package-arg@4.0.2
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npm-package-arg@5.1.2
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VendorName: Isaac Z. Schlueter
VendorUrl: https://github.com/npm/npm-package-arg
npm-registry-client@7.0.9
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VendorUrl: http://blog.izs.me/
npmlog@1.2.1
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npmlog@4.1.2
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once@1.4.0
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VendorUrl: http://blog.izs.me/
osenv@0.1.5
URL: https://github.com/npm/osenv
VendorName: Isaac Z. Schlueter
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path-posix@1.0.0
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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
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VendorName: Stefan Penner
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promzard@0.3.0
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VendorUrl: http://blog.izs.me/
proto-list@1.2.4
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VendorName: Isaac Z. Schlueter
VendorUrl: http://blog.izs.me/
pseudomap@1.0.2
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VendorUrl: https://github.com/isaacs/pseudomap#readme
read-installed@4.0.3
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VendorName: Isaac Z. Schlueter
VendorUrl: http://blog.izs.me/
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VendorName: Isaac Z. Schlueter
VendorUrl: http://blog.izs.me/
read@1.0.7
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VendorName: Isaac Z. Schlueter
VendorUrl: http://blog.izs.me/
readdir-scoped-modules@1.1.0
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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: 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
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  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/
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  VendorUrl: http://blog.izs.me/
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wide-align@1.1.3
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  VendorName: Rebecca Turner
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wrappy@1.0.2
URL: https://github.com/npm/wrappy
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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
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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
VendorUrl: https://github.com/yargs/yargs-parser

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
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VendorUrl: https://github.com/epoberezkin/ajv
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VendorName: Jon Schlinkert
VendorUrl: https://github.com/jonschlinkert/align-text
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VendorName: Olov Lassus
amd-name-resolver@0.0.2
VendorName: Ember CLI contributors
ansi-regex@0.2.1
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ansi-regex@1.1.1
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VendorUrl: sindresorhus.com
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ansicolors@0.3.2
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ansistyles@0.1.3
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VendorName: James Halliday
VendorUrl: http://substack.net
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VendorUrl: http://jongleberry.com
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VendorUrl: sindresorhus.com
array-flatten@1.1.1
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VendorUrl: https://github.com/jonschlinkert/array-unique
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asap@2.0.6
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asn1@0.2.4
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assert-plus@0.2.0
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ast-traverse@0.1.1
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ast-types@0.8.12
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async-promise-queue@1.0.5
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aws4@1.9.0
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babel-core@5.8.38
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babel-plugin-eval@1.0.1
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babel-plugin-htmlbars-inline-precompile@0.0.5
URL: https://github.com/pangratz/babel-plugin-htmlbars-inline-precompile
VendorName: Clemens Müller
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benchmark@1.0.0
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better-assert@1.0.2
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VendorName: TJ Holowaychuk
binaryextensions@2.2.0
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VendorName: Jo Liss

broccoli-slow-trees@1.1.0
URL: https://github.com/rwjblue/broccoli-slow-trees.git
VendorName: Robert Jackson

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
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VendorName: Edward Faulkner

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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

broccoli-uglify-sourcemap@1.5.2
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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

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

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VendorName: Sindre Sorhus
builtins@1.0.3
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bytes@2.2.0
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bytes@2.4.0
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VendorUrl: http://substack.net
clean-css@2.2.23
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VendorName: Guillermo Rauch
cli@1.0.1
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color-name@1.1.3
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colors@1.0.3
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commander@2.2.0
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config-chain@1.1.12
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ctype@0.5.3
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VendorUrl: https://github.com/rmustaccchi/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@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
VendorName: TJ Holowaychuk

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

decamelize@1.2.0
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
VendorUrl: https://github.com/sreenaths/em-table.git

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
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 Müller

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
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

VendorName: Automattic
engine.io-parser@1.2.2
URL: https://github.com/Automattic/engine.io-parser.git

VendorName: Automattic
engine.io-pure@1.5.9
URL: git@github.com:Automattic/engine.io-pure.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/jshttpetag.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
VendorName: Evgeny Poberezkin
VendorUrl: https://github.com/epoberezkin/fast-deep-equal#readme
fast-deep-equal@2.0.1
URL: 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/davepacheco/node-extsprintf.git
VendorName: James Halliday
VendorUrl: https://github.com/jonschlinkert/extglob
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/jonschlinkert/expand-brackets
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
gitpass@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
URL: https://github.com/component/has-binary.git
VendorName: Kevin Roark
VendorUrl: http://sindresorhus.com
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: 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-hash.git
VendorName: Sindre Sorhus
VendorUrl: sindresorhus.com
heimdallijs-logger@0.1.10
URL: git+https://github.com/heimdalljs/heimdallijs-logger.git
VendorName: David J. Hamilton
VendorUrl: https://github.com/heimdalljs/heimdallijs-logger#README.md
heimdallijs@0.2.6
URL: git+https://github.com/heimdalljs/heimdallijs-lib.git
VendorUrl: https://github.com/hjdivad/heimdallijs-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
VendorUrl: https://github.com/joliss/include-path-searcher

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 Aboukhadidjeh
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-url@0.2.0
URL: git://github.com/jonschlinkert/is-url.git
VendorName: Jon Schlinkert
VendorUrl: https://github.com/jonschlinkert/is-url
is-url@0.2.3
URL: https://github.com/jonschlinkert/is-url.git
VendorName: Jon Schlinkert
VendorUrl: https://github.com/jonschlinkert/is-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
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JUnit

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jaxb-api

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Zstd-jni: JNI bindings to Zstd Library

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uriparser - RFC 3986 URI parsing library

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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)

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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/native/gtest/gtest-all.cc
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org.ow2.asm:asm-tree:9.0

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

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org.slf4j:slf4j-log4j12:1.7.30
CDDL 1.1 + GPLv2 with classpath exception
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1.1274 jackson-databind 2.6.7.2

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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.salaranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers, as well as supported
commercially by FasterXML.com.

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## Credits

A list of contributors may be found from CREDITS file, which is included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.
1.1275 aws-java-sdk-secretsmanager 1.11.508

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* and limitations under the License.
*/
/**
* <p>
* Creates a new secret. A secret in Secrets Manager consists of both the protected secret data and the important
* information needed to manage the secret.
* </p>
* <p>
* Secrets Manager stores the encrypted secret data in one of a collection of "versions" associated with the secret.
* Each version contains a copy of the encrypted secret data. Each version is associated with one or more
* "staging labels" that identify where the version is in the rotation cycle. The
* <code>SecretVersionsToStages</code> field of the secret contains the mapping of staging labels to the active
* versions of the secret. Versions without a staging label are considered deprecated and are not included in the
* list.
* </p>
* <p>
* You provide the secret data to be encrypted by putting text in either the <code>SecretString</code> parameter or
* binary data in the <code>SecretBinary</code> parameter, but not both. If you include
* <code>SecretString</code> or
* <code>SecretBinary</code> then Secrets Manager also creates an initial secret version and automatically
* attaches
* the staging label <code>AWSCURRENT</code> to the new version.
* </p>
* <note>
* <ul>
* <li>
* <p>
* If you call an operation that needs to encrypt or decrypt the <code>SecretString</code> or
* `<code>SecretBinary</code>` for a secret in the same account as the calling user and that secret doesn't specify a
* AWS KMS encryption key, Secrets Manager uses the account's default AWS managed customer master key (CMK) with the
* alias `<code>aws/secretsmanager</code>`.
* If this key doesn't already exist in your account then Secrets Manager
* creates it for you automatically. All users and roles in the same AWS account automatically have access to use
* the default CMK. Note that if an Secrets Manager API call results in AWS having to create the account's
* AWS-managed CMK, it can result in a one-time significant delay in returning the result.

* </p>
* </li>
* </li>
* </p>

* If the secret is in a different AWS account from the credentials calling an API that requires encryption or
* decryption of the secret value then you must create and use a custom AWS KMS CMK because you can't access the
* default CMK for the account using credentials from a different AWS account. Store the ARN of the CMK in the
* secret when you create the secret or when you update it by including it in the `<code>KMSKeyId</code>`.
* If you call
* an API that must encrypt or decrypt `<code>SecretString</code>` or `<code>SecretBinary</code>` using credentials from
* a different account then the AWS KMS key policy must grant cross-account access to that other account's user or
* role for both the `<code>kms:GenerateDataKey</code>` and `<code>kms:Decrypt</code>` operations.

* </p>
* </li>
* </li>
* </p>

* `<b>Minimum permissions</b>`

* To run this command, you must have the following permissions:

* </p>
* </ul>

* `secretsmanager:CreateSecret`
* </p>
* </li>
* </li>
* </li>
* </p>

* `<code>kms:GenerateDataKey</code>` - needed only if you use a customer-managed AWS KMS key to encrypt the secret. You do not
* need this permission to use the account's default AWS managed CMK for Secrets Manager.
* <p>
* kms:Decrypt - needed only if you use a customer-managed AWS KMS key to encrypt the secret. You do not need this permission to use the account's default AWS managed CMK for Secrets Manager.
* </p>
* </li>
* </li>
* <p>
* secretsmanager:TagResource - needed only if you include the <code>Tags</code> parameter.
* </p>
* </li>
* </ul>
* </p>
* <b>Related operations</b>
* </p>
* </ul>
* </p>
* To delete a secret, use <a>DeleteSecret</a>.
* </p>
* </li>
* </li>
* <p>
* To modify an existing secret, use <a>UpdateSecret</a>.
* </p>
* </li>
* </li>
* <p>
* To create a new version of a secret, use <a>PutSecretValue</a>.
* </p>
* </li>
* </li>
* <p>
* To retrieve the encrypted secure string and secure binary values, use <a>GetSecretValue</a>.
* </p>
* </li>
* </li>
* <p>
* To retrieve all other details for a secret, use <a>DescribeSecret</a>. This does not include the encrypted secure string and secure binary values.
* </p>
* </li>
* </li>
* <p>
* To retrieve the list of secret versions associated with the current secret, use <a>DescribeSecret</a> and examine the <code>SecretVersionsToStages</code> response value.
* </p>
* </li>
* @param createSecretRequest
* @return Result of the CreateSecret operation returned by the service.
* @throws InvalidParameterException
* You provided an invalid value for a parameter.
* @throws InvalidRequestException
* You provided a parameter value that is not valid for the current state of the resource.</p>
* <p>
* Possible causes:
* <ul>
* <li>
* You tried to perform the operation on a secret that's currently marked deleted.
* </li>
* <li>
* You tried to enable rotation on a secret that doesn't already have a Lambda function ARN configured and
* you didn't include such an ARN as a parameter in this call.
* </li>
* <li>
* The request failed because it would exceed one of the Secrets Manager internal limits.
* </li>
* <li>
* Secrets Manager can't encrypt the protected secret text using the provided KMS key. Check that the
* customer master key (CMK) is available, enabled, and not in an invalid state. For more information, see
* <a href="http://docs.aws.amazon.com/kms/latest/developerguide/key-state.html">How Key State Affects
* Use</a> of a Customer Master Key</a>.</li>
* @throws ResourceExistsException
* A resource with the ID you requested already exists.
* @throws ResourceNotFoundException
* We can't find the resource that you asked for.
* @throws MalformedPolicyDocumentException
* The policy document that you provided isn't valid.
* @throws InternalServiceErrorException
* An error occurred on the server side.
* @throws PreconditionNotMetException
* The request failed because you did not complete all the prerequisite steps.
* @sample AWSSecretsManager.CreateSecret
* @see <a href="http://docs.aws.amazon.com/goto/WebAPI/secretsmanager-2017-10-17/CreateSecret" target="_top">AWS
* API Documentation</a>
*/
/**
* <p>
* Stores a new encrypted secret value in the specified secret. To do this, the operation creates a new version and
* attaches it to the secret. The version can contain a new `<code>SecretString</code>` value or a new
* `<code>SecretBinary</code>` value. You can also specify the staging labels that are initially attached to the new
* version.
* </p>
* </note>
* </p>

* The Secrets Manager console uses only the `<code>SecretString</code>` field. To add binary data to a secret with
* the `<code>SecretBinary</code>` field you must use the AWS CLI or one of the AWS SDKs.
* </p>
* </note>
* </p>

* If this operation creates the first version for the secret then Secrets Manager automatically attaches the
* staging label `<code>AWSCURRENT</code>` to the new version.
* </p>
* </li>
* </li>
* </li>
* </li>

* If another version of this secret already exists, then this operation does not automatically move any staging
* labels other than those that you explicitly specify in the `<code>VersionStages</code>` parameter.
* </p>
* </li>
* </li>
* </li>
* </li>

* If this operation moves the staging label `<code>AWSCURRENT</code>` from another version to this version
(because
* you included it in the `<code>StagingLabels</code>` parameter) then Secrets Manager also automatically moves the
* staging label `<code>AWSPREVIOUS</code>` to the version that `<code>AWSCURRENT</code>` was removed from.
* </p>
* </li>
* </li>
* </li>
* </li>

* This operation is idempotent. If a version with a `<code>VersionId</code>` with the same value as the
* `<code>ClientRequestToken</code>` parameter already exists and you specify the same secret data, the operation
* succeeds but does nothing. However, if the secret data is different, then the operation fails because you cannot
* modify an existing version; you can only create new ones.
* </p>
* </li>
* </li>
* </ul>

```
If you call an operation that needs to encrypt or decrypt the `SecretString` or `SecretBinary` for a secret in the same account as the calling user and that secret doesn't specify an AWS KMS encryption key, Secrets Manager uses the account's default AWS managed customer master key (CMK) with the alias `<code>aws/secretsmanager</code>`. If this key doesn't already exist in your account then Secrets Manager creates it for you automatically. All users and roles in the same AWS account automatically have access to use the default CMK. Note that if an Secrets Manager API call results in AWS having to create the account's AWS-managed CMK, it can result in a one-time significant delay in returning the result.

If the secret is in a different AWS account from the credentials calling an API that requires encryption or decryption of the secret value then you must create and use a custom AWS KMS CMK because you can't access the default CMK for the account using credentials from a different AWS account. Store the ARN of the CMK in the secret when you create the secret or when you update it by including it in the `<code>KMSKeyId</code>`. If you call an API that must encrypt or decrypt `<code>SecretString</code>` or `<code>SecretBinary</code>` using credentials from a different account then the AWS KMS key policy must grant cross-account access to that other account's user or role for both the `kms:GenerateDataKey` and `kms:Decrypt` operations.

To run this command, you must have the following permissions:

- `<code>secretsmanager:PutSecretValue</code>`
- `<code>kms:GenerateDataKey</code>` - needed only if you use a customer-managed AWS KMS key to encrypt the secret. You do not need this permission to use the account's default AWS managed CMK for Secrets Manager.
* **Related operations**

* To retrieve the encrypted value you store in the version of a secret, use [GetSecretValue](#).

* To create a secret, use [CreateSecret](#).

* To get the details for a secret, use [DescribeSecret](#).

* To list the versions attached to a secret, use [ListSecretVersionIds](#).

* @param putSecretValueRequest

* @return Result of the PutSecretValue operation returned by the service.

* @throws InvalidParameterException

* You provided an invalid value for a parameter.

* @throws InvalidRequestException

* You provided a parameter value that is not valid for the current state of the resource.

* Possible causes:

* You tried to perform the operation on a secret that's currently marked deleted.

* You tried to enable rotation on a secret that doesn't already have a Lambda function ARN configured and you didn't include such an ARN as a parameter in this call.

* @throws LimitExceededException
* The request failed because it would exceed one of the Secrets Manager internal limits.
* @throws EncryptionFailureException
* Secrets Manager can't encrypt the protected secret text using the provided KMS key. Check that the
* customer master key (CMK) is available, enabled, and not in an invalid state. For more information, see
* a href="http://docs.aws.amazon.com/kms/latest/developerguide/key-state.html">How Key State Affects
Use
* of a Customer Master Key</a>.
* @throws ResourceExistsException
* A resource with the ID you requested already exists.
* @throws ResourceNotFoundException
* We can't find the resource that you asked for.
* @throws InternalServiceErrorException
* An error occurred on the server side.
* @sample AWSSecretsManager.PutSecretValue
* @see <a href="http://docs.aws.amazon.com/goto/WebAPI/secretsmanager-2017-10-17/PutSecretValue" target="_top">AWS
* API Documentation</a>
Manager automatically attaches the staging label `<code>AWSCURRENT</code>` to the new version.

- If you call an operation that needs to encrypt or decrypt the `<code>SecretString</code>` or `<code>SecretBinary</code>` for a secret in the same account as the calling user and that secret doesn't specify a AWS KMS encryption key, Secrets Manager uses the account's default AWS managed customer master key (CMK) with the
  - alias `<code>aws/secretsmanager</code>`. If this key doesn't already exist in your account then Secrets Manager creates it for you automatically. All users and roles in the same AWS account automatically have access to use the default CMK. Note that if an Secrets Manager API call results in AWS having to create the account's AWS-managed CMK, it can result in a one-time significant delay in returning the result.

- If the secret is in a different AWS account from the credentials calling an API that requires encryption or decryption of the secret value then you must create and use a custom AWS KMS CMK because you can't access the
  - default CMK for the account using credentials from a different AWS account. Store the ARN of the CMK in the secret when you create the secret or when you update it by including it in the `<code>KMSKeyId</code>`. If you call
  - an API that must encrypt or decrypt `<code>SecretString</code>` or `<code>SecretBinary</code>` using credentials from
  - a different account then the AWS KMS key policy must grant cross-account access to that other account's user or role for both the `<code>kms:GenerateDataKey</code>` and `<code>kms:Decrypt</code>` operations.

- To run this command, you must have the following permissions:

  * `<code>secretsmanager:UpdateSecret</code>`
* <p>
* kms:GenerateDataKey - needed only if you use a custom AWS KMS key to encrypt the secret. You do not need this

* permission to use the account's AWS managed CMK for Secrets Manager.

* </p>
* </li>
* </li>
* <p>
* kms:Decrypt - needed only if you use a custom AWS KMS key to encrypt the secret. You do not need this permission

* to use the account's AWS managed CMK for Secrets Manager.

* </p>
* </li>
* </ul>
* </li>
* <p>
* Related operations</p>
* </li>
* </ul>
* To create a new secret, use <a>CreateSecret</a>.

* </p>
* </li>
* </li>
* </li>
* </ul>
* To add only a new version to an existing secret, use <a>PutSecretValue</a>.

* </p>
* </li>
* </li>
* </li>
* </ul>
* To get the details for a secret, use <a>DescribeSecret</a>.

* </p>
* </li>
* </li>
* </li>
* </ul>
* To list the versions contained in a secret, use <a>ListSecretVersionIds</a>.

* </p>
* </li>
* </li>
* </li>
* </ul>

* @param updateSecretRequest
* @return Result of the UpdateSecret operation returned by the service.
* @throws InvalidParameterException
*     You provided an invalid value for a parameter.
* @throws InvalidRequestException
*     You provided a parameter value that is not valid for the current state of the resource.
* </p>
* </li>
* Possible causes:
You tried to perform the operation on a secret that's currently marked deleted.

You tried to enable rotation on a secret that doesn't already have a Lambda function ARN configured and you didn't include such an ARN as a parameter in this call.

@throws LimitExceededException
The request failed because it would exceed one of the Secrets Manager internal limits.

@throws EncryptionFailureException
Secrets Manager can't encrypt the protected secret text using the provided KMS key. Check that the customer master key (CMK) is available, enabled, and not in an invalid state. For more information, see <a href="http://docs.aws.amazon.com/kms/latest/developerguide/key-state.html">How Key State Affects Use</a> of a Customer Master Key.</a>.

@throws ResourceExistsException
A resource with the ID you requested already exists.

@throws ResourceNotFoundException
We can't find the resource that you asked for.

@throws MalformedPolicyDocumentException
The policy document that you provided isn't valid.

@throws InternalServiceErrorException
An error occurred on the server side.

@throws PreconditionNotMetException
The request failed because you did not complete all the prerequisite steps.

@sample AWSSecretsManager.UpdateSecret

@see <a href="http://docs.aws.amazon.com/goto/WebAPI/secretsmanager-2017-10-17/UpdateSecret" target="_top">AWS API Documentation</a>

*/

Found in path(s):
* /opt/cola/permits/1241111026_1639450912.68/0/aws-java-sdk-secretsmanager-1-11-508-sources-jar/com/amazonaws/services/secretsmanager/AWSSecretsManagerClient.java
* /opt/cola/permits/1241111026_1639450912.68/0/aws-java-sdk-secretsmanager-1-11-508-sources-jar/com/amazonaws/services/secretsmanager/AWSSecretsManager.java

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*/
/**
 * Creates a new secret. A secret in Secrets Manager consists of both the protected secret data and the important
 * information needed to manage the secret.
 * </p>
 * </p>
 * Secrets Manager stores the encrypted secret data in one of a collection of "versions" associated with the secret.
 * Each version contains a copy of the encrypted secret data. Each version is associated with one or more
 * "staging labels" that identify where the version is in the rotation cycle. The
 * <code>SecretVersionsToStages</code> field of the secret contains the mapping of staging labels to the active
 * versions of the secret. Versions without a staging label are considered deprecated and are not included in the
 * list.
 * </p>
 * </p>
 * You provide the secret data to be encrypted by putting text in either the <code>SecretString</code> parameter
or
 * binary data in the <code>SecretBinary</code> parameter, but not both. If you include
<code>SecretString</code> or
 * <code>SecretBinary</code> then Secrets Manager also creates an initial secret version and automatically
attaches
 * the staging label <code>AWSCURRENT</code> to the new version.
 * </p>
 * </p>
 * </ul>
 * </li>
 * </p>
 * </p>
 * If you call an operation that needs to encrypt or decrypt the <code>SecretString</code> or
 * <code>SecretBinary</code> for a secret in the same account as the calling user and that secret doesn't specify a
 * AWS KMS encryption key, Secrets Manager uses the account's default AWS managed customer master key
(CMK) with the
 * alias <code>aws/secretsmanager</code>. If this key doesn't already exist in your account then Secrets Manager
 * creates it for you automatically. All users and roles in the same AWS account automatically have access to use
 * the default CMK. Note that if an Secrets Manager API call results in AWS having to create the account's
 * AWS-managed CMK, it can result in a one-time significant delay in returning the result.
 * </p>
 * </li>
 * </li>
If the secret is in a different AWS account from the credentials calling an API that requires encryption or decryption of the secret value then you must create and use a custom AWS KMS CMK because you can't access the default CMK for the account using credentials from a different AWS account. Store the ARN of the CMK in the secret when you create the secret or when you update it by including it in the `<code>KMSKeyId</code>`. If you call an API that must encrypt or decrypt `<code>SecretString</code>` or `<code>SecretBinary</code>` using credentials from a different account then the AWS KMS key policy must grant cross-account access to that other account's user or role for both the `kms:GenerateDataKey` and `kms:Decrypt` operations.

**Minimum permissions**

To run this command, you must have the following permissions:

- `secretsmanager:CreateSecret`
- `kms:GenerateDataKey` - needed only if you use a customer-managed AWS KMS key to encrypt the secret. You do not need this permission to use the account's default AWS managed CMK for Secrets Manager.
- `kms:Decrypt` - needed only if you use a customer-managed AWS KMS key to encrypt the secret. You do not need this permission to use the account's default AWS managed CMK for Secrets Manager.
- `secretsmanager:TagResource` - needed only if you include the `<code>Tags</code>` parameter.
* </li>
* </ul>

* Related operations*

* </p>
* </ul>
* </li>
* </p>

* To delete a secret, use <a>DeleteSecret</a>.

* </p>
* </li>
* </p>

* To modify an existing secret, use <a>UpdateSecret</a>.

* </p>
* </li>
* </p>

* To create a new version of a secret, use <a>PutSecretValue</a>.

* </p>
* </li>
* </p>

* To retrieve the encrypted secure string and secure binary values, use <a>GetSecretValue</a>.

* </p>
* </li>
* </p>

* To retrieve all other details for a secret, use <a>DescribeSecret</a>. This does not include the encrypted secure string and secure binary values.

* </p>
* </li>
* </p>

* To retrieve the list of secret versions associated with the current secret, use <a>DescribeSecret</a> and examine the <code>SecretVersionsToStages</code> response value.

* </p>
* </li>
* </p>

*/

@sample AWSJavaCreateSecret

@see <a href="http://docs.aws.amazon.com/goto/WebAPI/secretsmanager-2017-10-17/CreateSecret" target="_top">AWS API Documentation</a>
Stores a new encrypted secret value in the specified secret. To do this, the operation creates a new version and attaches it to the secret. The version can contain a new <code>SecretString</code> value or a new <code>SecretBinary</code> value. You can also specify the staging labels that are initially attached to the new version.

The Secrets Manager console uses only the <code>SecretString</code> field. To add binary data to a secret with the <code>SecretBinary</code> field you must use the AWS CLI or one of the AWS SDKs.

If this operation creates the first version for the secret then Secrets Manager automatically attaches the staging label <code>AWSCURRENT</code> to the new version.

If another version of this secret already exists, then this operation does not automatically move any staging labels other than those that you explicitly specify in the <code>VersionStages</code> parameter.

If this operation moves the staging label <code>AWSCURRENT</code> from another version to this version (because you included it in the <code>StagingLabels</code> parameter) then Secrets Manager also automatically moves the staging label <code>AWSPREVIOUS</code> to the version that <code>AWSCURRENT</code> was removed from.

This operation is idempotent. If a version with a <code>VersionId</code> with the same value as the <code>ClientRequestToken</code> parameter already exists and you specify the same secret data, the operation succeeds but does nothing. However, if the secret data is different, then the operation fails because you cannot modify an existing version; you can only create new ones.
If you call an operation that needs to encrypt or decrypt the `<code>SecretString</code>` or `<code>SecretBinary</code>` for a secret in the same account as the calling user and that secret doesn't specify a AWS KMS encryption key, Secrets Manager uses the account's default AWS managed customer master key (CMK) with the alias `<code>aws/secretsmanager</code>`. If this key doesn't already exist in your account then Secrets Manager creates it for you automatically. All users and roles in the same AWS account automatically have access to use the default CMK. Note that if an Secrets Manager API call results in AWS having to create the account's AWS-managed CMK, it can result in a one-time significant delay in returning the result.

If the secret is in a different AWS account from the credentials calling an API that requires encryption or decryption of the secret value then you must create and use a custom AWS KMS CMK because you can't access the default CMK for the account using credentials from a different AWS account. Store the ARN of the CMK in the secret when you create the secret or when you update it by including it in the `<code>KMSKeyId</code>`. If you call an API that must encrypt or decrypt `<code>SecretString</code>` or `<code>SecretBinary</code>` using credentials from a different account then the AWS KMS key policy must grant cross-account access to that other account's user or role for both the `kms:GenerateDataKey` and `kms:Decrypt` operations.

To run this command, you must have the following permissions:

- `<code>secretsmanager:PutSecretValue</code>`
- `<code>kms:GenerateDataKey</code>` - needed only if you use a customer-managed AWS KMS key to encrypt the secret. You do not need this permission to use the account's default AWS managed CMK for Secrets Manager.
To retrieve the encrypted value you store in the version of a secret, use `<a>GetSecretValue</a>.

To create a secret, use `<a>CreateSecret</a>.

To get the details for a secret, use `<a>DescribeSecret</a>.

To list the versions attached to a secret, use `<a>ListSecretVersionIds</a>.

```
@param putSecretValueRequest
@return A Java Future containing the result of the PutSecretValue operation returned by the service.
@sample AWSSecretsManagerAsync.PutSecretValue
@see <a href="http://docs.aws.amazon.com/goto/WebAPI/secretsmanager-2017-10-17/PutSecretValue" target="_top">AWS API Documentation</a>
```
* you must use either the AWS CLI or one of the AWS SDKs.

* </p>

* </note>

* <ul>

* </li>

* </p>

* If a version with a <code>VersionId</code> with the same value as the <code>ClientRequestToken</code> parameter already exists, the operation results in an error. You cannot modify an existing version, you can only create a new version.

* </p>

* </li>

* </p>

* If you include <code>SecretString</code> or <code>SecretBinary</code> to create a new secret version, Secrets Manager automatically attaches the staging label <code>AWSCURRENT</code> to the new version.

* </p>

* </li>

* </ul>

* </note>

* <ul>

* </li>

* </p>

* If you call an operation that needs to encrypt or decrypt the <code>SecretString</code> or <code>SecretBinary</code> for a secret in the same account as the calling user and that secret doesn't specify a AWS KMS encryption key, Secrets Manager uses the account's default AWS managed customer master key (CMK) with the alias <code>aws/secretsmanager</code>. If this key doesn't already exist in your account then Secrets Manager creates it for you automatically. All users and roles in the same AWS account automatically have access to use the default CMK. Note that if an Secrets Manager API call results in AWS having to create the account's AWS-managed CMK, it can result in a one-time significant delay in returning the result.

* </p>

* </li>

* </p>

* If the secret is in a different AWS account from the credentials calling an API that requires encryption or decryption of the secret value then you must create and use a custom AWS KMS CMK because you can't access the default CMK for the account using credentials from a different AWS account. Store the ARN of the CMK in the secret when you create the secret or when you update it by including it in the <code>KMSKeyId</code>. If you call an API that must encrypt or decrypt <code>SecretString</code> or <code>SecretBinary</code> using credentials from a different account then the AWS KMS key policy must grant cross-account access to that other account's user or role for both the <code>kms:GenerateDataKey</code> and <code>kms:Decrypt</code> operations.

* </p>
* <li></li>*</ul>*</note>*</p>*</b>Minimum permissions</b>*</p>*<p>* To run this command, you must have the following permissions:*</p>*<ul>*<li>* secretsmanager:UpdateSecret*</li>*<li>* secretsmanager:ListSecrets*</li>*<li>* <p>* kms:GenerateDataKey - needed only if you use a custom AWS KMS key to encrypt the secret. You do not need this permission to use the account's AWS managed CMK for Secrets Manager.*</p>*<li>* kms:Decrypt - needed only if you use a custom AWS KMS key to encrypt the secret. You do not need this permission to use the account's AWS managed CMK for Secrets Manager.*</li>*<li>* Related operations</li>*<p>* To create a new secret, use <a>CreateSecret</a>.*</p>*<li>* To add only a new version to an existing secret, use <a>PutSecretValue</a>.*</li>*<li>* To get the details for a secret, use <a>DescribeSecret</a>.*</li>
* To list the versions contained in a secret, use `<a>ListSecretVersionIds</a>.

To list the versions contained in a secret, use `ListSecretVersionIds`.

* @param updateSecretRequest

* @return A Java Future containing the result of the UpdateSecret operation returned by the service.

* @sample AWSSecretsManagerAsync.UpdateSecret

* @see <a href="http://docs.aws.amazon.com/goto/WebAPI/secretsmanager-2017-10-17/UpdateSecret" target="_top">AWS API Documentation</a>

*/

Found in path(s):
* /opt/cola/permits/1241111026_1639450912.68/0/aws-java-sdk-secretsmanager-1-11-508-sources.jar/com/amazonaws/services/secretsmanager/AWSSecretsManagerAsync.java

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Found in path(s):
* /opt/cola/permits/1241111026_1639450912.68/0/aws-java-sdk-secretsmanager-1-11-508-sources.jar/com/amazonaws/services/secretsmanager/model/PutSecretValueRequest.java
* /opt/cola/permits/1241111026_1639450912.68/0/aws-java-sdk-secretsmanager-1-11-508-sources.jar/com/amazonaws/services/secretsmanager/model/CancelRotateSecretRequest.java
* /opt/cola/permits/1241111026_1639450912.68/0/aws-java-sdk-secretsmanager-1-11-508-sources.jar/com/amazonaws/services/secretsmanager/model/InvalidParameterException.java

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jar/com/amazonaws/services/secretsmanager/model/GetSecretValueRequestJava
* /opt/cola/permits/1241111026_1639450912.68/0/aws-java-sdk-secretsmanager-1-11-508-sources-
jar/com/amazonaws/services/secretsmanager/model/transform/ListSecretsRequestProtocolMarshaller.java
* /opt/cola/permits/1241111026_1639450912.68/0/aws-java-sdk-secretsmanager-1-11-508-sources-
jar/com/amazonaws/services/secretsmanager/model/transform/TagResourceRequestProtocolMarshaller.java
* /opt/cola/permits/1241111026_1639450912.68/0/aws-java-sdk-secretsmanager-1-11-508-sources-
jar/com/amazonaws/services/secretsmanager/model/ResourceExistsException.java
* /opt/cola/permits/1241111026_1639450912.68/0/aws-java-sdk-secretsmanager-1-11-508-sources-
* /opt/cola/permits/1241111026_1639450912.68/0/aws-java-sdk-secretsmanager-1-11-508-sources-
jar/com/amazonaws/services/secretsmanager/model/InvalidRequestException.java
* /opt/cola/permits/1241111026_1639450912.68/0/aws-java-sdk-secretsmanager-1-11-508-sources-
jar/com/amazonaws/services/secretsmanager/model/transform/RotateSecretRequestMarshaller.java
* /opt/cola/permits/1241111026_1639450912.68/0/aws-java-sdk-secretsmanager-1-11-508-sources-
jar/com/amazonaws/services/secretsmanager/model/AWSSecretsManagerException.java
* /opt/cola/permits/1241111026_1639450912.68/0/aws-java-sdk-secretsmanager-1-11-508-sources-
jar/com/amazonaws/services/secretsmanager/model/transform/UntagResourceRequestMarshaller.java
* /opt/cola/permits/1241111026_1639450912.68/0/aws-java-sdk-secretsmanager-1-11-508-sources-
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jar/com/amazonaws/services/secretsmanager/model/DescribeSecretResult.java
* /opt/cola/permits/1241111026_1639450912.68/0/aws-java-sdk-secretsmanager-1-11-508-sources-
jar/com/amazonaws/services/secretsmanager/model/transform/GetResourcePolicyRequestMarshaller.java
* /opt/cola/permits/1241111026_1639450912.68/0/aws-java-sdk-secretsmanager-1-11-508-sources-
jar/com/amazonaws/services/secretsmanager/model/transform/TagMarshaller.java
* /opt/cola/permits/1241111026_1639450912.68/0/aws-java-sdk-secretsmanager-1-11-508-sources-
jar/com/amazonaws/services/secretsmanager/model/transform/TagResourceRequestMarshaller.java
* /opt/cola/permits/1241111026_1639450912.68/0/aws-java-sdk-secretsmanager-1-11-508-sources-
jar/com/amazonaws/services/secretsmanager/model/ListSecretVersionIdsRequest.java
* /opt/cola/permits/1241111026_1639450912.68/0/aws-java-sdk-secretsmanager-1-11-508-sources-
jar/com/amazonaws/services/secretsmanager/model/transform/UpdateSecretVersionStageResultJsonUnmarshaller.java
* /opt/cola/permits/1241111026_1639450912.68/0/aws-java-sdk-secretsmanager-1-11-508-sources-
jar/com/amazonaws/services/secretsmanager/model/transform/PutSecretValueResultJsonUnmarshaller.java
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jar/com/amazonaws/services/secretsmanager/model/transform/PutSecretValueRequestProtocolMarshaller.java
* /opt/cola/permits/1241111026_1639450912.68/0/aws-java-sdk-secretsmanager-1-11-508-sources-
jar/com/amazonaws/services/secretsmanager/AWSSecretsManagerClientBuilder.java
* /opt/cola/permits/1241111026_1639450912.68/0/aws-java-sdk-secretsmanager-1-11-508-sources-
jar/com/amazonaws/services/secretsmanager/model/transform/ListSecretVersionIdsRequestMarshaller.java
* /opt/cola/permits/1241111026_1639450912.68/0/aws-java-sdk-secretsmanager-1-11-508-sources-
jar/com/amazonaws/services/secretsmanager/model/RestoreSecretResult.java
* /opt/cola/permits/1241111026_1639450912.68/0/aws-java-sdk-secretsmanager-1-11-508-sources-
jar/com/amazonaws/services/secretsmanager/model/ResourceExistsException.java
* /opt/cola/permits/1241111026_1639450912.68/0/aws-java-sdk-secretsmanager-1-11-508-sources-
jar/com/amazonaws/services/secretsmanager/model/transform/DeleteSecretResultJsonUnmarshaller.java
1.1276 aws-java-sdk-secretsmanager-1.11.508
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**1.11.172**

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1.1292 jta 1.3.3

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1.1296 aws-java-sdk-for-amazon-elastic-container-service-for-kubernetes 1.11.508

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1.1297 aws-java-sdk-for-aws-database-migration-service 1.11.257

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1.1298 aws-java-sdk-for-firewall-management

1.11.555

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1.1299 aws-java-sdk-for-aws-lex 1.11.172

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1.1300 jackson-databind 2.8.10

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1.1301 jackson-core 2.10.0

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1.1303 java-annotation-indexer 2.2.3.Final

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1.1304 aws-java-sdk-for-amazon-cognito-identity 1.11.508

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1.1305 aws-java-sdk-for-aws-device-farm

1.11.555

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1.11.508

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1.1310 jackson-core 2.10.1

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1.1313 lazystream 1.0.0

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1.1314 cloudwatch-metrics-for-aws-java-sdk

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